



March 4, 2021

New Mexico Oil Conservation Division
Engineering Bureau
1200 South St. Francis Street
Santa Fe, New Mexico 87505

Re: *Amendment* to Application For Authorization To Inject
Nageezi Unit SWD #1 / UIC Class II Permit SWD-2263

To Whom It May Concern:

Enclosed is DJR Operating, LLC's amendment to the Application for Disposal of produced water in the Nageezi Unit SWD #1. In fulfilling the requirements of the amendment to the application, the following materials are provided herein.

1. Form C-108, Application for Authorization to Inject.
2. General Information showing correct footages of Surface Hole Location.
3. Form C-102 Well Location and Acreage Dedication Plat showing correct footages of Surface Hole Location.
4. Tabular and schematic data on proposed injection well.
5. Two-mile radius map and well data of the proposed injection well.
6. One-half mile radius maps showing Leasehold and Surface ownership.
7. Operations Plan for proposed injection well.
8. Water analysis of produced water to be disposed in proposed injection well.
9. Geologic, stimulation, logging, test and freshwater data from nearby wells.
10. Signed statement of geologic and engineering data.
11. Notice of Affidavit of Publication as it appeared in the Farmington Daily Times.
12. Affidavit of Mailing in the form of Certified Mail (return receipt requested) sent to Surface and Leasehold Owners.

Sincerely,

A handwritten signature in black ink, appearing to read "Dave Brown", is written over a light blue horizontal line.

Dave Brown, Manager
Regulatory & Government Affairs
1 Road 3263
Aztec, New Mexico 87410
303-887-3695
dbrown@djrlc.com

RECEIVED:	REVIEWER:	TYPE:	APP NO:
-----------	-----------	-------	---------

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: <u>DJR Operating, LLC</u>	OGRID Number: <u>371838</u>
Well Name: <u>Nageezi Unit SWD #1</u>	API: _____
Pool: <u>SWD; Entrada</u>	Pool Code: <u>96436</u>

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location – Spacing Unit – Simultaneous Dedication
 NSL NSP (PROJECT AREA) NSP (PRORATION UNIT) SD
- B. Check one only for [I] or [II]
- [I] Commingling – Storage – Measurement
 DHC CTB PLC PC OLS OLM
- [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
- A. Offset operators or lease holders
 B. Royalty, overriding royalty owners, revenue owners
 C. Application requires published notice
 D. Notification and/or concurrent approval by SLO
 E. Notification and/or concurrent approval by BLM
 F. Surface owner
 G. For all of the above, proof of notification or publication is attached, and/or,
 H. No notice required

FOR OCD ONLY	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Dave Brown
 Print or Type Name

Signature

March 4, 2021
 Date

303-887-3695
 Phone Number

dbrown@djrlc.com
 e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: DJR Operating, LLC
ADDRESS: 1 Road 3263, Aztec, NM 87410
CONTACT PARTY: Dave Brown PHONE: 303-887-3695
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes No
If yes, give the Division order number authorizing the project: SWD-2263
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Dave Brown TITLE: Manager, Regulatory & Government Affairs
SIGNATURE:  DATE: 03/04/2021
E-MAIL ADDRESS: dbrown@djrlc.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: 08/23/2019

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Amended Application For Authorization To Inject

DJR Operating, LLC

Nageezi Unit SWD #1

UIC Class II Permit SWD-2263

General Information

DJR Operating, LLC is hereby making an application for administrative approval to dispose of produced water by underground injection. The proposed disposal site is the Nageezi Unit SWD #1. Located 1035' FNL & 998' FWL, Unit D, Section 34, Township 24 North, Range 9 West, San Juan County, New Mexico. Latitude: 36.275001°N Longitude: -107.781969°W.

Produced Water will be injected into the Entrada Sandstone between 6775' and 6970'. The maximum injection pressure will be 1355 psi and the maximum injection rate will be 6000 barrels of water daily.

The well is a new drill for the purpose of saltwater disposal. The well is in the process of being permitted and is awaiting amended SWD application approval to commence drilling. Upon approval of this amended application, an injection test will be conducted. If adequate rates are not found, it may be necessary to stimulate the proposed injection zone or perforate additional zones in the well.

Any changes to the plans contained herein will be approved by the New Mexico Oil Conservation Division prior to implementation.

DISTRICT I
 1825 N. French Dr., Hobbs, N.M. 88240
 Phone: (575) 393-6181 Fax: (575) 393-0720

DISTRICT II
 511 S. First St., Artesia, N.M. 88210
 Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
 1000 Rio Bravo Rd., Aztec, N.M. 87410
 Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505
 Phone: (505) 478-3460 Fax: (505) 478-3462

State of New Mexico
 Energy, Minerals & Natural Resources Department

Form C-102
 Revised August 1, 2011

Submit one copy to appropriate
 District Office

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Pool Name
Property Code	Property Name		Well Number
	NAGEEZI UNIT WDW		1
GRID No.	Operator Name		Elevation
371838	DJR OPERATING, LLC		6879'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	34	24N	9W		1035'	NORTH	998'	WEST	SAN JUAN

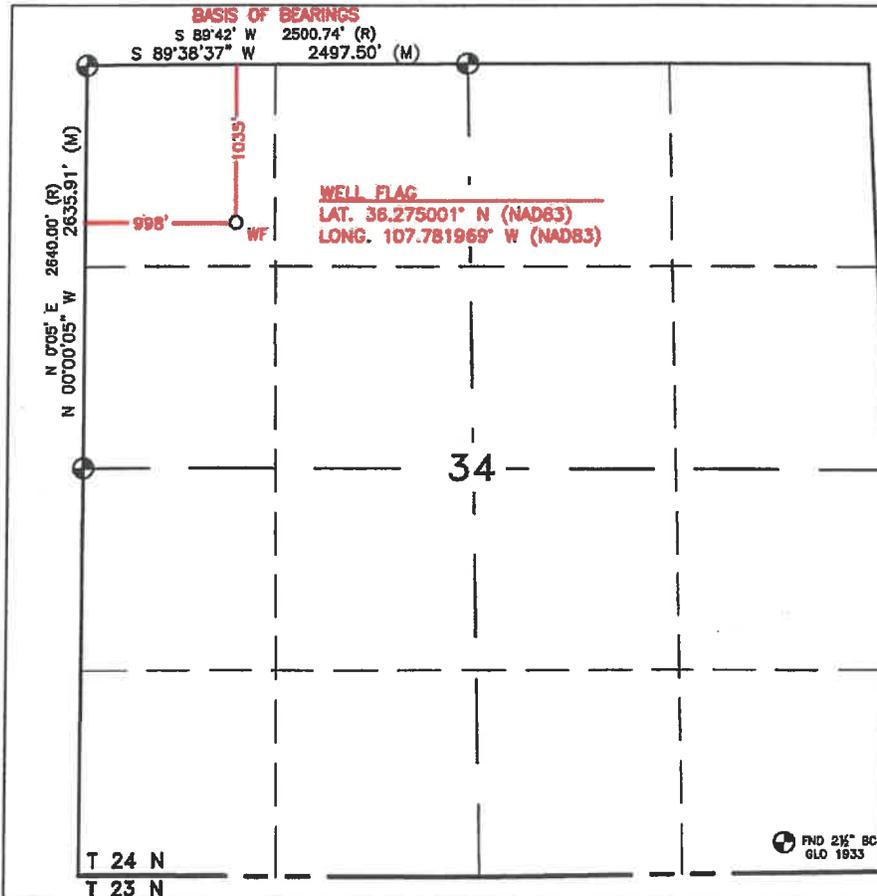
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Shaw-Marie Ford 1/10/20
 Signature Date

Shaw-Marie Ford
 Printed Name
 sford@djrlc.com
 E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 3, 2019

Date of Survey
 Signature and Seal of Professional Surveyor:



Certificate Number 11393

Amended Application For Authorization To Inject

DJR Operating, LLC

Nageezi Unit SWD #1

UIC Class II Permit SWD-2263

Injection Well Data

Tabular Information

Name: Nageezi Unit SWD #1
Location: 1035' FNL & 998' FWL
Unit D, Sec. 34, T24N, R9W
San Juan County, NM

Surface Casing and Cement:

Hole size: 12.25 inch. 9.625- inch, 36 lb., J55 set at 500 ft., ST&C coupling. Cemented with 253 sacks (352 cubic ft.). Circulate cement to surface.

Production Casing and Cement:

Hole size: 8.75 inch. 7-inch, 26lb., N80 set at 6970 ft., LT&C coupling. Cemented in two stages with stage tool (DV) at 3865 ft. First Stage: 700 total cubic ft. (Lead: 587 cubic ft. Tail: 113 cubic ft.).
Second Stage: 872 total cubic ft., (Lead: 759 cubic ft., Tail: 113 cubic ft.)

Injection Tubing:

3.5-inch, 9.3 lb., J55 EUE internally coated tubing set at 6785 ft.

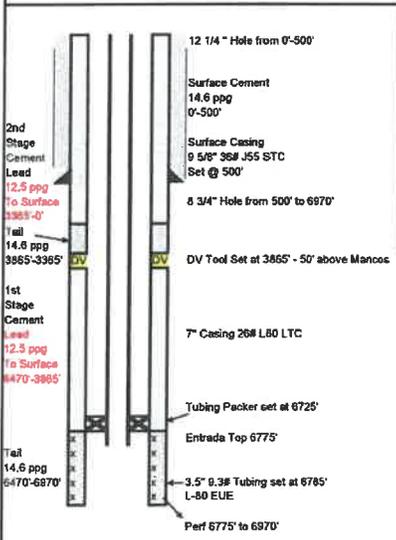
Packer:

7-inch by 3.5-inch AS1-X packer. 10K nickel coated, will be set in tension at 6725 ft., or 50 ft., above upper most perforation.

Additional Information

- Injection/Perforated Interval: Entrada Sandstone 6775' – 6970'
- This new well will be drilled for the purpose of injection into the Entrada Sandstone
- Only the injection interval shall be perforated
- Formation Tops
 - Fruitland: 965'
 - Pictured Cliffs: 1335'
 - Lewis: 1445'
 - Menefee: 2885'
 - Mancos: 3915'
 - Gallup: 4655'
 - Dakota: 5685'
 - Todilto: 6715''
 - Entrada: 6775'

Injection Well Data Sheet
Operator: DJR Operating LLC
Well Name and Number: Nageezi Unit WDW No. 1



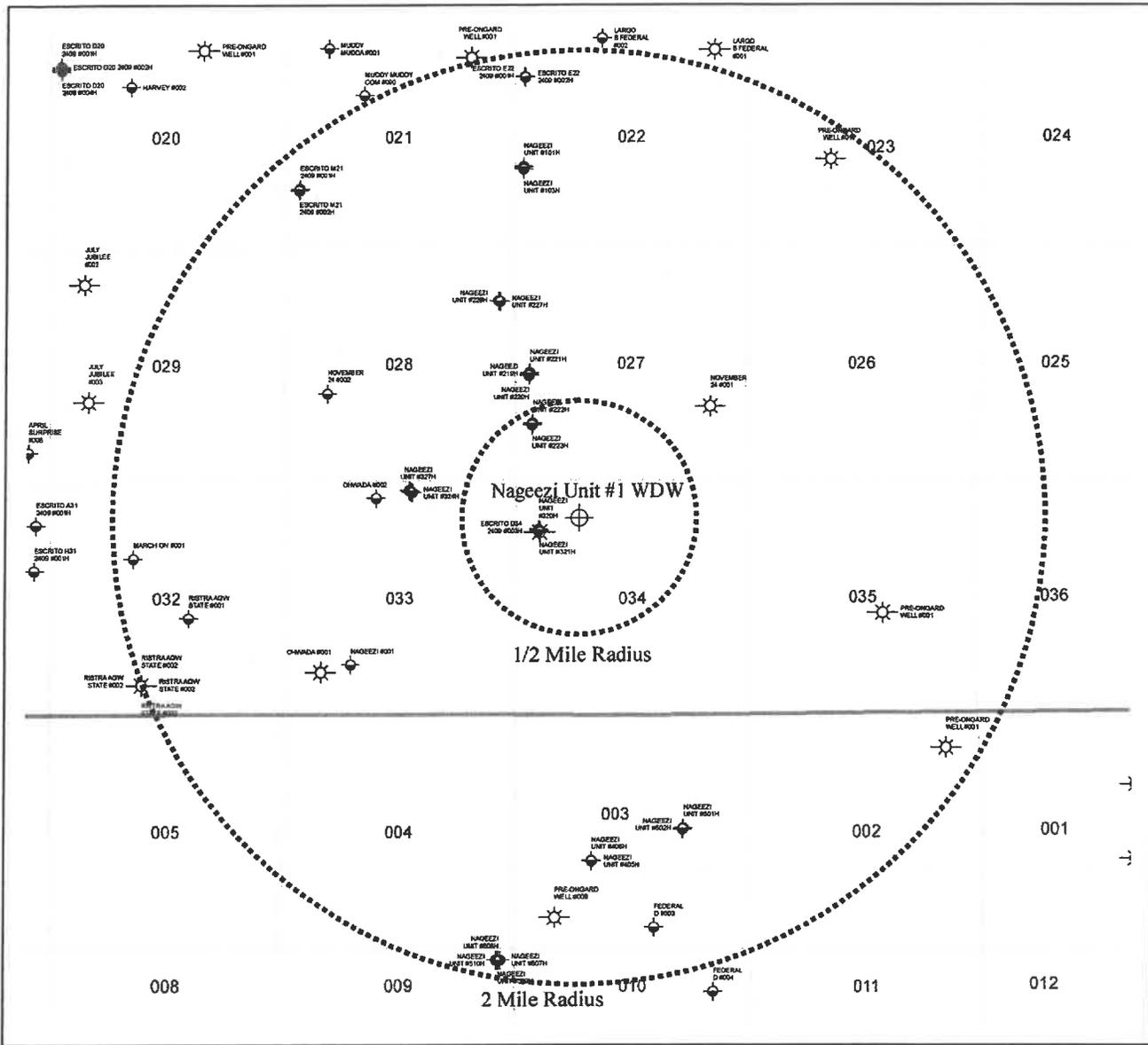
WELL NAME: Nageezi Unit WDW #1		STATE: New Mexico		LOCATION: 848' FNL & 1406' FWL		
API NO: TVD: 6970'		COUNTY: San Juan		Sec 34, T24N R9W		
TARGET FORMATION: Entrada						
CASING DATA and OTHER TOOLS						
	OD	WT/FT	GRADE	THREAD	TOP	EOC
Brl Csg	9.625"	38.00 lb/R	J-55	STC	0'	500'
Prod Liner	7.00"	26.00 lb/R	N-80	LT&C	0'	6970'
DV Tool						3865'
Packer	7" by 3 1/2" AS1-X 10K Nickel coated					

		IX	WT.	
Surface	Tail only	253	14.6 ppg	125% Excess over gauge
Production 1st Stage	Lead	295	12.5 ppg	50% Excess over gauge
1st Stage	Tail	82	14.6 ppg	
2nd Stage	Lead	381	12.5 ppg	
2nd Stage	Tail	82	14.6 ppg	
Total		840		

Geology					
Formation Tops	Subsea	TVD	MD	O/G/W	Pressure
Ojo Alamo	6215	615	615	W	normal
Kirtland	6050	780	780	W	normal
Fruitland	3865	965	965	G/W	sub-normal
Pictured Cliffs	5495	1335	1335	G/W	sub-normal
Lewis	5385	1445	1445	G/W	normal
Chacra	4815	2015	2015	G/W	normal
Cliff House	3985	2845	2845	G/W	sub-normal
Merefee	3945	2885	2885	G/W	normal
Point Lookout	3075	3755	3755	G/W	normal
Mancos	2915	3915	3915	O/G	normal
Gallup	2175	4655	4655	O/G	normal
Greenhorn	1245	5685	5685	O/G/W	normal
Dakota	1145	5685	5685	O/G/W	normal
Todilto	115	6715	6715	G/W	normal
Entrada	55	6775	6775	W	normal
Total Depth		6970	6970		

Tubing and Packer		
Size	Tubing Depth	Packer Depth
3.500"	6785'	6725'

9W



24N

23N

Legend- 2 Mile Radius Map

-  1/2 Mile Radius
-  2 Mile Radius Nageezi
-  Suspended, Cancelled, Plugged
-  New, Active
-  Nageezi Unit WDW

Navajo Unit WDW #1 - Data Sheet of All Wells Within 2 Miles

API	Well Name	Well Number	Type	Mineral Owner	Surface Owner	Status	Section	Township	Range	OCID Unit Letter	Last Production	Spud Date	Plugged On	Current Operator
30-045-35440	NAGEEZI UNIT	#320H	Oil	Federal	Federal	Active	34 24N	09W	D		Jun-19	8/2/2014		[371838] DJR OPERATING, LLC
30-045-35583	NAGEEZI UNIT	#321H	Oil	Federal	Federal	Active	34 24N	09W	D		Jun-19	8/16/2014		[371838] DJR OPERATING, LLC
30-045-35475	ESCRITO D34 2409	#003H	Oil	Federal	Federal	Plugged, Site Released	34 24N	09W	D	1/1800		7/26/2014	8/1/2014	INC.
30-045-35478	NAGEEZI UNIT	#219H	Oil	Federal	Federal	Active	27 24N	09W	L		Jun-19	8/8/2014		[371838] DJR OPERATING, LLC
30-045-35481	NAGEEZI UNIT	#220H	Oil	Federal	Federal	Active	27 24N	09W	L		Jun-19	7/27/2014		[371838] DJR OPERATING, LLC
30-045-35820	NAGEEZI UNIT	#221H	Oil	Federal	Federal	Active	27 24N	09W	L		Jun-19	3/17/2017		[371838] DJR OPERATING, LLC
30-045-35480	NAGEEZI UNIT	#222H	Gas	Federal	Federal	Active	27 24N	09W	M		Jun-19	8/9/2014		[371838] DJR OPERATING, LLC
30-045-35479	NAGEEZI UNIT	#223H	Gas	Federal	Federal	Active	27 24N	09W	M		Jun-19	7/28/2014		[371838] DJR OPERATING, LLC
30-045-25295	24-Nov	#001	Oil	Federal	Federal	Plugged, Site Released	27 24N	09W	I		Sep-02	2/1/1982	1/31/2005	[6515] DUGAN PRODUCTION CORP
30-045-35701	ESCRITO M21 2409	#001H	Oil	Federal	Federal	New	21 24N	09W	M	1/1800				[371838] DJR OPERATING, LLC
30-045-35703	ESCRITO M21 2409	#002H	Oil	Federal	Federal	New	21 24N	09W	M	1/1800				[371838] DJR OPERATING, LLC
30-045-25919	MUDDY MUDDA	#001	Oil	Federal	Federal	Active	21 24N	09W	D		19-Feb	4/27/1984		[6515] DUGAN PRODUCTION CORP
30-045-31767	MUDDY MUDDY COM	#090	Gas	Federal	Federal	Active	21 24N	09W	F		19-May	10/24/2003		[6515] DUGAN PRODUCTION CORP
30-045-05105	PRE-ONGARD WELL	#001	Oil	Federal	Federal	Plugged, Site Released	21 24N	09W	F	1/1800		8/2/1960	8/2/1960	[214263] PRE-ONGARD WELL OPERATC
30-045-35709	ESCRITO E22 2409	#001H	Gas	Federal	Federal	New	22 24N	09W	A	1/1800				[371838] DJR OPERATING, LLC
30-045-35706	ESCRITO E22 2409	#002H	Gas	Federal	Federal	New	22 24N	09W	E	1/1800				[371838] DJR OPERATING, LLC
30-045-35702	NAGEEZI UNIT	#101H	Oil	Federal	Federal	New	22 24N	09W	E	1/1800				[371838] DJR OPERATING, LLC
30-045-35700	NAGEEZI UNIT	#102H	Oil	Federal	Federal	New	22 24N	09W	E	1/1800				[371838] DJR OPERATING, LLC
30-045-35704	NAGEEZI UNIT	#103H	Oil	Federal	Federal	New	22 24N	09W	L	1/1800				[371838] DJR OPERATING, LLC
30-045-05103	LARGO B FEDERAL	#001	Oil	Federal	Federal	New	22 24N	09W	L	1/1800				[371838] DJR OPERATING, LLC
30-045-33173	LARGO B FEDERAL	#002	Oil	Federal	Federal	Plugged, Site Released	22 24N	09W	A		Sep-13	3/10/1958	8/2/2015	[6515] DUGAN PRODUCTION CORP
30-045-35558	NAGEEZI UNIT	#226H	Oil	Federal	Federal	Active	22 24N	09W	C	1/1800				[6515] DUGAN PRODUCTION CORP
30-045-35557	NAGEEZI UNIT	#227H	Oil	Federal	Federal	New	22 24N	09W	A	1/1800				[371838] DJR OPERATING, LLC
30-045-28961	24-Nov	#002	Oil	Federal	Federal	New	28 24N	09W	A	1/1800				[6515] DUGAN PRODUCTION CORP
30-045-26997	MARCH ON	#001	Oil	State	State	Active	28 24N	09W	A	1/1800				[371838] DJR OPERATING, LLC
30-045-27561	RISTRA AGW STATE	#001	Oil	State	State	Active	28 24N	09W	L	1/1800				[6515] DUGAN PRODUCTION CORP
30-045-30659	RISTRA AGW STATE	#002	Oil	State	State	Active	32 24N	09W	J	1/1800				[6515] DUGAN PRODUCTION CORP
30-045-31404	RISTRA AGW STATE	#002	Oil	State	State	Active	32 24N	09W	F	1/1800				[6515] DUGAN PRODUCTION CORP
30-045-32893	RISTRA AGW STATE	#002	Oil	State	State	Cancelled Apd	32 24N	09W	N	1/1800				[6515] DUGAN PRODUCTION CORP
30-045-34587	RISTRA AGW STATE	#002	Oil	State	State	Cancelled Apd	32 24N	09W	N	1/1800				[6515] DUGAN PRODUCTION CORP
30-045-35782	NAGEEZI UNIT	#324H	Oil	Federal	Federal	New	33 24N	09W	B	1/1800				[25575] EOG Y RESOURCES, INC.
30-045-35785	NAGEEZI UNIT	#325H	Oil	Federal	Federal	New	33 24N	09W	N	1/1800				[25575] EOG Y RESOURCES, INC.
30-045-35786	NAGEEZI UNIT	#326H	Oil	Federal	Federal	New	33 24N	09W	B	1/1800				[25575] EOG Y RESOURCES, INC.
30-045-35783	NAGEEZI UNIT	#327H	Oil	Federal	Federal	New	33 24N	09W	B	1/1800				[371838] DJR OPERATING, LLC
30-045-05089	NAGEEZI UNIT	#001	Oil	Federal	Federal	New	33 24N	09W	B	1/1800				[371838] DJR OPERATING, LLC
30-045-28981	OHWADA	#001	Oil	Federal	Federal	Active	33 24N	09W	N	1/1800				[371838] DJR OPERATING, LLC
30-045-29112	OHWADA	#002	Oil	Federal	Federal	Plugged, Site Released	33 24N	09W	M	1/1800			7/27/1998	[6515] DUGAN PRODUCTION CORP
30-045-35841	NAGEEZI UNIT	#405H	Oil	Navajo	Navajo	Active	3 23N	09W	C	1/1800				[6515] DUGAN PRODUCTION CORP
30-045-35842	NAGEEZI UNIT	#406H	Oil	Navajo	Navajo	Active	3 23N	09W	K	1/1800				[371838] DJR OPERATING, LLC
30-045-35860	NAGEEZI UNIT	#501H	Oil	Federal	Indian	Active	3 23N	09W	K	1/1800				[371838] DJR OPERATING, LLC
30-045-35863	NAGEEZI UNIT	#502H	Oil	Federal	Indian	Active	3 23N	09W	G	1/1800				[371838] DJR OPERATING, LLC
30-045-28455	FEDERAL D	#003	Oil	Federal	Federal	Active	3 23N	09W	G	1/1800				[371838] DJR OPERATING, LLC
30-045-35855	NAGEEZI UNIT	#507H	Oil	Navajo	Navajo	Active	9 23N	09W	O	1/1800				[372834] EPIC ENERGY, L.L.C.
30-045-35859	NAGEEZI UNIT	#508H	Oil	Navajo	Indian	New	9 23N	09W	A	1/1800				[371838] DJR OPERATING, LLC
30-045-35858	NAGEEZI UNIT	#509H	Oil	Navajo	Indian	New	9 23N	09W	A	1/1800				[371838] DJR OPERATING, LLC
30-045-35862	NAGEEZI UNIT	#510H	Oil	Navajo	Navajo	Active	9 23N	09W	A	1/1800				[371838] DJR OPERATING, LLC
30-045-35764	NAGEEZI UNIT	#513H	Oil	Federal	Indian	New	9 23N	09W	P	1/1800				[371838] DJR OPERATING, LLC
30-045-35763	NAGEEZI UNIT	#514H	Oil	Indian	Indian	New	9 23N	09W	P	1/1800				[371838] DJR OPERATING, LLC

* Wells in bold type are located within the 1/2 Mile Area of Review

Amended Application For Authorization To Inject

DJR Operating, LLC

Nageezi Unit SWD #1

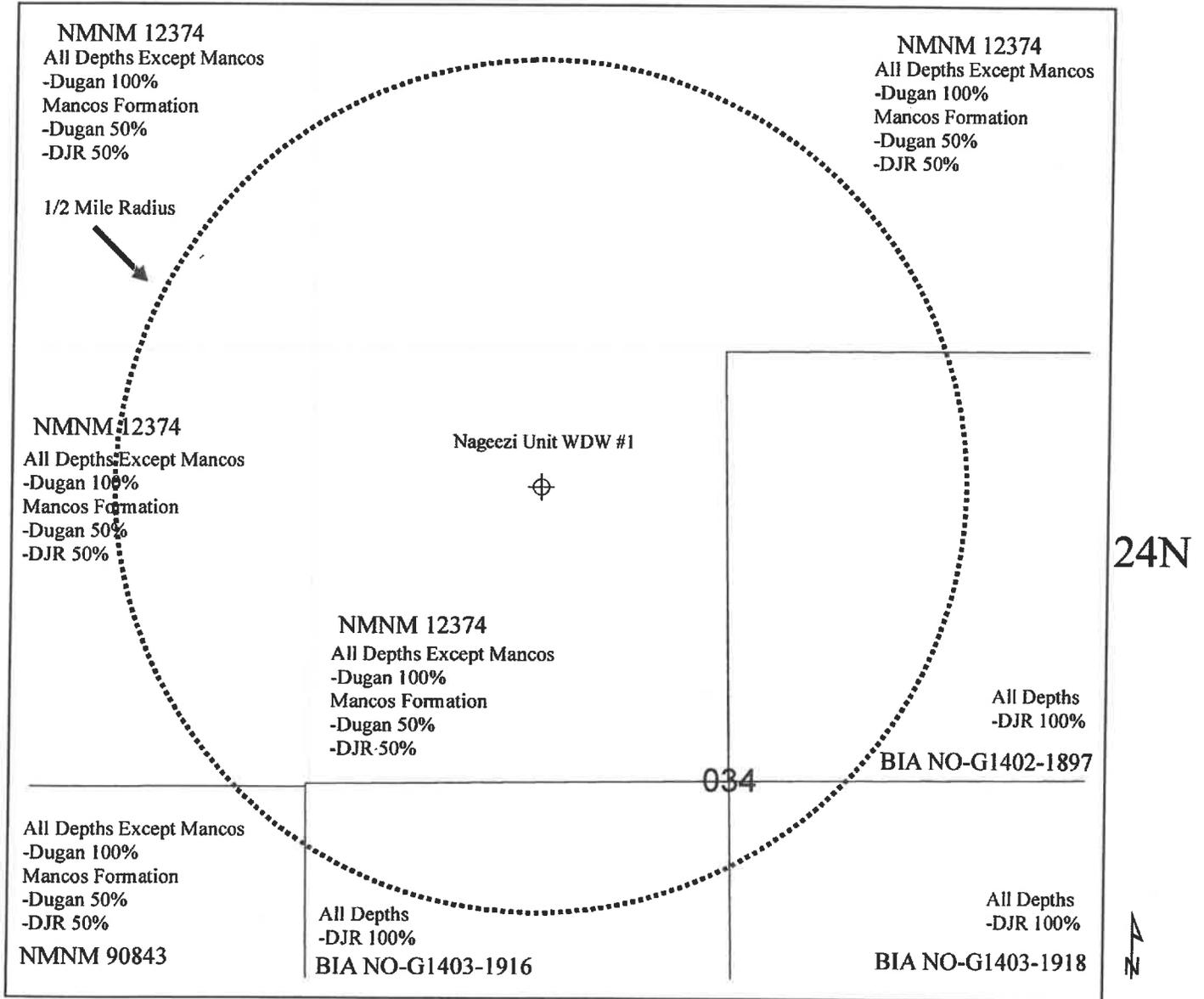
UIC Class II Permit SWD-2263

Data on Offset Wells

There are no wells within the one-half mile area of review which penetrate the proposed injection zone. Also, there are no plugged and abandoned wells in the one-half mile radius of the proposed injection well.

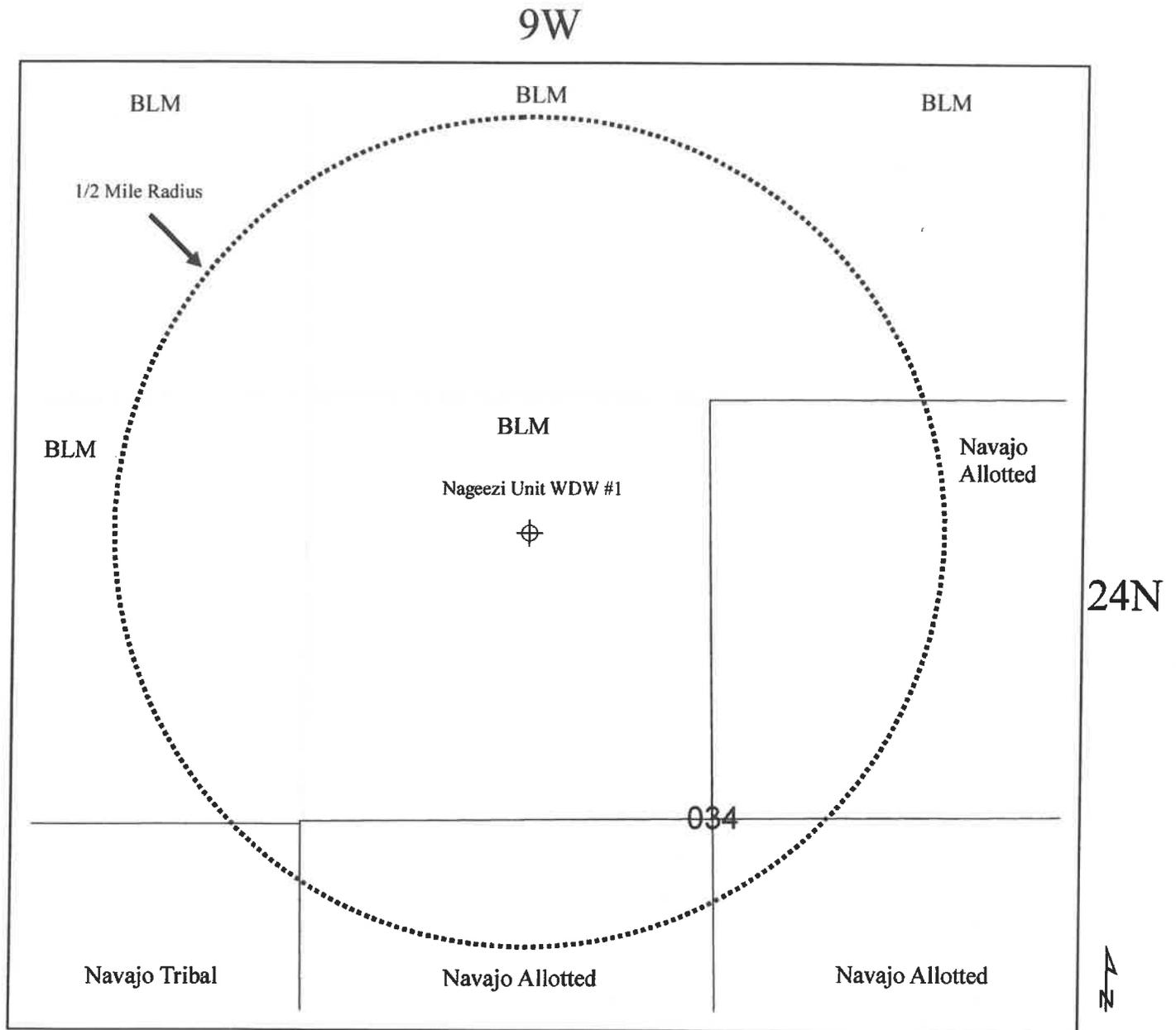
Township 24 North, Range 9 West
San Juan County, NM

9W



C-108 Application to Inject
Nageezi Unit WDW #1
Part V. b.
Lease Ownership Map

Township 24 North, Range 9 West
San Juan County, NM



C-108 Application to Inject
Nageezi Unit WDW #1
Part V. c.
Surface Ownership Map

Amended Application For Authorization To Inject

DJR Operating, LLC

Nageezi Unit SWD #1

UIC Class II Permit SWD-2263

Operations Plan

1. Average injection rate: 3000 bwpd with a maximum of 6000 bwpd.
2. The system will be closed.
3. The average injection pressure: 1000 psi and the maximum will be 1355 psi.
4. The source of injected water will be produced water from DJR Operated wells in the San Juan Basin of New Mexico from the Fruitland Coal, Pictured Cliffs, Mancos and Gallup Dakota formations. The water to be injected is compatible with the water in the disposal zone.
5. Injection is for disposal purposes into the Entrada Sandstone zone that is not productive of oil or gas within one mile of the proposed injection well.

Entrada Formation Water Samples

1. Entrada SWD

Section 8-25N-3W

2. Santa Fe 20 No. 1 SWD

Section 20-21N-8W

3. Herry Monster #3 SWD

Section 11-24N-11W

Water Analysis of Entrada Formation Water

(from TnT Disposal well located in section 8/T25N/R3W)

Multi-Chem Analytical Laboratory
 1122 S. FM1788
 Midland, TX 76706

multi-chem
 A HALLIBURTON SERVICE

Units of Measurement: **Standard**

Water Analysis Report

Production Company: **TNT Environmental**
 Well Name: **SWD ENTRADA**
 Sample Point: **SWD**
 Sample Date: **11/20/2014**
 Sample ID: **WA-294316**

Sales Rep: **Greg Ramalho**
 Lab Tech: **Andrew Callaghan**

Scaling potential predicted using ScaleSoftPizer from
 Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date: 11/25/2014		Cations		Anions	
		mg/L		mg/L	
System Temperature 1 (°F):	31	Sodium (Na):	4455.35	Chloride (Cl):	6000.00
System Pressure 1 (psig):	15	Potassium (K):	44.79	Sulfate (SO ₄):	1094.00
System Temperature 2 (°F):	300	Magnesium (Mg):	23.10	Bicarbonate (HCO ₃):	427.00
System Pressure 2 (psig):	300	Calcium (Ca):	115.67	Carbonate (CO ₃):	120.00
Calculated Density (g/ml):	1.0059	Strontium (Sr):	7.60	Acetic Acid (CH ₃ COO):	
pH:	7.60	Barium (Ba):	0.30	Propionic Acid (C ₂ H ₅ COO):	
Calculated TDS (mg/L):	12320.63	Iron (Fe):	1.82	Butanoic Acid (C ₃ H ₇ COO):	
CO ₂ in Gas (%):		Zinc (Zn):	0.10	Isobutyric Acid ((CH ₃) ₂ CHCOO):	
Dissolved CO ₂ (mg/L):	80.00	Lead (Pb):	0.00	Fluoride (F):	
H ₂ S in Gas (%):		Ammonia NH ₃ :		Bromine (Br):	
H ₂ S in Water (mg/L):	2.50	Manganese (Mn):	0.55	Silica (SiO ₂):	21.35

Notes:

(PTB = Pounds per Thousand Barrels)

Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO ₄ 2H ₂ O		Celestite SrSO ₄		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
300.00	300.00	1.90	85.63	1.92	5.47	2.21	0.99	1.95	1.31	0.00	0.00	0.09	1.02	0.00	0.00	6.95	0.05
270.00	268.00	1.68	77.73	1.90	5.47	2.04	0.99	1.80	1.30	0.00	0.00	0.00	0.00	0.00	0.00	7.04	0.05
240.00	236.00	1.47	68.31	1.90	5.47	1.89	0.98	1.63	1.29	0.00	0.00	0.00	0.00	0.00	0.00	7.17	0.05
210.00	205.00	1.26	57.99	1.92	5.47	1.76	0.97	1.45	1.27	0.00	0.00	0.00	0.00	0.00	0.00	7.32	0.05
180.00	173.00	1.06	47.51	1.98	5.48	1.67	0.96	1.25	1.24	0.00	0.00	0.00	0.00	0.00	0.00	7.53	0.05
150.00	141.00	0.88	37.61	2.08	5.49	1.62	0.96	1.03	1.19	0.00	0.00	0.00	0.00	0.00	0.00	7.79	0.05
120.00	110.00	0.71	29.02	2.23	5.51	1.64	0.96	0.81	1.11	0.00	0.00	0.00	0.00	0.00	0.00	8.13	0.05
90.00	78.00	0.57	22.00	2.44	5.52	1.73	0.97	0.59	0.86	0.00	0.00	0.00	0.00	0.00	0.00	8.56	0.05
60.00	46.00	0.46	16.76	2.73	5.53	1.92	0.98	0.36	0.73	0.00	0.00	0.00	0.00	0.00	0.00	9.11	0.05
31.00	15.00	0.39	13.73	3.10	5.53	2.26	0.99	0.16	0.39	0.00	0.00	0.00	0.00	0.00	0.00	9.83	0.05

Temp (°F)	PSI	Hemihydrate CaSO ₄ 1/2 H ₂ O		Anhydrite CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Sulfate		Ca Mg Sulfate		Fe Sulfate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
300.00	300.00	0.00	0.00	0.14	31.79	0.00	0.00	0.91	0.06	0.00	0.00	7.71	25.75	4.14	13.11	9.66	1.42
270.00	268.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.06	0.00	0.00	6.34	26.03	3.32	12.39	8.62	1.41
240.00	236.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.05	0.00	0.00	4.87	22.02	2.45	10.55	7.49	1.41
210.00	205.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.03	0.00	0.00	3.30	15.59	1.51	7.07	6.31	1.40
180.00	173.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	7.51	0.54	2.57	5.08	1.38
150.00	141.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.84	1.32
120.00	110.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.66	1.18
90.00	78.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.90
60.00	46.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.45
31.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01



CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS
WATER ANALYSIS

30-045-22291
 G-20-21n-8w

RECEIVED
MAR 25 1977

Minerals Management Inc.

File WA - 5

Company Dome Petroleum Corp. Well Name Sante Fe 20 No. 1 Sample No. SS-2
 Formation _____ Depth _____ Sampled From _____
 Location Sec 20 T 21N R 8W Field _____ County San Juan State N.M.
 Date Sampled 3-9-77 Date Analyzed 3-13-77 Engineer RGC

Total Dissolved Solids 11,114.5 mg/L _____

Sp. Gr. 1.009 @ 70 °F.

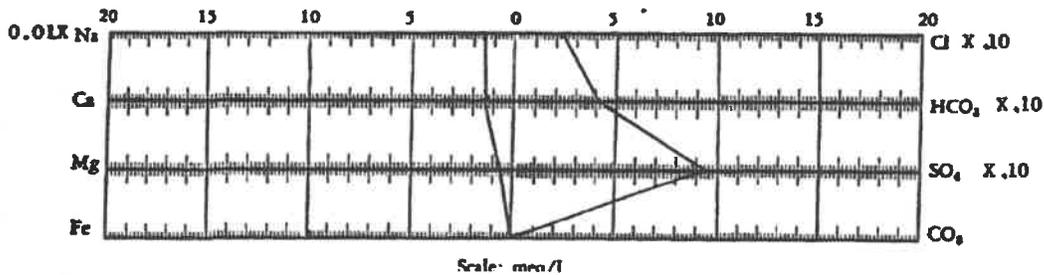
Resistivity 1.0 ohm-meters @ 70 °F. _____

Hydrogen Sulfide Present

pH 7.73

Constituents	meq/L	mg/L	Constituents	meq/L	mg/L
Sodium	<u>140.44</u>	<u>3228.7</u>	Chloride	<u>25.47</u>	<u>903.0</u>
Calcium	<u>1.35</u>	<u>27.0</u>	Bicarbonate	<u>41.73</u>	<u>2546.0</u>
Magnesium	<u>0.73</u>	<u>8.9</u>	Sulfate	<u>91.61</u>	<u>4400.0</u>
Iron	<u>0.03</u>	<u>0.9</u>	Carbonate	<u>ND</u>	<u>ND*</u>
Barium	<u>ND</u>	<u>ND</u>	Hydroxide	<u>ND</u>	<u>ND</u>

*ND = Less than 0.1 mg/L



HALLIBURTON

Water Analysis Report

30-045-33217

F-11-24n-11w

To: Dugan Production Date: 11/10/2005
Submitted by: Halliburton Energy Services Date Rec: 11/10/2005
Attention: Darrin Steed Report #: FLMMSA44
Well Name: Herry Monster #3 SWD Formation: Entrada/SWD

Specific Gravity	1.005	
pH	8.4	
Resistivity	0.89	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	200	Mg / L
Sodium (Na)	4165	Mg / L
Calcium (Ca)	176	Mg / L
Magnesium (Mg)	15	Mg / L
Chlorides (Cl)	2200	Mg / L
Sulfates (SO4)	2000	Mg / L
Carbonates (CO3)	40	Mg / L
Bicarbonates (HCO3)	5612	Mg / L
Total Dissolved Solids	14408	Mg / L

Respectfully: Bill Loughridge
Title: Senior Scientist
Location: Farmington, NM

PRODUCED WATER SAMPLES

1. Sec.27-T24N-R9W
Nageezi Unit 219H API: 30-045-35748 (Basin Mancos)
Nageezi Unit 220H API: 30-045-35481 (Basin Mancos)
Nageezi Unit 221H API: 30-045-35820 (Basin Mancos)
Nageezi Unit 222H API: 30-045-35480 (Basin Mancos)
2. Sec.05-T25N-R5W
Buena Suerte 5 B #1 API: 30-045-28507 (Fruitland Coal)
3. Sec.30-T23N-R4W
Jicarilla Contract 428 #8 API: 30-043-20956 (Picture Cliffs)
4. Sec.11-T22N-R3W
Bonanza #14 API: 30-043-21185 (Gallup Dakota)
5. Sec.01-T22N-R8W
North Alamito Unit SWD #1 API: 30-045-38185 (Entrada)

Units of Measurement: **Standard**

Water Analysis Report

Production Company: **DJR Operating, LLC**
 Well Name: **NAGEEZI UNIT 219H/220H/221H**
 Sample Point: **SEPARATOR**
 Sample Date: **4/9/2019**
 Sample ID: **WA-385505**

Sales Rep: **Craig Smith**
 Lab Tech: **Amanda Harvey**

Scaling potential predicted using ScaleSoftPitzer from
 Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	4/19/2019	Cations		Anions	
		mg/L		mg/L	
System Temperature 1 (°F):	50	Sodium (Na):	8477.88	Chloride (Cl):	14500.00
System Pressure 1 (psig):	15	Potassium (K):	57.22	Sulfate (SO4):	0.00
System Temperature 2 (°F):	200	Magnesium (Mg):	99.09	Bicarbonate (HCO3):	335.50
System Pressure 2 (psig):	200	Calcium (Ca):	632.37	Carbonate (CO3):	
Calculated Density (g/ml):	1.0142	Strontium (Sr):	131.55	Hydroxide (HO):	
pH:	7.60	Barium (Ba):	46.00	Acetic Acid (CH3COO)	
Calculated TDS (mg/L):	24341.18	Iron (Fe):	23.33	Propionic Acid (C2H5COO)	
CO2 in Gas (%):		Zinc (Zn):	0.21	Butanoic Acid (C3H7COO)	
Dissolved CO2 (mg/L):	49.50	Lead (Pb):	0.29	Isobutyric Acid ((CH3)2CHCOO)	
H2S in Gas (%):		Ammonia (NH3):		Fluoride (F):	
H2S in Water (mg/L):	0.00	Manganese (Mn):	0.88	Bromine (Br):	
Tot. Suspended Solids (mg/L):		Aluminum (Al):	0.16	Silica (SiO2):	36.86
Corrosivity (Langlier Sat. Indx):	0.00	Lithium (Li):	2.60	Calcium Carbonate (CaCO3):	
Alkalinity:		Boron (B):	4.16	Phosphates (PO4):	1.41
		Silicon (Si):	17.23	Oxygen (O2):	

Notes:

(PTB = Pounds per Thousand Barrels)

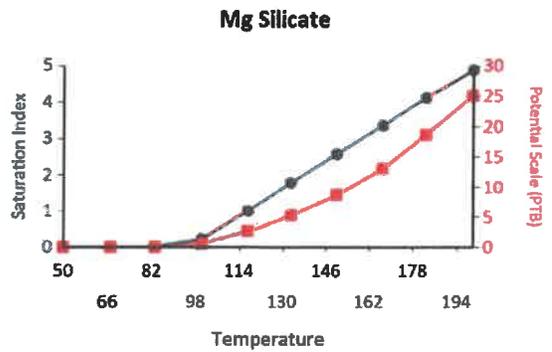
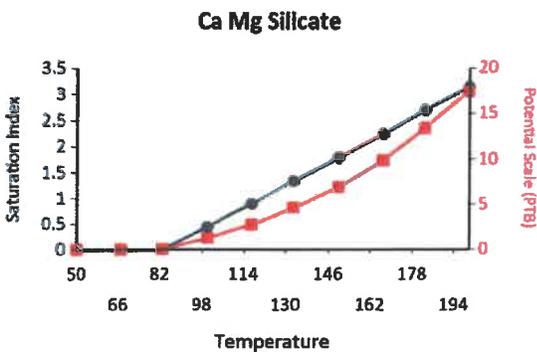
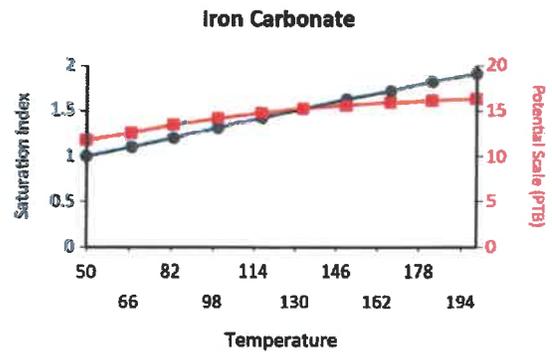
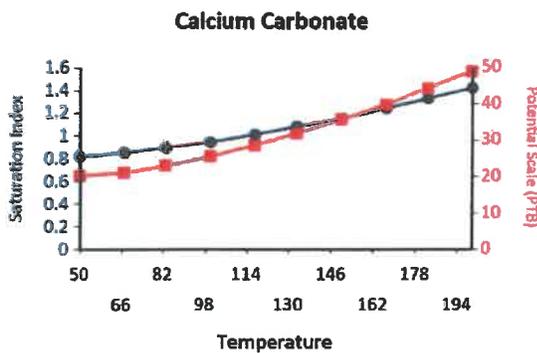
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
200.00	200.00	1.42	48.79	0.00	0.00	0.00	0.00	1.91	16.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183.00	179.00	1.33	44.22	0.00	0.00	0.00	0.00	1.82	16.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	159.00	1.24	39.79	0.00	0.00	0.00	0.00	1.72	15.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	138.00	1.15	35.66	0.00	0.00	0.00	0.00	1.63	15.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.00	118.00	1.08	31.89	0.00	0.00	0.00	0.00	1.52	15.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.00	97.00	1.01	28.49	0.00	0.00	0.00	0.00	1.42	14.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	77.00	0.94	25.52	0.00	0.00	0.00	0.00	1.31	14.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83.00	56.00	0.89	23.02	0.00	0.00	0.00	0.00	1.20	13.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.00	36.00	0.85	21.08	0.00	0.00	0.00	0.00	1.10	12.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.00	15.00	0.82	20.18	0.00	0.00	0.00	0.00	1.00	11.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

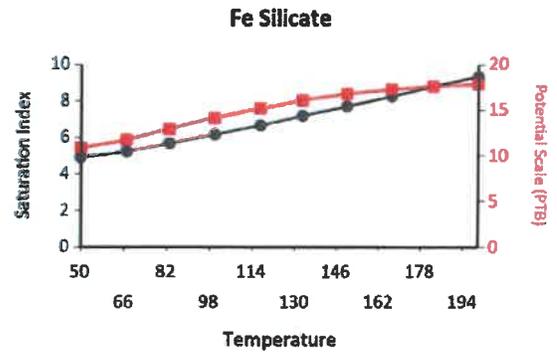
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.89	25.18	3.13	17.44	9.35	17.84
183.00	179.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.13	18.65	2.69	13.38	8.81	17.63
167.00	159.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.36	13.17	2.23	9.87	8.26	17.30
150.00	138.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.58	8.78	1.78	6.97	7.72	16.80
133.00	118.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79	5.32	1.33	4.61	7.19	16.10
117.00	97.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	2.63	0.88	2.72	6.67	15.19
100.00	77.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.52	0.43	1.22	6.16	14.10
83.00	56.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	5.67	12.90
67.00	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.23	11.71
50.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.91	10.87

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Carbonate Fe Silicate





Units of Measurement: **Standard**

Water Analysis Report

Production Company: **DJR Operating, LLC**
 Well Name: **NAGEEZI UNIT 222H**
 Sample Point: **SEPARATOR**
 Sample Date: **4/9/2019**
 Sample ID: **WA-385506**

Sales Rep: **Craig Smith**
 Lab Tech: **Amanda Harvey**

Scaling potential predicted using ScaleSoftPitzer from
 Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	4/22/2019	Sodium (Na):	12841.14	Chloride (Cl):	20500.00
System Temperature 1 (°F):	50	Potassium (K):	45.25	Sulfate (SO4):	0.00
System Pressure 1 (psig):	15	Magnesium (Mg):	56.34	Bicarbonate (HCO3):	427.00
System Temperature 2 (°F):	200	Calcium (Ca):	361.90	Carbonate (CO3):	
System Pressure 2 (psig):	200	Strontium (Sr):	85.24	Hydroxide (HO):	
Calculated Density (g/ml):	1.0209	Barium (Ba):	27.30	Acetic Acid (CH3COO)	
pH:	7.30	Iron (Fe):	12.15	Propionic Acid (C2H5COO)	
Calculated TDS (mg/L):	34396.13	Zinc (Zn):	0.52	Butanoic Acid (C3H7COO)	
CO2 in Gas (%):		Lead (Pb):	0.39	Isobutyric Acid ((CH3)2CHCOO)	
Dissolved CO2 (mg/L):	49.50	Ammonia NH3:		Fluoride (F):	
H2S in Gas (%):		Manganese (Mn):	0.52	Bromine (Br):	
H2S in Water (mg/L):	0.00	Aluminum (Al):	0.07	Silica (SiO2):	38.38
Tot. Suspended Solids (mg/L):		Lithium (Li):	2.25	Calcium Carbonate (CaCO3):	
Corrosivity (Langlier Sat. Indx)	0.00	Boron (B):	4.76	Phosphates (PO4):	
Alkalinity:		Silicon (Si):	17.94	Oxygen (O2):	

Notes:

(PTB = Pounds per Thousand Barrels)

Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4 2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
200.00	200.00	1.03	46.85	0.00	0.00	0.00	0.00	1.45	8.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183.00	179.00	0.92	40.88	0.00	0.00	0.00	0.00	1.35	8.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	159.00	0.82	35.23	0.00	0.00	0.00	0.00	1.25	8.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	138.00	0.73	30.12	0.00	0.00	0.00	0.00	1.14	7.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.00	118.00	0.64	25.50	0.00	0.00	0.00	0.00	1.03	7.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.00	97.00	0.56	21.40	0.00	0.00	0.00	0.00	0.92	7.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	77.00	0.49	17.86	0.00	0.00	0.00	0.00	0.80	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83.00	56.00	0.42	14.89	0.00	0.00	0.00	0.00	0.68	6.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.00	36.00	0.37	12.54	0.00	0.00	0.00	0.00	0.57	5.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.00	15.00	0.34	11.36	0.00	0.00	0.00	0.00	0.47	4.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

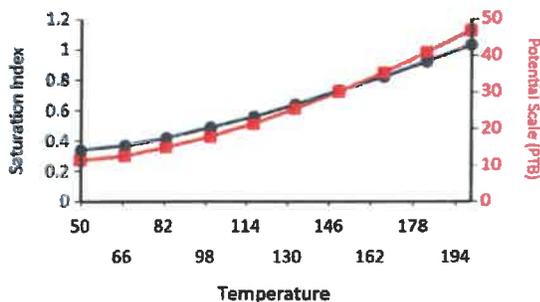
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO4*0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	0.00	0.00	2.89	18.11	1.82	12.88	7.16	9.31
183.00	179.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.06	11.55	1.32	8.50	6.54	9.21
167.00	159.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	6.06	0.82	4.77	5.93	9.06
150.00	138.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	1.63	0.32	1.71	5.32	8.82
133.00	118.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.72	8.47
117.00	97.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.14	7.97
100.00	77.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57	7.31
83.00	56.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.03	6.52
67.00	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54	5.65
50.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	4.99

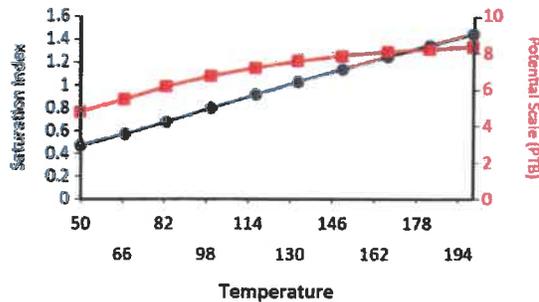
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Carbonate Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Carbonate Fe Silicate

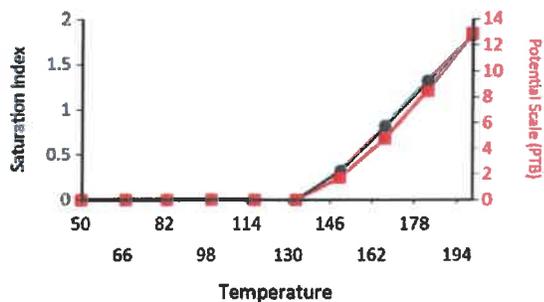
Calcium Carbonate



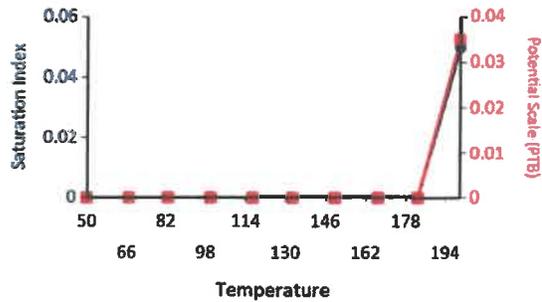
Iron Carbonate



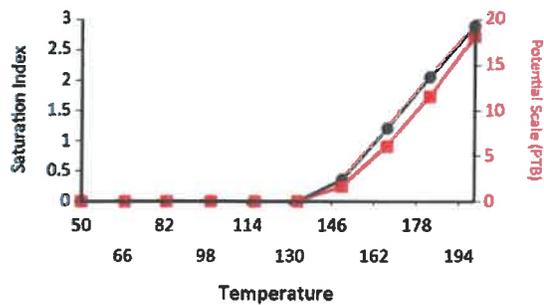
Ca Mg Silicate



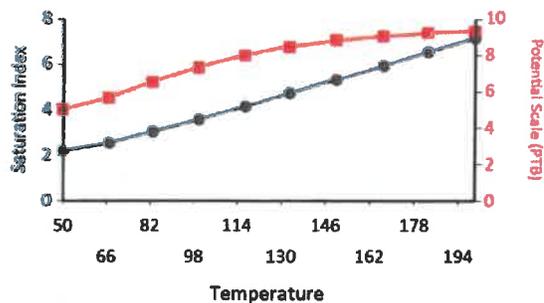
Zinc Carbonate



Mg Silicate



Fe Silicate





DJR Operating
1 Road 3263
Aztec NM, 87410

Project: API
Project Name / Number: [none]
Project Manager: Lanssa Farrell

Reported:
10/27/20 15:48

Notes and Definitions

- U Estimated concentration. Analyte concentration was less than the MDL.
- B3 Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

DJR Operating 1 Road 3263 Aztec NM, 87410	Project: API Project Name / Number: [none] Project Manager: Lansa Farrell	Reported: 10/27/20 15:48
---	---	-----------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Fruitland Coal	2010242-01	Water	10/22/20 10:24	10/22/20 15:08	
Gallup Dakota	2010242-02	Water	10/22/20 12:33	10/22/20 15:08	
Pictured Cliffs	2010242-03	Water	10/22/20 11:56	10/22/20 15:08	

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

DJR Operating 1 Road 3263 Aztec NM, 87410	Project: API Project Name / Number: [none] Project Manager: Lanssa Farrell	Reported: 10/27/20 15:48
---	--	-----------------------------

Fruitland Coal

2010242-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	710	10.0	7.16	mg/L	10	10/26/20 14:00	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0		mg/L	10	10/26/20 14:00	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0		mg/L	10	10/26/20 14:00	2320 B		VJW
Alkalinity, Total as CaCO3*	710	10.0	7.16	mg/L	10	10/26/20 14:00	2320 B		VJW
Chloride*	7940	500	44.3	mg/L	500	10/26/20 13:20	EPA300.0		AES
Conductivity*	26700	1.00		umho/cm @ 25.0°C	1	10/23/20 11:05	2510 B		VJW
pH*	7.60			pH Units	1	10/23/20 11:05	EPA150.1		VJW
Resistivity	37.4			ohm/cm	1	10/23/20 11:05	2510 B		VJW
Total Dissolved Solids*	14900	40.0		mg/L	4	10/23/20 17:15	EPA160.1		VJW
Specific Gravity	1.010	0.8000		No Unit	1	10/26/20 09:50	ASTM D1429-03		VJW
Sulfate*	<7.62	50.0	7.62	mg/L	50	10/27/20 03:22	EPA300.0	U	AES
Total Recoverable Metals by ICP (E200.7)									
Iron*	<5.00	5.00	0.813	mg/L	50	10/27/20 12:46	EPA200.7	B3	AES
Dissolved Metals by ICP									
Hardness	289	33.1	6.90	mg/L	50	10/27/20 12:15	2340 B		AES
Barium*	1.27	1.00	0.078	mg/L	50	10/27/20 12:16	EPA200.7		AES
Calcium*	76.6	5.00	0.829	mg/L	50	10/27/20 12:15	EPA200.7		AES
Iron*	<2.50	2.50	0.920	mg/L	50	10/27/20 12:15	EPA200.7		AES
Magnesium*	23.7	5.00	1.17	mg/L	50	10/27/20 12:15	EPA200.7		AES
Manganese*	<1.00	1.00	0.078	mg/L	50	10/27/20 12:15	EPA200.7		AES
Potassium*	<50.0	50.0	6.51	mg/L	50	10/27/20 12:15	EPA200.7		AES
Sodium*	4780	50.0	5.03	mg/L	50	10/27/20 12:15	EPA200.7		AES
Strontium*	<5.00	5.00	0.208	mg/L	50	10/27/20 12:15	EPA200.7		AES
Cation/Anion Balance	-5.24								

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

DJR Operating 1 Road 3263 Aztec NM, 87410	Project: API Project Name / Number: [none] Project Manager: Lansa Farrell	Reported: 10/27/20 15:48
---	---	-----------------------------

Gallup Dakota

2010242-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	710	10.0	7.16	mg/L	10	10/26/20 14:00	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0		mg/L	10	10/26/20 14:00	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0		mg/L	10	10/26/20 14:00	2320 B		VJW
Alkalinity, Total as CaCO3*	710	10.0	7.16	mg/L	10	10/26/20 14:00	2320 B		VJW
Chloride*	8970	500	44.3	mg/L	500	10/26/20 13:39	EPA300.0		AES
Conductivity*	30000	1.00		umho/cm @ 25.0°C	1	10/23/20 11:05	2510 B		VJW
pH*	7.21			pH Units	1	10/23/20 11:05	EPA150.1		VJW
Resistivity	33.3			ohm/cm	1	10/23/20 11:05	2510 B		VJW
Total Dissolved Solids*	17400	40.0		mg/L	4	10/23/20 17:15	EPA160.1		VJW
Specific Gravity	1.010	0.8000		No Unit	1	10/26/20 09:50	ASTM D1429-03		VJW
Sulfate*	393	50.0	7.62	mg/L	50	10/27/20 03:41	EPA300.0		AES
Total Recoverable Metals by ICP (E200.7)									
Iron*	25.0	5.00	0.813	mg/L	50	10/27/20 12:53	EPA200.7	B3	AES
Dissolved Metals by ICP									
Hardness	423	33.1	6.90	mg/L	50	10/27/20 12:18	2340 B		AES
Barium*	<1.00	1.00	0.078	mg/L	50	10/27/20 12:19	EPA200.7		AES
Calcium*	119	5.00	0.829	mg/L	50	10/27/20 12:18	EPA200.7		AES
Iron*	19.5	2.50	0.920	mg/L	50	10/27/20 12:18	EPA200.7		AES
Magnesium*	30.7	5.00	1.17	mg/L	50	10/27/20 12:18	EPA200.7		AES
Manganese*	<1.00	1.00	0.078	mg/L	50	10/27/20 12:18	EPA200.7		AES
Potassium*	103	50.0	6.51	mg/L	50	10/27/20 12:18	EPA200.7		AES
Sodium*	5910	50.0	5.03	mg/L	50	10/27/20 12:18	EPA200.7		AES
Strontium*	18.6	5.00	0.208	mg/L	50	10/27/20 12:18	EPA200.7		AES
Cation/Anion Balance	-1.18								

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

DJR Operating 1 Road 3263 Aztec NM, 87410	Project: API Project Name / Number: [none] Project Manager: Lanssa Farrell	Reported: 10/27/20 15:48
---	--	-----------------------------

Pictured Cliffs

2010242-03 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	540	10.0	7.16	mg/L	10	10/26/20 14:00	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	<10.0	10.0		mg/L	10	10/26/20 14:00	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0		mg/L	10	10/26/20 14:00	2320 B		VJW
Alkalinity, Total as CaCO3*	540	10.0	7.16	mg/L	10	10/26/20 14:00	2320 B		VJW
Chloride*	27300	1000	88.6	mg/L	1000	10/26/20 13:59	EPA300.0		AES
Conductivity*	63100	1.00		umho/cm @ 25.0°C	1	10/23/20 11:05	2510 B		VJW
pH*	7.31			pH Units	1	10/23/20 11:05	EPA150.1		VJW
Resistivity	15.8			ohm/cm	1	10/23/20 11:05	2510 B		VJW
Total Dissolved Solids*	38800	100		mg/L	10	10/23/20 17:15	EPA160.1		VJW
Specific Gravity	1.025	0.8000		No Unit	1	10/26/20 09:50	ASTM D1429-03		VJW
Sulfate*	<15.2	100	15.2	mg/L	100	10/27/20 04:01	EPA300.0	U	AES
Total Recoverable Metals by ICP (E200.7)									
Iron*	67.4	10.0	1.63	mg/L	100	10/27/20 12:56	EPA200.7	B3	AES
Dissolved Metals by ICP									
Hardness	1540	66.2	13.8	mg/L	100	10/27/20 12:25	2340 B		AES
Barium*	46.4	2.00	0.155	mg/L	100	10/27/20 12:26	EPA200.7		AES
Calcium*	411	10.0	1.66	mg/L	100	10/27/20 12:25	EPA200.7		AES
Iron*	5.12	5.00	1.84	mg/L	100	10/27/20 12:25	EPA200.7		AES
Magnesium*	125	10.0	2.35	mg/L	100	10/27/20 12:25	EPA200.7		AES
Manganese*	<2.00	2.00	0.155	mg/L	100	10/27/20 12:25	EPA200.7		AES
Potassium*	<100	100	13.0	mg/L	100	10/27/20 12:25	EPA200.7		AES
Sodium*	11900	100	10.1	mg/L	100	10/27/20 12:25	EPA200.7		AES
Strontium*	70.5	10.0	0.416	mg/L	100	10/27/20 12:25	EPA200.7		AES
Cation/Anion Balance	-17.24								

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



2-3 day Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 FORM-006
 COC - Revision 6.0

Company of Client: LTR operating LLC
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: 505-419-1111
 Contact Person: Lanissa Fawcett
 Email Report to: lfawcett@ltr.com lfawcett@ltr.com
 Project Name (optional): _____

Bill to (if different):
 P.O. #: DB-EH-NALAMINDM
 Company: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Email: _____

For Lab Use	Sample Name or Location	Collected		Matrix (check one)							ANALYSIS REQUEST						
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEWATER	SOIL	DRINKING WATER	OTHER:	No preservation (general)	HNO ₃	HCl	H ₂ SO ₄	Other:	Other:	
	2010-242-01 Fruitland Con	10/22/10	1027														
	-02 Grubing Dakota	10/22/10	1233														
	-03 Piedmont cliffs	10/22/10	1156														

PLEASE NOTE: GAL's liability and client's recourse is limited to the amount paid for the amount of the analysis. All claims regarding these for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder.

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<u>Lanissa Fawcett</u>	<u>10/22/10</u>	<u>1508</u>	<u>Christine Clark</u>		
<u>Christine Clark</u>	<u>10/22/10</u>	<u>1455</u>	<u>Kangaroo Express</u>		
<u>Kangaroo Express</u>	<u>10/23/10</u>	<u>0830</u>	<u>Christine Clark</u>		
<u>Christine Clark</u>					

Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Time: _____

Report to State? (Circle) Yes No
 Temperature at receipt: 3.6 C 3.9C 4.0C 3 on ice
 Checked by: CC On Ice: CC No Ice: ✓



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

DJR Operating 1 Road 3263 Aztec NM, 87410	Project: API Project Name / Number: North Alamito WDW #1 Project Manager: Dave Brown	Reported: 11/03/20 15:47
---	--	-----------------------------

North Alamito WDW #1

2010288-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	290	10.0	7.16	mg/L	5	10/30/20 14:00	2320 B		JDA
Alkalinity, Carbonate as CaCO3*	<10.0	10.0		mg/L	5	10/30/20 14:00	2320 B		JDA
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0		mg/L	5	10/30/20 14:00	2320 B		JDA
Alkalinity, Total as CaCO3*	290	10.0	7.16	mg/L	5	10/30/20 14:00	2320 B		JDA
Chloride*	2350	200	17.7	mg/L	200	11/02/20 12:04	EPA300.0		JDA
Conductivity*	19300	1.00		umho/cm @ 25.0°C	1	10/30/20 13:35	2510 B		JDA
pH*	7.40			pH Units	1	10/30/20 11:15	EPA150.1		JDA
Resistivity	51.8			ohm/cm	1	10/30/20 13:35	2510 B		JDA
Total Dissolved Solids*	13200	20.0		mg/L	2	10/30/20 14:29	EPA160.1		JDA
Specific Gravity	1.011	0.8000		No Unit	1	10/30/20 14:00	ASTM D1429-03		JDA
Sulfate*	5300	200	30.5	mg/L	200	11/02/20 12:04	EPA300.0		JDA
Total Recoverable Metals by ICP (E200.7)									
Iron*	55.1	1.25	0.407	mg/L	25	11/03/20 11:33	EPA200.7		AES
Dissolved Metals by ICP									
Hardness	494	16.5	3.45	mg/L	25	11/03/20 14:30	2340 B		AES
Barium*	<0.500	0.500	0.039	mg/L	25	11/03/20 14:30	EPA200.7		AES
Calcium*	178	2.50	0.415	mg/L	25	11/03/20 14:30	EPA200.7		AES
Iron*	<1.25	1.25	0.460	mg/L	25	11/03/20 14:30	EPA200.7		AES
Magnesium*	12.0	2.50	0.587	mg/L	25	11/03/20 14:30	EPA200.7		AES
Manganese*	0.514	0.500	0.039	mg/L	25	11/03/20 14:30	EPA200.7		AES
Potassium*	1280	25.0	3.25	mg/L	25	11/03/20 14:30	EPA200.7		AES
Sodium*	3110	25.0	2.51	mg/L	25	11/03/20 14:30	EPA200.7		AES
Strontium*	8.44	2.50	0.104	mg/L	25	11/03/20 14:30	EPA200.7		AES
Cation/Anion Balance	-98								

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006
COC - Revision 6.0

(970) 247-4220
 Fax: (970) 247-4227
 dzuleit@greenanalytical.com
 75 Suttle St Durango, CO 81303

Company or Client: DJR Operating
 Address: 1 Road 3263
 City: Aztec State: NM Zip: 87410
 Phone #: _____
 Contact Person: DAVE BROWN
 Email Report to: dbrown@djrlc.com
 Project Name (optional): North Alamito WDW #1
 Sampler Name (Print): Aurtis Scarle

Bill to (if different):
 P.O. #: _____
 Company: _____
 Attn: _____
 Address: _____
 City: _____
 State: _____ Zip: 81303
 Phone #: _____
 Email: _____

For Lab Use	Sample Name or Location	Collected		# of containers	Matrix (check one)	Other:
		Date	Time			
					GROUNDWATER SURFACEWATER WASTEWATER PRODUCEWATER DRINKING WATER OTHER: _____ No preservation (General)	HNO ₃ HCl H ₂ SO ₄ Other: _____
	<u>2010-288-01 North Alamito WDW #1</u>	<u>10-29-20</u>	<u>3:30pm</u>	<u>1</u>		

APT General Chem: stry

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished by: Centush Date: 10/29/20 Received by: Dave Brown
 Relinquished by: Dave Brown Date: 10/29/20 Received by: Dave Brown
 Relinquished by: Dave Brown Date: 11:07 AM Received by: _____
 Relinquished by: _____ Date: _____ Received by: _____

Temperature at receipt: 13°C
 Report to State: (Circle) Yes No
 On Job No Job

ADDITIONAL REMARKS:
2 day TAT call w/TDS/EC
#3 Laser

† GAL cannot always accept verbal changes. Please fax or email written change requests.
 * Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

Application for Authorization to Inject

DJR Operating, LLC

Nageezi Unit WDW #1

Part VIII. Geologic Data

The proposed injection interval is the Entrada Sandstone from approximately 6775' to 6970' below the surface.

The proposed injection interval for the Nageezi water disposal well is the Entrada Sandstone from approximately 6775 ft to 6970 ft.

Point of diversion data (POD) obtained from the New Mexico Office of the State Engineer (NMOSE) on July 17, 2019 indicates that the closest water well (SJ-01712) to the Nageezi Unit water disposal well is 4,200 feet away. Well SJ-01712 is located in the NE1/4SE1/4 of Section 27, Township 24 North, Range 9 West, this well has a depth of 528 feet below ground surface (bgs) and is hydrologically separated from the Entrada formation by several confining layers above the Entrada Sandstone, including the Todilto Limestone, the Mancos Shale, and the Lewis Shale. Additionally, the underlying Chinle Formation acts as a confining unit below the Entrada Sandstone (Kernodle, 1996) and per the review of NMOSE well data, the Chinle Formation is not a regional source of water.

The NMOSE POD dataset also indicates that the closest surface water diversion to the Nageezi Unit water disposal well is SD 05187, which is located 10 miles to the north west of the Nageezi Unit water disposal well.

The National Hydrography Dataset indicates that the closest surface water feature to the Nageezi Unit water disposal well is an unnamed arroyo, which is located 1,580 feet to the west.

There are no known drinking water sources below the Mesaverde interval. The formation tops are as follows:

Formation Tops	TVD
Ojo Alamo	615
Kirtland	780
Fruitland	965
Pictured Cliffs	1335
Lewis	1445
Chacra	2015
Cliff House	2845
Menefee	2885
Point Lookout	3755
Mancos	3915
Gallup	4655
Greenhorn	5585
Dakota	5685
Todilto	6715
Entrada	6775
Total Depth	6970

Part IX. Stimulation Program

Following injection rate tests, it may be necessary to stimulate the Entrada Sandstone by acidizing or fracturing.

Part X. Logging and Test Data

All logs and test data for the injection well will be submitted to the New Mexico Oil & Gas Conservation Division in Aztec, NM.

Part XI. Fresh Water Samples

Point of diversion data (POD) obtained from the New Mexico Office of the State Engineer (NMOSE) on July 17, 2019 indicates that the closest water well (SJ-01712) to the Nageezi Unit WDW #1 is 4,200 feet away. Well SJ-01712 is located in the NE1/4SE1/4 of Section 27, Township 24 North, Range 9 West, this well has a depth of 528 feet bgs and is hydrologically separated from the Entrada formation by several confining layers above the Entrada Sandstone, including the Todilto Limestone, the Mancos Shale, and the Lewis Shale. Additionally, the underlying Chinle Formation acts as a confining unit below the Entrada Sandstone (Kernodle, 1996) and per the review of NMOSE well data, the Chinle Formation is not a regional source of water.

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	SJ 01712		2	4	27	24N	09W	251195	4018933*

Driller License:	Driller Company:				
Driller Name:	OREN KIRK DRILLING CO.				
Drill Start Date:	06/10/1963	Drill Finish Date:	02/26/1964	Plug Date:	
Log File Date:		PCW Rcv Date:		Source:	
Pump Type:	WINDMI	Pipe Discharge Size:		Estimated Yield:	
Casing Size:	6.63	Depth Well:	528 feet	Depth Water:	

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/18/19 8:50 PM

POINT OF DIVERSION
SUMMARY

Application for Authorization to Inject

DJR Operating, LLC

Nageezi Unit WDW #1

Part XII. Statement of Geologic and Engineering Data

I have examined all available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.



Ningning Li, Completions Manager

8/23/19

Date

Amended Application For Authorization To Inject

DJR Operating, LLC

Nageezi Unit SWD #1

UIC Class II Permit SWD-2263

Proof of Notice

Attached are proofs of Notice that this Amended Application has been sent via certified mail, return receipt requested to the surface owner(s) of the land which the injection well is to be located on and all leasehold operators within one-half mile of the well location.

Also, proof of publication showing the legal advertisement which was published in the Farmington Daily Times on August 13th, 2019.

Amended Application for Authorization To Inject

DJR Operating, LLC

Nageezi Unit SWD #1

UIC Class II Permit SWD-2263

Surface Owner

Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

Bureau of Land Management
6251 College Blvd., Ste. A
Farmington, NM 87402

Federal Indian Minerals Office
6251 College Blvd., Ste. B
Farmington, NM 87402

Leasehold Owners Within One-half Mile Radius

Dugan Production Corp.
Attn: Ramon Hancock
P.O. Box 420
Farmington, NM 87499

AFFIDAVIT OF MAILING

STATE OF NEW MEXICO)
) ss
SAN JUAN COUNTY)

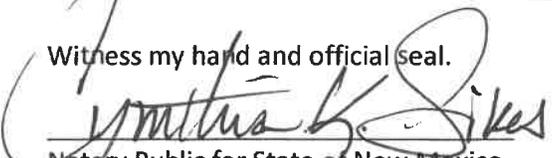
Shaw-Marie N. Ford, Regulatory Specialist for DJR Operating, LLC does hereby certify that on March 4, 2021, she transmitted the attached Notice of the captioned matter by certified mail, return receipt requested, to those parties listed on this Notice of Form C-108 Amended Application for Authorization To Inject, Administrative Order SWD-2263.

FURTHER AFFIANT SAYETH NOT

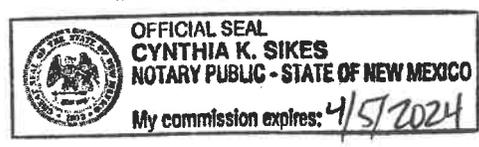


Shaw-Marie N. Ford
DJR Operating, LLC
1 Road 3263
Aztec, NM 87402

Subscribed and sworn to before me this 4th day of March, 2021 by Shaw-Marie N. Ford.

Witness my hand and official seal.


Notary Public for State of New Mexico



My Commission Expires: 4/5/2024

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>X</p> <p>B. Received by (<i>Printed Name</i>) C. Date of Delivery</p>
<p>1. Article Addressed to:</p> <p>Bureau of Land Management 301 Dinosaur Trail Santa Fe, NM 87508</p>  <p>9590 9403 0227 5146 0946 63</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Adult Signature <input checked="" type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>2. Article Number (<i>Transfer from service label</i>)</p> <p>7018 2290 0001 0840 9173</p>	<p>PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$ _____

Extra Services & Fees (*check box, add fee as appropriate*)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Pos \$ _____

Sent To _____

Street an. _____

City, Stat. _____

Postmark Here

Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.

CERTIFIED MAIL®



7018 2290 0001 0840 9173

7018 2290 0001 0840 9173

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Bureau of Land Management
6251 College Blvd. Ste. A
Farmington, NM 87402



2. Article Number (Transfer from service label)

7018 2290 0001 0840 9180

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

X

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type Priority Mail Express®
 Registered Mail™

Adult Signature Registered Mail Restricted Delivery

Adult Signature Restricted Delivery Certified Mail Restricted Delivery

Certified Mail® Return Receipt for Merchandise

Certified Mail Restricted Delivery Signature Confirmation™

Collect on Delivery Signature Confirmation Restricted Delivery

Collect on Delivery Restricted Delivery

Insured Mail

Insured Mail-Restricted Delivery (over \$500)

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.

CERTIFIED MAIL®



7018 2290 0001 0840 9180
7018 2290 0001 0840 9180

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$ _____	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$ _____	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____	
<input type="checkbox"/> Adult Signature Required \$ _____	
<input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$ _____	
Total Post \$ _____	
Sent To Street and City, State	Bureau of Land Management 6251 College Blvd. Ste. A Farmington, NM 87402

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Federal Indian Minerals Office
6251 College Blvd. Ste. B
Farmington, NM 87402



9590 9403 0227 5146 0946 49

2. Article Number (Transfer from service label)

7018 2290 0001 0840 9197

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

CERTIFIED MAIL®



7018 2290 0001 0840 9197
7018 2290 0001 0840 9197

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$
- Return Receipt (electronic) \$
- Certified Mail Restricted Delivery \$
- Adult Signature Required \$
- Adult Signature Restricted Delivery \$

Postmark
Here

Postage

\$

Total Post

\$

Sent To

Federal Indian Minerals Office

6251 College Blvd. Ste. B

Street and

Farmington, NM 87402

City, State

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>X</p> <p>B. Received by (<i>Printed Name</i>) C. Date of Delivery</p>																
<p>1. Article Addressed to:</p> <p style="text-align: center;">Dugan Production Corp. Attn: Ramon Hancock P.O. Box 420 Farmington, NM 87499</p>  <p style="text-align: center;">9590 9402 5841 0038 8888 94</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>																
<p>2. Article Number (<i>Transfer from service label</i>)</p> <p style="text-align: center;">7019 2280 0001 7396 6573</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input checked="" type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input checked="" type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®																
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™																
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery																
<input type="checkbox"/> Certified Mail Restricted Delivery	<input checked="" type="checkbox"/> Return Receipt for Merchandise																
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™																
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery																
<input type="checkbox"/> Insured Mail																	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)																	

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$ _____	Postmark Here
Extra Services & Fees (<i>check box, add fee as appropriate</i>)	
<input type="checkbox"/> Return Receipt (hardcopy) \$ _____	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____ <input type="checkbox"/> Adult Signature Required \$ _____ <input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$ _____	
Total Post \$ _____	
Sent To <i>Street and</i> Farmington, NM 87499 <i>City, State,</i>	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.



7019 2280 0001 7396 6573
 7019 2280 0001 7396 6573

THE DAILY TIMES

AFFIDAVIT OF PUBLICATION

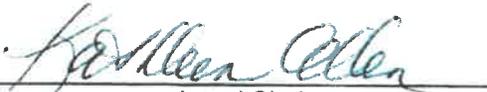
Ad No.
0001293749

ANIMAS PROPERTY LAW P.C.
858 MAIN, SUITE 204

DURANGO CO 81301

I, being duly sworn say: THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the State of New Mexico for publication and appeared in the internet at The Daily Times web site on the following days(s):

08/13/19


Legal Clerk

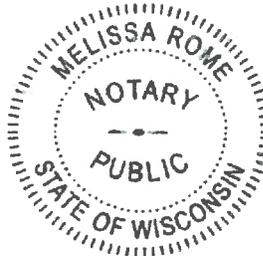
Subscribed and sworn before me this
13th of August 2019.


State of WI, County of Brown
NOTARY PUBLIC

1-12-2021
My Commission Expires

DJR Operating, LLC, 1600 Broadway, Suite 1960, Denver, CO 80202 is making application for administrative approval to dispose of produced and flow-back water by underground injection. Contact person is Ningning Li, Phone 303-407-7390. The proposed disposal site is Nageezi Unit WDW #1, located 848' FNL & 1406' FWL, Sec 34 T24N R9W, San Juan Co NM. Water will be injected into the Entrada Sandstone between the depths of approximately 6775' to 6970' below the surface. Maximum anticipated injection pressure is 1300 psi. Maximum injection rate will be 6000 barrels of water per day. Any interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, NM 87505 within 15 days of the date of this publication.

Legal No. 1293749 published in The Daily Times on August 13, 2019.



Ad#:0001293749
P O : Nageezi Unit WDW #1)
of Affidavits :0.00