

SWD Initial Application

Received: 09/24/19

RECEIVED: 9/24/19	REVIEWER:	TYPE: SWD	APP NO: pDM1926959804
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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: DJR Operating, LLC **OGRID Number:** 371838
Well Name: Venado Canyon Unit WDW #1 **API:** _____
Pool: SWD; Entrada **Pool Code:** 96436

**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 holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☐ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**

☐ Notice Complete
☐ 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.

Ningning Li

Print or Type Name

Signature

9/19/19

Date

303-407-7390

Phone Number

nli@djrlc.com

e-mail Address



September 13, 2019

Mr. Will Jones
New Mexico Oil Conservation Division – Engineering Bureau
1200 South St. Francis St.
Santa Fe, NM 87505

Re: Application for Venado Canyon Unit WDW #1, Sandoval Co., NM

Dear Mr. Jones:

Enclosed is DJR Operating, LLC's application for disposal of produced water in the Venado Canyon Unit WDW #1. In fulfilling the requirements of the application, the following materials are provided herein.

1. Form C-108, Application for Authorization to Inject
2. Tabular and schematic data on proposed injection well
3. Two-mile radius map identifying all wells along with a one-half mile radius drawn around the proposed injection well identifying the Area of Review
4. Data sheet of all wells within two miles of proposed injection well, highlighting those wells inside the one-half mile Area of Review of the proposed injection well
5. Lease and surface owner maps identifying all lessees and surface owners within a two-mile radius with a one-half mile Area of Review drawn around the proposed injection well
6. Operations plan for proposed injection well
7. Water analysis of produced water to be disposed of in the proposed injection well
8. Required geologic, stimulation, logging, testing and fresh water data from nearby fresh wells
9. Signed statement of geologic and engineering data
10. Proof of notice in the form of notification letters sent to offsetting operators and surface owners
11. A copy of the Affidavit of Publication of the notice as it appeared in the Rio Grande Sun

If you have questions or require additional information, please contact me at (303) 407-7390 or nli@djrlc.com.

Sincerely,

A handwritten signature in black ink, consisting of a series of loops and a final flourish.

Ningning Li
Completions Manager

Attachments

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ XX _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ XX _____ No
- II. OPERATOR: DJR Operating, LLC
ADDRESS: 1600 Broadway, Suite 1960, Denver, CO 80202
CONTACT PARTY: Ningning Li PHONE: 303-407-7390
- 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 _____ XX _____ No
If yes, give the Division order number authorizing the project: _____
- 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: Ningning Li TITLE: Engineer
SIGNATURE: [Signature] DATE: 9/19/19
E-MAIL ADDRESS: nli@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:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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.

Application for Authorization to Inject

DJR Operating, LLC

Venado Canyon Unit WDW #1

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 Venado Canyon Unit WDW #1 well located 1647' FNL & 906' FEL in Section 11, Township 22 North, Range 6 West, Sandoval County, New Mexico. Produced water will be injected into the Entrada Sandstone between 7130' to 7315'. The maximum injection pressure will be 1300-psi and the maximum injection rate will be 6000 barrels of water daily.

The well is a new drill for the purpose of salt water disposal. The well is in the process of being permitted and is awaiting SWD application approval to commence drilling. Upon approval of this 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 change to the plans contained herein will be approved by the New Mexico Oil Conservation Division prior to implementation.

Application for Authorization to Inject

DJR Operating, LLC

Venado Canyon Unit WDW #1

Part III. Well Data

A. Tabular Information

1. Name: Venado Canyon Unit WDW No. 1

Location: 1647' FNL & 906' FEL
Section 17, T24N, R8W
Sandoval County, NM

2. Surface Casing:
9-5/8 in, 36 lb, J-55 set at 500 ft, Cemented with 253 sx (352 cu ft). Circulate cement to surface, Hole size – 12-1/4 in.

Production Casing:
7 in, 26 lb (7315 ft) set at 7315 ft. Cement in two stages with stage tool (DV) at 4015 ft using 744 cubic ft in first stage (317 sx in lead and 82 sx in tail) and 906 cubic ft in second stage (398 sx in lead and 82 sx in tail). Hole size – 8-3/4 in.

Injection Tubing:
3-1/2 in L-80 EUE 9.3 lb/ft Internally Coated Tubing set at 7140 ft.

Packer:
7 in by 3 ½ in AS1-X packer 10K nickel coated, will be set in tension at 7080 ft or 50 ft above the upper most perforation.

B. Additional Information

1. Injection Interval: Entrada Sandstone
2. The injection interval (Entrada 7130' – 7315') will be perforated.
3. The well (Venado Canyon WDW #1) will be drilled for the purpose of injection into the Entrada Sandstone.
4. Only the injection interval is to be perforated.
5. Fruitland Coal / Pictured Cliffs Sandstone-Approx. 1470' – 1775', Gallup-Approx. 4935'- 5895' and Dakota Sandstone-Approx. 5965' – 7070'.

Injection Well Data Sheet
Operator: DJR Operating LLC
Well Name and Number: Venado Canyon Unit WDW #1

	WELL NAME: Crow Canyon Unit WDW #1 API NO: TVD: 7315'	STATE: New Mexico COUNTY: Sandoval	LOCATION: 1647' FNL & 906' FEL Sec 11, T22N R6W TARGET FORMATION: Entrada																																																																																																																													
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DJR Operating, LLC

Venado Canyon Unit WDW #1

INJECTION WELL DATA SHEET

Tubing Size:

Surface Casing:

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Production Casing:

7 in, 26 lb (7315 ft) set at 7315 ft. Cement in two stages with stage tool (DV) at 4015 ft using 744 cubic ft in first stage (317 sx in lead and 82 sx in tail) and 906 cubic ft in second stage (398 sx in lead and 82 sx in tail). Hole size – 8-3/4 in.

Injection Tubing:

3-1/2 in L-80 EUE 9.3 lb/ft Internally Coated Tubing set at 7140 ft.

Type of Packer:

7 in by 3 1/2 in AS1-X packer 10K nickel coated.

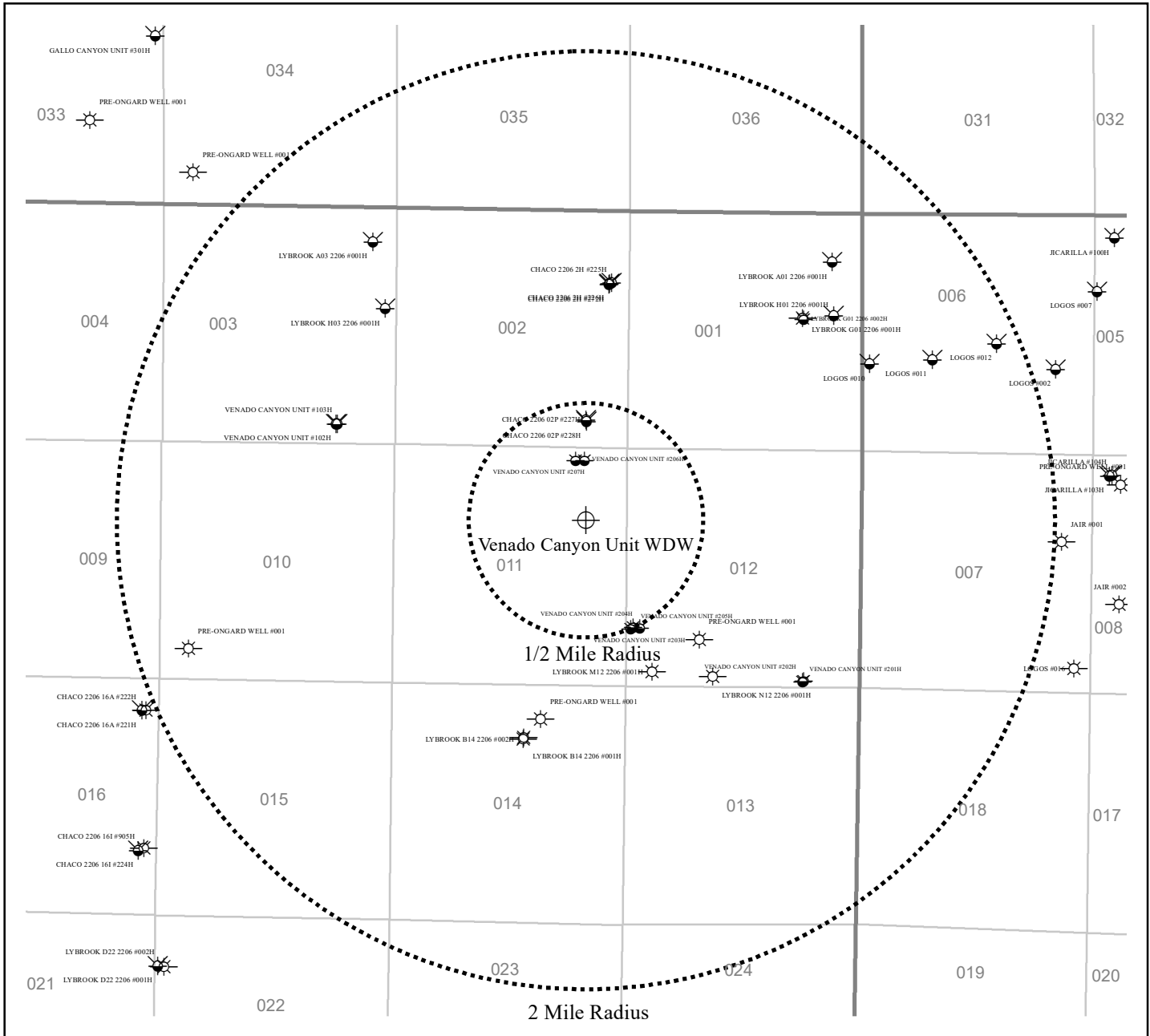
Packer Setting Depth:

Set in tension at 7080 ft or 50 ft above the upper most perforation.

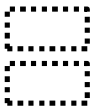
Other Type of Tubing/Casing Seal (If applicable): -NA-

Additional Data

1. Is this a new well drilled for injection: X Yes No
If no, for what purpose was the well originally drilled?
2. Name of Injection Formation: Entrada Sandstone
3. Name of Field or Pool (If applicable): NA
4. Has the well ever been perforated in other zone(s) No
List all such Perforated intervals and give plugging detail, i.e. Sacks of cement or plug(s) used:
NA
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Fruitland Coal / Pictured Cliffs Sandstone-Approx. 1470' – 1775', Gallup-Approx. 4935' - 5895' and Dakota Sandstone-Approx. 5965' – 7070'.

$$\begin{array}{r} 23\text{N} \\ \hline 22\text{N} \end{array}$$


Legend



1/2 Mile Radius



2 Mile Radius



Suspended, Cancelled, Plugged



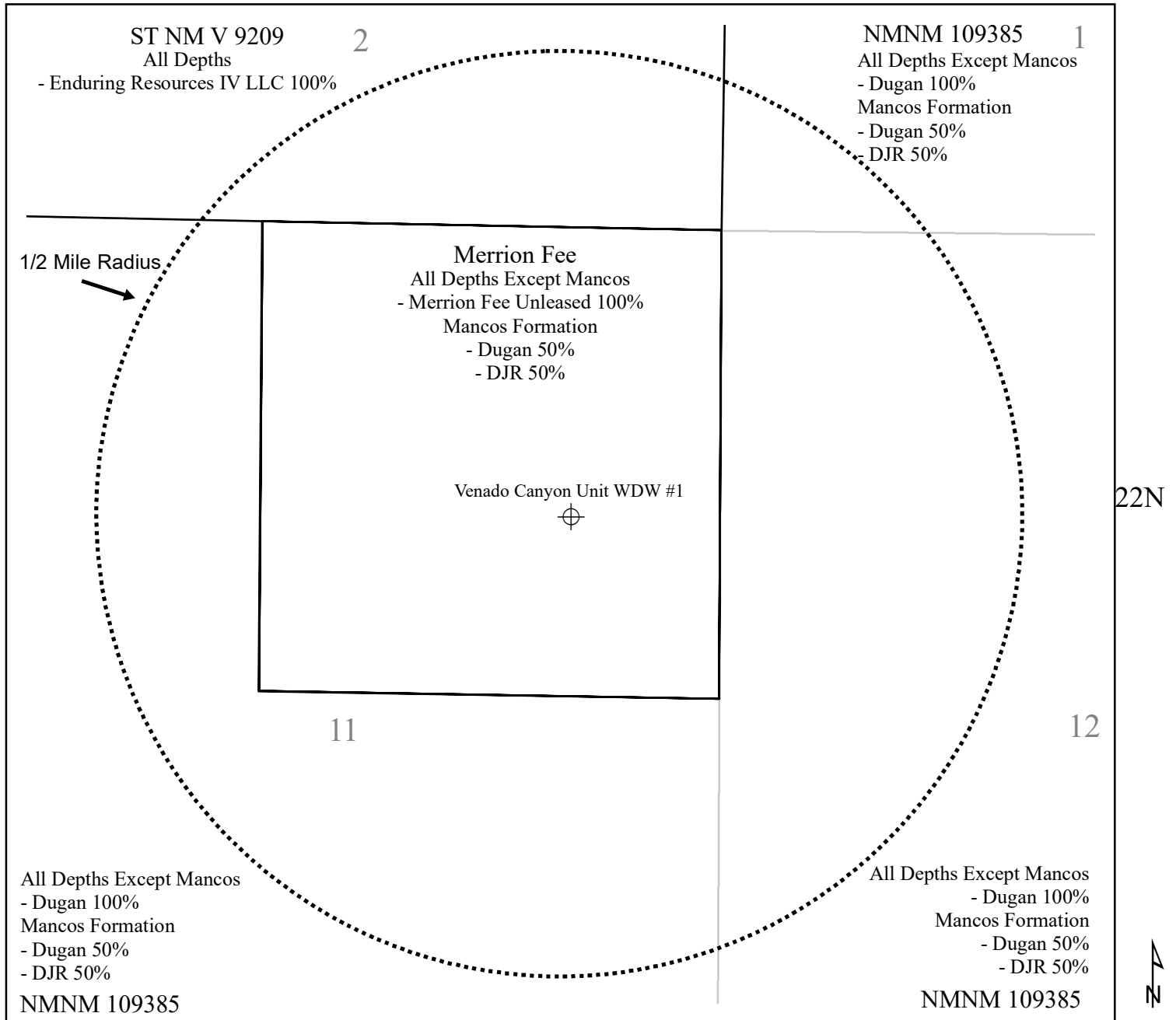
New, Active



Venado Canyon Unit WDW

Township 22 North, Range 6 West
Sandoval County, NM

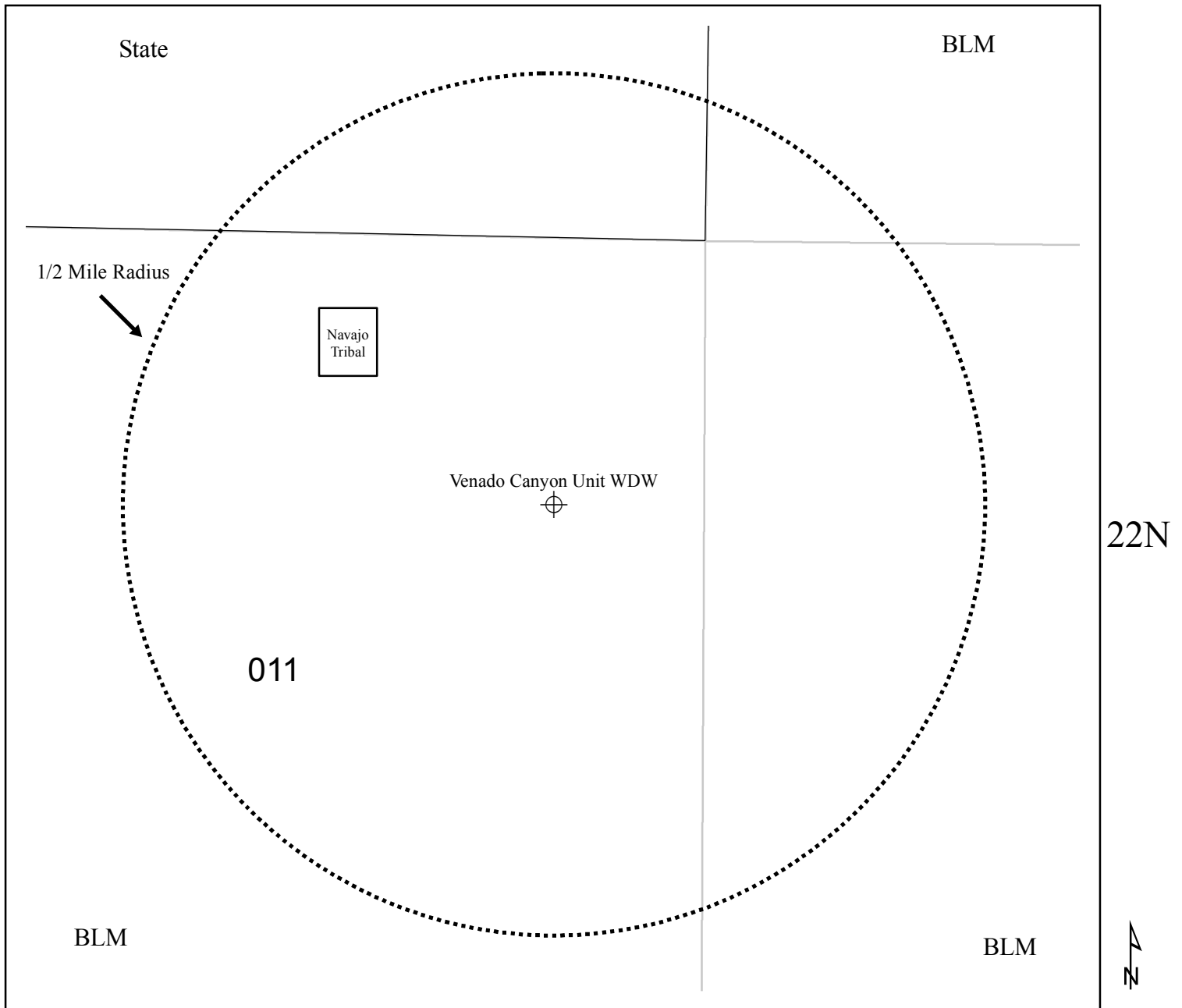
6W



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

Township 22 North, Range 6 West
Sandoval County, NM

6W



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

Application for Authorization to Inject

DJR Operating, LLC

Venado Canyon Unit WDW #1

Part VI. Data on Offset Wells

There are no wells within the ½ mile area of review which penetrate the proposed injection zone. There are also no plugged wells in the ½ mile radius of the proposed injection well. There are six producing wells within the ½ mile radius Area of Review which are highlighted in bold on the attached Well List.

Venado Canyon Unit WDW #1 - List of Wells Within a Two Mile Radius

API	Well Name	Well Number	Type	Mineral Owner	Surface Owner	Status	Unit Letter	Section	Township	Range	OCD Unit Letter	Last Production	Spud Date	Plugged On	Current Operator
30-043-21137	LYBROOK A01 2206	#001H	Oil	Federal	Indian	Active	1	1 22N	06W	A		Jul-19	2/13/2014		[371838] DJR OPERATING, LLC
30-043-21224	LYBROOK G01 2206	#002H	Oil	Federal		New	H	1 22N	06W	H		1/1800			[371838] DJR OPERATING, LLC
30-043-21122	LYBROOK H01 2206	#001H	Oil	Federal		Active	H	1 22N	06W	H		Jul-19	1/27/2014		[371838] DJR OPERATING, LLC
30-043-21225	LYBROOK G01 2206	#001H	Oil	Federal		Plugged, Site Released	G	1 22N	06W	G		1/1800	1/7/2015	10/16/2015	[282327] ENCANA OIL & GAS (USA) INC.
30-043-21167	CHACO 2206 02P	#227H	Oil	State		Active	P	2 22N	06W	P		Jun-19	10/29/2013		[372286] ENDURING RESOURCES, LLC
30-043-21147	CHACO 2206 02P	#228H	Oil	State		Active	P	2 22N	06W	P		Jun-19	6/15/2013		[372286] ENDURING RESOURCES, LLC
30-043-21149	CHACO 2206 2H	#225H	Oil	State		Active	H	2 22N	06W	H		Jun-19	7/6/2013		[372286] ENDURING RESOURCES, LLC
30-043-21169	CHACO 2206 2H	#226H	Oil	State		Active	H	2 22N	06W	H		Jun-19	3/3/2014		[372286] ENDURING RESOURCES, LLC
30-043-21193	CHACO 2206 2H	#272H	Oil	State		Active	H	2 22N	06W	H		Jun-19	3/12/2014		[372286] ENDURING RESOURCES, LLC
30-043-21130	LYBROOK A03 2206	#001H	Oil	Federal		Active	1	3 22N	06W	A		Jul-19	9/19/2012		[371838] DJR OPERATING, LLC
30-043-21123	LYBROOK H03 2206	#001H	Oil	Federal	Indian	Active	H	3 22N	06W	H		Jul-19	4/5/2013		[371838] DJR OPERATING, LLC
30-043-21221	VENADO CNYN UT	#102H	Oil	Federal		Active	P	3 22N	06W	P		Jul-19	11/14/2014		[371838] DJR OPERATING, LLC
30-043-21220	VENADO CNYN UT	#103H	Oil	Federal		Active	P	3 22N	06W	P		Jul-19	11/30/2014		[371838] DJR OPERATING, LLC
30-043-21292	VENADO CNYN UT	#206H	Oil	Federal	Federal	New	A	11 22N	06W	A		1/1800	6/3/2019		[371838] DJR OPERATING, LLC
30-043-21293	VENADO CNYN UT	#207H	Oil	Federal	Indian	New	A	11 22N	06W	A		1/1800	6/4/2019		[371838] DJR OPERATING, LLC
30-043-21271	VENADO CNYN UT	#201H	Oil	Federal	Indian	New	P	12 22N	06W	P		1/1800			[371838] DJR OPERATING, LLC
30-043-21272	VENADO CNYN UT	#202H	Oil	Federal	Indian	New	P	12 22N	06W	P		1/1800			[371838] DJR OPERATING, LLC
30-043-21289	VENADO CNYN UT	#203H	Oil	Federal	Federal	New	M	12 22N	06W	M		1/1800			[371838] DJR OPERATING, LLC
30-043-21290	VENADO CNYN UT	#204H	Oil	Federal	Federal	New	M	12 22N	06W	M		1/1800			[371838] DJR OPERATING, LLC
30-043-21291	VENADO CNYN UT	#205H	Oil	Federal	Federal	New	L	12 22N	06W	L		1/1800			[371838] DJR OPERATING, LLC
30-043-21158	LOGOS	#010	Oil	Jicarilla	Federal	Active	6	6 22N	05W	L		19-Jun	10/28/2013		[372286] ENDURING RESOURCES, LLC
30-043-21159	LOGOS	#011	Oil	Jicarilla	Federal	Active	K	6 22N	05W	K		19-Jun	11/4/2013		[372286] ENDURING RESOURCES, LLC
30-043-21160	LOGOS	#012	Oil	Jicarilla		Active	J	6 22N	05W	J		19-Jun	11/14/2013		[372286] ENDURING RESOURCES, LLC

* Wells highlighted in bold text are located within the 1/2 mile Area of Review

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30-043-21167 CHACO 2206 02P #227H [321215]

General Well Information

Operator: [372286] ENDURING RESOURCES, LLC

Status: Active

Well Type: Oil

Work Type: New

Direction: Horizontal

Multi-Lateral: No

Mineral Owner: State

Surface Owner:

Surface Location: P-02-22N-06W 614 FSL 817 FEL

Lat/Long: 36.1612396,-107.4318924 NAD83

GL Elevation: 6944

KB Elevation:

DF Elevation:

Sing/Mult Compl: Single

Potash Waiver: False

Proposed Formation and/or Notes

LYBROOK GALLUP

Depths

Proposed: 10641

Measured Vertical Depth: 10634

True Vertical Depth: 10541

Plugback Measured: 0

Formation Tops

Formation	Top	Producing	Method Obtained
Ojo Alamo Formation	1278		
Kirtland Formation	1553		
Pictured Cliffs Formation	1851		
Cliff House Formation	3475		
Menefee Formation	3498		
Point Lookout Formation	4285		
Mancos Formation	4480		
Gallup Formation	4891		

Event Dates

Initial APD Approval: 08/29/2013

Most Recent APD Approval: 04/19/2018

APD Cancellation:

APD Extension Approval:

Spud: 10/29/2013

Approved Temporary Abandonment:

Shut In:

Plug and Abandoned Intent Received:

Well Plugged:

Site Release:

Last Inspection: 11/30/2017

Current APD Expiration: 08/29/2015

Gas Capture Plan Received:

TA Expiration:

PNR Expiration:

Last MIT/BHT: 11/30/2017

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Canceled	Plugging Date
04/19/2018	[321215] CHAC O 2206 02P	#227H	[372286] ENDURING RESOURCES, LLC	New	Oil	Active		
08/29/2013	[39910] CHAC O 2206 02P	#227H	[120782] WPX ENERGY PRODUCTION, LLC	New	Oil	Active		

Comments

Operator

General Contact Information

Company: [372286] ENDURING RESOURCES, LLC

Address: 1050 17TH STREET, SUITE 2500

DENVER, CO 80265

Country: U.S.A.

Main Phone: 303-350-5716

Main Fax: 303-573-0461

Central Contact

Name:Travis Whitham
Title:Landman
E-Mail Address:twitham@enduringresources.com

Phone Number:303-350-5716
Cell Number:719-688-5521
Fax Number:303-573-0461

Aztec Contact

Name:Andrea Felix
Title:Regulatory Manager
E-Mail Address:afelix@enduringresources.com

Phone Number:505-636-9741
Cell Number:505-386-8205
Fax Number:

Pits

Pit On Site: Number 1

Pit Type:Drilling
Registration Denied:
Closure Approved:Yes
Closure Denied:
Status:Inactive

Event Dates

Registered:
Open:
Approved:09/18/2013
Closed (most recent rig release):03/17/2014

Notes

Date	Detail
09/18/2013	PMT# 11402 RCVD 9/17/2013; RR 11/16/13 ; MOD PMT# 11788 FOR CENTER OF DESIGN AND DIMENSION CHANGE RCVD 3/20/2014

APRVD 3/21/2014 ; 5/14/2014 Closure report extension aprvd to 6/17/2014 ; MOD PMT# 12019 FOR CLOSURE PLAN CHANGE RCVD 6/9/2014 AMENDED 7/21/2014 APRVD 7/21/2014 ; CLOSURE PMT# 12094 RCVD 7/31/2014 APRVD 8/21/2014

Pit On Site: Number 2

Pit Type:Closed Loop

Registration Denied:

Closure Approved:

Closure Denied:

Status:Active

Event Dates

Registered:

Open:

Approved:09/17/2013

Closed (most recent rig release):

Notes

Date	Detail
------	--------

Casing

			Boreholes, Strings and Equipment Specifications			Specifications for Strings and Tubing			Strings Cemented and Intervals			Cement and Plug Description		
Stri ng/ Hole Typ e	T ap er	Dat e Set	Dia met er	T o p	Bo tto m (D ep th)	G ra de	Le ng th	W eig ht	B ot of C e m	T o p of C e m	M et h	Cl ass of Ce me nt	S ac ks	Pre ssu re Tes t (Y/ N)
Hole 1	1	10/3 0/20 13	12. 250	0	44 5		0	0.0	0	0			0	No
Surf ace Casi ng	1	10/3 0/20 13	9.6 25	0	43 7	J- 55	0	36. 0	44 5	0	C ir c		0	No
Hole 2	1	11/0 4/20 13	8.7 50	4 4 5	60 36		0	0.0	0	0			0	No
Inter medi ate 1 Casi ng	1	11/0 5/20 13	7.0 00	0	60 36	J- 55	0	23. 0	60 36	1 2 0 0	C al c		0	No
Hole 3	1	11/1 1/20 13	6.1 25	6 0 3 6	10 63 4		0	0.0	0	0			0	No

Line r 1	1	11/1 3/20 13	4.5 00	4 7 3 9	10 62 1	N- 80	0	11. 6	10 63 4	0	C ir c		0	No
Tubi ng 1	1	01/3 1/20 14	2.8 75	0	57 90	J- 55	0	6.5	0	0			0	No

Well Completions

[42289] LYBROOK GALLUP

Status: Active

Last Produced: 06/01/2019

Bottomhole Location: L-02-22N-06W 1503 FSL 229 FWL

Lat/Long:

Acreage:160 02-22N-06W Units: I J K L

DHC: No

Consolidation Code:

Production Method: Flowing

Well Test Data

Production Test:12/02/2013

Flowing Tubing Pressure:0 psi

Choke Size:0.000 inches

Gas Volume: 1.2 MCF

Gas-Oil Ratio:0 Kcf / bbl

Disposition of Gas:

Test Length:0 hours

Flowing Casing Pressure:0 psi

Testing Method:

Oil Volume: 593.0 bbls

Oil Gravity:0.0 Corr. API

Water Volume: 7.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)	Top Vertical Depth	Bottom Vertical Depth
11/19/2013	6060	10532	0	0

Notes

Event Dates

Initial Effective/Approval:08/29/2013
 Most Recent Approval:04/19/2018
 Confidential Requested On:11/20/2013
 Test Allowable Approval:11/25/2013
 TD Reached:11/11/2013
 Deviation Report Received:Yes
 Directional Survey Run:No
 Directional Survey Received:Yes
 First Oil Production:12/01/2013
 First Injection:
 Ready to Produce:12/01/2013
 C-104 Approval:11/25/2013
 Plug Back:
 Authorization Revoked Start:

TA Expiration:
 Confidential Until:03/01/2014
 Test Allowable End:01/01/2014
 DHC:
 Rig Released:11/16/2013
 Logs Received:Yes
 Closure Pit Plat Received:
 First Gas Production:12/05/2013

Completion Report Received:12/06/2013
 New Well C-104 Approval:

Revoked Until:

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
04/19/2018	[321215] CHACO 2206 02P	#227H	[372286] ENDURING RESOURCES, LLC	Active	
12/01/2013	[39910] CHACO 2206 02P	#227H	[120782] WPX ENERGY PRODUCTION, LLC	Active	
08/29/2013	[39910] CHACO 2206 02P	#227H	[120782] WPX ENERGY PRODUCTION, LLC	New, Not Drilled	

Financial Assurance

Effective	Bond Type	Base	Balance	Issuer	Cash/Surety	Cancellation Date
06/30/2017	Blanket	250000	250000	RLI INSURANCE COMPANY	Surety	

Last Production for this well: 6/2019

Inactive Additional Bond Due Date: 07/01/2021

Bonding Depth: 10541

Required Well Bond Amount: 46082

Well Bond Required Now: No

Amount of Well Bond In Place: 0

Variance: 46082 Note: This well is covered by this operator's Blanket Bond(s).

In Violation: No

If the depth of the well is Unknown, please contact the appropriate OCD District Office and provide: (1) for a deviated or direction well, the measured depth, or (2) for a non-directional well, the true vertical depth.

Requests to release bonds must be submitted in writing. You may send an e-mail to Denise.Gallegos@state.nm.us or fax a letter to (505) 476-3453.

Compliance

Note that Financial Assurance and Inactive Well Compliance are documented in separate reports ([Inactive Well Report](#), [Financial Assurance Report](#)).

Also note that some compliance issues are addressed at the operator level so not listed under each well.

Complaints, Incidents and SpillsNo Incidents Found

Please note that incidents that impact ground water are recorded along with "facilities" which may not be wells, so although the initial report may be recorded here as a spill, information related to the abatement plans, remediation plans and ground water impact information are not yet part of this application.

Orders



NSL-6877-0

Applicant:[120782] WPX ENERGY PRODUCTION, LLC

Contact:Heather Riley

Reviewer:Dave Boyer

Approved By:

Issuing Office:Santa Fe

Processing Dates

Received:10/29/2013

Approved:11/05/2013

Expiration:

Ordered:11/05/2013

Denied:

Cancelled:

Order Pools

Pool	Gas Percent	Oil Percent
[42289] LYBROOK GALLUP	0	0

Production / Injection [Show All Production](#) [Export to Excel](#) Earliest Production in OCD Records: 11/2013 Last 6/2019

	Production				Injection				
Time Frame	Oil(BB LS)	Gas(M CF)	Water(B BLS)	Da ys P/I	Water(B BLS)	Co2(M CF)	Gas(M CF)	Oth er	Press ure
2013	13706	3584	278	31	0	0	0	0	N/A
2014	54457	107651	4842	339	0	0	0	0	N/A
2015	19934	65983	1335	365	0	0	0	0	N/A
2016	12692	52273	852	202	0	0	0	0	N/A
2017	11341	44823	1445	365	0	0	0	0	N/A
2018	8689	31875	2949	365	0	0	0	0	N/A
2019	4019	22434	460	181	0	0	0	0	N/A
Grand Total:	124838	328623	12161	1848	0	0	0	0	N/A

Transporters

Transporter	Product	Most Recent for Property
[25244] WILLAMS FOUR CORNERS, LLC	Gas	1/2019
[248440] WESTERN REFINING COMPANY, L.P.	Gas	2/2019
[373240] Whiptail Midstream LLC	Gas	6/2019

[25244] WILLAMS FOUR CORNERS, LLC	Oil	6/2018
[248440] WESTERN REFINING COMPANY, L.P.	Oil	6/2019
[25244] WILLAMS FOUR CORNERS, LLC	Gas	3/2018
[248440] WESTERN REFINING COMPANY, L.P.	Oil	3/2018

Points of Disposition

ID	Type	Description	Pool(s)
4025115	Oil	CHACO 2206 02P #227H	[42289] LYBROOK GALLUP
4025114	Gas	CHACO 2206 02P #227H	[42289] LYBROOK GALLUP

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30-043-21147 CHACO 2206 02P #228H [321215]

General Well Information

Operator: [372286] ENDURING RESOURCES, LLC

Status: Active

Well Type: Oil

Work Type: New

Direction:

Multi-Lateral: No

Mineral Owner: State

Surface Owner:

Surface Location: P-02-22N-06W 577 FSL 805 FEL

Lat/Long: 36.1611404,-107.4318542 NAD83

GL Elevation: 6944

KB Elevation:

DF Elevation:

Sing/Mult Compl: Single

Potash Waiver: False

Proposed Formation and/or Notes

LYBROOK GALL

Depths

Proposed: 9619

Measured Vertical Depth: 9637

True Vertical Depth: 9594

Plugback Measured: 0

Formation Tops

Formation	Top	Producing	Method Obtained
Ojo Alamo Formation	1237		
Kirtland Formation	1531		
Pictured Cliffs Formation	1808		
Cliff House Formation	3365		
Menefee Formation	3396		
Point Lookout Formation	4111		
Mancos Formation	4289		
Gallup Formation	4667		

Event Dates

Initial APD Approval: 05/20/2013

Most Recent APD Approval: 04/19/2018

APD Cancellation:

APD Extension Approval:

Spud: 06/15/2013

Approved Temporary Abandonment:

Shut In:

Plug and Abandoned Intent Received:

Well Plugged:

Site Release:

Last Inspection: 11/30/2017

Current APD Expiration: 05/20/2015

Gas Capture Plan Received:

TA Expiration:

PNR Expiration:

Last MIT/BHT: 11/30/2017

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Canceled	Plugging Date
04/19/2018	[321215] CHAC O 2206 02P	#228H	[372286] ENDURING RESOURCES, LLC	New	Oil	Active		
05/20/2013	[39910] CHAC O 2206 02P	#228H	[120782] WPX ENERGY PRODUCTION, LLC	New	Oil	Active		

Comments

Operator

General Contact Information

Company: [372286] ENDURING RESOURCES, LLC

Address: 1050 17TH STREET, SUITE 2500

DENVER, CO 80265

Country: U.S.A.

Main Phone: 303-350-5716

Main Fax: 303-573-0461

Central Contact

Name:Travis Whitham
Title:Landman
E-Mail Address:twitham@enduringresources.com

Phone Number:303-350-5716
Cell Number:719-688-5521
Fax Number:303-573-0461

Aztec Contact

Name:Andrea Felix
Title:Regulatory Manager
E-Mail Address:afelix@enduringresources.com

Phone Number:505-636-9741
Cell Number:505-386-8205
Fax Number:

Pits

Pit On Site: Number 1

Pit Type:Closed Loop
Registration Denied:
Closure Approved:Yes
Closure Denied:
Status:Inactive

Event Dates

Registered:
Open:
Approved:05/28/2013
Closed (most recent rig release):08/08/2013

Notes

Date	Detail
05/28/2013	PMT# 11251 RCVD 5/23/2013 NEW DRILL; RR 7-5-13 ; CLOSURE PMT# 11251 RCVD 8/15/2013 APRVD 8/19/2013

Pit On Site: Number 2

Pit Type:Drilling

Registration Denied:

Closure Approved:Yes

Closure Denied:

Status:Inactive

Event Dates

Registered:

Open:

Approved:05/28/2013

Closed (most recent rig release):03/17/2014

Notes

Date	Detail
05/28/2013	PMT# 11254 RCVD 5/23/2013 ; RR 7/5/2013 ; MOD PMT# 11326 RCVD 7/24/2013 APRVD 7/30/2013 XFER PIT FROM DRILLING TO WORKOVER ; MOD PMT# 11808 FOR PIT CENTER AND DIMENSION CHANGE RCVD 3/20/2014 APRVD 3/27/2014 ; CLOSURE PMT# 11786 RCVD 3/20/2014 AMENDED 3/27/2014 APRVD 3/27/2014

Pit On Site: Number 3

Pit Type:Production

Registration Denied:

Closure Approved:

Closure Denied:

Status:Active

Event Dates

Registered:

Open:

Approved:09/16/2013

Closed (most recent rig release):

Notes

Date	Detail
09/16/2013	BGT REG # 11390 RCVD 9/4/2013

Casing

			Boreholes, Strings and Equipment Specifications			Specifications for Strings and Tubing			Strings Cemented and Intervals			Cement and Plug Description		
String/ Hole Type	Taper	Date Set	Diameter	Top	Bottom (Depth)	Grade	Length	Weight	Bottom of Cement	Top of Cement	Method	Class of Cement	Sacks	Pressure Test (Y/ N)
Hole 1	1	06/1 5/20 13	12. 250	0	43 5		0	0.0	0	0			0	No
Surface Casing	1	06/1 5/20 13	9.6 25	0	42 0	J- 55	0	36. 0	4 3 5	0	C ir c		0	No
Hole 2	1	06/2 1/20 13	8.7 50	4 3 5	54 33		0	0.0	0	0			0	No
Inter mediate 1 Casing	1	06/2 3/20 13	7.0 00	0	54 29	J- 55	0	23. 0	5 4 3 3	0	C ir c		0	No

Hole 3	1	07/02/2013	6.125	543	9637		0	0.0	0	0			0	No
Packer	1	08/28/2014	4.500	0	5527		0	0.0	0	0			0	No
Production Casing	1	07/03/2013	4.500	0	9634	N-80	0	11.6	9637	2480	Calc		0	No
Tubing 1	1	08/28/2014	2.375	0	5714	J-55	0	4.7	0	0			0	No

Well Completions

[42289] LYBROOK GALLUP

Status: Active

Last Produced: 06/01/2019

Bottomhole Location: M-02-22N-06W 389 FSL 341 FWL

Lat/Long:

Acreage:160 02-22N-06W Units: M N O P

DHC: No

Consolidation Code:

Production Method: Flowing

Well Test Data

Production Test:08/27/2013

Flowing Tubing Pressure:0 psi

Choke Size:0.020 inches

Gas Volume: 48.0 MCF

Gas-Oil Ratio:0 Kcf / bbl

Disposition of Gas:

Test Length:0 hours

Flowing Casing Pressure:0 psi

Testing Method:

Oil Volume: 677.0 bbls

Oil Gravity:0.0 Corr. API

Water Volume: 0.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)	Top Vertical Depth	Bottom Vertical Depth
	5270	9502	0	0

Notes

Event Dates

Initial Effective/Approval:05/20/2013

Most Recent Approval:04/19/2018

Confidential Requested On:

Test Allowable Approval:

TD Reached:

Deviation Report Received:No

Directional Survey Run:No

Directional Survey Received:No

First Oil Production:08/04/2013

First Injection:

Ready to Produce:07/29/2013

C-104 Approval:07/26/2013

Plug Back:

Authorization Revoked Start:

TA Expiration:

Confidential Until:

Test Allowable End:

DHC:

Rig Released:

Logs Received:No

Closure Pit Plat Received:

First Gas Production:

Completion Report Received:

New Well C-104 Approval:

Revoked Until:

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
04/19/2018	[321215] CHACO 2206 02P	#228H	[372286] ENDURING RESOURCES, LLC	Active	
08/04/2013	[39910] CHACO 2206 02P	#228H	[120782] WPX ENERGY PRODUCTION, LLC	Active	
07/29/2013	[39910] CHACO 2206 02P	#228H	[120782] WPX ENERGY PRODUCTION, LLC	New, Not Drilled	
05/20/2013	[39910] CHACO 2206 02P	#228H	[120782] WPX ENERGY PRODUCTION, LLC	New, Not Drilled	

Financial Assurance

Effective	Bond Type	Base	Balance	Issuer	Cash/Surety	Cancellation Date
06/30/2017	Blanket	250000	250000	RLI INSURANCE COMPANY	Surety	

Last Production for this well: 6/2019

Inactive Additional Bond Due Date: 07/01/2021

Bonding Depth: 9594

Required Well Bond Amount: 44188

Well Bond Required Now: No

Amount of Well Bond In Place: 0

Variance: 44188 Note: This well is covered by this operator's Blanket Bond(s).

In Violation: No

If the depth of the well is Unknown, please contact the appropriate OCD District Office and provide: (1) for a deviated or direction well, the measured depth, or (2) for a non-directional well, the true vertical depth.

Requests to release bonds must be submitted in writing. You may send an e-mail to Denise.Gallegos@state.nm.us or fax a letter to (505) 476-3453.

Compliance

Note that Financial Assurance and Inactive Well Compliance are documented in separate reports ([Inactive Well Report](#), [Financial Assurance Report](#)).

Also note that some compliance issues are addressed at the operator level so not listed under each well.

cJK1408037293

Violation Source: Incident, Spill or Release

Date of Violation: 03/13/2014

Compliance Required: 06/16/2014

Resolved: 03/13/2014

Notes

Converted compliance record had no comment!

Actions/Events

Event Date	Category	Type
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cJK1408027293

Violation Source:

Date of Violation:03/11/2014

Compliance Required:06/16/2014

Resolved:03/27/2014

Notes

Well review determined that pit has been closed and Closure Permit has not been received within 60 days as per required by Pit Rule and approved Pit Permit. Brought to WPX attention during meeting on 3/12/2014. Closure pmt rcvd 3/20/2014 amended and aprvd 3/27/2014.

Actions/Events

Event Date	Category	Type
03/21/2014	Enforcements	Pit Violation
03/20/2014	Corrective Actions	Compliance Resolved
03/12/2014	Notifications	Other Notification

Complaints, Incidents and Spills

Please note that incidents that impact ground water are recorded along with "facilities" which may not be wells, so although the initial report may be recorded here as a spill, information related to the abatement plans, remediation plans and ground water impact information are not yet part of this application.

NCS1426948950 2014 I OS @ 30-043-21147

Action:

Notified:Industry Rep

Event Dates

Date of Discovery:09/03/2014

Characterization Report Received:

OCD Notified of Major Release:09/18/2014

Closure Report Approved:09/18/2014

Notes

Date	Detail
09/26/2014	Tank overflowed due to human error. Release resolved, final report received.

Spills

Cause	Source	Product Spilled	Square Feet	Volume Spilled	Volume Recovered
Human Error	Tank (Any)	Crude Oil	0	2	0 BBL

OrdersNo Orders Found

Production / Injection[Show All Production](#) [Export to Excel](#)Earliest Production in OCD Records: 8/2013 Last 6/2019

Time Frame	Production				Injection				
	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
2013	39525	10897	8463	150	0	0	0	0	N/A
2014	35572	57183	12057	345	0	0	0	0	N/A
2015	17862	33086	3710	365	0	0	0	0	N/A
2016	12397	28710	234287	258	0	0	0	0	N/A
2017	11810	26409	29529	365	0	0	0	0	N/A

2018	10026	31815	853	365	0	0	0	0	N/A
2019	4751	10985	489	181	0	0	0	0	N/A
Grand Total:	131943	199085	289388	202 9	0	0	0	0	N/A

Transporters

Transporter	Product	Most Recent for Property
[25244] WILLAMS FOUR CORNERS, LLC	Gas	1/2019
[248440] WESTERN REFINING COMPANY, L.P.	Gas	2/2019
[373240] Whiptail Midstream LLC	Gas	6/2019
[25244] WILLAMS FOUR CORNERS, LLC	Oil	6/2018
[248440] WESTERN REFINING COMPANY, L.P.	Oil	6/2019
[25244] WILLAMS FOUR CORNERS, LLC	Gas	3/2018
[248440] WESTERN REFINING COMPANY, L.P.	Oil	3/2018

Points of Disposition

ID	Type	Description	Pool(s)
4024392	Oil	CHACO 2206 02P #228H	[42289] LYBROOK GALLUP
4024391	Gas	CHACO 2206 02P #228H	[42289] LYBROOK GALLUP

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30-043-21290 VENADO CANYON UNIT #204H [325271]

General Well Information

Operator: [371838] DJR OPERATING, LLC

Status: New

Well Type: Oil

Work Type: New

Direction: Horizontal

Multi-Lateral: No

Mineral Owner: Federal

Surface Owner: Federal

Surface Location: M-12-22N-06W 1335 FSL 163 FWL

Lat/Long: 36.14843,-107.428194 NAD83

GL Elevation: 7040

KB Elevation:

DF Elevation:

Sing/Mult Compl: Single

Potash Waiver: False

Proposed Formation and/or Notes

LYB GLLP/HD 104 FOR DS/PLAT

Depths

Proposed: 12193

Measured Vertical Depth: 0

True Vertical Depth: 0

Plugback Measured: 0

Formation Tops

Formation	Top	Producing	Method Obtained
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Event Dates

Initial APD Approval: 03/28/2017

Most Recent APD Approval: 04/01/2019

APD Cancellation:

APD Extension Approval: 12/10/2018

Spud:

Approved Temporary Abandonment:

Shut In:

Plug and Abandoned Intent Received:

Well Plugged:

Site Release:

Last Inspection:

Current APD Expiration: 03/16/2021

Gas Capture Plan Received: 03/23/2017

TA Expiration:

PNR Expiration:

Last MIT/BHT:

History

Effective Date	Property	Well Number	Operator	C- 101 Work Type	Well Type	Well Status	Apd Cancelled	Plugging Date
04/01/2019	[325271] VENADO	#204H	[371838] DJR OPERATING, LLC	New	Oil	New		

	CANYON UNIT							
03/28/2017	[316075] VENADO CANYON UNIT	#204H	[282327] ENCANA OIL & GAS (USA) INC.	New	Oil	New		

Comments

8/21/19 Change BHL & new drilling plan

Added on 08/22/2019 by Amy Vermersch

Operator

General Contact Information

Company: [371838] DJR OPERATING, LLC

Address: 1 Road 3263

Aztec, NM 87410

Country: U.S.A.

Main Phone: 505-632-3476

Main Fax: 505-632-8151

Central Contact

Name: Dave R Brown

Title: Manager of Government and Regulatory Affairs

E-Mail Address: dbrown@djrlc.com

Phone Number: 505-632-3476

Cell Number: 303-887-3695

Fax Number: 505-632-8151

Aztec Contact

Name:Dave R Brown

Title:Manager of Government and Regulatory Affairs

E-Mail Address:dbrown@djrlc.com

Phone Number:505-632-3476

Cell Number:303-887-3695

Fax Number:505-632-8151

PitsNo Pits Found

Casing

No Casing Found

Well Completions

[42289] LYBROOK GALLUP

Status: New, Not Drilled

Last Produced:

Bottomhole Location: I-13-22N-06W 1473 FSL 336 FEL

Lat/Long:

Acreage:440 13-22N-06W Units: B C D F G H I J P

12-22N-06W Units: M N

DHC:

Consolidation Code:

Production Method:

Well Test Data

Production Test:

Flowing Tubing Pressure:0 psi

Choke Size:0.000 inches

Gas Volume: 0.0 MCF

Gas-Oil Ratio:0 Kcf / bbl

Disposition of Gas:

Test Length:0 hours

Flowing Casing Pressure:0 psi

Testing Method:

Oil Volume: 0.0 bbls

Oil Gravity:0.0 Corr. API

Water Volume: 0.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)	Top Vertical Depth	Bottom Vertical Depth
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Notes

Event Dates

Initial Effective/Approval:03/28/2017

Most Recent Approval:08/21/2019

Confidential Requested On:

Test Allowable Approval:

TD Reached:

Deviation Report Received:No

Directional Survey Run:No

Directional Survey Received:No

First Oil Production:

First Injection:

Ready to Produce:

C-104 Approval:

Plug Back:

Authorization Revoked Start:

TA Expiration:

Confidential Until:

Test Allowable End:

DHC:

Rig Released:

Logs Received:No

Closure Pit Plat Received:

First Gas Production:

Completion Report Received:

New Well C-104 Approval:

Revoked Until:

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
08/21/2019	[325271] VENADO CANYON UNIT	#204H	[371838] DJR OPERATING, LLC	New, Not Drilled	
04/01/2019	[325271] VENADO CANYON UNIT	#204H	[371838] DJR OPERATING, LLC	New, Not Drilled	
03/28/2017	[316075] VENADO CANYON UNIT	#204H	[282327] ENCANA OIL & GAS (USA) INC.	New, Not Drilled	

Financial Assurance

Effective	Bond Type	Base	Balance	Issuer	Cash/Surety	Cancellation Date
05/02/2017	Blanket	125000	125000	U.S. SPECIALTY INSURANCE COMPANY	Surety	

Requests to release bonds must be submitted in writing. You may send an e-mail to Denise.Gallegos@state.nm.us or fax a letter to (505) 476-3453.

Compliance

Note that Financial Assurance and Inactive Well Compliance are documented in separate reports ([Inactive Well Report](#), [Financial Assurance Report](#)).

Also note that some compliance issues are addressed at the operator level so not listed under each well.

Complaints, Incidents and SpillsNo Incidents Found

Please note that incidents that impact ground water are recorded along with “facilities” which may not be wells, so although the initial report may be recorded here as a spill, information related to the abatement plans, remediation plans and ground water impact information are not yet part of this application.

OrdersNo Orders Found

Production / Injection[Show All Production](#) [Export to Excel](#) Earliest Production in OCD Records: Last

	Production				Injection				
Time Frame	Oil(BB LS)	Gas(M CF)	Water(B BLS)	Days P/I	Water(B BLS)	Co2(M CF)	Gas(M CF)	Other	Pressure
Grand Total:	0	0	0	0	0	0	0	0	N/A

Transporters

Transporter	Product	Most Recent for Property
[151618] ENTERPRISE FIELD SERVICES L.L.C.	Gas	7/2019
[248440] WESTERN REFINING COMPANY, L.P.	Oil	7/2019
[151618] ENTERPRISE FIELD SERVICES L.L.C.	Gas	3/2019
[248440] WESTERN REFINING COMPANY, L.P.	Oil	3/2019

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30-043-21291 VENADO CANYON UNIT #205H [325271]

General Well Information

Operator: [371838] DJR OPERATING, LLC

Status: New

Well Type: Oil

Work Type: New

Direction: Horizontal

Multi-Lateral: No

Mineral Owner: Federal

Surface Owner: Federal

Surface Location: L-12-22N-06W 1350 FSL 188 FWL

Lat/Long: 36.148471,-107.428702 NAD83

GL Elevation: 7040

KB Elevation:

DF Elevation:

Sing/Mult Compl: Single

Potash Waiver: False

Proposed Formation and/or Notes

LYB GLLP/HD 104 FOR DS/PLAT

Depths

Proposed: 10317

Measured Vertical Depth: 0

True Vertical Depth: 0

Plugback Measured: 0

Formation Tops

Formation	Top	Producing	Method Obtained
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Event Dates

Initial APD Approval: 03/28/2017

Most Recent APD Approval: 04/01/2019

APD Cancellation:

APD Extension Approval: 12/10/2018

Spud:

Approved Temporary Abandonment:

Shut In:

Plug and Abandoned Intent Received:

Well Plugged:

Site Release:

Last Inspection:

Current APD Expiration: 03/16/2021

Gas Capture Plan Received: 03/23/2017

TA Expiration:

PNR Expiration:

Last MIT/BHT:

History

Effective Date	Property	Well Number	Operator	C- 101 Work Type	Well Type	Well Status	Apd Cancelled	Plugging Date
04/01/2019	[325271] VENADO	#205H	[371838] DJR OPERATING, LLC	New	Oil	New		

	CANYON UNIT							
03/28/2017	[316075] VENADO CANYON UNIT	#205H	[282327] ENCANA OIL & GAS (USA) INC.	New	Oil	New		

Comments

Operator

General Contact Information

Company: [371838] DJR OPERATING, LLC

Address: 1 Road 3263

Aztec, NM 87410

Country: U.S.A.

Main Phone: 505-632-3476

Main Fax: 505-632-8151

Central Contact

Name: Dave R Brown

Title: Manager of Government and Regulatory Affairs

E-Mail Address: dbrown@djrlc.com

Phone Number: 505-632-3476

Cell Number: 303-887-3695

Fax Number: 505-632-8151

Aztec Contact

Name: Dave R Brown

Title: Manager of Government and Regulatory Affairs

E-Mail Address: dbrown@djrlc.com

Phone Number:505-632-3476

Cell Number:303-887-3695

Fax Number:505-632-8151

PitsNo Pits Found

Casing

No Casing Found

Well Completions

[42289] LYBROOK GALLUP

Status: New, Not Drilled

Last Produced:

Bottomhole Location: C-11-22N-06W 330 FNL 2340 FWL

Lat/Long:

Acreage:240 11-22N-06W Units: B C G H I

12-22N-06W Units: L

DHC:

Consolidation Code:

Production Method:

Well Test Data

Production Test:

Flowing Tubing Pressure:0 psi

Choke Size:0.000 inches

Gas Volume: 0.0 MCF

Gas-Oil Ratio:0 Kcf / bbl

Disposition of Gas:

Test Length:0 hours

Flowing Casing Pressure:0 psi

Testing Method:

Oil Volume: 0.0 bbls

Oil Gravity:0.0 Corr. API

Water Volume: 0.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)	Top Vertical Depth	Bottom Vertical Depth
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Notes

Event Dates

Initial Effective/Approval:03/28/2017

Most Recent Approval:04/01/2019

Confidential Requested On:

Test Allowable Approval:

TD Reached:

Deviation Report Received:No

Directional Survey Run:No

Directional Survey Received:No

First Oil Production:

First Injection:

Ready to Produce:

C-104 Approval:

Plug Back:

Authorization Revoked Start:

TA Expiration:

Confidential Until:

Test Allowable End:

DHC:

Rig Released:

Logs Received:No

Closure Pit Plat Received:

First Gas Production:

Completion Report Received:

New Well C-104 Approval:

Revoked Until:

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
04/01/2019	[325271] VENADO CANYON UNIT	#205H	[371838] DJR OPERATING, LLC	New, Not Drilled	
03/28/2017	[316075] VENADO CANYON UNIT	#205H	[282327] ENCANA OIL & GAS (USA) INC.	New, Not Drilled	

Financial Assurance

Effective	Bond Type	Base	Balance	Issuer	Cash/Surety	Cancellation Date
05/02/2017	Blanket	125000	125000	U.S. SPECIALTY INSURANCE COMPANY	Surety	

Requests to release bonds must be submitted in writing. You may send an e-mail to Denise.Gallegos@state.nm.us or fax a letter to (505) 476-3453.

Compliance

Note that Financial Assurance and Inactive Well Compliance are documented in separate reports ([Inactive Well Report](#), [Financial Assurance Report](#)).

Also note that some compliance issues are addressed at the operator level so not listed under each well.

Complaints, Incidents and SpillsNo Incidents Found

Please note that incidents that impact ground water are recorded along with “facilities” which may not be wells, so although the initial report may be recorded here as a spill, information related to the abatement plans, remediation plans and ground water impact information are not yet part of this application.

OrdersNo Orders Found

Production / Injection[Show All Production](#) [Export to Excel](#)Earliest Production in OCD Records: Last

	Production				Injection				
Time Frame	Oil(BB LS)	Gas(M CF)	Water(B BLS)	Days P/I	Water(B BLS)	Co2(M CF)	Gas(M CF)	Other	Pressure
Grand Total:	0	0	0	0	0	0	0	0	N/A

Transporters

Transporter	Product	Most Recent for Property
[151618] ENTERPRISE FIELD SERVICES L.L.C.	Gas	7/2019
[248440] WESTERN REFINING COMPANY, L.P.	Oil	7/2019
[151618] ENTERPRISE FIELD SERVICES L.L.C.	Gas	3/2019
[248440] WESTERN REFINING COMPANY, L.P.	Oil	3/2019

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30-043-21292 VENADO CANYON UNIT #206H [325271]

General Well Information

Operator: [371838] DJR OPERATING, LLC

Status: New

Well Type: Oil

Work Type: New

Direction: Horizontal

Multi-Lateral: No

Mineral Owner: Federal

Surface Owner: Federal

Surface Location: A-11-22N-06W 263 FNL 1130 FEL

Lat/Long: 36.158832,-107.432365 NAD83

GL Elevation: 7040

KB Elevation:

DF Elevation:

Sing/Mult Compl: Single

Potash Waiver: False

Proposed Formation and/or Notes

LYB GLLP/HD 104 FOR DS/PLAT

Depths

Proposed: 15025

Measured Vertical Depth: 0

True Vertical Depth: 0

Plugback Measured: 0

Formation Tops

Formation	Top	Producing	Method Obtained
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Event Dates

Initial APD Approval: 03/28/2017

Most Recent APD Approval: 04/01/2019

APD Cancellation:

APD Extension Approval: 12/10/2018

Spud: 06/03/2019

Approved Temporary Abandonment:

Shut In:

Plug and Abandoned Intent Received:

Well Plugged:

Site Release:

Last Inspection:

Current APD Expiration: 03/16/2021

Gas Capture Plan Received: 04/19/2019

TA Expiration:

PNR Expiration:

Last MIT/BHT:

History

Effective Date	Property	Well Number	Operator	C- 101 Work Type	Well Type	Well Status	Apd Cancelled	Plugging Date
04/01/2019	[325271] VENADO	#206H	[371838] DJR OPERATING, LLC	New	Oil	New		

	CANYON UNIT							
03/28/2017	[316075] VENADO CANYON UNIT	#206H	[282327] ENCANA OIL & GAS (USA) INC.	New	Oil	New		

Comments

Operator filed change of plans for SH & BHL Change

Added on 05/01/2019 by Amy Vermersch

Operator

General Contact Information

Company: [371838] DJR OPERATING, LLC

Address: 1 Road 3263

Aztec, NM 87410

Country: U.S.A.

Main Phone: 505-632-3476

Main Fax: 505-632-8151

Central Contact

Name: Dave R Brown

Title: Manager of Government and Regulatory Affairs

E-Mail Address: dbrown@djrlc.com

Phone Number: 505-632-3476

Cell Number: 303-887-3695

Fax Number: 505-632-8151

Aztec Contact

Name:Dave R Brown

Title:Manager of Government and Regulatory Affairs

E-Mail Address:dbrown@djrlc.com

Phone Number:505-632-3476

Cell Number:303-887-3695

Fax Number:505-632-8151

PitsNo Pits Found

Casing

			Boreholes, Strings and Equipment Specifications			Specifications for Strings and Tubing			Strings Cemented and Intervals			Cement and Plug Description		
Stri ng/ Hole Typ e	T ap er	Dat e Set	Dia met er	T o p	Bo tto m (D ept h)	G ra de	Le ng th	W eig ht	B o t o f C e m	T o p o f C e m	M et h	Cl ass of Ce me nt	S ac ks	Pre ssu re Tes t (Y/ N)
Hole 1	1	06/0 3/20 19	12. 250	0	36 4		0	0.0	0	0			0	No
Surf ace Casi ng	1	06/0 3/20 19	9.6 25	0	35 9	J- 55	0	36. 0	3 5 9	0	C ir c		0	Ye s
Hole 2	1	08/1 8/20 19	8.7 50	3 6 4	58 73		0	0.0	0	0			0	No
Inter medi ate 1	1	08/1 8/20 19	7.0 00	0	58 63	J- 55	0	26. 0	5 8	0	C ir c		0	No

Casing									63					
Hole 3	1	08/23/2019	6.125	5873	14190		0	0.0	0	0			0	No
Line r 1	1	08/25/2019	4.500	5893	15082	P-110	0	11.6	0	0			0	No

Well Completions

[42289] LYBROOK GALLUP

Status: New, Not Drilled

Last Produced:

Bottomhole Location: H-13-22N-06W 2338 FNL 330 FEL

Lat/Long:

Acreage:640 11-22N-06W Units: A B G H I

13-22N-06W Units: A B C G H

12-22N-06W Units: E K L M N O

DHC:

Consolidation Code:

Production Method:

Well Test Data

Production Test:

Flowing Tubing Pressure:0 psi

Choke Size:0.000 inches

Gas Volume: 0.0 MCF

Gas-Oil Ratio:0 Kcf / bbl

Disposition of Gas:

Test Length:0 hours

Flowing Casing Pressure:0 psi

Testing Method:

Oil Volume: 0.0 bbls

Oil Gravity:0.0 Corr. API

Water Volume: 0.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)	Top Vertical Depth	Bottom Vertical Depth
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Notes

Event Dates

Initial Effective/Approval:03/28/2017

Most Recent Approval:04/01/2019

Confidential Requested On:

Test Allowable Approval:

TD Reached:

Deviation Report Received:No

Directional Survey Run:No

Directional Survey Received:No

First Oil Production:

First Injection:

Ready to Produce:

C-104 Approval:

Plug Back:

Authorization Revoked Start:

TA Expiration:

Confidential Until:

Test Allowable End:

DHC:

Rig Released:

Logs Received:No

Closure Pit Plat Received:

First Gas Production:

Completion Report Received:

New Well C-104 Approval:

Revoked Until:

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
04/01/2019	[325271] VENADO CANYON UNIT	#206H	[371838] DJR OPERATING, LLC	New, Not Drilled	
03/28/2017	[316075] VENADO CANYON UNIT	#206H	[282327] ENCANA OIL & GAS (USA) INC.	New, Not Drilled	

Financial Assurance

Effective	Bond Type	Base	Balance	Issuer	Cash/Surety	Cancellation Date
05/02/2017	Blanket	125000	125000	U.S. SPECIALTY INSURANCE COMPANY	Surety	

Requests to release bonds must be submitted in writing. You may send an e-mail to Denise.Gallegos@state.nm.us or fax a letter to (505) 476-3453.

Compliance

Note that Financial Assurance and Inactive Well Compliance are documented in separate reports ([Inactive Well Report](#), [Financial Assurance Report](#)).

Also note that some compliance issues are addressed at the operator level so not listed under each well.

Complaints, Incidents and SpillsNo Incidents Found

Please note that incidents that impact ground water are recorded along with “facilities” which may not be wells, so although the initial report may be recorded here as a spill, information related to the abatement plans, remediation plans and ground water impact information are not yet part of this application.

OrdersNo Orders Found

Production / Injection[Show All Production](#) [Export to Excel](#) Earliest Production in OCD Records: Last

	Production				Injection				
Time Frame	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
Grand Total:	0	0	0	0	0	0	0	0	N/A

Transporters

Transporter	Product	Most Recent for Property
[151618] ENTERPRISE FIELD SERVICES L.L.C.	Gas	7/2019
[248440] WESTERN REFINING COMPANY, L.P.	Oil	7/2019
[151618] ENTERPRISE FIELD SERVICES L.L.C.	Gas	3/2019
[248440] WESTERN REFINING COMPANY, L.P.	Oil	3/2019

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30-043-21293 VENADO CANYON UNIT #207H [325271]

General Well Information

Operator: [371838] DJR OPERATING, LLC

Status: New

Well Type: Oil

Work Type: New

Direction: Horizontal

Multi-Lateral: No

Mineral Owner: Federal

Surface Owner: Indian

Surface Location: A-11-22N-06W 263 FNL 1551 FEL

Lat/Long: 36.158847,-107.433037 NAD83

GL Elevation: 6963

KB Elevation:

DF Elevation:

Sing/Mult Compl: Single

Potash Waiver: False

Proposed Formation and/or Notes

LYB GLLP/HD 104 FOR DS/PLAT

Depths

Proposed: 13327

Measured Vertical Depth: 0

True Vertical Depth: 0

Plugback Measured: 0

Formation Tops

Formation	Top	Producing	Method Obtained
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Event Dates

Initial APD Approval: 03/28/2017

Most Recent APD Approval: 04/01/2019

APD Cancellation:

APD Extension Approval: 12/10/2018

Spud: 06/04/2019

Approved Temporary Abandonment:

Shut In:

Plug and Abandoned Intent Received:

Well Plugged:

Site Release:

Last Inspection:

Current APD Expiration: 03/16/2021

Gas Capture Plan Received: 04/19/2019

TA Expiration:

PNR Expiration:

Last MIT/BHT:

History

Effective Date	Property	Well Number	Operator	C- 101 Work Type	Well Type	Well Status	Apd Cancelled	Plugging Date
04/01/2019	[325271] VENADO	#207H	[371838] DJR OPERATING, LLC	New	Oil	New		

	CANYON UNIT							
03/28/2017	[316075] VENADO CANYON UNIT	#207H	[282327] ENCANA OIL & GAS (USA) INC.	New	Oil	New		

Comments

Operator

General Contact Information

Company: [371838] DJR OPERATING, LLC

Address: 1 Road 3263

Aztec, NM 87410

Country: U.S.A.

Main Phone: 505-632-3476

Main Fax: 505-632-8151

Central Contact

Name: Dave R Brown

Title: Manager of Government and Regulatory Affairs

E-Mail Address: dbrown@djrlc.com

Phone Number: 505-632-3476

Cell Number: 303-887-3695

Fax Number: 505-632-8151

Aztec Contact

Name: Dave R Brown

Title: Manager of Government and Regulatory Affairs

E-Mail Address: dbrown@djrlc.com

Phone Number:505-632-3476

Cell Number:303-887-3695

Fax Number:505-632-8151

PitsNo Pits Found

Casing

			Boreholes, Strings and Equipment Specifications			Specifications for Strings and Tubing			Strings Cemented and Intervals			Cement and Plug Description		
Stri ng/ Hole Typ e	T ap er	Dat e Set	Dia met er	T o p	Bo tto m (D ept h)	G ra de	Le ng th	W eig ht	B o t o f C e m	T o p o f C e m	M et h	Cl ass of Ce me nt	S ac ks	Pre ssu re Tes t (Y/ N)
Hole 1	1	06/0 4/20 19	12. 250	0	35 6		0	0.0	0	0			0	No
Surf ace Casi ng	1	06/0 4/20 19	9.6 25	0	35 1	J- 55	0	36. 0	3 5 1	0	C ir c		0	No

Well Completions

[42289] LYBROOK GALLUP

Status: New, Not Drilled

Last Produced:

Bottomhole Location: A-13-22N-06W 330 FNL 330 FEL

Lat/Long:

Acreage:360 11-22N-06W Units: A

13-22N-06W Units: A

12-22N-06W Units: D E F J K O P

DHC:

Consolidation Code:

Production Method:

Well Test Data

Production Test:

Flowing Tubing Pressure:0 psi

Choke Size:0.000 inches

Gas Volume: 0.0 MCF

Gas-Oil Ratio:0 Kcf / bbl

Disposition of Gas:

Test Length:0 hours

Flowing Casing Pressure:0 psi

Testing Method:

Oil Volume: 0.0 bbls

Oil Gravity:0.0 Corr. API

Water Volume: 0.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)	Top Vertical Depth	Bottom Vertical Depth
------	---	--	-----------------------	--------------------------

Notes

Event Dates

Initial Effective/Approval:03/28/2017

Most Recent Approval:04/01/2019

Confidential Requested On:

Test Allowable Approval:

TD Reached:

Deviation Report Received:No

Directional Survey Run:No

Directional Survey Received:No

First Oil Production:

First Injection:

Ready to Produce:

C-104 Approval:

Plug Back:

Authorization Revoked Start:

TA Expiration:

Confidential Until:

Test Allowable End:

DHC:

Rig Released:

Logs Received:No

Closure Pit Plat Received:

First Gas Production:

Completion Report Received:

New Well C-104 Approval:

Revoked Until:

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
04/01/2019	[325271] VENADO CANYON UNIT	#207H	[371838] DJR OPERATING, LLC	New, Not Drilled	
03/28/2017	[316075] VENADO CANYON UNIT	#207H	[282327] ENCANA OIL & GAS (USA) INC.	New, Not Drilled	

Financial Assurance

Effective	Bond Type	Base	Balance	Issuer	Cash/Surety	Cancellation Date
05/02/2017	Blanket	125000	125000	U.S. SPECIALTY INSURANCE COMPANY	Surety	

Requests to release bonds must be submitted in writing. You may send an e-mail to Denise.Gallegos@state.nm.us or fax a letter to (505) 476-3453.

Compliance

Note that Financial Assurance and Inactive Well Compliance are documented in separate reports ([Inactive Well Report](#), [Financial Assurance Report](#)).

Also note that some compliance issues are addressed at the operator level so not listed under each well.

Complaints, Incidents and SpillsNo Incidents Found

Please note that incidents that impact ground water are recorded along with “facilities” which may not be wells, so although the initial report may be recorded here as a spill, information related to the abatement plans, remediation plans and ground water impact information are not yet part of this application.

OrdersNo Orders Found

Production / Injection[Show All Production](#) [Export to Excel](#) Earliest Production in OCD Records: Last

	Production				Injection				
Time Frame	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
Grand Total:	0	0	0	0	0	0	0	0	N/A

Transporters

Transporter	Product	Most Recent for Property
[151618] ENTERPRISE FIELD SERVICES L.L.C.	Gas	7/2019
[248440] WESTERN REFINING COMPANY, L.P.	Oil	7/2019
[151618] ENTERPRISE FIELD SERVICES L.L.C.	Gas	3/2019
[248440] WESTERN REFINING COMPANY, L.P.	Oil	3/2019

Application for Authorization to Inject

DJR Operating, LLC

Venado Canyon Unit WDW #1

Part VII. Operations Plan

1. Average Injection Rate: 3,000-bwpd with a maximum of 6,000-bwpd.
2. The system will be closed.
3. The average injection pressure: 1000 psi and the maximum will be 1300-psi.
4. The source of injected water will be produced water from the Venado Canyon Unit wells in the area (T22N, R6W). The water to be injected is compatible with the water in the disposal zone.
5. Injection is for disposal purposes into a zone (Entrada Sandstone) that is not productive of oil or gas within one mile of the proposed injection well.

Produced Water Samples

1. Venado Canyon Unit 102H/103H

UL P, Section 3-22N-6W

API: 030-43-21221 – 102H

API: 030-43-21220 – 103H

2. Lybrook H03 2206 #001H

UL H, Section 3-22N-6W

API: 030-43-21123

Water Analysis Report

Production Company: **DJR Operating, LLC**
Well Name: **VENADO CANYON UNIT 102H/103H**
Sample Point: **SEPARATOR**
Sample Date: **4/9/2019**
Sample ID: **WA-385512**

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	mg/L	Anions	mg/L
Test Date:	4/22/2019	Sodium (Na):	14667.00	Chloride (Cl):	23500.00
System Temperature 1 (°F):	50	Potassium (K):	51.81	Sulfate (SO4):	0.00
System Pressure 1 (psig):	15	Magnesium (Mg):	65.37	Bicarbonate (HCO3):	335.50
System Temperature 2 (°F):	200	Calcium (Ca):	399.35	Carbonate (CO3):	
System Pressure 2 (psig):	200	Strontium (Sr):	105.79	Hydroxide(HO):	
Calculated Density (g/ml):	1.0241	Barium (Ba):	29.07	Acetic Acid (CH3COO)	
pH:	7.40	Iron (Fe):	24.25	Propionic Acid (C2H5COO)	
Calculated TDS (mg/L):	39207.80	Zinc (Zn):	0.30	Butanoic Acid (C3H7COO)	
CO2 in Gas (%):		Lead (Pb):	0.23	Isobutyric Acid ((CH3)2CHCOO)	
Dissolved CO2 (mg/L):	49.50	Ammonia NH3:		Fluoride (F):	
H2S in Gas (%):		Manganese (Mn):	0.51	Bromine (Br):	
H2S in Water (mg/L):	0.00	Aluminum (Al):	1.06	Silica (SiO2):	28.62
Tot. SuspendedSolids(mg/L):		Lithium (Li):	1.79	Calcium Carbonate (CaCO3):	
Corrosivity(LanglierSat.Indx)	0.00	Boron (B):	6.12	Phosphates (PO4):	0.80
Alkalinity:		Silicon (Si):	13.38	Oxygen (O2):	

Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
200.00	200.00	1.01	34.87	0.00	0.00	0.00	0.00	1.67	16.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183.00	179.00	0.92	30.28	0.00	0.00	0.00	0.00	1.59	16.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	159.00	0.82	26.01	0.00	0.00	0.00	0.00	1.49	15.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	138.00	0.74	22.19	0.00	0.00	0.00	0.00	1.39	15.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.00	118.00	0.66	18.77	0.00	0.00	0.00	0.00	1.29	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.00	97.00	0.58	15.78	0.00	0.00	0.00	0.00	1.18	14.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	77.00	0.51	13.23	0.00	0.00	0.00	0.00	1.07	13.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83.00	56.00	0.45	11.10	0.00	0.00	0.00	0.00	0.96	12.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.00	36.00	0.40	9.42	0.00	0.00	0.00	0.00	0.84	11.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.00	15.00	0.37	8.55	0.00	0.00	0.00	0.00	0.75	10.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

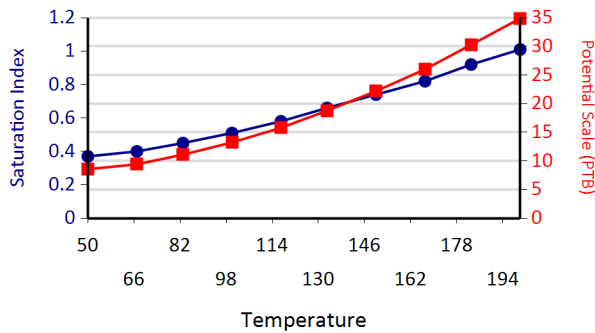
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ ~0.5H ₂ O		Anhydrate CaSO ₄		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	3.23	15.16	1.94	9.89	8.14	18.17
183.00	179.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.44	10.14	1.47	6.78	7.58	17.75
167.00	159.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64	6.00	1.00	4.13	7.01	17.11
150.00	138.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	2.71	0.53	1.98	6.45	16.26
133.00	118.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.06	0.23	5.89	15.16
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	5.34	13.84
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	4.80	12.39
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	4.28	10.90
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	3.81	9.49
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	3.49	8.52

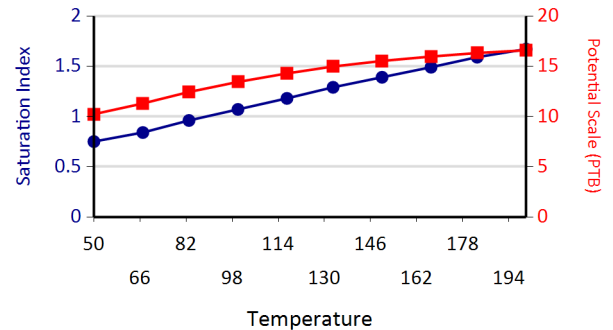
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

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

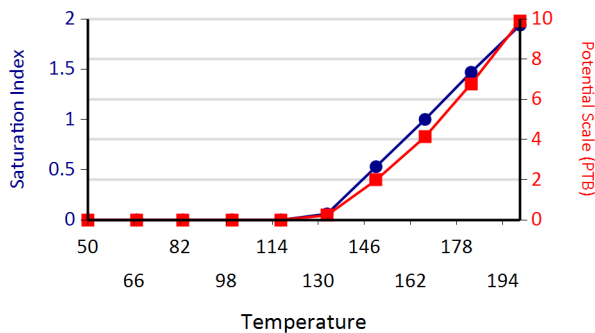
Calcium Carbonate



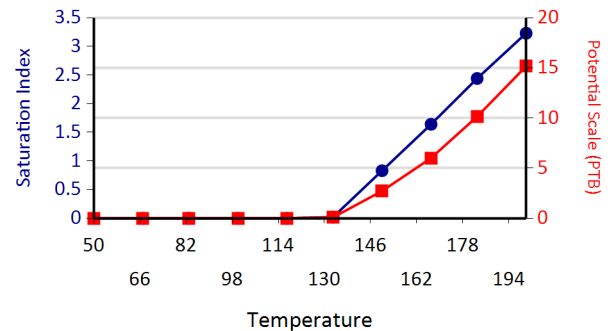
Iron Carbonate



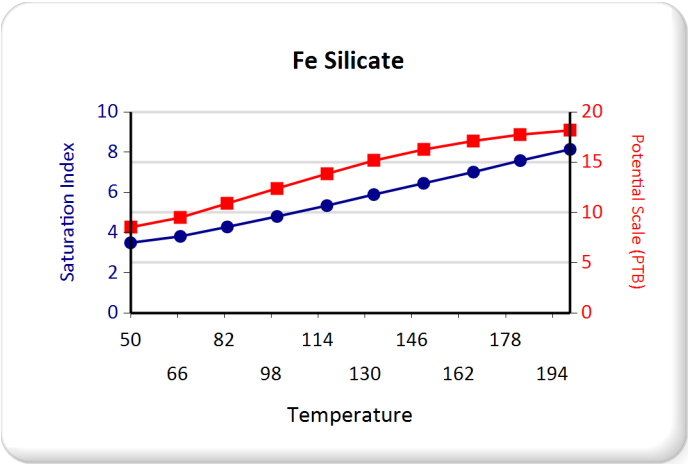
Ca Mg Silicate



Mg Silicate



Water Analysis Report



Water Analysis Report

Production Company:	DJR Operating, LLC	Sales Rep:	Craig Smith
Well Name:	LYBROOK H03-2206-01H	Lab Tech:	Amanda Harvey
Sample Point:	SEPARATOR		
Sample Date:	4/10/2019		
Sample ID:	WA-385495		Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations	mg/L	Anions	mg/L
Test Date:	4/23/2019	Sodium (Na):	12797.54	Chloride (Cl):	20500.00
System Temperature 1 (°F):	50	Potassium (K):	42.56	Sulfate (SO4):	0.00
System Pressure 1 (psig):	15	Magnesium (Mg):	56.18	Bicarbonate (HCO3):	274.50
System Temperature 2 (°F):	200	Calcium (Ca):	346.78	Carbonate (CO3):	
System Pressure 2 (psig):	200	Strontium (Sr):	79.00	Hydroxide(HO):	
Calculated Density (g/ml):	1.0207	Barium (Ba):	27.98	Acetic Acid (CH3COO)	
pH:	7.20	Iron (Fe):	22.73	Propionic Acid (C2H5COO)	
Calculated TDS (mg/L):	34179.22	Zinc (Zn):	0.13	Butanoic Acid (C3H7COO)	
CO2 in Gas (%):		Lead (Pb):	0.12	Isobutyric Acid ((CH3)2CHCOO)	
Dissolved CO2 (mg/L):	49.50	Ammonia NH3:		Fluoride (F):	
H2S in Gas (%):		Manganese (Mn):	0.57	Bromine (Br):	
H2S in Water (mg/L):	0.00	Aluminum (Al):	0.10	Silica (SiO2):	31.13
Tot. SuspendedSolids(mg/L):		Lithium (Li):	1.78	Calcium Carbonate (CaCO3):	
Corrosivity(LanglierSat.Indx)	0.00	Boron (B):	6.62	Phosphates (PO4):	0.25
Alkalinity:		Silicon (Si):	14.55	Oxygen (O2):	

Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
200.00	200.00	0.73	22.74	0.00	0.00	0.00	0.00	1.43	14.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183.00	179.00	0.63	18.72	0.00	0.00	0.00	0.00	1.33	14.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	159.00	0.52	15.01	0.00	0.00	0.00	0.00	1.23	13.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	138.00	0.43	11.73	0.00	0.00	0.00	0.00	1.12	13.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.00	118.00	0.34	8.84	0.00	0.00	0.00	0.00	1.00	12.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.00	97.00	0.25	6.35	0.00	0.00	0.00	0.00	0.89	11.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	77.00	0.18	4.26	0.00	0.00	0.00	0.00	0.77	10.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83.00	56.00	0.11	2.53	0.00	0.00	0.00	0.00	0.65	9.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.00	36.00	0.05	1.20	0.00	0.00	0.00	0.00	0.53	7.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.00	15.00	0.02	0.53	0.00	0.00	0.00	0.00	0.43	6.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

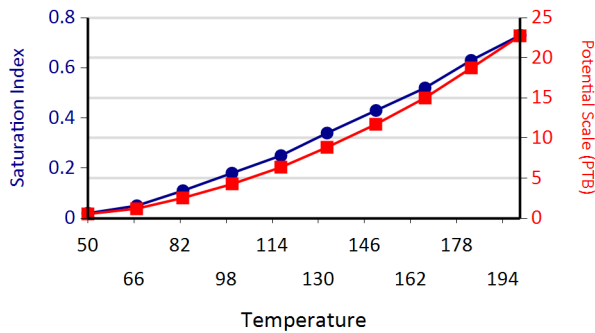
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ •0.5H ₂ O		Anhydrate CaSO ₄		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	2.19	9.87	1.28	6.43	7.24	16.73
183.00	179.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34	5.38	0.77	3.51	6.61	16.16
167.00	159.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	1.71	0.25	1.07	5.98	15.33
150.00	138.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.36	14.25
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	4.75	12.93
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	4.15	11.41
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	9.79
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	8.17
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	2.53	6.69
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	2.19	5.70

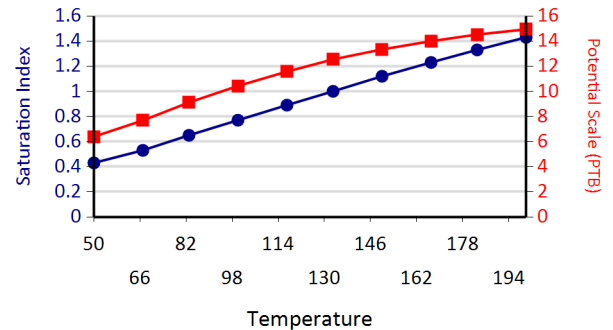
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

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

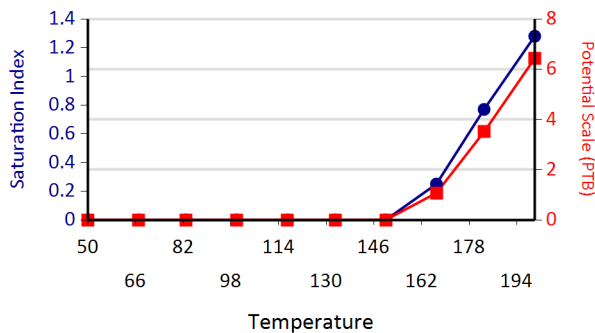
Calcium Carbonate



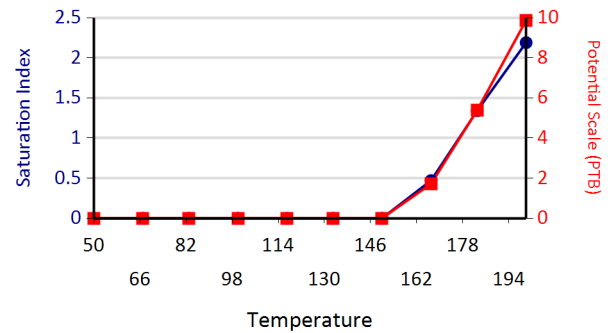
Iron Carbonate



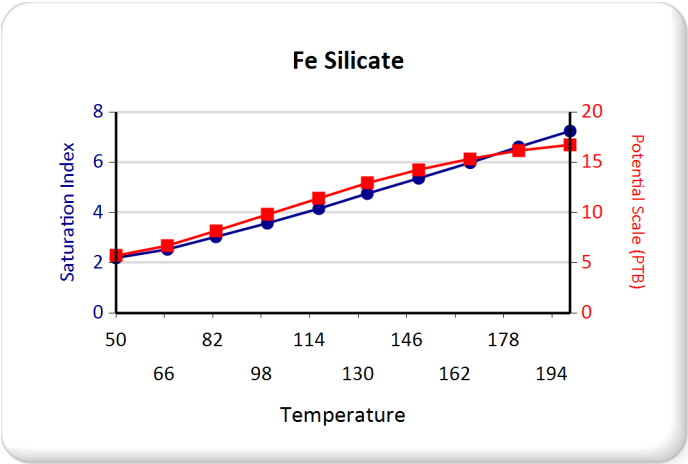
Ca Mg Silicate



Mg Silicate



Water Analysis Report



Application for Authorization to Inject

DJR Operating, LLC

Venado Canyon Unit WDW #1

Part VIII. Geologic Data

The proposed injection interval for the Venado Canyon water disposal well is the Entrada Sandstone at a depth of approximately 7,130 feet to 7,315 feet below ground surface (bgs).

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-00681-11) to the Venado Canyon water disposal well is 1,500 feet away. Well SJ-00681 is located in the NW1/4NE1/4 of Section 11, Township 22 North, Range 6 West. The declaration of owner of underground water right for this well does not give the exact well depth but does note that this is a “shallow (well) within San Juan Underground water basin.” Because this is a shallow well, it can be assumed that the well is hydrologically separated from the Entrada formation by several confining layers, 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. Field verification performed by DJR indicates that the well exists but is not active or able to produce water at this time.

The NMOSE POD dataset also indicates that the closest surface water diversion to the Venado Canyon water disposal well is SD 05187, which is located 31 miles to the north west of the Venado Canyon water disposal well. The National Hydrography Dataset indicates that the closest surface water feature to the Venado Canyon water disposal well is an unnamed arroyo, which is located 270 feet to the south.

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

Formation Tops	TVD
Ojo Alamo	1165
Kirtland	1265
Fruitland	1470
Pictured Cliffs	1665
Lewis	1755
Chacra	2495
Cliff House	3130
Menefee	3185
Point Lookout	3925
Mancos	4065
Gallup	4935
Greenhorn	5895
Dakota	5965
Todilto	7070
Entrada	7130
Total Depth	7315

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

Units of Measurement: Standard

multi-chem

A HALLIBURTON SERVICE

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 ScaleSoftPitzer from
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
Test Date:	11/25/2014	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):	9.30	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)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO ₄ ·2H ₂ O		Celestite SrSO ₄		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	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	0.96	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

		Hemihydrate CaSO ₄ ·0.5H ₂ O		Anhydrite CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	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	25.03	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

RECEIVED

MAR 25 1977

Minerals Management Inc.

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

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.

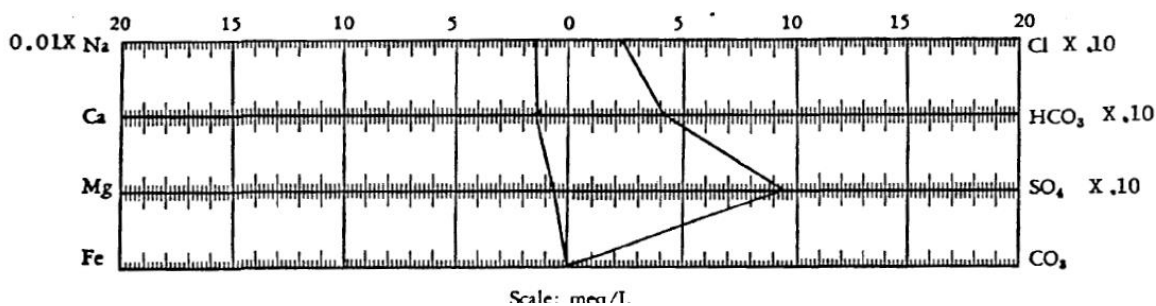
Resistivity 1.0 ohm-meters @ 70 °F.

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:	<u>Dugan Production</u>	Date:	<u>11/10/2005</u>
Submitted by:	<u>Halliburton Energy Services</u>	Date Rec:	<u>11/10/2005</u>
Attention:	<u>Darrin Steed</u>	Report #:	<u>FLMM5A44</u>
Well Name:	<u>Herry Monster #3 SWD</u>	Formation:	<u>Entrada/SWD</u>

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)	5812	Mg / L
Total Dissolved Solids	14408	Mg / L

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

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-00681-11) to the Venado Canyon water disposal well is 1,500 feet away. Well SJ-00681 is located in the NW1/4NE1/4 of Section 11, Township 22 North, Range 6 West.



New Mexico Office of the State Engineer

Water Right Summary



[get image list](#)

WR File Number: SJ 00681 11

Subbasin: SJ

Cross Reference: -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: DCL DECLARATION

Total Acres: 0

Subfile: -

Header: -

Total Diversion: 8

Cause/Case: -

Owner: HOMER C. BERRY

Documents on File



[get images](#)

Trn #	Doc	File/Act	Status	Transaction Desc.	From/To	Acres	Diversion	Consumptive
293497	DCL	1976-12-10	DCL PRC	SJ 00681 11	T	0	8	

Current Points of Diversion

POD Number	Well Tag	Source	Q Q Q	Sec	Tws	Rng	X	Y	Other Location Desc
SJ 00681 11			64	16	4	1 2 11 22N 06W	280879	4004203*	

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

Priority	Status	Acres	Diversion	Pod Number	Source
12/10/1976	DCL	0	8	SJ 00681 11	

Place of Use

Q Q Q Q	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256 64 16 4				0	8		STK		DCL	NO PLACE OF USE GIVEN

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	8		STK		GW



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)					(NAD83 UTM in meters)		
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	SJ 00681 11	1	2	11	22N	06W		280879	4004203*

Driller License:

Driller Company:

Driller Name:

Drill Start Date:

Drill Finish Date:

Plug Date:

Log File Date:

PCW Rev Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

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.

9/13/19 10:41 AM

POINT OF DIVERSION SUMMARY



STATE OF NEW MEXICO
STATE ENGINEER OFFICE
ALBUQUERQUE

S. E. REYNOLDS
STATE ENGINEER

January 15, 1985

DISTRICT 1
2340 MENAUL N.E. SUITE 206
ALBUQUERQUE, N.M. 87107-1884
PHONE: (505) 842-3126
841-6339

Homer C. Berry
Berry Land & Cattle Co.
Box 407
Route 1, Box 80
Dexter, N. M. 88230

Dear Sir:

In response to your letter dated January 6, 1985 and our telephone conversation of January 14, 1985, the following is a list of the water rights recorded in your name in the Albuquerque Office of the State Engineer.

The first column is the State Engineer assign file number. Please use this number in any correspondence when referring to a specific well. The second column is the reported location. Enclosed is a sheet detailing the method used to note the location. The third column is the status of the right. The fourth column is the reported use of the right and the last column is the amount declared, permitted, or applied for.

SJ-0681	25.06.21.4142	declared	stock water	5.00 gpm
SJ-0681(01)	25.06.31.14	declared	stock water	5.00 gpm
SJ-0681(02)	24.07.01.3324	declared	stock water	3.00 gpm
SJ-0681(03)	24.06.09.1113	declared	stock water	3.00 gpm
SJ-0681(04)	24.06.18.3134	declared	stock water	6.00 gpm
SJ-0681(05)	24.07.22.33	declared	stock water	5.00 gpm
SJ-0681(06)	24.07.36.22	declared	stock water	8.00 gpm
SJ-0681(07)	24.07.34.23	declared	stock water	8.00 gpm
SJ-0681(08)	23.06.09.4120	declared	stock water	15.00 gpm
SJ-0681(09)	23.06.29.2143	declared	stock water	5.00 gpm
SJ-0681(10)	23.06.32.44	declared	stock water	5.00 gpm
SJ-0681(11)	22.06.11.21	declared	stock water	5.00 gpm
SJ-0681(12)	25.06.33.4441	declared	stock water	15.00 gpm
SJ-0681(12) Enlgd	25.06.33.4441	application	commercial, irrigation	200.00 ac-ft
SJ-0681(13)	24.06.11.1431	declared	stock water	3.00 gpm
SJ-0681(14)	24.06.24.43	declared	stock water	10.00 gpm
SJ-0681(14) Enlgd	24.06.24.43	application	commercial, irrigation	80.00 ac-ft
SJ-0681(15)	23.06.01.3143	declared	stock water	5.00 gpm
SJ-0681(16)	24.06.07.3444	declared	stock water	15.00 gpm

SJ-0681(17)	24.06.33.4422	declared	stock water	5.00	gpm
SJ-0681(18)	25.06.21.4223	declared	stock water	10.00	gpm
SJ-0681(19)	25.06.28.4242	declared	stock water	15.00	gpm
SJ-0681(20)	24.06.03.4224	declared	stock water	30.00	ac-ft
SJ-0681(21)	24.06.11.34	declared	stock water	15.00	gpm
SJ-0681(22)	24.06.11.4434	declared	stock water	8.00	gpm
SJ-0681(23)	24.06.13.2231	declared	stock water	10.00	gpm
SJ-0681(24)	25.06.11.3232	declared	stock water	3.00	ac-ft
SJ-0681(25)	24.06.13.1223	declared	stock water	3.00	ac-ft
SJ-0681(26)	23.06.07.3444	declared	stock water	3.00	ac-ft
SJ-0681(27)	23.07.13.3221	declared	stock water	3.00	ac-ft
SJ-0681(28)	23.06.35.2224	declared	stock water	3.00	ac-ft
SJ-0681(29)	24.06.12.4343	declared	irrigation	300.00	ac-ft
SJ-0681(30)	24.06.03.2424	declared	irrigation	420.00	ac-ft
SJ-0681(31)	25.06.21.44	declared	commercial, stock water	32.00	ac-ft
SJ-0681(32)	24.06.11.34	declared	commercial, stock water	48.00	ac-ft
SJ-0681(33)	25.06.27.33	declared	commercial, stock water	48.00	ac-ft
SJ-0681(34)	24.06.13.21	declared	commercial, stock water	32.00	ac-ft
SJ-0681(35)	24.06.02.33	declared	commercial, stock water	16.00	ac-ft
SJ-0681(36)	24.06.11.34	declared	commercial, stock water	48.00	ac-ft
SJ-0681(37)	24.07.15.112	declared	stock water	3.00	ac-ft
SJ-0681(38)	24.07.17.241	declared	stock water	3.00	ac-ft
SJ-0681(39)	24.07.18.224	declared	commercial, stock water	86.00	ac-ft
SJ-0681(40)	25.07.30.441	declared	commercial, stock water	48.00	ac-ft
SJ-0681(41)	25.07.33.132	declared	commercial, stock water	32.00	ac-ft
SJ-0681(42)	25.08.25.133	declared	stock water	10.00	ac-ft
SJ-0681(43)	25.07.17.223	declared	stock water	10.00	ac-ft
SJ-0681(44)	25.07.17.222	declared	stock water	10.00	ac-ft
SJ-1131	24.07.19.41	permit	stock water	3.00	ac-ft
SJ-1131-Enlgd	24.07.19.413	application	commercial, stock water	20.00	ac-ft
SJ-1156	23.06.18.122	permit	stock water	3.00	ac-ft
SJ-1156 (1)	23.06.18.122	expired	prospecting	0.00	
SJ-1156 Enlgd	23.06.18.122	expired	industrial	0.00	
SJ-1156 Enlgd(2)	23.06.18.122	application	commercial, irrigation	90.00	ac-ft
LWD-SJ-01-B-158	24.07.21.144	declared	stock tank	10.00	ac-ft
LWD-SJ-01-B-159	24.07.21.322	declared	stock tank	10.00	ac-ft
LWD-SJ-01-B-160	24.07.20.414	declared	stock tank	10.00	ac-ft
LWD-SJ-01-B-161	25.07.17.422	declared	stock tank	10.00	ac-ft
LWD-SJ-01-B-162	25.07.17.421	declared	stock tank	10.00	ac-ft
LWD-SJ-01-B-163	25.07.20.223	declared	stock tank	10.00	ac-ft
LWD-SJ-01-B-164	25.07.18.422	declared	stock tank	10.00	ac-ft
LWD-SJ-01-B-165	25.07.19.433	declared	stock tank	10.00	ac-ft
LWD-SJ-01-B-166	25.07.29.421	declared	stock tank	10.00	ac-ft

If you have any questions or require additional information, please do not hesitate to call or write.

Yours truly,

Ronald J. McBrayer
District 1
cc: file
SEO Santa Fe

6W

002

001

SJ-00681-11

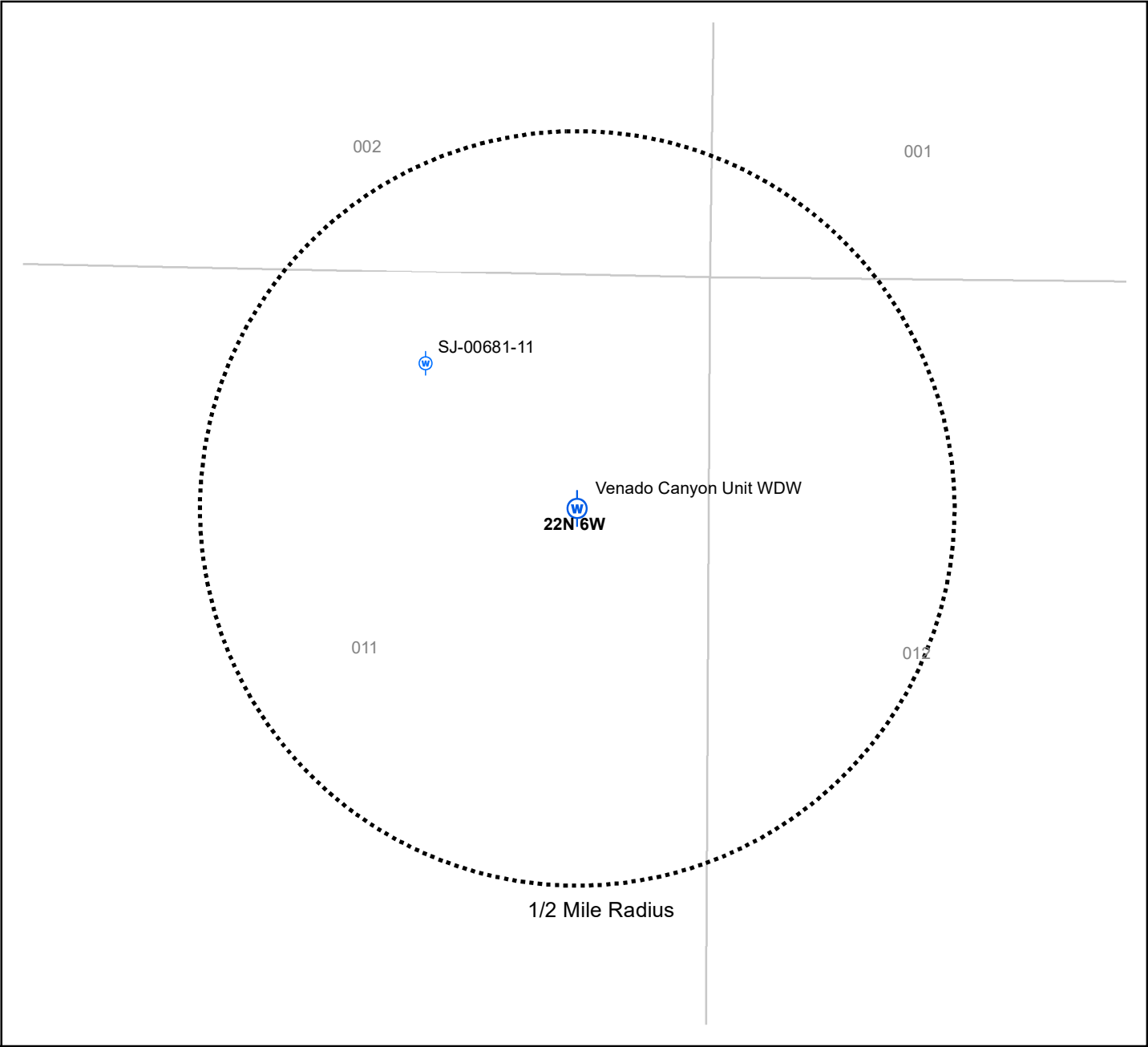
Venado Canyon Unit WDW
22N 6W

011

012

1/2 Mile Radius

22N



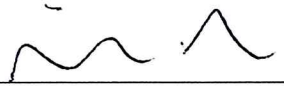
Application for Authorization to Inject

DJR Operating, LLC

Venado Canyon 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

9/19/19

Date

Application for Authorization to Inject

DJR Operating, LLC

Venado Canyon Unit WDW #1

Part XIII. Proof of Notice

Attached are proofs of notice that this application has been sent by certified mail to the surface owner 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 is enclosed showing the legal advertisement which was published in the Rio Grande Sun.

Re: NOTICE OF FORM C-108 APPLICATION)
AUTHORIZATION TO INJECT) SS
VENADO CANYON WDW 1)
SANDOVAL COUNTY, NEW MEXICO)

AFFIDAVIT OF MAILING

STATE OF COLORADO)
CITY & COUNTY OF DENVER) ss

Mona L. Binion, Land Negotiator for DJR Operating, LLC ("DJR") does hereby certify that September 17, 2019, she transmitted the attached notice of the captioned matter by certified mail, return receipt requested, to those parties listed on the Notice List attached.

FURTHER AFFIANT SAYETH NOT

Mona L. Binion

Mona L. Binion
DJR Operating, LLC
1600 North Broadway, Suite 1960
Denver, CO 80202

Subscribed and sworn to before me this 17th day of September, 2019 by Mona L. Binion.

Witness my hand and official seal.

My Commission Expires: March 18, 2022

Stephanie Spurlock
Notary Public for State of Colorado





DELIVERED VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

September 17, 2019

TO OWNERS ON ATTACHED NOTICE LIST

Re: Notice of Application
Form C-108 Authorization to Inject
Venado Canyon WDW #1
Sandoval County, New Mexico

Ladies and Gentlemen:

The purpose of this communication is to provide notice of the referenced application which DJR Operating, LLC ("DJR") intends to submit to New Mexico Oil Conservation Division ("NMOCD") in the near future.

Pursuant to the NMOCD notice requirement associated with this application, please find enclosed a copy of the completed C-108 application to be filed. Any objections or requests for hearing related to this application must be filed with NMOCD within fifteen (15) days from the date of mailing of this notice as noted above.

New Mexico Oil Conservation Division
1200 South St. Francis Drive
Santa Fe, NM 87505

Please do not hesitate to contact Mona Binion (303) 407-7399 or mbinion@djrlc.com if you have any questions regarding this notice.

Regards,

DJR Operating, LLC

A handwritten signature in black ink that reads 'Mona L. Binion'.

Mona L. Binion, CPL
Land Consultant

Encls.

VENADO CANYON UNIT WDW #1

**NOTICE OF APPLICATION
FORM C-108 FOR AUTHORIZATION TO INJECT
AFFIDAVIT OF MAILING**

SURFACE OWNER UNDER WDW LOCATION

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

Bureau of Land Management
6251 College Blvd., Suite A
Farmington, NM 87402
Attention: Joe Kilins

LEASEHOLD OWNERS WITHIN ONE-HALF MILE RADIUS OF WDW LOCATION

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

Enduring Resources IV, LLC
1050 17th Street, Suite 2500
Denver, CO 80265
Attention: Paul Brooke

Merrion Oil & Gas Corporation
610 Reilly Ave
Farmington, NM 87401

Donald Merrion, Jr., Trustee of the
Donald J. Merrion Trust 8/6/1975
5992 S Aberdeen Street
Littleton, CO 80120

Diana Merrion
4213 W 114TH St.
Leawood, KS 66211

Merrion Investment Company
P O Box 6559
Colorado Springs, CO 80934

Lorna R. Harvey
c/o Sam Harvey
601 Horizon Place, Apt 134
Grand Junction CO 81506

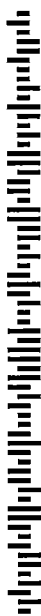
DJR Operating, LLC
1600 Broadway
Ste 1960
Denver CO 80202

USPS CERTIFIED MAIL



9407 1108 9876 5044 3863 61

MERRION OIL & GAS CORPORATION
610 REILLY AVE
FARMINGTON NM 87401



US POSTAGE AND FEES PAID
FIRST-CLASS
Sep 17 2019
Mailed from ZIP 80202
13 oz First-Class Mail Flat Rate



071S00777793

endicia

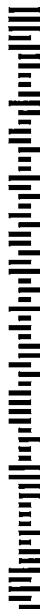
DJR Operating, LLC
1600 Broadway
Ste 1960
Denver CO 80202

USPS CERTIFIED MAIL



9407 1108 9876 5044 3862 31

ENDURING RESOURCES IV LLC
ATTN PAUL BROOKE
1050 17TH ST
STE 2500
DENVER CO 80265



US POSTAGE AND FEES PAID
FIRST-CLASS
Sep 17 2019
Mailed from ZIP 80202
13 oz First-Class Mail Flats Rate



071S00777793

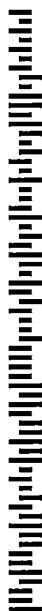
DJR Operating, LLC
1600 Broadway
Ste 1960
Denver CO 80202

USPS CERTIFIED MAIL



9407 1108 9876 5044 3859 75

DUGAN PRODUCTION CORP
ATTN RAMON HANCOCK
PO BOX 420
FARMINGTON NM 87499



US POSTAGE AND FEES PAID
FIRST-CLASS
Sep 17 2019
Mailed from ZIP 80202
13 oz First-Class Mail Flats Rate



071S00777793

DJR Operating, LLC
1600 Broadway
Ste 1960
Denver CO 80202

USPS CERTIFIED MAIL



9407 1108 9876 5044 3857 08

BUREAU OF LAND MANAGEMENT
ATTN JOE KILINS
6251 COLLEGE BLVD
STE A
FARMINGTON NM 87402



US POSTAGE AND FEES PAID
FIRST-CLASS
Sep 17 2019
Mailed from ZIP 80202
13 oz First-Class Mail Flats Rate



071S00777793

DJR Operating, LLC
1600 Broadway
Ste 1960
Denver CO 80202

USPS CERTIFIED MAIL



9407 1108 9876 5044 3854 01

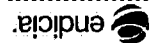
UNITED STATES OF AMERICA
BUREAU OF LAND MANAGEMENT
301 DINOSAUR TRAIL
SANTA FE NM 87508



US POSTAGE AND FEES PAID
FIRST-CLASS
Sep 17 2019
Mailed from ZIP 80202
13 oz First-Class Mail Plus Rate



071S00777793



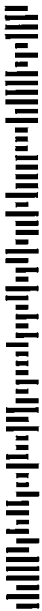
DJR Operating, LLC
1600 Broadway
Ste 1960
Denver CO 80202

USPS CERTIFIED MAIL



9407 1108 9876 5044 3871 08

DONALD MERRION JR, TRUSTEE
DONALD J MERRION TRUST 8/6/1975
5992 S ABERDEEN ST
LITTLETON CO 80120



US POSTAGE AND FEES PAID

FIRST-CLASS

Sep 17 2019

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13 oz First-Class Mail Flats Rate



endicia

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DJR Operating, LLC
1600 Broadway
Ste 1960
Denver CO 80202

USPS CERTIFIED MAIL



9407 1108 9876 5044 3892 25

MERRION INVESTMENT COMPANY
PO BOX 6559
COLORADO SPRINGS CO 80934



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DJR Operating, LLC
1600 Broadway
Ste 1960
Denver CO 80202

USPS CERTIFIED MAIL



9407 1108 9876 5044 3890 72

DIANA MERRION
4213 W 114TH ST
LEAWOOD KS 66211



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DJR Operating, LLC
1600 Broadway
Ste 1960
Denver CO 80202

USPS CERTIFIED MAIL



9407 1108 9876 5044 3893 86

LORNA R HARVEY
C/O SAM HARVEY
601 HORIZON PL
APT 134
GRAND JUNCTION CO 81506



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071S00777793

Affidavit of Publication

State of New Mexico

County of Rio Arriba

I, Robert Trapp, being first duly sworn, declare and say I am the publisher of the Rio Grande SUN, a weekly newspaper published in the English language and having a general circulation in the County of Rio Arriba, State of New Mexico, and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 of the Session Laws of 1937. The publication, a copy of which is hereto attached, was published in said paper once each week for

1 consecutive weeks and on the same day of each week in the regular issue of the paper during the time of publication and the notice was published in the newspaper proper, and not in any supplement. The first publication being on the

12th day of SEPTEMBER 2019

and the last publication on the 12th day of

SEPTEMBER 2019 payment for said advertisement has been duly made, or assessed as court costs. The undersigned has personal knowledge of the matters and things set forth in this affidavit.

Maria V. Salas
Publisher

Subscribed and sworn to before me this 12 day of Sept A.D. 2019

Maria G. Chavez



Maria G. Chavez/Notary Public

My commission expires 21 October 2020

LEGAL NOTICE

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 under-
ground injection. Contact
person is Ningning Li,
Phone 303-407-7390.
The proposed disposal
site is Venado Canyon
Unit WDW #1, located
1647' FNL & 906' FEL,
Sec 11 T22N R6W, San-
doval, Co NM. Water will
be injected into the En-
trada Sandstone between
the depths of approxi-
mately 7130' to 7315' be-
low the surface. Maxim-
um anticipated injection
pressure is 1300 psi.
Maximum injection rate
will be 6000 barrels of wa-
ter per day. Any inter-
ested parties must file ob-
jections or requests for
hearing with the Oil Con-
servation Division, 1220
South Saint Francis Drive,
Santa Fe, NM 87505 with-
in 15 days of the date of
this publication.
(Published in The Rio
Grande Sun on Septem-
ber 12, 2019.)

sher's Bill

one time at 30.40

times at _____

Affidavit 5.00

Subtotal 35.40

Tax 3.16

Total \$38.56

Payment received at Rio Grande SUN

Date SEPTEMBER 12th, 2019

By MAYRA ALDAY