Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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

ADMINISTRATIVE APPLICATION CHECKLIST

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

Applicant: _____ **OGRID Number:** _____
Well Name: _____ **API:** _____
Pool: _____ **Pool Code:** _____

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

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

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

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.

_____ Date

_____ Print or Type Name

_____ Phone Number

Shaw-Marie Ford
_____ Signature

_____ e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance ___X___Disposal _____Storage
Application qualifies for administrative approval? ___X___Yes _____No

II. OPERATOR: Enduring Resources, LLC OGRID: 372286

ADDRESS: 200 Energy Court, Farmington, New Mexico 87401

CONTACT PARTY: Shaw-Marie Ford PHONE: (505) 716-3297

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 ___X___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: Shaw-Marie Ford TITLE: Regulatory Specialist

SIGNATURE: Shaw-Marie Ford DATE: 3/12/2025

E-MAIL ADDRESS: sford@enduringresources.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: File Electronically Via OCD Permitting

Side 2

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.

Side 1

INJECTION WELL DATA SHEET

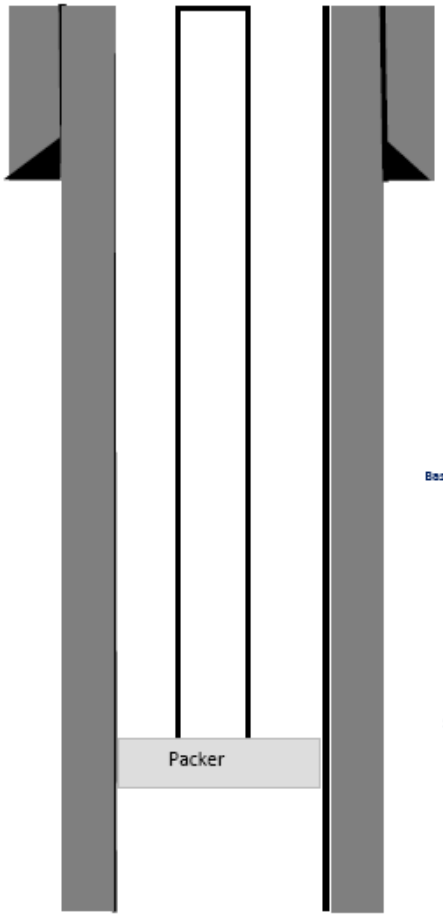
OPERATOR: Enduring Resources, LLC

WELL NAME & NUMBER: S Escavada Unit SWD 001

WELL LOCATION: 2077 FSL x 377 FEL | I | 27 | 22N | 7W

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	319	319
Kirtland	624	624
Fruitland	759	759
Pictured Cliffs	1,084	1,084
Lewis	1,194	1,194
Chacra	1,454	1,454
Cliff House	2,489	2,489
Menefee	2,504	2,504
Point Lookout	3,449	3,449
Mancos	3,574	3,574
MNCS_G	4,534	4,534
Basal Niobrara Unconfomity	4,729	4,729
Juana Lopez	5,029	5,029
Greenhorn Limestone	5,369	5,369
Graneros	5,464	5,464
Dakota	5,519	5,519
Burro Canyon Fm	5,709	5,709
Morrison	5,789	5,789
Bluff Ss Member	6,009	6,009
Salt Wash Basin Member	6,274	6,274
Smallville	6,494	6,494
Todilto	6,559	6,559
Entrada	6,579	6,579
Chinle	6,809	6,809
Rat Hole	0	0
TD	7,159	7,159

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.250 Casing Size: 9.625

Cemented with: 158 sx. *or* 254.4 ft^3

Top of Cement: Surface Method Determined: Circulate to surface

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 8.75 Casing Size: 7.0

Cemented with: 840 sx. *or* 1624.6 ft^3

Top of Cement: Surface Method Determined: Circulate to surface

Total Depth: 7159'

Injection Interval

580' Perforated feet to 6579' - 7159'

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 3.5" 9.3# L80 8RD EUE Lining Material: plastic

Type of Packer: 7" x 4.5" ASI-X 10k nickel coated

Packer Setting Depth: 50' above the upper most perforation

Other Type of Tubing/Casing Seal (if applicable): _____

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 the Injection Formation: Entrada Sandstone

3. Name of Field or Pool (if applicable): Pool Code: 96436 Pool Name: SWD; Entrada

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. n/a

   _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: See attached

   _____

   _____

   _____

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
	96436	SWD: ENTRADA

Property Code	Property Name	Well Number
322151	S ESCAVADA UNIT SWD	1

OGRID No.	Operator Name	Ground Level Elevation
372286	ENDURING RESOURCES, LLC	6754'

Surface Owner: ☐ State ☐ Fee ☒ Tribal ☐ Federal Mineral Owner: ☐ State ☐ Fee ☒ Tribal ☐ Federal

Surface Location (SHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
I	27	22N	7W		2077' SOUTH	377' EAST	36.108398° N	107.555480° W	SANDOVAL

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
I	27	22N	7W		2077' SOUTH	377' EAST	36.108398 N	107.555480 W	SANDOVAL

Dedicated Acres PENETRATED SPACING UNIT;	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
SE/4 SECTION 27 = 160 ACRES				UNIT

Order Numbers: R-14347 Well Setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation

OPERATOR CERTIFICATIONS

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

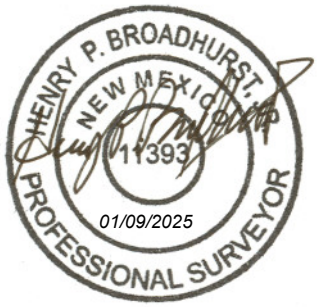
Shaw-Marie Ford — Signature
1/16/2025 — Date

Shaw-Marie Ford — Printed Name

sford@enduringresources.com — E-mail Address

SURVEYOR CERTIFICATIONS

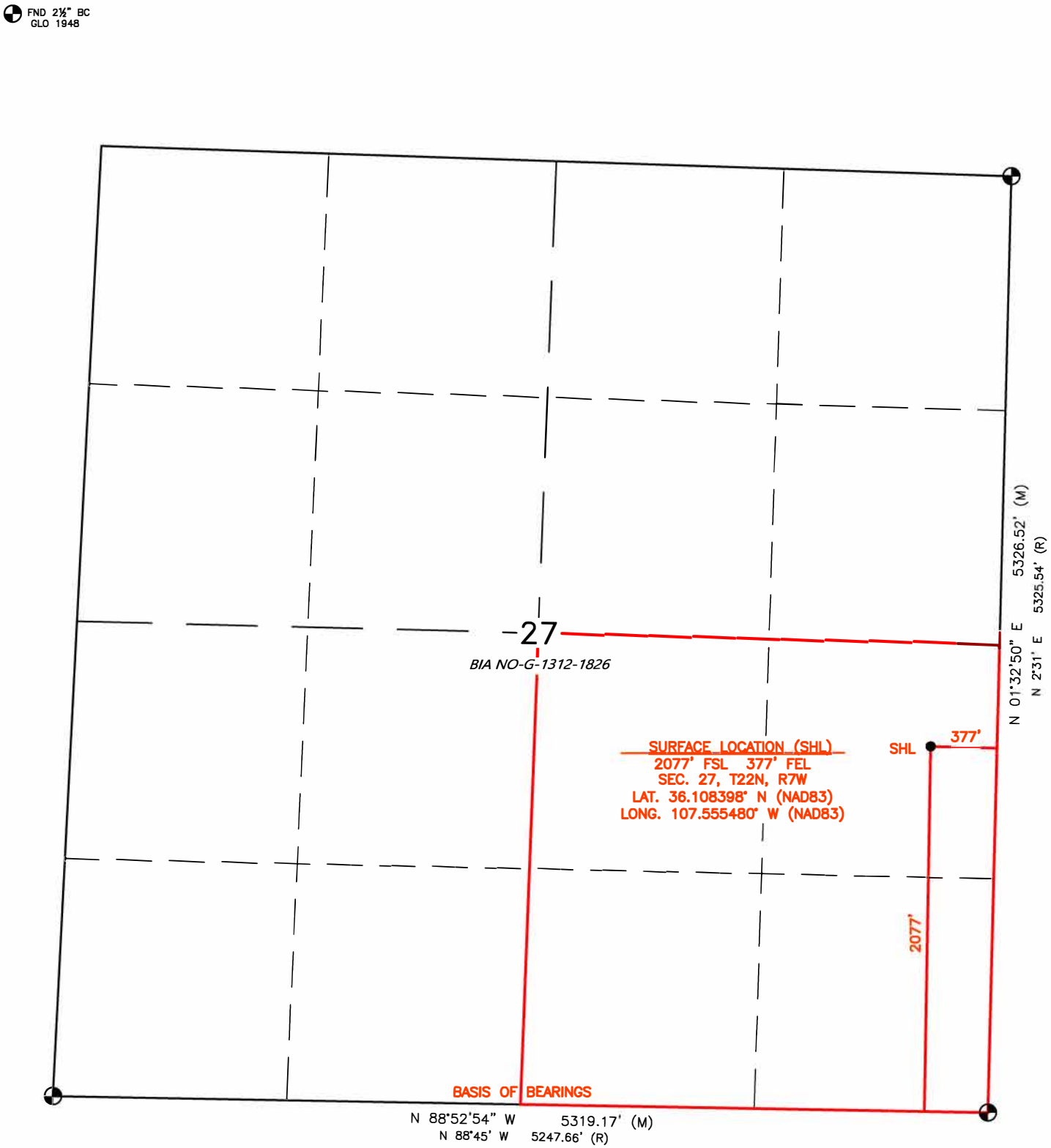
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.



Signature and Seal of Professional Surveyor:

Certificate Number	Date of Survey
11393	AUGUST 30, 2022

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.


FND 2½" BC
GLO 1948
-27
BIA NO-G-1312-1826
SURFACE LOCATION (SHL)
2077' FSL 377' FEL
SEC. 27, T22N, R7W
LAT. 36.108398° N (NAD83)
LONG. 107.555480° W (NAD83)
SHL
377'
2077'
N 01°32'50" E 5326.52' (M)
N 2°31' E 5325.54' (R)
BASIS OF BEARINGS
N 88°52'54" W 5319.17' (M)
N 88°45' W 5247.66' (R)

Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

I. Purpose

Enduring Resources, LLC is hereby making an application for Administrative Approval to dispose of produced water by underground injection. The proposed underground injection site is known as the **S. Escavada Unit SWD #001**

II. Operator Contact

Enduring Resources, LLC (OGRID: 372286)
Shaw-Marie Ford, Regulatory Specialist
200 Energy Court, Farmington, New Mexico 87401
E: sford@enduringresources.com M: (505) 716-3297

III. Well Data

Surface Ownership:
This project is located on public lands managed by the BLM-FFO and Navajo Indian Allotted lands.

Surface location:

2077' FSL & 377' FEL
SE/4 UL I, Sec. 27, T22N, R7W
Latitude: 36.108398˚N Longitude: -107.555480˚W
Lease No. N0G13121826 Unit No. NMNM130812A
Sandoval County, New Mexico.

The proposed injection well is a new drill for the purpose of produced water disposal from wells operated by Enduring Resources, LLC.
Name of formation: Entrada Sandstone
Subsurface depth interval zone: 6579' - 7159'
Thickness of proposed zone: 580'
Proposed average injection pressure will be 800 psi.
Proposed maximum injection pressure of 1,385 psi.
Proposed average injection rate will be 8,000 Bbls/day.
Proposed maximum injection rate of 20,000 Bbls/day.

Surface Casing
Hole size: 12.125". Steel casing size: 9.625" 36 lb J55 STC. Set depth: F/surface – T/500'. Cement: Type I-II, 254 bbls (158sx)14.5 ppg, 1.61 yield, 7.41 gps. TOC: Surface BOC: 500'. Methodology for determining top of cement: Circulates to Surface.

Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

Production Casing
Hole size: 8.75". Steel casing size: 7.0" 26 lb L80 LTC. Set depth: F/surface – T/7159'. Two Stage Cement. LEAD: Type III, 888 bbls (413sx) 12.5 ppg, 2.15 yield, 12.05 gps. TOC: Surface BOC: 3474'. TAIL: Type III, 730 bbls (427sx) 13.5 ppg, 1.71 yield, 8.88 gps. TOC: 3474' BOC: 7159'. Methodology for determining top of cement: Circulates to Surface.

Injection Tubing
4.5" 11.6 lb L80 EUE Internally plastic coated tubing set 50' above the upper most perforation.

Packer
7" x 4.5" ASI-X, 10k nickel coated set 50' above the upper most perforation.

S.Ford 3/13/2025

Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

IV. Existing Project

The proposed S. Escavada Unit SWD #001 injection well is not an expansion of an existing project. A Division Order Number authorizing this SWD has not yet been assigned.

S.Ford 3/13/2025

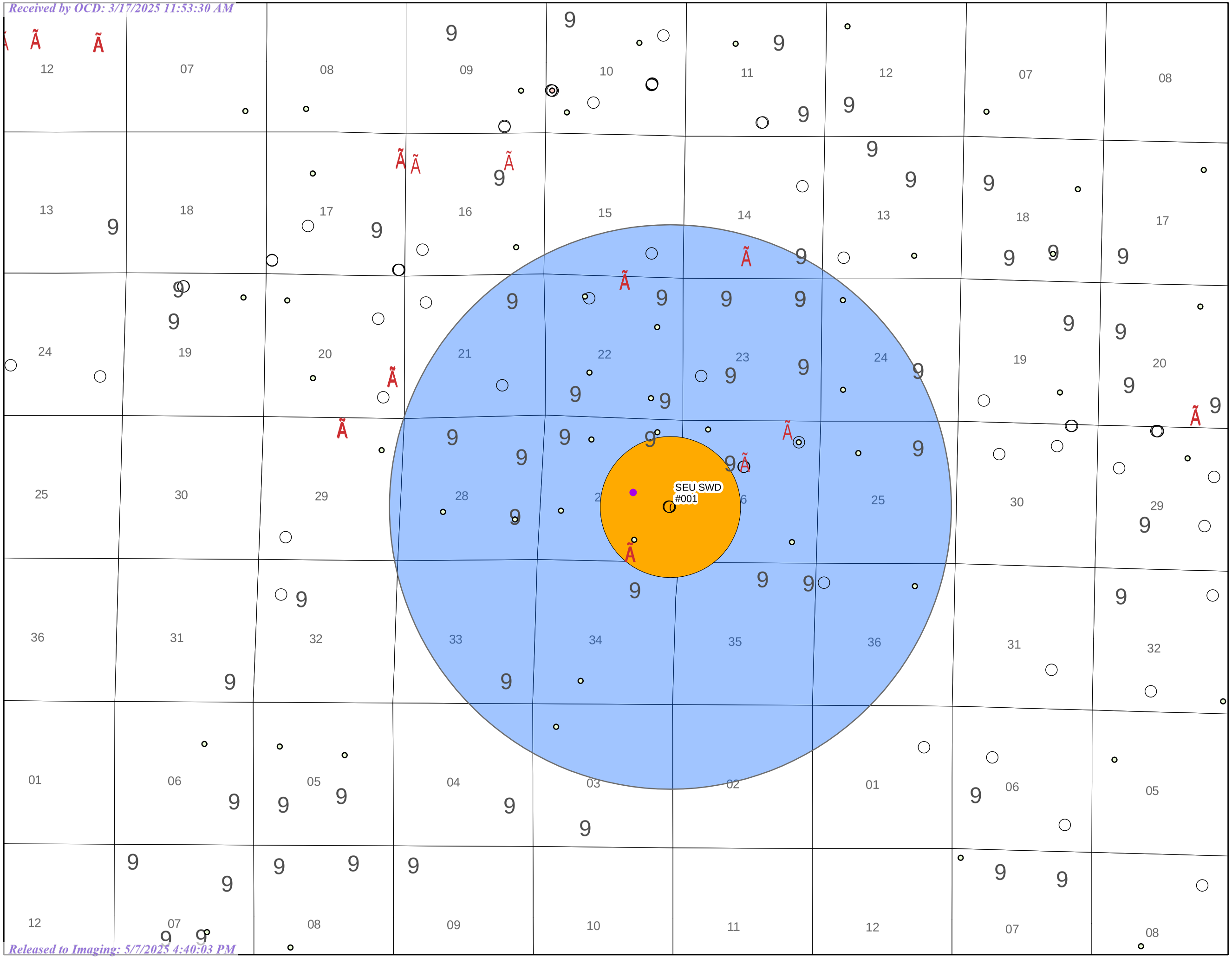
Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

V. Wells and leases within two miles and one-half mile area of review

There are no wells within the ½ mile area of review which penetrate the proposed injection zone.
There is one (1) Pre-Ongard plugged well within the ½ mile radius area of review.
There are three (3) producing wells operated by Enduring within the ½ mile area of review.

There are no wells within the 2-mile radius which penetrate the proposed injection zone.
There are eleven (11) producing wells within the 2-mile radius.
There are nineteen (19) cancelled permits within the 2-mile radius.
There are nine (9) future wells permitted within the 2-mile radius.
There are twenty-one (21) Plugged (site released) wells within the 2-mile radius.

S.Ford 3/13/2025



ENDURING
RESOURCES, LLC

Area of Review
SEU SWD #001

Sourced from data posted to:
NMOCD
IHS

SEU SWD #001

Well Status

- Active
- New
- Plugged (site released)
- Cancelled
- Temporary Abandonment
- 2 Mile Buffer
- 1/2 Mile Buffer

0 ½ 1 2
Miles

Author: David Rogers

API	WELL NAME	TYPE	STATUS	OGRID	OPERATOR NAME	ULSTR	LAT	LONG	direction	year_spudd	MD	TVD	POOL	plug_date	lease_type	last_produ
30-043-20266	PRE-ONGARD WELL #006	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	A-27-22N-07W	36.115238	-107.558037		9999	0	0		5/16/1985	Navajo	12/31/9999
30-043-20517	PRE-ONGARD WELL #3	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	O-27-22N-07W	36.105027	-107.560076		9999	0	0		12/31/9999	Navajo	12/31/9999
30-043-21349	S ESCAVADA UNIT #347H	Oil	Active	372286	ENDURING RESOURCES, LLC	I-27-22N-07W	36.108414	-107.555545	H	2021	13215	4543	[52860] RUSTY GALLUP	12/31/9999	Federal	8/1/2024
30-043-21321	S ESCAVADA UNIT #348H	Oil	New	372286	ENDURING RESOURCES, LLC	O-27-22N-07W	36.103316	-107.560659	H	9999	0	0	[52860] RUSTY GALLUP	12/31/9999	Navajo	12/31/9999
30-043-21322	S ESCAVADA UNIT #349H	Oil	New	372286	ENDURING RESOURCES, LLC	O-27-22N-07W	36.103313	-107.560524	H	9999	0	0	[52860] RUSTY GALLUP	12/31/9999	Navajo	12/31/9999
30-043-21318	S ESCAVADA UNIT #350H	Gas	Active	372286	ENDURING RESOURCES, LLC	I-27-22N-07W	36.108441	-107.555677	H	2021	12972	4533	[52860] RUSTY GALLUP	12/31/9999	Federal	8/1/2024
30-043-21317	S ESCAVADA UNIT #351H	Oil	Active	372286	ENDURING RESOURCES, LLC	I-27-22N-07W	36.108428	-107.555611	H	2021	11697	4652	[52860] RUSTY GALLUP	12/31/9999	Federal	8/1/2024

OCD Permitting

30-043-20266 PRE-ONGARD WELL #006 [30041]

General Well Information

Operator:	[214263] PRE-ONGARD WELL OPERATOR		
Status:	Plugged, Site Released	**Direction:**	
Well Type:	Gas	**Multi-Lateral:**	No
Work Type:	New	**Mineral Owner:**	Navajo
		Surface Owner:	Indian
Surface Location:	A-27-22N-07W 790 FNL 1190 FEL		
Lat/Long:	36.1152382,-107.5580368 NAD83		
GL Elevation:	6731		
KB Elevation:		**Sing/Mult Compl:**	Single
DF Elevation:		**Potash Waiver:**	False

Pre-ONGARD Information

Original Well Name:	RUSTY NAVAJO
Original Operator Name:	CHACE OIL CO INC

Proposed Formation and/or Notes

CHACE OIL CO INC /RUSTY NAVAJO

Depths

Proposed:	0	**True Vertical Depth:**	0
Measured Vertical Depth:	0	**Plugback Measured:**	0

Formation Tops

Formation	Top	Producing	Method Obtained
Pictured Cliffs Formation	836		
Chacra Mesa Member	1440		

Event Dates

Initial APD Approval:	03/18/1977		
Most Recent APD Approval:	03/18/1977	**Current APD Expiration:**	03/18/1979
APD Cancellation:			
APD Extension Approval:			
Spud:		**Gas Capture Plan Received:**	
Approved Temporary Abandonment:		**TA Expiration:**	
Shut In:			
Plug and Abandoned Intent Received:		**PNR Expiration:**	
Well Plugged:	05/16/1985	**Last MIT/BHT:**	
Site Release:			
Last Inspection:			

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
03/18/1977	[30041] PRE-ONGARD WELL	#006	[214263] PRE-ONGARD WELL OPERATOR	New	Gas	Plugged, Site Released		05/16/1985

Quick Links
- General Well Information
- History
- Comments
- Operator
- Pits
- Casing
- Well Completions
- Financial Assurance
- Compliance
- Orders
- Production
- Transporters
- Points of Disposition
- Action Status

Associated Images
- Well Files (8)
- Well Logs (1)
- Well Admin Orders

New Searches
- New Facility Search
- New Incident Search
- New Operator Search
- New Pit Search
- New Spill Search
- New Tank Search
- New Well Search

Pits

No Pits Found

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	Bot of Cem	Top of Cem	Meth	Class of Cement	Sacks	Pressure Test (Y/N)
Surface Casing	1		8.625	0	63		0	0.0	63	0	Circ	Unknown	100	No
Production Casing	1		4.500	0	1893		0	0.0	1893	0	Circ	Unknown	170	No
Tubing 1	1		1.315	0	1580		0	0.0	0	0			0	No

No wellbore schematic illustrating plugging detail on file with the NMOCD.

Well Completions

No Completions Found

Financial Assurance

Effective	Bond Type	Base	Balance	Issuer	Cash/Surety	Cancellation Date
01/01/1900	Blanket	1	1	SEABOARD SURETY CO	Surety	

Requests to release bonds must be submitted in writing. You may send an e-mail to OCD.AdminComp@emnrd.nm.gov.

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.

Orders

No Orders Found

Production / Injection

The production & injection volumes are sourced from monthly production reports (C-115) submissions.

Earliest Production in OCD Records: **Last**

Show All Production Export to Excel

	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

OCD Permitting

30-043-21349 S ESCAVADA UNIT #347H [322151]

General Well Information

Operator:	[372286] ENDURING RESOURCES, LLC		
Status:	Active	**Direction:**	Horizontal
Well Type:	Oil	**Multi-Lateral:**	No
Work Type:	New	**Mineral Owner:**	Federal
		Surface Owner:	Indian
Surface Location:	I-27-22N-07W 2082 FSL 397 FEL		
Lat/Long:	36.108414,-107.555545 NAD83		
GL Elevation:	6749		
KB Elevation:		**Sing/Mult Compl:**	Multiple
DF Elevation:		**Potash Waiver:**	False

Proposed Formation and/or Notes

Depths

Proposed:	4634	**True Vertical Depth:**	4543
Measured Vertical Depth:	13215	**Plugback Measured:**	13121

Formation Tops

Formation	Top	Producing	Method Obtained
Ojo Alamo Formation	527		Outside Source
Kirtland Formation	637		Outside Source
Fruitland Coal	762		Outside Source
Pictured Cliffs Formation	1095		Outside Source
Cliff House Formation	2497		Outside Source
Menefee Formation	2507		Outside Source
Point Lookout Formation	3436		Outside Source
Mancos Formation	3562		Outside Source
Gallup Formation	4517		Outside Source

Event Dates

Initial APD Approval:	08/13/2021		
Most Recent APD Approval:	08/13/2021	**Current APD Expiration:**	08/13/2023
APD Cancellation:			
APD Extension Approval:			
Spud:	10/26/2021	**Gas Capture Plan Received:**	08/13/2021
Approved Temporary Abandonment:		**TA Expiration:**	
Shut In:			
Plug and Abandoned Intent Received:		**PNR Expiration:**	
Well Plugged:		**Last MIT/BHT:**	10/08/2024
Site Release:			
Last Inspection:	10/08/2024		

Quick Links
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- Financial Assurance
- Compliance
- Natural Gas Venting & Flaring
- Orders
- Production
- Transporters
- Points of Disposition
- Action Status

Associated Images
- Well Files (9)
- Well Logs (0)
- Well Admin Orders

New Searches
- New Facility Search
- New Incident Search
- New Operator Search
- New Pit Search
- New Spill Search
- New Tank Search
- New Well Search

08/13/2021	[322151] S ESCAVADA UNIT	#347H	[372286] ENDURING RESOURCES, LLC	New	Oil	Active		

Comments

Pits

No Pits Found

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	Bot of Cem	Top of Cem	Meth	Class of Cement	Sacks	Pressure Test (Y/N)
Hole 1	1	10/26/2021	17.500	0	384		0	0.0	0	0			0	No
Surface Casing	1		13.375	0	384	J-55	384	54.5	384	0	Circ	Unknown	350	Yes
Hole 2	1	12/21/2021	12.250	384	2822		0	0.0	0	0			0	No
Intermediate 1 Casing	1		9.625	0	2822	J-55	2822	36.0	2822	0	Circ	Unknown	684	Yes
Hole 3	1	01/06/2022	8.500	2822	13215		0	0.0	0	0			0	No
Production Casing	1		5.500	0	13215	P-110	13215	17.0	13215	3910	Theory	Class G Cement	1464	Yes
Tubing 1	1		2.875	0	5175	L-80	5175	6.5	0	0			0	No

Well Completions

[52860] RUSTY GALLUP

Status: Active
Last Produced: 12/01/2024
Bottomhole Location: O-28-22N-07W 416 FSL 2615 FEL
Lat/Long: 36.104078,-107.581186 NAD83
Acreage: 240 27-22N-07W Units: M N O P
28-22N-07W Units: O P
DHC: No
Consolidation Code: Unitization
Production Method: Flowing

Well Test Data

Production Test: 03/26/2022
Test Length: 24 hours
Flowing Tubing Pressure: 289 psi
Flowing Casing Pressure: 1125 psi
Choke Size: 1.000 inches
Testing Method: Flowing
Gas Volume: 233.0 MCF
Oil Volume: 260.0 bbls
Gas-Oil Ratio: 896 Kcf / bbl
Oil Gravity: 0.0 Corr. API
Disposition of Gas: Sold
Water Volume: 1686.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)	Top Vertical Depth	Bottom Vertical Depth
01/19/2022	5480	13116	0	0

Notes

TD Reached:	01/13/2022	**DHC:**	
Deviation Report Received:	No	**Rig Released:**	01/14/2022
Directional Survey Run:	Yes	**Logs Received:**	No
Directional Survey Received:	Yes	**Closure Pit Plat Received:**	
First Oil Production:	03/26/2022	**First Gas Production:**	03/24/2022
First Injection:		**Completion Report Received:**	
Ready to Produce:	03/20/2022		
C-104 Approval:	03/18/2022	**New Well C-104 Approval:**	03/20/2024
Plug Back:			
Authorization Revoked Start:		**Revoked Until:**	

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
03/20/2022	[322151] S ESCAVADA UNIT	#347H	[372286] ENDURING RESOURCES, LLC	Active	
02/20/2022	[322151] S ESCAVADA UNIT	#347H	[372286] ENDURING RESOURCES, LLC	Active	
08/13/2021	[322151] S ESCAVADA UNIT	#347H	[372286] ENDURING RESOURCES, 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	

Requests to release bonds must be submitted in writing. You may send an e-mail to OCD.AdminComp@emnrd.nm.gov.

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.

cTV2428260442

Violation Source:	Field Inspection		
Date of Violation:	10/08/2024		
Compliance Required:	01/06/2025	**Resolved:**	11/06/2024

Notes

Fluid around the wellhead that needs to be removed. 11/6/2024 Received photos of corrective action, fluids have been removed from around the wellhead.

Actions/Events

Event Date	Category	Type
10/08/2024	Notifications	Pre Enforcement Notification

Upstream Natural Gas Venting & Flaring

The upstream natural gas venting & flaring volumes are sourced from upstream natural gas waste reports (C-115B) submissions.

Earliest Natural Gas Waste Report in OCD Records: 10/2021 **Last:** 01/2025

Show All Upstream Venting & Flaring

	Venting & Flaring Volumes			Beneficial Use	
	Vented (MCF)	Flared (MCF)	Total (MCF)		Used (MCF)
2021	3	0	3		0

2023	11	0	11		0
2024	0	0	0		152
2025	0	0	0		0
Grand Total:	25	0	25		152

Orders

C106-899-0

Applicant: [372286] ENDURING RESOURCES, LLC
Contact: Heather Huntington
Reviewer: Dean McClure
Approved By:
Issuing Office: Santa Fe

Processing Dates

Received: 02/12/2021
Approved: 11/18/2021
Expiration:
Ordered: 03/23/2021
Denied:
Cancelled:

Order Pools

Pool	Gas Percent	Oil Percent
[52860] RUSTY GALLUP	0	0

Production / Injection

The production & injection volumes are sourced from monthly production reports (C-115) submissions.

Earliest Production in OCD Records: 3/2022 **Last** 12/2024

Show All Production Export to Excel

	Production				Injection				
Time Frame	Oil (BBLS)	Gas (MCF)	Water (BBLS)	Days P/I	Water (BBLS)	Co2 (MCF)	Gas (MCF)	Other	Pressure
2022	42,416	251,529	112,347	306	0	0	0	0	N/A
2023	19,431	93,550	60,443	365	0	0	0	0	N/A
2024	11,317	53,313	31,266	366	0	0	0	0	N/A
Grand Total:	73,164	398,392	204,056	1,037	0	0	0	0	N/A

Transporters

Transporter	Product	Most Recent for Property
[25244] WILLAMS FOUR CORNERS, LLC	Gas	12/2024
[248440] WESTERN REFINING COMPANY, L.P.	Gas	12/2024
[248440] WESTERN REFINING COMPANY, L.P.	Oil	12/2024

Points of Disposition

ID	Type	Description	Pool(s)
4038045	Gas	S ESCAVADA UNIT #347H	[52860] RUSTY GALLUP
4038044	Oil	S ESCAVADA UNIT #347H	[52860] RUSTY GALLUP

Received by OCD: 3/17/2025 11:53:30 AM

Released to Imaging: 3/20/2024 1:55:24 PM
Received by OCD: 8/17/2022 3:59:43 PM

WELL NAME: S ESCAVADA UNIT 347H

OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-H formation

API Number: *30-043-21349*

AFE Number: *DV03062*

ER Well Number: *NM08262.01*

State: New Mexico

County: Sandoval

Surface Elev.:	6,749	ft ASL (GL)	6,777	ft ASL (KB)		
Surface Location:	27-22N-07W	Sec-Twn- Rng	2,082	ft FSL	397	ft FEL
BH Location:	28-22N-07W	Sec-Twn- Rng	408	ft FSL	2524	ft FEL

Driving Directions: **FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:**

South on US Hwy 550 for 48.9 miles to MM 103; Right (South) on Atkins Road for 3.2 miles to fork; Left (South) continuing on Atkins Road for 1.1 miles to 4-way intersection; Straight (south) for 1.6 miles to 4-way intersection; Straight (South) for 1.9 miles to fork; Left (South) for 0.4 miles to fork; Right (South) for 0.3 miles to S Escavada Unit 350H access road; Left (South) along 350H access road for 0.7 miles to S Escavada Unit 350H Pad (Wells: 347H, 350H & 351H).

QUICK REFERENCE		
Sur TD (MD)	350	ft
Int TD (MD)	2,813	ft
KOP (MD)	4,307	ft
KOP (TVD)	3,918	ft
Target (TVD)	4,604	ft
Curve BUR	10	°/100 ft
POE (MD)	5,422	ft
TD (MD)	13,154	ft
Lat Len (ft)	7,732	ft

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	2,813	9.625	36.0	J-55	LTC	0	2,813
Production	8.500	13,154	5.500	17.0	P-110	LTC	0	13,154

CEMENT PROPERTIES SUMMARY:

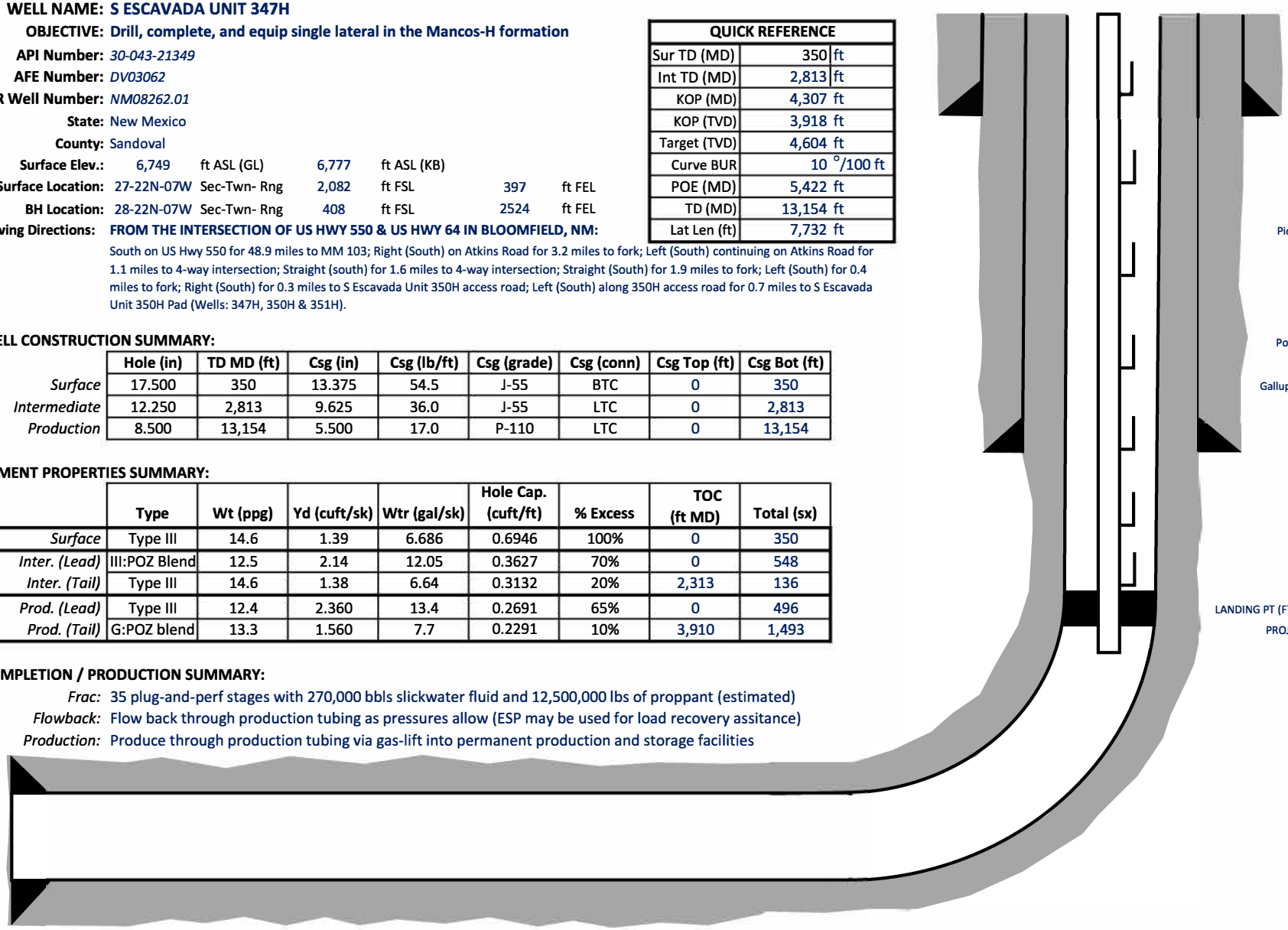
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	Type III	14.6	1.39	6.686	0.6946	100%	0	350
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.3627	70%	0	548
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,313	136
Prod. (Lead)	Type III	12.4	2.360	13.4	0.2691	65%	0	496
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	3,910	1,493

COMPLETION / PRODUCTION SUMMARY:

Frac: 35 plug-and-perf stages with 270,000 bbls slickwater fluid and 12,500,000 lbs of proppant (estimated)

Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance)

Production: Produce through production tubing via gas-lift into permanent production and storage facilities



Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	527	527
Kirtland	637	637
Fruitland	762	763
Pictured Cliffs	1,095	1,105
Lewis	1,192	1,208
Chacra	1,459	1,504
Cliff House	2,497	2,687
Menefee	2,507	2,699
Point Lookout	3,457	3,781
Mancos	3,570	3,910
Gallup (MNCS_A)	3,887	4,271
MNCS_B	3,997	4,395
MNCS_C	4,087	4,494
MNCS_Cms	4,127	4,538
MNCS_D	4,267	4,699
MNCS_E	4,407	4,885
MNCS_F	4,455	4,962
MNCS_G	4,520	5,087
MNCS_H	4,582	5,250
LANDING PT (FTP) TARGET	4,604	5,422
PROJECTED LTP	4,547	13,154

Released to Imaging: 5/7/2025 4:40:03 PM

OCD Permitting

30-043-21318 S ESCAVADA UNIT #350H [322151]

General Well Information

Operator:	[372286] ENDURING RESOURCES, LLC		
Status:	Active	**Direction:**	Horizontal
Well Type:	Gas	**Multi-Lateral:**	No
Work Type:	New	**Mineral Owner:**	Federal
		Surface Owner:	Navajo
Surface Location:	I-27-22N-07W 2091 FSL 436 FEL		
Lat/Long:	36.108441,-107.555677 NAD83		
GL Elevation:	6749		
KB Elevation:		**Sing/Mult Compl:**	Single
DF Elevation:		**Potash Waiver:**	False

Proposed Formation and/or Notes

RUSTY GALLUP/HD 104 DS/PLAT

Depths

Proposed:	12903	**True Vertical Depth:**	4533
Measured Vertical Depth:	12972	**Plugback Measured:**	12862

Formation Tops

Formation	Top	Producing	Method Obtained
Ojo Alamo Formation	527		Outside Source
Kirtland Formation	637		Outside Source
Fruitland Formation	762		Outside Source
Pictured Cliffs Formation	1095		Outside Source
Cliff House Formation	2497		Outside Source
Menefee Formation	2507		Outside Source
Point Lookout Formation	3462		Outside Source
Mancos Formation	3578		Outside Source
Gallup Formation	4540		Outside Source

Event Dates

Initial APD Approval:	07/20/2018		
Most Recent APD Approval:	07/20/2018	**Current APD Expiration:**	05/09/2022
APD Cancellation:			
APD Extension Approval:			
Spud:	11/14/2021	**Gas Capture Plan Received:**	05/16/2018
Approved Temporary Abandonment:		**TA Expiration:**	
Shut In:			
Plug and Abandoned Intent Received:		**PNR Expiration:**	
Well Plugged:		**Last MIT/BHT:**	10/08/2024
Site Release:			
Last Inspection:	10/08/2024		

Quick Links
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- Financial Assurance
- Compliance
- Natural Gas Venting & Flaring
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- Transporters
- Points of Disposition
- Action Status

Associated Images
- Well Files (14)
- Well Logs (0)
- Well Admin Orders

New Searches
- New Facility Search
- New Incident Search
- New Operator Search
- New Pit Search
- New Spill Search
- New Tank Search
- New Well Search

07/20/2018	[322151] S ESCAVADA UNIT	#350H	[372286] ENDURING RESOURCES, LLC	New	Gas	Active		

Comments

2-24-20 Change of Plans-BHL,POE,directional,drilling,casing change
Added on 03/11/2020 by Amy Vermersch

3-11-20 Change of Plans; BHL,POE,directional,drilling,casing change
Added on 04/01/2020 by Amy Vermersch

Pits

No Pits Found

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	Bot of Cem	Top of Cem	Meth	Class of Cement	Sacks	Pressure Test (Y/N)
Hole 1	1	11/14/2021	17.500	0	360		0	0.0	0	0			0	No
Surface Casing	1		13.375	0	360	J-55	360	54.5	360	0	Circ	Unknown	350	Yes
Hole 2	1	12/19/2021	12.250	360	2736		0	0.0	0	0			0	No
Intermediate 1 Casing	1		9.625	0	2736	J-55	2736	36.0	2736	0	Circ	Unknown	670	Yes
Hole 3	1	12/24/2021	8.500	2736	12978		0	0.0	0	0			0	No
Production Casing	1		5.500	0	12972	P-110	12972	17.0	12972	0	Circ	Unknown	1949	Yes
Tubing 1	1	03/21/2022	2.875	0	4919	L-80	4919	0.0	0	0			0	No

Well Completions

[52860] RUSTY GALLUP

Status: Active
Last Produced: 12/01/2024
Bottomhole Location: K-28-22N-07W 1850 FSL 2622 FEL
Lat/Long: 36.108019,-107.580993 NAD83
Acreage: 240 28-22N-07W Units: I J
27-22N-07W Units: I J K L
DHC: No
Consolidation Code: Unitization
Production Method: Flowing

Well Test Data

Production Test: 03/26/2022
Test Length: 24 hours
Flowing Tubing Pressure: 310 psi
Flowing Casing Pressure: 1120 psi
Choke Size: 1.000 inches
Testing Method: Flowing
Gas Volume: 880.0 MCF
Oil Volume: 210.0 bbls
Gas-Oil Ratio: 4190 Kcf / bbl
Oil Gravity: 0.0 Corr. API
Disposition of Gas: Sold
Water Volume: 1203.0 bbls

Perforations

Notes

Event Dates

Initial Effective/Approval:	07/20/2018		
Most Recent Approval:	03/20/2022	**TA Expiration:**	
Confidential Requested On:		**Confidential Until:**	
Test Allowable Approval:	03/18/2022	**Test Allowable End:**	
TD Reached:	12/29/2021	**DHC:**	
Deviation Report Received:	No	**Rig Released:**	12/30/2021
Directional Survey Run:	Yes	**Logs Received:**	No
Directional Survey Received:	Yes	**Closure Pit Plat Received:**	
First Oil Production:	03/26/2022	**First Gas Production:**	03/25/2022
First Injection:		**Completion Report Received:**	
Ready to Produce:	03/20/2022	**New Well C-104 Approval:**	03/21/2024
C-104 Approval:	03/18/2022		
Plug Back:			
Authorization Revoked Start:		**Revoked Until:**	

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
03/20/2022	[322151] S ESCAVADA UNIT	#350H	[372286] ENDURING RESOURCES, LLC	Active	
02/20/2022	[322151] S ESCAVADA UNIT	#350H	[372286] ENDURING RESOURCES, LLC	Active	
03/11/2020	[322151] S ESCAVADA UNIT	#350H	[372286] ENDURING RESOURCES, LLC	New, Not Drilled	
02/24/2020	[322151] S ESCAVADA UNIT	#350H	[372286] ENDURING RESOURCES, LLC	New, Not Drilled	
07/20/2018	[322151] S ESCAVADA UNIT	#350H	[372286] ENDURING RESOURCES, 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	

Requests to release bonds must be submitted in writing. You may send an e-mail to OCD.AdminComp@emnrd.nm.gov.

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.

cTV2428260374

Violation Source:	Field Inspection		
Date of Violation:	10/08/2024		
Compliance Required:	01/06/2025	**Resolved:**	11/06/2024

Notes

Fluid around wellhead needs to be removed. 11/6/2024 Received photos of corrective action, fluids have been removed from around the wellhead.

Actions/Events

Event Date	Category	Type
10/08/2024	Notifications	Pre Enforcement Notification

cTV2428260375

Actions/Events

Event Date	Category	Type
10/08/2024	Notifications	Pre Enforcement Notification

Upstream Natural Gas Venting & Flaring

The upstream natural gas venting & flaring volumes are sourced from upstream natural gas waste reports (C-115B) submissions.

Earliest Natural Gas Waste Report in OCD Records: 10/2021 **Last:** 01/2025

Show All Upstream Venting & Flaring

	Venting & Flaring Volumes			Beneficial Use	
	Vented (MCF)	Flared (MCF)	Total (MCF)		Used (MCF)
2021	3	0	3		0
2022	186	0	186		0
2023	11	0	11		0
2024	3	0	3		122
2025	0	0	0		0
Grand Total:	203	0	203		122

Orders

C106-899-0

Applicant: [372286] ENDURING RESOURCES, LLC
Contact: Heather Huntington
Reviewer: Dean McClure
Approved By:
Issuing Office: Santa Fe

Processing Dates

Received: 02/12/2021
Approved: 11/18/2021
Expiration:
Ordered: 03/23/2021
Denied:
Cancelled:

Order Pools

Pool	Gas Percent	Oil Percent
[52860] RUSTY GALLUP	0	0

Production / Injection

The production & injection volumes are sourced from monthly production reports (C-115) submissions.

Earliest Production in OCD Records: 3/2022 **Last** 12/2024

Show All Production Export to Excel

	Production				Injection				
Time Frame	Oil (BBLS)	Gas (MCF)	Water (BBLS)	Days P/I	Water (BBLS)	Co2 (MCF)	Gas (MCF)	Other	Pressure
2022	37,458	219,759	114,173	306	0	0	0	0	N/A
2023	16,194	77,330	51,016	365	0	0	0	0	N/A
2024	14,502	33,624	34,017	366	0	0	0	0	N/A
Grand Total:	68,154	330,713	199,206	1,037	0	0	0	0	N/A

[248440] WESTERN REFINING COMPANY, L.P.	Gas	12/2024
[248440] WESTERN REFINING COMPANY, L.P.	Oil	12/2024

Points of Disposition

ID	Type	Description	Pool(s)
4038049	Gas	S ESCAVADA UNIT #350H	[52860] RUSTY GALLUP
4038048	Oil	S ESCAVADA UNIT #350H	[52860] RUSTY GALLUP

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012
1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

Released to Imaging: 3/21/2024 2:14:51 PM
Received by OCD: 8/17/2022 3:39:15 PM

WELL NAME: S ESCAVADA UNIT 350H
OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-H formation
API Number: *30-043-21318*
AFE Number: *DV03063*
ER Well Number: *NM08099.01*
State: New Mexico
County: Sandoval

Surface Elev.:	6,749	ft ASL (GL)	6,777	ft ASL (KB)		
Surface Location:	27-22N-07W	Sec-Twn- Rng	2,091	ft FSL	436	ft FEL
BH Location:	28-22N-07W	Sec-Twn- Rng	1857	ft FSL	2530	ft FEL

Driving Directions: **FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:**
South on US Hwy 550 for 48.9 miles to MM 103; Right (South) on Atkins Road for 3.2 miles to fork; Left (South) continuing on Atkins Road for 1.1 miles to 4-way intersection; Straight (south) for 1.6 miles to 4-way intersection; Straight (South) for 1.9 miles to fork; Left (South) for 0.4 miles to fork; Right (South) for 0.3 miles to S Escavada Unit 350H access road; Left (South) along 350H access road for 0.7 miles to S Escavada Unit 350H Pad (Wells: 347H, 350H & 351H).

QUICK REFERENCE		
Sur TD (MD)	350	ft
Int TD (MD)	2,713	ft
KOP (MD)	4,208	ft
KOP (TVD)	4,019	ft
Target (TVD)	4,622	ft
Curve BUR	10	°/100 ft
POE (MD)	5,172	ft
TD (MD)	12,873	ft
Lat Len (ft)	7,701	ft

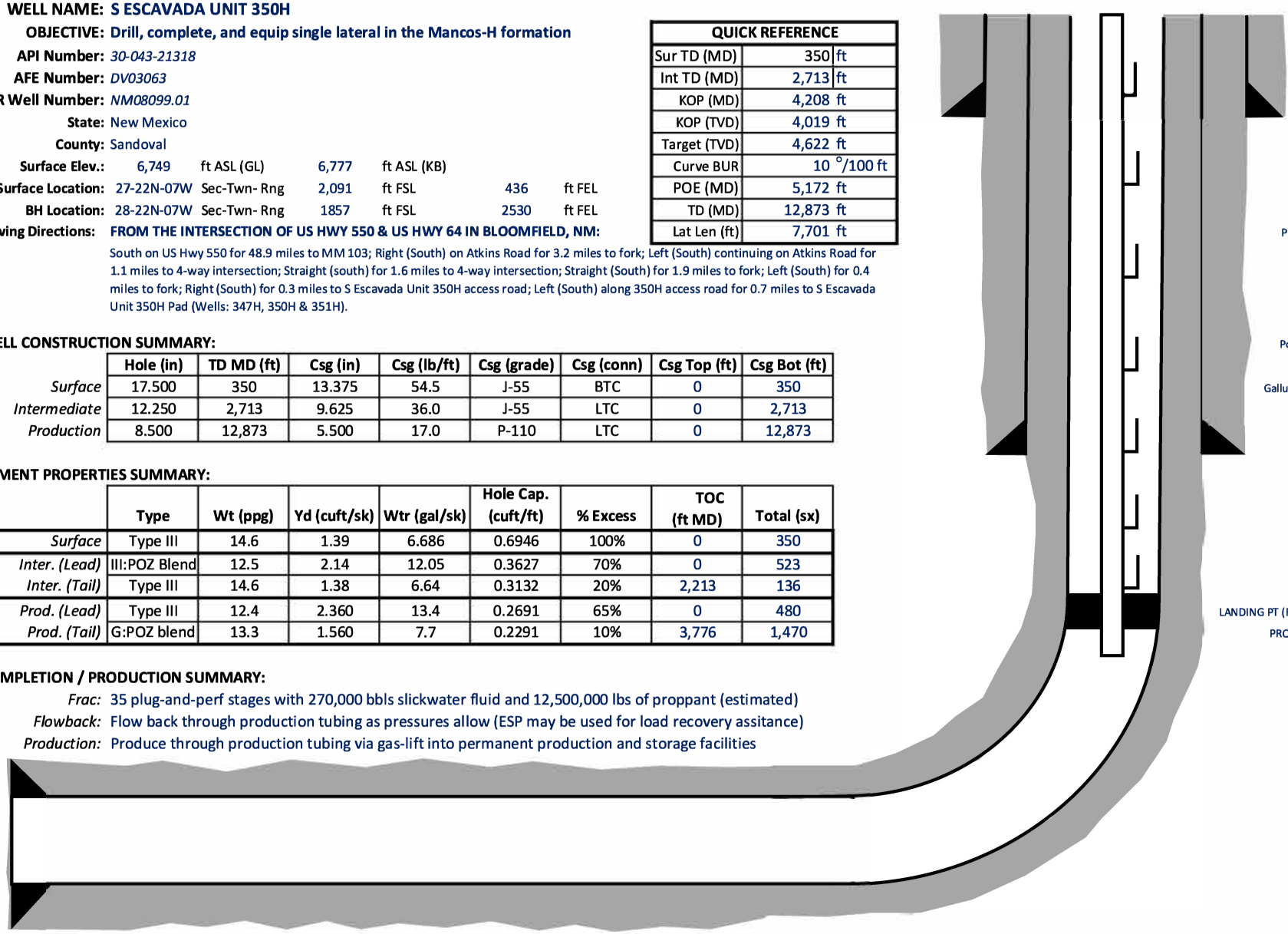
WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	2,713	9.625	36.0	J-55	LTC	0	2,713
Production	8.500	12,873	5.500	17.0	P-110	LTC	0	12,873

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	Type III	14.6	1.39	6.686	0.6946	100%	0	350
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.3627	70%	0	523
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,213	136
Prod. (Lead)	Type III	12.4	2.360	13.4	0.2691	65%	0	480
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	3,776	1,470

COMPLETION / PRODUCTION SUMMARY:
Frac: 35 plug-and-perf stages with 270,000 bbls slickwater fluid and 12,500,000 lbs of proppant (estimated)
Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance)
Production: Produce through production tubing via gas-lift into permanent production and storage facilities



Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	527	527
Kirtland	637	637
Fruitland	762	762
Pictured Cliffs	1,095	1,095
Lewis	1,192	1,192
Chacra	1,459	1,464
Cliff House	2,497	2,592
Menefee	2,507	2,603
Point Lookout	3,457	3,639
Mancos	3,590	3,776
Gallup (MNCS_A)	3,904	4,093
MNCS_B	4,015	4,204
MNCS_C	4,105	4,294
MNCS_Cms	4,149	4,339
MNCS_D	4,287	4,487
MNCS_E	4,425	4,659
MNCS_F	4,472	4,730
MNCS_G	4,537	4,851
MNCS_H	4,600	5,008
LANDING PT (FTP) TARGET	4,622	5,172
PROJECTED LTP	4,567	12,873

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OCD Permitting

30-043-21317 S ESCAVADA UNIT #351H [322151]

General Well Information

Operator:	[372286] ENDURING RESOURCES, LLC		
Status:	Active	**Direction:**	Horizontal
Well Type:	Oil	**Multi-Lateral:**	No
Work Type:	New	**Mineral Owner:**	Federal
		Surface Owner:	Navajo
Surface Location:	I-27-22N-07W 2087 FSL 417 FEL		
Lat/Long:	36.108428,-107.555611 NAD83		
GL Elevation:	6749		
KB Elevation:		**Sing/Mult Compl:**	Single
DF Elevation:		**Potash Waiver:**	False

Proposed Formation and/or Notes

RUSTY GALLUP/HD 104 FOR DS/PLAT

Depths

Proposed:	11638	**True Vertical Depth:**	4652
Measured Vertical Depth:	11697	**Plugback Measured:**	11586

Formation Tops

Formation	Top	Producing	Method Obtained
Ojo Alamo Formation	451		Outside Source
Kirtland Formation	663		Outside Source
Pictured Cliffs Formation	1126		Outside Source
Lewis Formation	1164		Outside Source
Chacra Mesa Member	1442		Outside Source
Cliff House Formation	2554		Outside Source
Menefee Formation	2577		Outside Source
Point Lookout Formation	3384		Outside Source
Mancos Formation	3615		Outside Source
Gallup Formation	3933		Outside Source

Event Dates

Initial APD Approval:	07/20/2018		
Most Recent APD Approval:	07/20/2018	**Current APD Expiration:**	05/09/2022
APD Cancellation:			
APD Extension Approval:			
Spud:	11/11/2021	**Gas Capture Plan Received:**	05/22/2018
Approved Temporary Abandonment:		**TA Expiration:**	
Shut In:			
Plug and Abandoned Intent Received:		**PNR Expiration:**	
Well Plugged:		**Last MIT/BHT:**	10/08/2024
Site Release:			
Last Inspection:	10/08/2024		

Quick Links
- General Well Information
- History
- Comments
- Operator
- Pits
- Casing
- Well Completions
- Financial Assurance
- Compliance
- Natural Gas Venting & Flaring
- Orders
- Production
- Transporters
- Points of Disposition
- Action Status

Associated Images
- Well Files (15)
- Well Logs (0)
- Well Admin Orders

New Searches
- New Facility Search
- New Incident Search
- New Operator Search
- New Pit Search
- New Spill Search
- New Tank Search
- New Well Search

07/20/2018	[322151] S ESCAVADA UNIT	#351H	[372286] ENDURING RESOURCES, LLC	New	Oil	Active		

Comments

2-24-20 Change of plans-BHL,POE, directional,drilling, casing change
Added on 03/11/2020 by Amy Vermersch

3-11-20 Change of Plans; BHL, POE, Drilling, Casing, Directional
Added on 04/01/2020 by Amy Vermersch

Pits

No Pits Found

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	Bot of Cem	Top of Cem	Meth	Class of Cement	Sacks	Pressure Test (Y/N)
Hole 1	1	11/11/2021	17.500	0	366		0	0.0	0	0			0	No
Surface Casing	1		13.375	0	366	J-55	366	54.5	366	0	Circ	Unknown	350	Yes
Hole 2	1	12/20/2021	12.250	366	2660		0	0.0	0	0			0	No
Intermediate 1 Casing	1		9.625	0	2660	J-55	2660	36.0	2660	0	Circ	Unknown	670	Yes
Hole 3	1	12/30/2021	8.500	2660	11697		0	0.0	0	0			0	No
Production Casing	1		5.500	0	11697	P-110	11697	17.0	11697	3660	Theory	Class G Cement	1464	Yes
Tubing 1	1		2.875	0	4818	L-80	4818	6.5	4818	0			0	No

Well Completions

[52860] RUSTY GALLUP

Status: Active
Last Produced: 12/01/2024
Bottomhole Location: L-22-22N-07W 1625 FSL 176 FWL
Lat/Long: 36.122282,-107.57077 NAD83
Acreage: 320 27-22N-07W Units: B C G H I
22-22N-07W Units: L M N
DHC: No
Consolidation Code: Unitization
Production Method:

Well Test Data

Production Test: 03/26/2022
Test Length: 24 hours
Flowing Tubing Pressure: 289 psi
Flowing Casing Pressure: 564 psi
Choke Size: 1.000 inches
Testing Method: Flowing
Gas Volume: 447.0 MCF
Oil Volume: 232.0 bbls
Gas-Oil Ratio: 1927 Kcf / bbl
Oil Gravity: 0.0 Corr. API
Disposition of Gas: Sold
Water Volume: 447.0 bbls

Perforations

Notes

Event Dates

Initial Effective/Approval:	07/20/2018		
Most Recent Approval:	03/20/2022	**TA Expiration:**	
Confidential Requested On:		**Confidential Until:**	
Test Allowable Approval:	03/18/2022	**Test Allowable End:**	
TD Reached:	01/06/2022	**DHC:**	
Deviation Report Received:	No	**Rig Released:**	01/06/2022
Directional Survey Run:	Yes	**Logs Received:**	No
Directional Survey Received:	Yes	**Closure Pit Plat Received:**	
First Oil Production:	03/26/2022	**First Gas Production:**	03/25/2022
First Injection:		**Completion Report Received:**	03/30/2023
Ready to Produce:	03/20/2022	**New Well C-104 Approval:**	03/24/2023
C-104 Approval:	03/18/2022		
Plug Back:			
Authorization Revoked Start:		**Revoked Until:**	

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
03/20/2022	[322151] S ESCAVADA UNIT	#351H	[372286] ENDURING RESOURCES, LLC	Active	
02/20/2022	[322151] S ESCAVADA UNIT	#351H	[372286] ENDURING RESOURCES, LLC	Active	
03/11/2020	[322151] S ESCAVADA UNIT	#351H	[372286] ENDURING RESOURCES, LLC	New, Not Drilled	
02/24/2020	[322151] S ESCAVADA UNIT	#351H	[372286] ENDURING RESOURCES, LLC	New, Not Drilled	
07/20/2018	[322151] S ESCAVADA UNIT	#351H	[372286] ENDURING RESOURCES, 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	

Requests to release bonds must be submitted in writing. You may send an e-mail to OCD.AdminComp@emnrd.nm.gov.

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.

cTV2428260421

Violation Source:	Field Inspection		
Date of Violation:	10/08/2024		
Compliance Required:	01/06/2025	**Resolved:**	

Notes

Fluid around wellhead needs to be removed.

Actions/Events

Event Date	Category	Type
10/08/2024	Notifications	Pre Enforcement Notification

	Vented (MCF)	Flared (MCF)	Total (MCF)		Used (MCF)
2021	7	0	7		0
2022	2,105	0	2,105		0
2023	1,644	8	1,652		0
2024	5	0	5		147
2025	0	0	0		0
Grand Total:	3,761	8	3,769		147

Orders

C106-899-0

Applicant: [372286] ENDURING RESOURCES, LLC
Contact: Heather Huntington
Reviewer: Dean McClure
Approved By:
Issuing Office: Santa Fe

Processing Dates

Received: 02/12/2021
Approved: 11/18/2021
Expiration:
Ordered: 03/23/2021
Denied:
Cancelled:

Order Pools

Pool	Gas Percent	Oil Percent
[52860] RUSTY GALLUP	0	0

Production / Injection

The production & injection volumes are sourced from monthly production reports (C-115) submissions.

Earliest Production in OCD Records: 3/2022 **Last** 12/2024

Show All Production Export to Excel

	Production				Injection				
Time Frame	Oil (BBLS)	Gas (MCF)	Water (BBLS)	Days P/I	Water (BBLS)	Co2 (MCF)	Gas (MCF)	Other	Pressure
2022	46,952	143,967	77,357	306	0	0	0	0	N/A
2023	30,839	90,079	47,030	365	0	0	0	0	N/A
2024	18,159	47,167	31,709	366	0	0	0	0	N/A
Grand Total:	95,950	281,213	156,096	1,037	0	0	0	0	N/A

Transporters

Transporter	Product	Most Recent for Property
[25244] WILLAMS FOUR CORNERS, LLC	Gas	12/2024
[248440] WESTERN REFINING COMPANY, L.P.	Gas	12/2024
[248440] WESTERN REFINING COMPANY, L.P.	Oil	12/2024

4038052	Oil	S ESCAVADA UNIT #351H	[52860] RUSTY GALLUP

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012
1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

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WELL NAME: S ESCAVADA UNIT 351H
OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-H formation
API Number: *30-043-21317*
AFE Number: *DV03064*
ER Well Number: *NM08100.01*
State: New Mexico
County: Sandoval
Surface Elev.: 6,749 ft ASL (GL) 6,777 ft ASL (KB)
Surface Location: 27-22N-07W Sec-Twn- Rng 2,087 ft FSL 417 ft FEL
BH Location: 22-22N-07W Sec-Twn- Rng 1520 ft FSL 250 ft FWL
Driving Directions: **FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:**

South on US Hwy 550 for 48.9 miles to MM 103; Right (South) on Atkins Road for 3.2 miles to fork; Left (South) continuing on Atkins Road for 1.1 miles to 4-way intersection; Straight (south) for 1.6 miles to 4-way intersection; Straight (South) for 1.9 miles to fork; Left (South) for 0.4 miles to fork; Right (South) for 0.3 miles to S Escavada Unit 350H access road; Left (South) along 350H access road for 0.7 miles to S Escavada Unit 350H Pad (Wells: 350H & 351H).

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	2,648 ft
KOP (MD)	4,092 ft
KOP (TVD)	4,022 ft
Target (TVD)	4,625 ft
Curve BUR	10 °/100 ft
POE (MD)	5,049 ft
TD (MD)	11,623 ft
Lat Len (ft)	6,574 ft

WELL CONSTRUCTION SUMMARY:

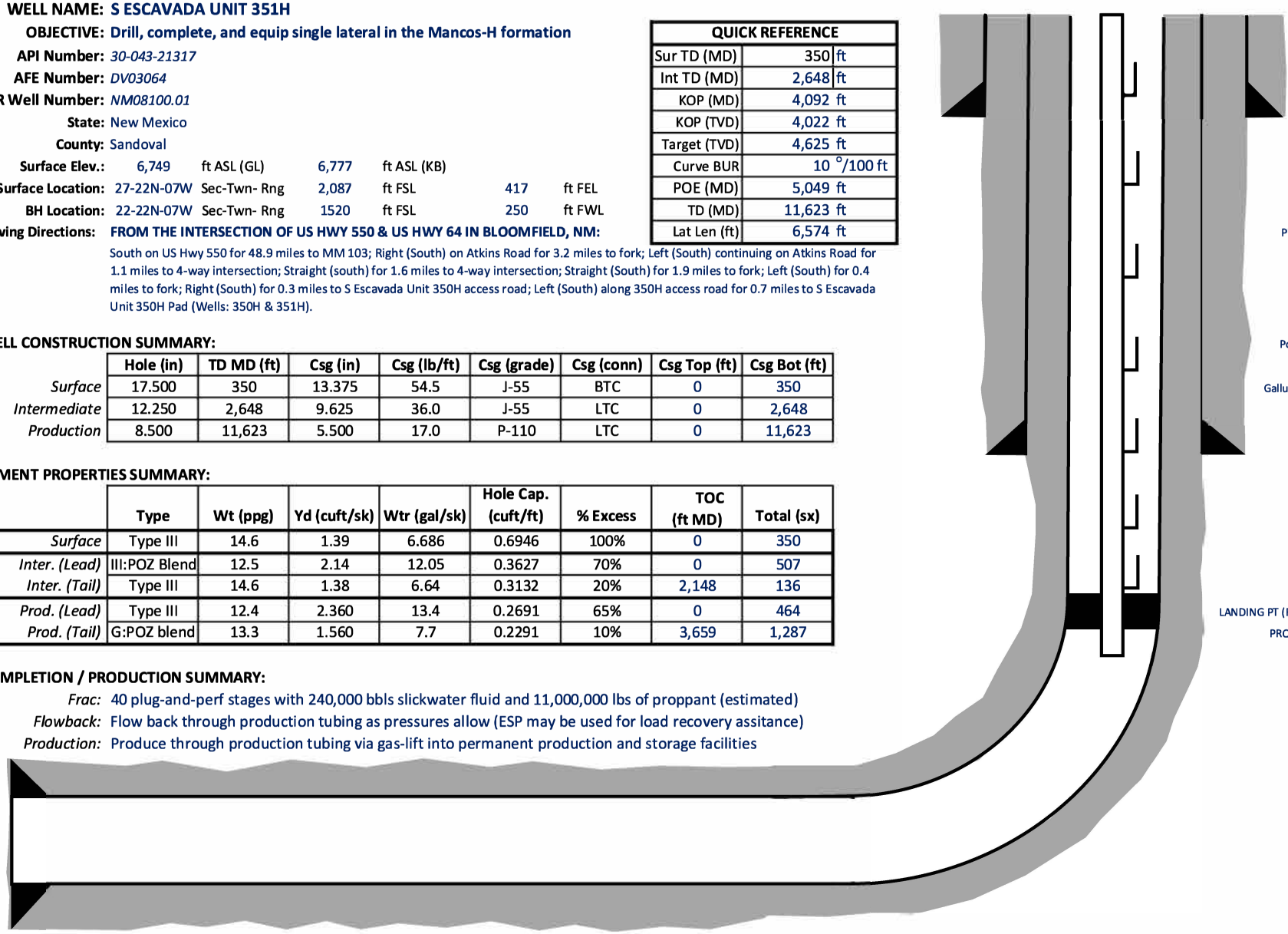
	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	2,648	9.625	36.0	J-55	LTC	0	2,648
Production	8.500	11,623	5.500	17.0	P-110	LTC	0	11,623

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	Type III	14.6	1.39	6.686	0.6946	100%	0	350
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.3627	70%	0	507
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,148	136
Prod. (Lead)	Type III	12.4	2.360	13.4	0.2691	65%	0	464
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	3,659	1,287

COMPLETION / PRODUCTION SUMMARY:

Frac: 40 plug-and-perf stages with 240,000 bbls slickwater fluid and 11,000,000 lbs of proppant (estimated)
Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance)
Production: Produce through production tubing via gas-lift into permanent production and storage facilities



Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	527	527
Kirtland	637	637
Fruitland	762	762
Pictured Cliffs	1,095	1,097
Lewis	1,192	1,196
Chacra	1,459	1,470
Cliff House	2,497	2,535
Menefee	2,507	2,546
Point Lookout	3,457	3,520
Mancos	3,592	3,659
Gallup (MNCS_A)	3,910	3,980
MNCS_B	4,020	4,090
MNCS_C	4,110	4,180
MNCS_Cms	4,154	4,225
MNCS_D	4,292	4,373
MNCS_E	4,430	4,546
MNCS_F	4,472	4,610
MNCS_G	4,540	4,736
MNCS_H	4,605	4,900
LANDING PT (FTP) TARGET	4,625	5,049
PROJECTED LTP	4,657	11,623

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Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

VI. Tabulation of Data on Wells

S.Ford 3/13/2025

API	WELL NAME	TYPE	STATUS	OGRID	OPERATOR NAME	ULSTR	LAT	LONG	direction	year_spudd	MD	TVD	POOL	plug_date	lease_type	last_produ
30-043-20309	CHACRA #002	Gas	Active	6515	DUGAN PRODUCTION CORP	O-21-22N-07W	36.120903	-107.576866	V	1977	2004	2004	[84360] RUSTY CHACRA (GAS)	12/31/9999	Federal	8/1/2024
30-043-20281	DOME FEDERAL 15-22-7 #001	Gas	Active	6515	DUGAN PRODUCTION CORP	P-15-22N-07W	36.134457	-107.557861	V	1979	1950	1950	[84360] RUSTY CHACRA (GAS)	12/31/9999	Federal	8/1/2024
30-043-20542	DOME TESERO 22 #004	Oil	Active	6515	DUGAN PRODUCTION CORP	C-22-22N-07W	36.129852	-107.565804	V	1981	5000	5000	[52860] RUSTY GALLUP	12/31/9999	Navajo	8/1/2024
30-043-20506	DOME TESERO 23 #001	Oil	Active	6515	DUGAN PRODUCTION CORP	L-23-22N-07W	36.121857	-107.551552	V	1980	4800	4800	[52860] RUSTY GALLUP	12/31/9999	Navajo	8/1/2024
30-043-20515	DOME TESERO 27 #003	Oil	Plugged (site released)	6515	DUGAN PRODUCTION CORP	D-27-22N-07W	36.115463	-107.568901	V	1980	5000	5000	[52860] RUSTY GALLUP	5/18/2023	Navajo	5/1/2023
30-043-20398	FEDERAL 25-22-7 #001	Gas	Plugged (site released)	6515	DUGAN PRODUCTION CORP	B-25-22N-07W	36.114285	-107.523956	V	1978	1770	1770	[84360] RUSTY CHACRA (GAS)	8/16/2024	Federal	5/1/2023
30-043-20363	FEDERAL 26-22-7 #001	Gas	Active	6515	DUGAN PRODUCTION CORP	A-26-22N-07W	36.115048	-107.539124	V	1978	1820	1820	[84360] RUSTY CHACRA (GAS)	12/31/9999	Federal	8/1/2024
30-043-20282	NAVAJO 21-22-7 #001	Gas	Plugged (site released)	6515	DUGAN PRODUCTION CORP	A-21-22N-07W	36.129421	-107.575577	V	1978	1882	1882	[84360] RUSTY CHACRA (GAS)	12/17/2001	Navajo	6/1/1998
30-043-21512	S ESCAVADA UNIT #337H	Oil	New	372286	ENDURING RESOURCES, LLC	B-22-22N-07W	36.131251	-107.561330	H	9999	0	0	[52860] RUSTY GALLUP	12/31/9999	Indian	12/31/9999
30-043-21515	S ESCAVADA UNIT #343H	Oil	New	372286	ENDURING RESOURCES, LLC	N-14-22N-07W	36.133763	-107.545837	H	9999	0	0	[52860] RUSTY GALLUP	12/31/9999	Indian	12/31/9999
30-043-21516	S ESCAVADA UNIT #344H	Oil	New	372286	ENDURING RESOURCES, LLC	N-14-22N-07W	36.133708	-107.545838	H	9999	0	0	[52860] RUSTY GALLUP	12/31/9999	Indian	12/31/9999
30-043-21513	S ESCAVADA UNIT #345H	Oil	New	372286	ENDURING RESOURCES, LLC	B-22-22N-07W	36.131324	-107.561229	H	9999	0	0	[52860] RUSTY GALLUP	12/31/9999	Indian	12/31/9999
30-043-21514	S ESCAVADA UNIT #346H	Oil	New	372286	ENDURING RESOURCES, LLC	B-22-22N-07W	36.131287	-107.561279	H	9999	0	0	[52860] RUSTY GALLUP	12/31/9999	Indian	12/31/9999
30-043-21349	S ESCAVADA UNIT #347H	Oil	Active	372286	ENDURING RESOURCES, LLC	I-27-22N-07W	36.108414	-107.555545	H	2021	13215	4543	[52860] RUSTY GALLUP	12/31/9999	Federal	8/1/2024
30-043-21321	S ESCAVADA UNIT #348H	Oil	New	372286	ENDURING RESOURCES, LLC	O-27-22N-07W	36.103316	-107.560659	H	9999	0	0	[52860] RUSTY GALLUP	12/31/9999	Navajo	12/31/9999
30-043-21322	S ESCAVADA UNIT #349H	Oil	New	372286	ENDURING RESOURCES, LLC	O-27-22N-07W	36.103313	-107.560524	H	9999	0	0	[52860] RUSTY GALLUP	12/31/9999	Navajo	12/31/9999
30-043-21318	S ESCAVADA UNIT #350H	Gas	Active	372286	ENDURING RESOURCES, LLC	I-27-22N-07W	36.108441	-107.555677	H	2021	12972	4533	[52860] RUSTY GALLUP	12/31/9999	Federal	8/1/2024
30-043-21317	S ESCAVADA UNIT #351H	Oil	Active	372286	ENDURING RESOURCES, LLC	I-27-22N-07W	36.108428	-107.555611	H	2021	11697	4652	[52860] RUSTY GALLUP	12/31/9999	Federal	8/1/2024
30-043-21323	S ESCAVADA UNIT #352H	Oil	Active	372286	ENDURING RESOURCES, LLC	F-26-22N-07W	36.112549	-107.546094	H	2018	11962	4741	[52860] RUSTY GALLUP	12/31/9999	Navajo	8/1/2024
30-043-21320	S ESCAVADA UNIT #353H	Oil	Active	372286	ENDURING RESOURCES, LLC	F-26-22N-07W	36.112535	-107.546159	H	2018	11051	4735	[52860] RUSTY GALLUP	12/31/9999	Navajo	8/1/2024
30-043-21319	S ESCAVADA UNIT #354H	Oil	New	372286	ENDURING RESOURCES, LLC	F-26-22N-07W	36.112563	-107.546028	H	9999	0	0	[52860] RUSTY GALLUP	12/31/9999	Navajo	12/31/9999
30-043-21324	S ESCAVADA UNIT #355H	Oil	New	372286	ENDURING RESOURCES, LLC	A-26-22N-07W	36.115891	-107.540586	H	9999	0	0	[52860] RUSTY GALLUP	12/31/9999	Federal	12/31/9999
30-043-21308	STATE 2207 36D #193H	Oil	Active	372286	ENDURING RESOURCES, LLC	D-36-22N-07W	36.100619	-107.535935	H	2017	6435	4864	[98231] WC 22N7W36: GALLUP (O)	12/31/9999	State	8/1/2024
30-043-20171	RUSTY FEDERAL #003	Gas	Plugged (site released)	13673	M & M PRODUCTION & OPERATION	P-14-22N-07W	36.134022	-107.538841	V	1975	3697	3697	[84360] RUSTY CHACRA (GAS)	1/19/2024	Federal	9/1/2017
30-043-20359	PRE-ONGARD WELL #001	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	P-33-22N-07W	36.090332	-107.576370	V	1978	0	115	[96928] WC D3, PICTURED CLIFFS	9/15/1979	Federal	12/31/9999
30-043-20285	PRE-ONGARD WELL #001	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	H-28-22N-07W	36.113380	-107.574387	V	1978	0	1800	[84360] RUSTY CHACRA (GAS)	6/16/1978	Federal	12/31/9999
30-043-20491	PRE-ONGARD WELL #001	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	B-34-22N-07W	36.099693	-107.559990	V	1980	0	1879	[84360] RUSTY CHACRA (GAS)	7/24/1985	Federal	12/31/9999
30-043-20492	PRE-ONGARD WELL #001	Oil	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	P-22-22N-07W	36.119164	-107.556130	V	1980	0	4930	[52860] RUSTY GALLUP	9/13/1988	Navajo	12/31/9999
30-043-20205	PRE-ONGARD WELL #001	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	A-23-22N-07W	36.129658	-107.538918		9999	0	0		5/16/1985	Navajo	12/31/9999
30-043-20201	PRE-ONGARD WELL #001	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	A-23-22N-07W	36.129631	-107.538918		9999	0	0		2/5/1976	Navajo	12/31/9999
30-043-05150	PRE-ONGARD WELL #001	Oil	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	I-23-22N-07W	36.122650	-107.538536	V	1957	0	5975	[96894] WC D3, GALLUP	3/10/1964	Federal	12/31/9999
30-043-20315	PRE-ONGARD WELL #002	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	C-28-22N-07W	36.115429	-107.583199		9999	0	0		12/5/2001	Federal	12/31/9999
30-043-20485	PRE-ONGARD WELL #002	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	I-28-22N-07W	36.107239	-107.575218	V	1980	0	1835	[84360] RUSTY CHACRA (GAS)	7/26/1985	Navajo	12/31/9999
30-043-20203	PRE-ONGARD WELL #002	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	C-23-22N-07W	36.129665	-107.548332	V	1976	0	2004	[84360] RUSTY CHACRA (GAS)	5/16/1985	Navajo	12/31/9999
30-043-05146	PRE-ONGARD WELL #002	Oil	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	B-35-22N-07W	36.100815	-107.543709	V	1957	0	5905	[96894] WC D3, GALLUP	2/26/1970	Federal	12/31/9999
30-043-20219	PRE-ONGARD WELL #003	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	K-23-22N-07W	36.121784	-107.547798	V	1976	0	1808	[84360] RUSTY CHACRA (GAS)	4/16/1985	Navajo	12/31/9999
30-043-20241	PRE-ONGARD WELL #004	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	F-26-22N-07W	36.112728	-107.547882	V	1976	0	1808	[84360] RUSTY CHACRA (GAS)	4/16/1985	Navajo	12/31/9999
30-043-20252	PRE-ONGARD WELL #005	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	A-22-22N-07W	36.129780	-107.556557		9999	0	0		4/16/1985	Navajo	12/31/9999
30-043-20266	PRE-ONGARD WELL #006	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	A-27-22N-07W	36.115238	-107.558037		9999	0	0		5/16/1985	Navajo	12/31/9999
30-043-20264	PRE-ONGARD WELL #007	Gas	Plugged (site released)	214263	PRE-ONGARD WELL OPERATOR	M-22-22N-07W	36.119873	-107.567551	V	1977	0	2015	[84360] RUSTY CHACRA (GAS)	4/16/1985	Navajo	12/31/9999
30-043-20399	PRE-ONGARD WELL #1	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	K-28-22N-07W	36.107896	-107.584398		9999	0	0		12/31/9999	Federal	12/31/9999
30-043-20411	PRE-ONGARD WELL #1	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	I-28-22N-07W	36.107115	-107.575249		9999	0	0		12/31/9999	Navajo	12/31/9999
30-043-20381	PRE-ONGARD WELL #1	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	D-03-21N-07W	36.085804	-107.570008		9999	0	0		12/31/9999	Federal	12/31/9999
30-043-20516	PRE-ONGARD WELL #1	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	L-27-22N-07W	36.108019	-107.569393		9999	0	0		12/31/9999	Navajo	12/31/9999
30-043-20546	PRE-ONGARD WELL #1	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	A-27-22N-07W	36.116080	-107.557129		9999	0	0		12/31/9999	Navajo	12/31/9999
30-043-20283	PRE-ONGARD WELL #1	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	A-26-22N-07W	36.115050	-107.539141		9999	0	0		12/31/9999	Federal	12/31/9999
30-043-20278	PRE-ONGARD WELL #1	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	D-24-22N-07W	36.129653	-107.533525		9999	0	0		12/31/9999	Navajo	12/31/9999
30-043-20410	PRE-ONGARD WELL #1	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	C-25-22N-07W	36.113935	-107.531562		9999	0	0		12/31/9999	Federal	12/31/9999
30-043-20401	PRE-ONGARD WELL #1	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	B-36-22N-07W	36.100262	-107.524370		9999	0	0		12/31/9999	State	12/31/9999
30-043-20514	PRE-ONGARD WELL #2	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	C-22-22N-07W	36.130031	-107.566340		9999	0	0		12/31/9999	Navajo	12/31/9999
30-043-20544	PRE-ONGARD WELL #2	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	K-22-22N-07W	36.122214	-107.565772		9999	0	0		12/31/9999	Navajo	12/31/9999
30-043-20534	PRE-ONGARD WELL #2	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	C-27-22N-07W	36.115335	-107.565519		9999	0	0		12/31/9999	Navajo	12/31/9999
30-043-20284	PRE-ONGARD WELL #2	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	P-26-22N-07W	36.104785	-107.540008		9999	0	0		12/31/9999	Federal	12/31/9999
30-043-20517	PRE-ONGARD WELL #3	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	O-27-22N-07W	36.105027	-107.560076		9999	0	0		12/31/9999	Navajo	12/31/9999

API	WELL NAME	TYPE	STATUS	OGRID	OPERATOR NAME	ULSTR	LAT	LONG	direction	year_spudd	MD	TVD	POOL	plug_date	lease_type	last_produ
30-043-20543	PRE-ONGARD WELL #3	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	H-22-22N-07W	36.126884	-107.557150		9999	0	0		12/31/9999	Federal	12/31/9999
30-043-20310	PRE-ONGARD WELL #3	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	M-24-22N-07W	36.120447	-107.533503		9999	0	0		12/31/9999	Federal	12/31/9999
30-043-20265	PRE-ONGARD WELL #8	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	P-22-22N-07W	36.119581	-107.557941		9999	0	0		12/31/9999	Navajo	12/31/9999
30-043-20545	PRE-ONGARD WELL #A	Gas	Cancelled	214263	PRE-ONGARD WELL OPERATOR	D-26-22N-07W	36.116365	-107.550677		9999	0	0		12/31/9999	Navajo	12/31/9999
30-043-21154	CHACO SLOPE 22 7 35 #001H	Oil	Plugged (site released)	20572	SG INTERESTS I LTD	A-35-22N-07W	36.100403	-107.537865	H	2015	0	0	[52860] RUSTY GALLUP	5/1/2023	Federal	12/31/9999
30-043-21050	FEDERAL 22 7 34 #003	Gas	Cancelled	20572	SG INTERESTS I LTD	N-34-22N-07W	36.090523	-107.566895		9999	0	0	[71629] BASIN FRUITLAND COAL (GAS)	12/31/9999	Federal	12/31/9999

Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

VII. Operations Plan

- Average Injection Rate: 8,000 Bbls/day. Maximum Injection Rate: 20,000 Bbls/day.
- Average Injection Pressure: 800 psi. Maximum Injection Pressure 1,385 psi.
- The source of injected water will be from area production. The water to be injected is compatible with the water in the proposed disposal zone.
- The Entrada Sandstone formation has not been proven productive within the area of review.
- The system will be closed.

S.Ford 3/13/2025

ENDURING RESOURCES IV, LLC
6300 S SYRACUSE WAY, SUITE 525
CENTENNIAL, COLORADO 80211

DRILLING PLAN: ***Drill, complete, and equip single vertical SWD in the Entrada formation***

WELL INFORMATION:

Name: **S Escavada Unit SWD 001**
API Number: Not yet assigned
State: New Mexico
County: Sandoval
Surface Elevation: 6,754 ft ASL (GL) 6,769 ft ASL (KB)
Surface Location: 27-22-7 Sec-Twn-Rng 2,077 ft FSL 377 ft FEL
36.108398 ° N latitude 107.55548 ° W longitude (NAD 83)
BH Location: 27-22-7 Sec-Twn-Rng 2,077 ft FSL 377 ft FEL
36.108398 ° N latitude 107.55548 ° W longitude (NAD 83)
Driving Directions: **FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:**
South on US Hwy 550 for 50.0 miles to Adkins Road; Right (South) on Cty Road Atkins Road for 5.5 miles to fork; Left (South) staying on Atkins Road 7825 for 3.0 miles to 4 way; Straight (South) on lease road for 0.7 miles to S Escavada Unit 350H pad. There are 3 existing wells on this pad, from West (furthest from location entrance) to East: S Escavada Unit 350H, 351H, 347H and one new staked well, S Escavad Unit SWD 001.

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
Ojo Alamo	6,250	519	519	W	normal
Kirtland	6,145	624	624	W	normal
Fruitland	6,010	759	759	G, W	sub
Pictured Cliffs	5,685	1,084	1,084	G, W	sub
Lewis	5,575	1,194	1,194	G, W	normal
Chacra	5,315	1,454	1,454	G, W	normal
Cliff House	4,280	2,489	2,489	G, W	sub
Menefee	4,265	2,504	2,504	G, W	normal
Point Lookout	3,320	3,449	3,449	G, W	normal
Mancos	3,195	3,574	3,574	O,G	sub (~0.38)
MNCS_G	2,235	4,534	4,534	O,G	sub (~0.38)
Basal Niobrara Unconfomity	2,040	4,729	4,729	O,G	sub (~0.38)
Juana Lopez	1,740	5,029	5,029	O,G	sub (~0.38)
Greenhorn Limestone	1,400	5,369	5,369	O,G	sub (~0.38)
Graneros	1,305	5,464	5,464	O,G	sub (~0.38)
Dakota	1,250	5,519	5,519	O,G	sub (~0.38)
Burro Canyon Fm	1,060	5,709	5,709	O,G	sub (~0.38)
Morrison	980	5,789	5,789	O,G	sub (~0.38)
Bluff Ss Member	760	6,009	6,009	O,G	sub (~0.38)
Salt Wash Basin Member	495	6,274	6,274	O,G	sub (~0.38)
Smallville	**275**	**6,494**	**6,494**	**O,G**	**sub (~0.38)**
Todilto	**210**	**6,559**	**6,559**	**O,G**	**sub (~0.38)**
Entrada	**190**	**6,579**	**6,579**	**O,G**	**sub (~0.38)**

Chinle	**-40**	**6,809**	**6,809**	**O,G**	**sub (~0.38)**
Rat Hole	**350**	**0**	**0**	**O,G**	**sub (~0.38)**
TD	**-390**	**7,159**	**7,159**	**O,G**	**sub (~0.38)**

Surface: Nacimiento

Oil & Gas Zones: Several gas bearing zones will be encountered; target formation is the Entrada

Pressure: Normal (0.43 psi/ft) or sub-normal pressure gradients anticipated in all formations

Max. pressure gradient: 0.43 psi/ft Evacuated hole gradient: 0.22 psi/ft

Maximum anticipated BH pressure, assuming maximum pressure gradient: 3,080 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 1,510 psi

Temperature: **Maximum anticipated BHT is 180° F or less**

H_2S INFORMATION:

H_2S Zones: Encountering hydrogen-sulfide bearing zones is **NOT** anticipated.

Safety: Sensors and alarms will be placed in the substructure, on the rig floor, above the pits, and at the shakers.

LOGGING, CORING, AND TESTING:

Mud Logs: None planned; gas detection from drillout of 9-5/8" casing to TD.

MWD / LWD: Gamma Ray from drillout of 9-5/8" casing to TD

Open Hole Logs: None planned

Testing: None planned

Coring: None planned

Cased Hole Logs: CBL on 7" casing from deepest free-fall depth to surface

DRILLING RIG INFORMATION:

Contractor: Aztec

Rig No.: Aztec Drilling 777

Draw Works: Loadcraft 224DDR

Mast: Loadcraft (116ft, 410,000 lbs, 10 lines)

Top Drive: Tesco 250 ton

Prime Movers: 2 - CAT C-15

Pumps: 2 - HRSF-1000 (3,000 psi)

BOPE 1: Double Gate Ram (11" 3,000 psi)

BOPE 2: Annular Preventer (11" 3,000 psi)

Choke 3" x 5,000 psi

KB-GL (ft): 14.5

Note: Actual drilling rig may vary depending on availability at time the well is scheduled to be drilled.

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

1) Rig will be equipped with upper and lower kelly cocks with handles available.

2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.

3) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.

4) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.

5) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.

6) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device.The valve will be maintained in the open position and shall only be closed when the there is no power to the accumulator.

FLUIDS AND SOLIDS CONTROL PROGRAM:

Fluid Measurement:

Pumps shall be equipped with stroke counters with displays in the dog-house. Slow pump speed shall be recorded daily and after mudding up, at a minimum, on the drilling report. A Pit Volume Totalizer will be installed and the readout will be displayed in the dog-house. Gas-detecting equipment will be installed at the shakers, and readouts will be available in the dog-house and the in the geologist's work-station (if geologist or mud-logger is on-site).

Closed-Loop System: A fully, closed-loop system will be utilized. The system will consist of above-ground piping and above-ground storage tanks and bins. The system will not entail any earthen pits, below-grade storage, or drying pads. All equipment will be disassembled and removed from the site when drilling operations cease. The system will be capable of storing all fluids and generated cuttings and of preventing uncontrolled releases of the same. The system will be operated in an efficient manner to allow the recycling and reuse of as much fluid as possible and to minimimize the amount of fluids and solids that require disposal.

Fluid Disposal : Fluids that cannot be reused, recycled, or returned to the supplier will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Solids Disposal : Drilling solids will be stored (until haul-off) on-site in separate containers with no other waste, debris, or garbage products. Waste solids will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Fluid Program: See "Detailed Drilling Plan" section and attached Newpark mud program for additional details.

DETAILED DRILLING PLAN:

SURFACE: ***Drill vertically to casing setting depth (plus necessary rathole), run casing, cement casing to surface.***

0 ft (MD)	**to**	**500 ft (MD)**	**Hole Section Length:**	**500 ft**
0 ft (TVD)	**to**	**500 ft (TVD)**	**Casing Required:**	**500 ft**

Note: Surface hole may be drilled, cased, and cemented with a smaller rig in advance of the drilling rig.

Fluid:	**Type**	**MW (ppg)**	**FL (mL/30 min)**	**PV (cp)**	**YP (lb/100 sqft)**	**pH**	**Comments**
	Fresh Water	8.4	N/C	2 - 8	2 - 12	9.0	Spud mud

Hole Size: 12-1/4"

Bit / Motor: Mill Tooth or PDC, no motor

MWD / Survey: No MWD, deviation survey

Logging: None

Casing Specs:		**Wt (lb/ft)**	**Grade**	**Conn.**	**Collapse (psi)**	**Burst (psi)**	**Tens. Body (lbs)**	**Tens. Conn (lbs)**
Specs	9.625	36.0	K-55	STC	2,020	3,520	564,000	423,000

Loading	218	1,532	115,697	115,697
Min. S.F.	**9.25**	**2.30**	**4.87**	**3.66**

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient
Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling intermediate hole and 8.4 ppg equivalent external pressure gradient
Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): *Minumum: 3,400 Optimum: 4,530 Maximum: 5,660*

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface
Centralizers: 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	Hole Cap. (cuft/ft)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Redi-Mix	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	158	254

Calculated cement volumes assume gauge hole and the excess noted in table Csg ID 8.921
Mesa Ready Mix or first available Shoe Track L 44
Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

PRODUCTION: ***Drill as per directional plan to casing setting depth, run casing, cement casing to surface.***

500 ft (MD)	**to**	**7,159 ft (MD)**	**Hole Section Length:**	**6,659 ft**
500 ft (TVD)	**to**	**7,159 ft (TVD)**	**Casing Required:**	**7,159 ft**

Estimated BHST = 180° F

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	LSND (KCl)	8.8 - 9.2	15	8 - 14	6 - 12	10.8 - 11.2	No OBM

Hole Size (inches): 8.75
Bit / Motor: 8-3/4" PDC bit w/mud motor
MWD / Survey: MWD Survey with inclination and azimuth survey (every 100' at a minimum), GR optional
Logging: None
Pressure Test: NU BOPE and test (as noted above); pressure test 13-3/8" casing to **1,575** psi for 30 minutes.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	7	26.0	L80	LTC	5,410	7,240	604,000	519,000
Loading					3,127	1,919	262,307	262,307
Min. S.F.					**1.73**	**3.77**	**2.30**	**1.98**

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient
Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling production hole and 8.4 ppg equivalent external pressure gradient
Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): *Minumum: 4,600 Optimum: 5,110 Maximum: 5,660*
Centralizers: 1 per joint in non-vertical hole; 1 per 2-joints in vertical hole

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Lead	III:POZ Blend	12.5	2.150	12.05	80%	0	413	888
Tail	Type III	13.5	1.710	8.88	30%	3,474	427	730

Annular Capacity	0.16681	cuft/ft	*7" casing x 9-5/8" casing annulus*	Shoe Track L	44
	0.1503	cuft/ft	*7" casing x 8-3/4" hole annulus*	Casing ID	6.276
	0.2148	cuft/ft	*7" casing casing volume*		

Calculated cement volumes assume gauge hole and the excess noted in table

Spacer	*10 bbls water f/b*	*10 bbls D-Mud Breaker (SAPP) f/b*	*10 bbls water f/b*					
Lead	*ASTM Type III 90/10 Poz*	D-CSE 1 5.0% BWOC Strength Enhancer	D-MPA-2 .4% BWOC Fluid Loss & Gas Migration Control	D-SA 1 1.4% BWOC Na Metasilicate	D-CD 2 .4% BWOC Dispersant	Cello Flace LCM .25 lb/sx	D-FP 1 .5% BWOC Defoamer	D-R1 1.2% Retarder
Tail	*ASTM Type III 90/10 Poz*	D-CSE 1 5.0% BWOC Strength Enhancer	D-MPA-2 1.2% BWOC Fluid Loss & Gas Migration Control	Cello Flace LCM .25 lb/sx	D-FP 1 .5% BWOC Defoamer	D-R1 0.3% Retarder		

Drake Intermediate Cementing Program

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

FINISH WELL: ***ND BOP, cap well, RDMO.***

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: NA

ESTIMATED START DATES:

Drilling: 4/16/2025

Completion: 6/15/2025

Production: 7/30/2025

Prepared by: **Greg Olson** **1/24/2025**

Updated:

Proposed Wellbore Diagram

WELL NAME: S Escavada Unit SWD 001
OBJECTIVE: Drill, complete, and equip single vertical SWD in the Entrada formation
API Number: *Not yet assigned*
AFE Number: *Not yet assigned*
ER Well Number: *Not yet assigned*
State: New Mexico
County: Sandoval

QUICK REFERENCE		
Sur TD (MD)	500	ft
TD (MD)	7,159	ft

Surface Elev.:	6,754	ft ASL (GL)	6,769	ft ASL (KB)		
Surface Location:	27-22-7	Sec-Twn- Rng	2,077	ft FSL	377	ft FEL
BH Location:	27-22-7	Sec-Twn- Rng	2077	ft FSL	377	ft FEL

Driving Directions: ***FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:***

South on US Hwy 550 for 50.0 miles to Adkins Road; Right (South) on Cty Road Atkins Road for 5.5 miles to fork; Left (South) staying on Atkins Road 7825 for 3.0 miles to 4 way; Straight (South) on lease road for 0.7 miles to S Escavada Unit 350H pad. There are 3 existing wells on this pad, from West (furthest from location entrance) to East: S Escavada Unit 350H, 351H, 347H and one new staked well, S Escavad Unit SWD 001.

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	12.250	500	9.625	36	K-55	STC	0	500
Production	8.750	7,159	7	26.0	L80	LTC	0	7,159

CEMENT PROPERTIES SUMMARY:

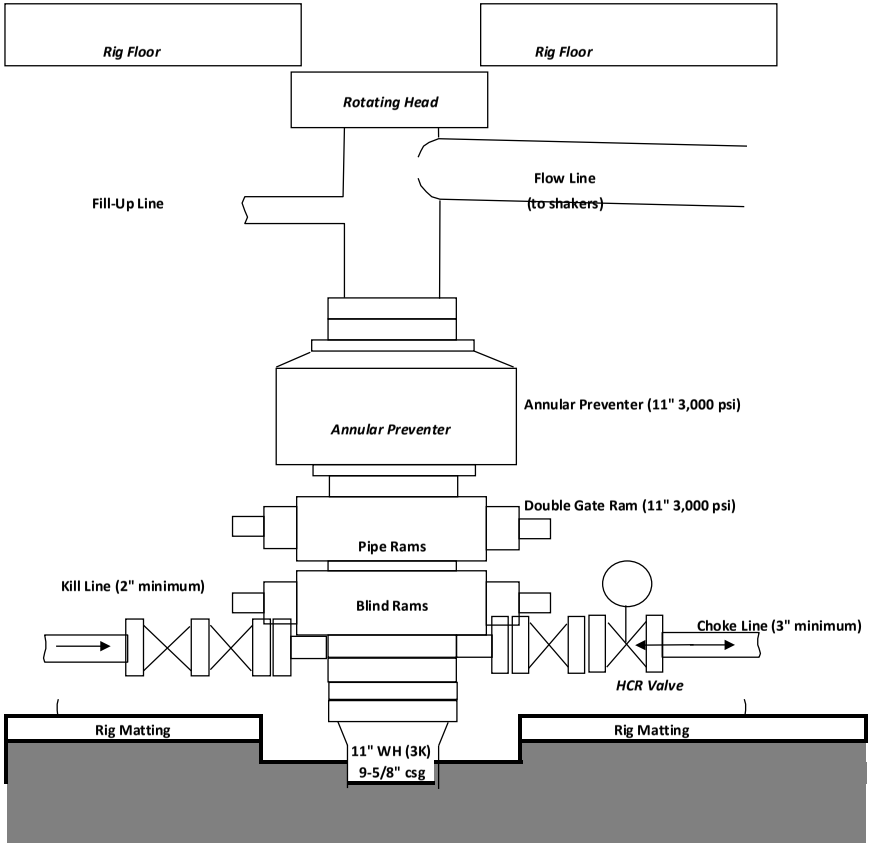
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	158
Prod. (Lead)	III:POZ Blend	12.5	2.15	12.05	0.1668	80%	0	413
Prod. (Tail)	Type III	13.5	1.71	8.88	0.1503	30%	3,474	427

Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	519	519
Kirtland	624	624
Fruitland	759	759
Pictured Cliffs	1,084	1,084
Lewis	1,194	1,194
Chacra	1,454	1,454
Cliff House	2,489	2,489
Menefee	2,504	2,504
Point Lookout	3,449	3,449
Mancos	3,574	3,574
MNCS_G	4,534	4,534
Basal Niobrara Unconfomity	4,729	4,729
Juana Lopez	5,029	5,029
Greenhorn Limestone	5,369	5,369
Graneros	5,464	5,464
Dakota	5,519	5,519
Burro Canyon Fm	5,709	5,709
Morrison	5,789	5,789
Bluff Ss Member	6,009	6,009
Salt Wash Basin Member	6,274	6,274
Smallville	6,494	6,494
Todilto	6,559	6,559
Entrada	6,579	6,579
Chinle	6,809	6,809
Rat Hole	0	0
TD	7,159	7,159

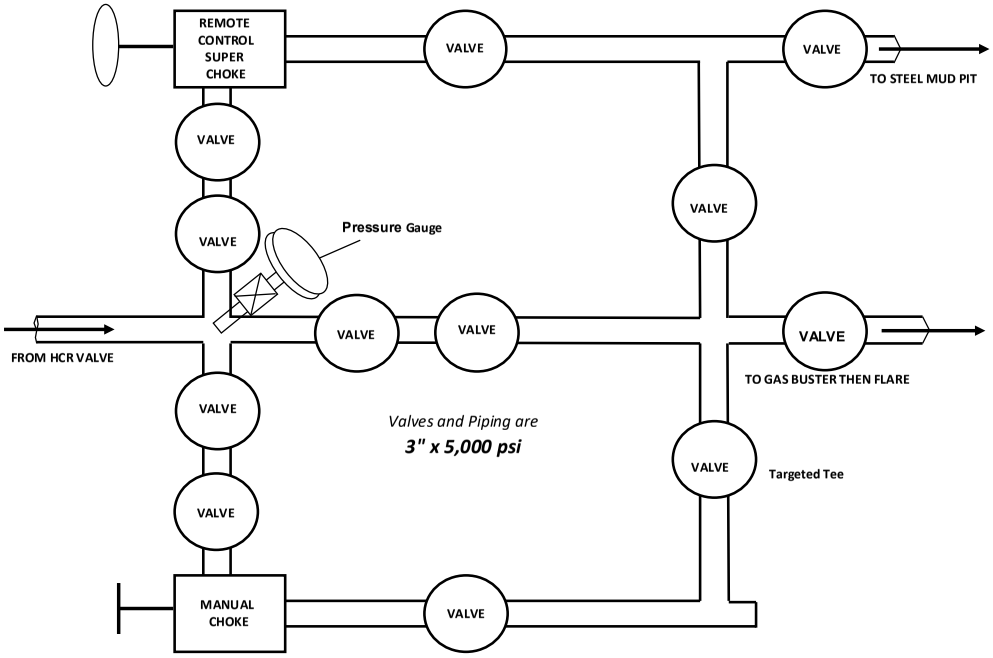
BOPE & CHOKE MANIFOLD DIAGRAMS

NOTE: EXACT BOPE AND CHOKE CONFIRGURATION AND COMPONENTS MAY DIFFER FROM WHAT IS DEPICTED IN THE DIGRAMS BELOW DEPENDING ON THE RIG AND ITS ASSOCIATED EQUIPMENT. RAM PREVENTERS, ANNULAR PREVENTERS, AND CHOKE MANIFOLD AND COMPONENTS WILL BE RATED TO 3,000 PSI MINIMUM.

BOPE



CHOKE MANIFOLD



Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

VIII. Geologic Data

The proposed injection interval is the Entrada Sandstone; Entrada (96436) pool. The Entrada formation underlies the Todilto formation. The Entrada is described as a fine to very fine-grained sandstone with fair to good porosity and permeability. The Entrada Sandstone is a very porous and permeable aeolian sandstone and is widely used as an injection zone in this region of the San Juan Basin. The top of the Entrada is at 6,579' TVD. The bottom of the closest overlying oil producing formation (Dakota) is at 5,709' TVD. There will be 580' between the highest perforation and the bottom of the Dakota formation.

The following table identifies the geologic markers and projected formation tops (depth in feet from surface) based on open hole logs from offset wells in the area.

Formation Tops	TVD	Production
Ojo Alamo	519	G
Kirtland	624	G
Fruitland	759	G
Pictured Cliffs	1084	G
Lewis	1194	G
Chacra	1454	G
Cliff House	2489	G
Menefee	2504	G
Point Lookout	3449	G
Mancos	3574	O,G
Basal Niobrara	4729	O,G
Juana Lopez	5029	O,G
Greenhorn Limestone	5369	O,G
Graneros	5464	O,G
Dakota	5519	O,G
Burro Canyon Fm	5709	O,G
Morrison	5789	O,G
Bluff Ss Member	6009	O,G
Salt Wash Basin Member	6274	O,G
Smallville	6494	O,G
Todilto	6559	O,G
Entrada	6579	O,G
Chinle	6809	O,G

S.Ford 3/13/2025

Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

Seals
The proposed injection interval is the Middle Jurassic Entrada formation and is stratigraphically located 6,579 feet below the Tertiary Ojo Alamo, Nacimiento and San Jose freshwater aquifers. The Middle Jurassic Entrada is primarily eolian dune sandstones varying in thickness. The Entrada is most often water-bearing but does not economically produce oil. The Upper Triassic Chinle formation unconformably underlies the Entrada formation throughout the San Juan Basin and consists of primarily shales with minor interbeds of sandstone and siltstone. The Chinle is basically impervious to fluids. The Entrada formation is overlain by the Todilto sealing limestone, anhydrite and shale. Above the Todilto is the Summerville shale. Both the Summerville and Todilto are thin on top of the Entrada dune build-ups and thicken in areas where the Entrada dunes thin. The Bluff formation is not well developed in this location, so it is a better seal due to the lack of well-developed sandstone. For the most part the Morrison formation is a seal. The thin, interbedded sandstones are tight and yield very little, if any, water or hydrocarbons. The Lower Cretaceous Burro Canyon formation consists of primarily clayey sandstones, which are mostly water-bearing in the immediate area. The Upper Cretaceous Dakota formation and Graneros formation are comprised of interbedded sandstones and shales with minor coals. The Dakota and Graneros are continuous and hydrocarbon productive. Lack of production is usually due to lack of porosity and permeability, not due to water occurrences. Above the Graneros is the Greenhorn Limestone, which consists of thinly interbedded organic shales and shaley limestone. The Greenhorn is more a hydrocarbon source rock and seal than it is a viable reservoir. The overlying Lower Mancos Shale is a definite seal rock. The Juana Lopez is a regional stratigraphic marker like the Greenhorn. It is a sequence of slightly sandy, shaley and calcareous siltstone that is not a commercial reservoir. The Gallup formation is a sequence of very thinly interbedded organic shales, sandy shales and shaley sandstones. When the Tocito sandstone, which has matrix porosity, is absent as it is in the area around the proposed well, the Gallup is only hydrocarbon productive when fractured. The fractures die out upward near the top of the Gallup into the overlying Upper Mancos Shale. The Upper Mancos Shale is a definite seal rock because it rarely yields hydrocarbon shows and is non-productive. The Mesaverde formation in this area and is either tight or yields salt water and minor gas. To the northwest, the Mesaverde formation is one of the major hydrocarbon producing zones in the San Juan Basin. Above the Mesaverde is the Chacra member of the Lewis shale. The Chacra is predominantly shale with only tens of feet of interbedded tight sandstone and is definitely a seal in this part of the basin. The Lewis Shale overlies the Chacra and is a possible hydrocarbon source rock and a seal. Above the Lewis Sale is the Pictured Cliffs formation. The Pictured Cliffs is usually gas-productive or tight and is rarely water-bearing. In this southeast portion of the San Juan Basin, the Fruitland formation consists interbedded coals, shales and minor sandstones. The Fruitland produces neither gas nor water in the area, so is in effect a good seal. The non-marine Kirtland Shales has minor interbeds of fluvial sandstones that are basically tight and sealing. The Tertiary Ojo Alamo and Nacimiento formations are mostly freshwater bearing but do produce some gas. The Nacimiento and San Jose formations are comprised of interbedded lenticular sandstones and non-marine shales.
Regional Flow
The San Juan Basin is an asymmetric northwest trending structural depression located on the eastern edge of the Colorado Plateau in northern New Mexico. The San Juan Basin contains a thick sequence of sedimentary rocks ranging in age from Cambrian through Tertiary. The Entrada Sandstone is a late Jurassic formation. The proposed S. Escavada Unit SWD #001 is located in the central west portion of

the basin and intercepts the Entrada Formation approximately 6,579 feet beneath ground surface. The hydrologic properties, regional flow patterns, and water quality do not vary significantly from unit to unit within the San Juan Basin. Regional flow within the basin as occurring from elevated recharge areas on the basin margin toward discharge areas along the San Juan River in the northwest and along the Rio Puerco in the southeast. They also state that vertical flow occurs across unit boundaries and along geologic structures within the basin.

Literature Cited

Hydrology and Water Resources of San Juan Basin, Stone et.al. 1983.

Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

IX. Stimulation Program

Upon approval of this application, an injection test will be conducted. If adequate rates are not found, it may be necessary to stimulate the Entrada Sandstone or perforate additional zones in the well.

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

S.Ford 3/13/2025

Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

X. Logging and Test Data

All logs and test data for the S. Escavada SWD #001 will be submitted to the NMOCD.

S.Ford 3/13/2025

Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

XI. Chemical Analysis of Freshwater

Point of Diversion data obtained from the NMOSE indicates there are no freshwater wells completed within a 1-mile radius of the area of interest. The Entrada interval at this location and depth is not reasonably expected to supply any type of freshwater systems. The more shallower options that exist are currently in limited use at depths of 624' or less in the San Jose Sandstone interval.

Enduring was advised of an unpermitted existing water hole near an arroyo 1480-ft from the proposed injection well. Anecdotal information obtained from family members currently living in the vicinity indicated it was hand-dug in the 1920's to an estimated depth of 12-ft. Further information obtained from the family indicated the hole has not been used for over 40 years. A surface marker was located, but it has long since been abandoned and is covered by sand and silt due to natural occurring weather conditions. A freshwater distribution system was installed by the Navajo Tribal Utilities Association which provides water to residents in the area.

Water analysis from the proposed exempted aquifer:

pH	7.0
Specific Gravity @ 70°F	1.0260
Resistivity @ 70°F (Ω.m)	2.0

S.Ford 3/13/2025

Wright Water Engineers, Inc.
1666 N. Main Avenue, Suite C
Durango, Colorado 81301
(970) 259-7411 TEL
(970) 259-8758 FAX
www.wrightwater.com
e-mail: pfoster@wrightwater.com

DRAFT

June 20, 2024

Via email: doug.rappuhn@state.nm.us

Douglas Rappuhn, P.G.
Hydrology Bureau / New Mexico Office of the State Engineer
5550 San Antonio Drive NE
Albuquerque, NM 87109-4127

Re: Water Quality Results from the North Alamito No. 7 Water Supply Well – May 13, 2024

Dear Doug:

Wright Water Engineers, Inc. (WWE) is pleased to provide the results from a water quality sample collected from DJR's North Alamito No. 7 water supply well (POD No. SJ-4348) producing water from the Entrada Sandstone aquifer. Pumping prior to sample collection began at noon on Thursday May 9, 2024 at a rate of 350 gpm. The pumping rate was constant until sample collection on May 13 at 1:30pm, purging approximately 6.2 acre feet. This large purge volume is adequate to produce a representative groundwater sample for laboratory analysis.

Field Parameters

Prior to sample collection, water quality field parameters of temperature, pH, and TDS (total dissolved solids) were collected. The temperature was 156°F, the pH was 7.4, and the TDS was 10,560 mg/L at 1:25 pm May 13, 2024 just before sample collection. These field parameter values are consistent with previous testing of the North Alamito No. 7 WSW.

Water Quality Results

The laboratory results from the May 13, 2024 sample collected from the North Alamito No. 7 WSW area attached. The recorded laboratory analysis result for TDS of 12,100 mg/L meets the minimum criteria of at least 1,000 mg/L per the New Mexico Deep Non-potable Water Statutes.

We appreciate the opportunity to review these water quality results from the North Alamito No. 7 WSW, and welcome any questions or comments.

Sincerely,
WRIGHT WATER ENGINEERS, INC.

By _____
Peter R. Foster, P.E.
Vice President

By _____
Trevor Downing, P.G.
Geologist

Attachments:
Attachment A – Water Quality Laboratory Results

P:\191-014 DJR Energy\000\Engineering\Aquifer Testing\North Alamito No. 7\Water Quality Lab Results\2024.5.13 Sample\2024.6.20 North Alamito No. 7 Water Quality Sample text.docx

75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
jeremy.allen@greenanalytical.com

29 May 2024

Trevor Downing
Wright Water Engineering
1666 N Main Ave Suite C
Durango, CO 81301

RE: Enduring N. Alamito No. 7

Enclosed are the results of analyses for samples received by the laboratory on 05/13/24 15:28. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

Veronica Wells
Project Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

Table of Contents

Wright Water Engineering	Project: DJR - 2022	
1666 N Main Ave Suite C	Project Name / Number: Enduring N. Alamito No. 7	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	05/29/24 16:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
NA7	2405176-01	Water	05/13/24 13:30	05/13/24 15:28	

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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

Green Analytical Laboratories

Wright Water Engineering	Project: DJR - 2022	
1666 N Main Ave Suite C	Project Name / Number: Enduring N. Alamito No. 7	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	05/29/24 16:36

NA7

2405176-01 (Ground Water)
Sampled Date: 05/13/24 13:30

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	**194**	10.0	8.00	mg/L	1	05/21/24 15:00	2320 B		AES
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	1	05/21/24 15:00	2320 B		AES
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	1	05/21/24 15:00	2320 B		AES
Alkalinity, Bicarbonate as CaCO3*	**194**	10.0	8.00	mg/L	1	05/21/24 15:00	2320 B		AES
Chloride*	**1170**	15.0	0.833	mg/L	15	05/17/24 00:38	EPA300.0		AWG
Conductivity*	**14600**	1.00		umho/cm@25 C	1	05/15/24 09:30	2510 B		JDA
Fluoride*	**7.16**	1.50	0.146	mg/L	15	05/17/24 00:38	EPA300.0		AWG
pH*	**7.40**			pH Units	1	05/15/24 09:30	EPA150.1		JDA
pH Temperature, degrees C	**17.7**			pH Units	1	05/15/24 09:30	EPA150.1		JDA
Phosphorus, Total	<0.0500	0.0500	0.0215	mg P/L	1	05/16/24 12:27	EPA365.1		CAI
SAR	**70.4**			No Unit	1	05/29/24 10:18	Calculation		AWG
Specific Gravity	**1.013**	0.8000		No Unit	1	05/21/24 11:00	ASTM D1429-03		JDA
Sulfate*	**7200**	100	12.4	mg/L	100	05/17/24 00:58	EPA300.0		AWG
Total Dissolved Solids*	**12100**	40.0		mg/L	4	05/14/24 17:47	EPA160.1		AES
Total Recoverable Metals by ICP (E200.7)									
Calcium*	**186**	2.00	1.15	mg/L	10	05/29/24 10:18	EPA200.7		AWG
Hardness as CaCO3	**504**	9.11	4.45	mg/L	10	05/29/24 10:18	2340 B		AWG
Iron*	**1.07**	0.050	0.026	mg/L	1	05/16/24 18:55	EPA200.7		AWG
Magnesium*	**9.43**	1.00	0.383	mg/L	10	05/29/24 10:18	EPA200.7		AWG
Sodium*	**3630**	10.0	2.54	mg/L	10	05/29/24 10:18	EPA200.7		AWG
Dissolved Metals by ICP									
Aluminum*	<0.750	0.750	0.332	mg/L	15	05/16/24 17:47	EPA200.7		AWG
Boron	<4.50	4.50	0.923	mg/L	15	05/16/24 17:47	EPA200.7		AWG
Calcium*	**179**	1.00	0.180	mg/L	10	05/29/24 10:14	EPA200.7		AWG
Iron*	<0.750	0.750	0.298	mg/L	15	05/16/24 17:47	EPA200.7		AWG
Magnesium*	**9.36**	1.50	0.455	mg/L	15	05/16/24 17:47	EPA200.7		AWG
Potassium*	**25.0**	15.0	1.12	mg/L	15	05/16/24 17:47	EPA200.7		AWG
Silica (Si02)	**42.8**	16.0	1.50	mg/L	15	05/16/24 17:47	Calculation		AWG
Silicon	**20.0**	7.50	0.699	mg/L	15	05/16/24 17:47	EPA200.7		AWG
Sodium*	**3550**	10.0	2.30	mg/L	10	05/29/24 10:14	EPA200.7		AWG
Strontium*	**7.92**	1.50	0.172	mg/L	15	05/16/24 17:47	EPA200.7		AWG

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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Durango CO, 81301	Project Manager: Trevor Downing	05/29/24 16:36

NA7

2405176-01 (Ground Water)
Sampled Date: 05/13/24 13:30

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Dissolved Metals by ICPMS									
Arsenic*	<0.0150	0.0150	0.0093	mg/L	15	05/22/24 15:06	EPA200.8		AES
Barium*	**0.0344**	0.0075	0.0063	mg/L	15	05/22/24 15:06	EPA200.8		AES
Cadmium*	<0.0075	0.0075	0.0009	mg/L	15	05/22/24 15:06	EPA200.8		AES
Chromium*	<0.0300	0.0300	0.0161	mg/L	15	05/22/24 15:06	EPA200.8		AES
Copper*	**0.123**	0.0150	0.0012	mg/L	15	05/22/24 15:06	EPA200.8		AES
Lead*	<0.0075	0.0075	0.0018	mg/L	15	05/22/24 15:06	EPA200.8		AES
Manganese*	**0.0632**	0.0075	0.0027	mg/L	15	05/22/24 15:06	EPA200.8		AES
Molybdenum*	<0.0075	0.0075	0.0008	mg/L	15	05/22/24 15:06	EPA200.8		AES
Nickel*	**0.0075**	0.0075	0.0007	mg/L	15	05/22/24 15:06	EPA200.8		AES
Selenium*	<0.0150	0.0150	0.0041	mg/L	15	05/22/24 15:06	EPA200.8		AES
Zinc*	<0.0300	0.0300	0.0090	mg/L	15	05/22/24 15:06	EPA200.8		AES
Other									
Iron-Related Bacteria	Low Aggressivity - 0			CFU/mL	1	05/13/24 16:30	Lab Procedure		MRN
Slime-Forming Bacteria	Low Aggressivity - 100			CFU/mL	1	05/13/24 16:30	Lab Procedure		MRN
Sulfate-Reducing Bacteria	Low Aggressivity - 0			CFU/mL	1	05/13/24 16:30	Lab Procedure		MRN

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Veronica J Wells

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1666 N Main Ave Suite C	Project Name / Number: Enduring N. Alamito No. 7	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	05/29/24 16:36

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241214 - General Prep - Wet Chem										
Blank (B241214-BLK1)			Prepared & Analyzed: 05/14/24							
Total Dissolved Solids	20.0	10.0	mg/L							B1
Reference (B241214-SRM1)			Prepared & Analyzed: 05/14/24							
Total Dissolved Solids	405	10.0	mg/L	400		101	85-115			
Batch B241217 - General Prep - Wet Chem										
Reference (B241217-SRM1)			Prepared & Analyzed: 05/15/24							
pH	7.02		pH Units	7.00		100	98.57-101.42			
Batch B241222 - Lachat										
Blank (B241222-BLK1)			Prepared: 05/15/24 Analyzed: 05/16/24							
Phosphorus, Total	ND	0.0500	mg P/L							
LCS (B241222-BS1)			Prepared: 05/15/24 Analyzed: 05/16/24							
Phosphorus, Total	2.55	0.0500	mg P/L	2.50		102	90-110			
LCS Dup (B241222-BSD1)			Prepared: 05/15/24 Analyzed: 05/16/24							
Phosphorus, Total	2.58	0.0500	mg P/L	2.50		103	90-110	1.09	20	
Batch B241236 - Total Recoverable by ICP										
Blank (B241236-BLK1)			Prepared: 05/15/24 Analyzed: 05/17/24							
SAR	0.00		No Unit							
Batch B241239 - IC- Ion Chromatograph										
Blank (B241239-BLK1)			Prepared & Analyzed: 05/16/24							
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B241239-BS1)			Prepared & Analyzed: 05/16/24							
Chloride	25.1	1.00	mg/L	25.0		100	90-110			
Fluoride	2.60	0.100	mg/L	2.50		104	90-110			
Sulfate	24.7	1.00	mg/L	25.0		98.9	90-110			
LCS Dup (B241239-BSD1)			Prepared & Analyzed: 05/16/24							
Chloride	25.2	1.00	mg/L	25.0		101	90-110	0.446	20	
Fluoride	2.61	0.100	mg/L	2.50		105	90-110	0.499	20	

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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Wright Water Engineering	Project: DJR - 2022	
1666 N Main Ave Suite C	Project Name / Number: Enduring N. Alamito No. 7	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	05/29/24 16:36

General Chemistry - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241239 - IC- Ion Chromatograph (Continued)										
LCS Dup (B241239-BSD1) (Continued)			Prepared & Analyzed: 05/16/24							
Sulfate	24.8	1.00	mg/L	25.0		99.4	90-110	0.468	20	
Batch B241247 - General Prep - Wet Chem										
Reference (B241247-SRM1)			Prepared & Analyzed: 05/15/24							
Conductivity	996	1.00	umho/cm@25C	1000		99.6	90-110			
Batch B241291 - General Prep - Wet Chem										
Blank (B241291-BLK1)			Prepared & Analyzed: 05/21/24							
Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L							
Alkalinity, Total as CaCO3	ND	10.0	mg/L							
LCS (B241291-BS1)			Prepared & Analyzed: 05/21/24							
Alkalinity, Total as CaCO3	103	10.0	mg/L	100		103	85-115			
LCS Dup (B241291-BSD1)			Prepared & Analyzed: 05/21/24							
Alkalinity, Total as CaCO3	102	10.0	mg/L	100		102	85-115	0.976	20	
Reference (B241291-SRM1)			Prepared & Analyzed: 05/21/24							
Alkalinity, Total as CaCO3	99.0	10.0	mg/L	100		99.0	85-115			

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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Green Analytical Laboratories

Wright Water Engineering	Project: DJR - 2022	
1666 N Main Ave Suite C	Project Name / Number: Enduring N. Alamito No. 7	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	05/29/24 16:36

Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241236 - Total Recoverable by ICP										
Blank (B241236-BLK1)				Prepared: 05/15/24 Analyzed: 05/16/24						
Calcium	ND	0.200	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B241236-BS1)				Prepared: 05/15/24 Analyzed: 05/16/24						
Calcium	2.00	0.200	mg/L	2.00		100	85-115			
Iron	1.95	0.050	mg/L	2.00		97.5	85-115			
Magnesium	10.4	0.100	mg/L	10.0		104	85-115			
Sodium	1.68	1.00	mg/L	1.62		104	85-115			
LCS Dup (B241236-BSD1)				Prepared: 05/15/24 Analyzed: 05/16/24						
Calcium	1.96	0.200	mg/L	2.00		98.1	85-115	1.93	20	
Iron	1.90	0.050	mg/L	2.00		95.0	85-115	2.59	20	
Magnesium	10.3	0.100	mg/L	10.0		103	85-115	1.11	20	
Sodium	1.64	1.00	mg/L	1.62		101	85-115	2.75	20	

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Green Analytical Laboratories

Wright Water Engineering	Project: DJR - 2022	
1666 N Main Ave Suite C	Project Name / Number: Enduring N. Alamito No. 7	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	05/29/24 16:36

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241215 - Dissolved ICP										
Blank (B241215-BLK1)				Prepared: 05/14/24 Analyzed: 05/16/24						
Aluminum	ND	0.050	mg/L							
Boron	ND	0.300	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Silicon	ND	0.500	mg/L							
Sodium	ND	1.00	mg/L							
Strontium	ND	0.100	mg/L							
LCS (B241215-BS1)				Prepared: 05/14/24 Analyzed: 05/16/24						
Aluminum	4.11	0.050	mg/L	4.00		103	85-115			
Boron	4.27	0.300	mg/L	4.00		107	85-115			
Calcium	4.18	0.100	mg/L	4.00		104	85-115			
Iron	4.13	0.050	mg/L	4.00		103	85-115			
Magnesium	21.2	0.100	mg/L	20.0		106	85-115			
Potassium	8.26	1.00	mg/L	8.00		103	85-115			
Silicon	4.05	0.500	mg/L	4.00		101	85-115			
Sodium	3.46	1.00	mg/L	3.24		107	85-115			
Strontium	4.13	0.100	mg/L	4.00		103	85-115			
LCS Dup (B241215-BSD1)				Prepared: 05/14/24 Analyzed: 05/16/24						
Aluminum	4.09	0.050	mg/L	4.00		102	85-115	0.569	20	
Boron	4.24	0.300	mg/L	4.00		106	85-115	0.705	20	
Calcium	4.12	0.100	mg/L	4.00		103	85-115	1.34	20	
Iron	4.08	0.050	mg/L	4.00		102	85-115	1.39	20	
Magnesium	21.0	0.100	mg/L	20.0		105	85-115	1.10	20	
Potassium	8.17	1.00	mg/L	8.00		102	85-115	1.15	20	
Silicon	4.00	0.500	mg/L	4.00		99.9	85-115	1.33	20	
Sodium	3.38	1.00	mg/L	3.24		104	85-115	2.46	20	
Strontium	4.06	0.100	mg/L	4.00		102	85-115	1.50	20	

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Green Analytical Laboratories

Wright Water Engineering	Project: DJR - 2022	
1666 N Main Ave Suite C	Project Name / Number: Enduring N. Alamito No. 7	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	05/29/24 16:36

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B241284 - Dissolved ICPMS										
Blank (B241284-BLK1)				Prepared: 05/21/24 Analyzed: 05/22/24						
Arsenic	ND	0.0010	mg/L							
Barium	ND	0.0005	mg/L							
Cadmium	ND	0.0005	mg/L							
Chromium	ND	0.0020	mg/L							
Copper	ND	0.0010	mg/L							
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Molybdenum	ND	0.0005	mg/L							
Nickel	ND	0.0005	mg/L							
Selenium	ND	0.0010	mg/L							
Zinc	ND	0.0020	mg/L							
LCS (B241284-BS1)				Prepared: 05/21/24 Analyzed: 05/22/24						
Arsenic	0.0495	0.0010	mg/L	0.0500		99.0	85-115			
Barium	0.0485	0.0005	mg/L	0.0500		97.0	85-115			
Cadmium	0.0491	0.0005	mg/L	0.0500		98.2	85-115			
Chromium	0.0481	0.0020	mg/L	0.0500		96.3	85-115			
Copper	0.0480	0.0010	mg/L	0.0500		96.0	85-115			
Lead	0.0487	0.0005	mg/L	0.0500		97.4	85-115			
Manganese	0.0492	0.0005	mg/L	0.0500		98.4	85-115			
Molybdenum	0.0487	0.0005	mg/L	0.0500		97.4	85-115			
Nickel	0.0488	0.0005	mg/L	0.0500		97.6	85-115			
Selenium	0.244	0.0010	mg/L	0.250		97.4	85-115			
Zinc	0.0490	0.0020	mg/L	0.0500		98.1	85-115			
LCS Dup (B241284-BSD1)				Prepared: 05/21/24 Analyzed: 05/22/24						
Arsenic	0.0495	0.0010	mg/L	0.0500		99.0	85-115	0.0433	20	
Barium	0.0485	0.0005	mg/L	0.0500		96.9	85-115	0.0975	20	
Cadmium	0.0491	0.0005	mg/L	0.0500		98.2	85-115	0.0347	20	
Chromium	0.0484	0.0020	mg/L	0.0500		96.8	85-115	0.506	20	
Copper	0.0481	0.0010	mg/L	0.0500		96.2	85-115	0.206	20	
Lead	0.0491	0.0005	mg/L	0.0500		98.3	85-115	0.854	20	
Manganese	0.0493	0.0005	mg/L	0.0500		98.5	85-115	0.183	20	
Molybdenum	0.0495	0.0005	mg/L	0.0500		99.0	85-115	1.70	20	
Nickel	0.0490	0.0005	mg/L	0.0500		98.1	85-115	0.518	20	
Selenium	0.246	0.0010	mg/L	0.250		98.2	85-115	0.825	20	
Zinc	0.0492	0.0020	mg/L	0.0500		98.4	85-115	0.292	20	

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Wright Water Engineering	Project: DJR - 2022	
1666 N Main Ave Suite C	Project Name / Number: Enduring N. Alamito No. 7	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	05/29/24 16:36

Notes and Definitions

B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
	*Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

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Wright Water Engineering	Project: DJR - 2022	
1666 N Main Ave Suite C	Project Name / Number: Enduring N. Alamito No. 7	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	05/29/24 16:36

Qualifier Summary

LabNumber	Analysis	Analyte	Qualifier	TextBody
B241214-BLK1	Total Dissolved Solids [TDS]	Total Dissolved Solids	B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.

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GAL Green Analytical
75 Suttle Street
Durango, CO 81303
(970) 247-4220

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006, R 8.0

Note: Wite-Out™ or similar products cannot be used on the Chain of Custody

Company or Client: Wright Water Engineers, Inc
Address: 1666 N. Main Ave
City: Durango State: CO Zip: 81301
Phone #: 970-903-2677
Contact Person: Trevor Downing
Email Report to: tdowning@wrightwater.com
Project Name(optional): Enduring N. Alamito No. 7
Sampler Name (Print): Trevor Downing

Bill to (if different):

P.O. #:

Rush? Y N TAT Needed?

ANALYSIS REQUEST

Lab I.D. Lab Use Only	Sample Name or Location	Collected Date	Collected Time	Matrix (check one) GROUNDWATER	SURFACE WATER	WASTEWATER	PRODUCED WATER	DRINKING WATER	SOIL	OTHER:	# of containers 6 No preservation	Nitric Acid	Hydrochloric Acid	Sulfuric Acid	Sodium Hydroxide	OTHER:	See Attached
2405-176																	
01	1) NA7	5-13-24	1:30pm	X								1		1			✓
	2)																
	3)																
	4)																
	5)																
	6)																
	7)																
	8)																
	9)																
	10)																

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

Relinquished By:	Date: 5-13-24 Time: 3:28pm	Received By:	Date: 5/13/24 Time: 1521	ADDITIONAL REMARKS: Rush TDS - 3 day			
Relinquished By:	Date: Time:	Received By:	Date: Time:				
Relinquished By:	Date: Time:	Received By:	Date: Time:	Temperature at receipt: 13.4 °C	Checked by: MPW	On Ice? (Y) N	Therm. used: laser

† GAL cannot accept verbal changes. Please email changes to receiving@greenanalytical.com
* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

Page 13 of 17 2405176 GAL FINAL 05 29 24 1636 05/29/24 16:36:35
Received by OCD: 3/17/2025 11:53:30 AM
Released to Imaging: 5/7/2025 4:40:03 PM

Project Information

Printed: 05/13/2024 4:30 pm

Wright Water Engineering
1666 N Main Ave Suite C
Durango, CO 81301
Laboratory PM: Veronica Wells

ır Engineering
Phone: (970) 259-7411
Fax: -

Project Name: DJR - 2022
Project Number: DJR -2022
Client PM: Trevor Downing
Comments:

Analysis	Comment
200.2 Metals Digest	
Alkalinity, Total	
Aluminum Dissolved by ICP	
Arsenic Dissolved by ICPMS	
Barium Dissolved by ICPMS	
BART - Iron Related Bacteria	
BART - Slyme Forming Bacteria	
BART - Sulfate Reducing Bacteria	
Boron Dissolved by ICP	
Cadmium Dissolved by ICPMS	
Calcium Dissolved by ICP	
Chloride [IC]	
Chromium Dissolved by ICPMS	
Conductivity	
Copper Dissolved by ICPMS	
Fluoride [IC]	
Hardness	
Iron 200.2 by ICP	
Iron Dissolved by ICP	
Lead Dissolved by ICPMS	
Magnesium Dissolved by ICP	
Manganese Dissolved by ICPMS	
Molybdenum Dissolved by ICPMS	
Nickel Dissolved by ICPMS	
pH	
Phosphate as P, Total [LACHAT]	
Potassium Dissolved by ICP	
SAR Package [WATER]	
Selenium Dissolved by ICPMS	
Silica Dissolved by ICP	
Sodium 200.2 by ICP	
Sodium Dissolved by ICP	
Specific Gravity	
Strontium Dissolved by ICP	
Sulfate [IC]	
Total Dissolved Solids [TDS]	
Zinc Dissolved by ICPMS	

Hardness subanalyses:

Calcium 200.2 by ICP
Magnesium 200.2 by ICP

Project Information

(Continued)

Wright Water Engineering
1666 N Main Ave Suite C
Durango, CO 81301
Laboratory PM: Veronica Wells

ır Engineering
Phone: (970) 259-7411
Fax: -

Project Name: DJR - 2022
Project Number: DJR -2022
Client PM: Trevor Downing
Comments:

Analysis	Comment

SAR Package [WATER] subanalyses:
SAR-Calc

Silica Dissolved by ICP subanalyses:
Silicon Dissolved by ICP

GAL Analytical Laboratories

SAMPLE CONDITION RECEIPT FORM

Client Name: Wright Water Engineers, Inc **Work Order #** 2405176

Courier: ☐Fed Ex ☐UPS ☐USPS ☑Client ☐ Kangaroo ☐ Third Party ☐Other

Custody Seals on Box/Cooler Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☐ No

Thermometer Used: #7 Samples on ice, cooling process has begun: ☑Yes ☐ No

Type of Ice: ☑Wet ☐ Blue ☐ None

Cooler Temp: Observed Temp: 13.4 °C Correction Factor: 0 °C Final Temp: 13.4 °C

* *Temp should be above freezing to 6°C*

Date/Initials of person examining contents: 5.13.24 CDR

Labeled by initials: _____
(if different than above)

Chain of Custody Present:	☑Yes ☐No	1.
Chain of Custody Filled Out:	☑Yes ☐No	2.
Chain of Custody Relinquished:	☑Yes ☐No	3.
Sampler Name and Signature on COC:	☑Yes ☐No	4.
Samples arrived within hold time:	☑Yes ☐No	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6. PH, Bacts
Rush Turn Around Time Requested:	☑Yes ☐No	7. 3day TDS
Sufficient Volume:	☑Yes ☐No	8.
Correct Containers Used:	☑Yes ☐No	9.
Containers Intact:	☑Yes ☐No	10.
Dissolved Testing Needed: Field Filtered: ☐Yes ☑No	☑Yes ☐No	11. Diss
Sample Labels match COC: -Includes Date/Time/ID Matrix:	☑Yes ☐No WT SL OT	12.
Trip Blank Present: Trip Blank Custody Seals Present:	☐Yes ☐No ☑N/A ☐Yes ☐No ☑N/A	13.

Client Notification/Resolution:

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

FORM-039, Rev 2

Page 1 of 1

Laboratory Sample ID: 2405-176-01 **Start Date: 05/13/2024** **Sample Name: NA7**

BART Type: **DATE:**

		05/14/2024	05/15/2024	05/16/2024	05/17/2024	05/18/2024	05/19/2024	05/20/2024	05/21/2024	05/22/2024	05/23/2024
APB	Time Lag (days)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Purple	Approx. Population	475,000	82,000	14000	4500	450	75	10	< 2	n/a	n/a
(Acid Producing Bacteria)	Reaction Code										
IRB											
Red	Time Lag (days)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
(Iron Related Bacteria)	Approx. Population	570,000	140,000	35,000	9000	2200	500	150	25	8	< 1
		A	A	A	A	A	A	A	A	A	A
SLYM											
Green	Time Lag (days)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
(Slime Forming Bacteria)	Approx. Population	1,750,000	440,000	67,000	13,000	2500	500	100	< 20	n/a	n/a
	Reaction Code	A	A	A	A	A	A	CL	CL	CL	CL
SRB											
Black	Time Lag (days)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
(Sulfate Reducing Bacteria)	Approx. Population	2,200,000	500,000	115,000	27,000	6,000	1400	325	75	20	< 5
		A	A	A	A	A	A	A	A	A	A

Aggressivity:	High	Medium	Low

Reaction Code Summary: **APB** Purple **ABSENT = A**

IRB
FO - Foam
BR - Brown Ring
BG - Brown Gel
BC - Brown Clouds
GC - Green Cloudy
RC - Red Cloudy
CL - Cloudy
BL - Black

SLYM
DS - Dense Slime
SR - Slime Ring
CL - Cloudy
CP -Cloudy Layered Plates
PB - Pale Blue Glowing
BL - Blackened Liquid
TH - Thread Like Strands

SRB
BB - Black Base
BT - Black Ball/Top
BT/BB - Black Top & Base Cloudy

*n/a - Not Aggressive

+

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CREDENCE ENERGY SERVICES Complete Water Analysis

Analysis Values

Company: Enduring Resources
Well Name:N ESCAVADA POND 16B
Field:LYBROOK
State:NM
Sample Point: Pond

Sample ID:OD_202408897
Sample Date:12/5/2024
Analysis Date:12/12/2024
Analyst: Sindi Flores
Report Date:12/13/2024

Field Data

pH:	7.0
	mg/L
Bicarbonate (HCO_3):	683.2
Aqueous CO_2:	150
Aqueous H_2S:	1
	g/mL
Measured Specific Gravity:	1.03
Calculated Specific Gravity:	1.0260
Total Dissolved Solids:	38352

Inorganics

	mg/L
Chlorides (Cl):	22516
Sulfates (SO_4):	420
Boron (B):	6.6
Phosphorus (P):	0.1
Scale Inhibitor Residuals:	**ppm**
Phosphorus	0.14
Cation/Anion%:	2.0%

Metals

	mg/L
Sodium (Na):	14222
Magnesium (Mg):	80
Potassium (K):	64
Calcium (Ca):	273
Strontium (Sr):	53
Barium (Ba):	2.41
Iron (Fe):	0.6
Zinc (Zn):	0.01
Manganese (Mn):	2.17
Lead (Pb):	0.0
Copper (Cu):	0.1
Silicon (Si):	No Data

Modeling Data: Scaling Indices

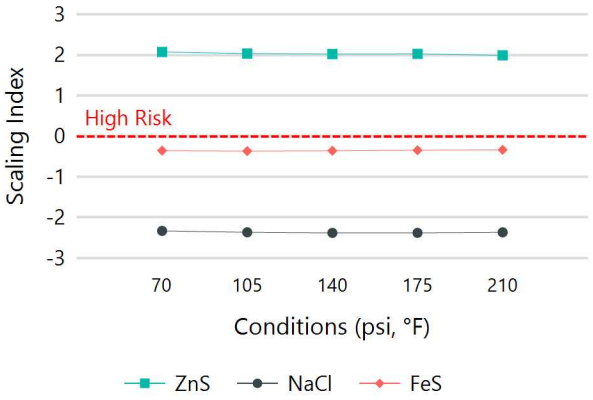
Conditions (psi, °F)		ZnS	$SrSO_4$	NaCl	FeS	$FeCO_3$	$CaSO_4 2H_2O$	$CaSO_4$	$CaCO_3$	$BaSO_4$
515	210	1.99	-0.26	-2.37	-0.33	0.64	-1.43	-0.98	0.85	0.41
390	175	2.03	-0.37	-2.38	-0.34	0.48	-1.48	-1.17	0.62	0.52
265	140	2.02	-0.47	-2.38	-0.36	0.29	-1.52	-1.36	0.39	0.67
140	105	2.04	-0.56	-2.36	-0.36	0.09	-1.55	-1.53	0.18	0.89
15	70	2.08	-0.62	-2.33	-0.35	-0.12	-1.56	-1.69	0.01	1.18

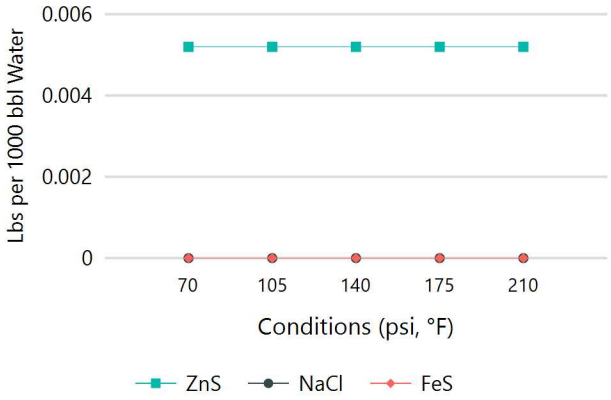
Scaling Index Risk Assessment

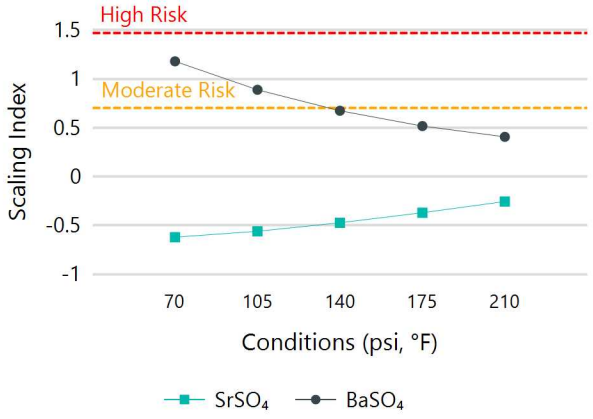
Low Risk	<0.00	<0.7	<0.00	<0.00	<0.47	<0.04	<0.04	<0.47	<0.7
Moderate Risk		0.7-1.47			0.47-1.30	>0.08	>0.08	0.47-1.30	0.7-1.47
High Risk	>0.00	>1.47	>0.00	>0.00	>1.30			>1.30	>1.47

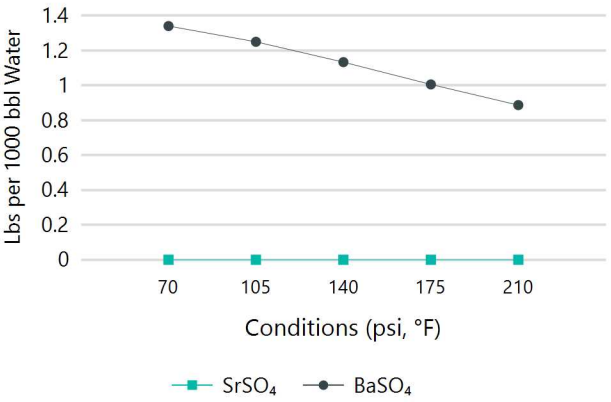
Modeling Data: Excess Solute, lbs per 1000 bbls Water Produced

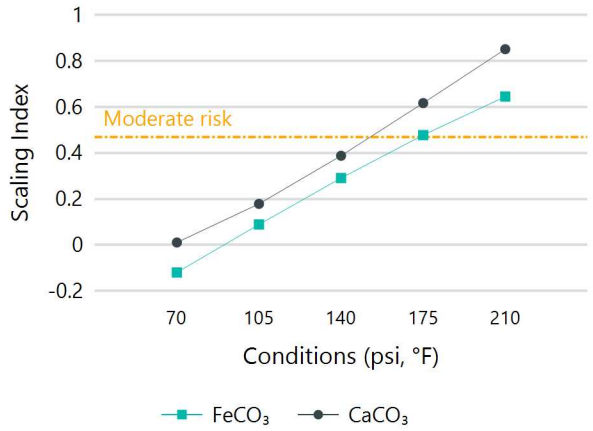
Conditions (psi, °F)		ZnS	$SrSO_4$	NaCl	FeS	$FeCO_3$	$CaSO_4 2H_2O$	$CaSO_4$	$CaCO_3$	$BaSO_4$
515	210	0.0052	0.0000	0.0000		0.0000	0.0000	0.0000	72.7524	0.8872
390	175	0.0052	0.0000	0.0000		0.0000	0.0000	0.0000	50.8592	1.0057
265	140	0.0052	0.0000	0.0000		0.0000	0.0000	0.0000	30.3230	1.1335
140	105	0.0052	0.0000	0.0000		0.0000	0.0000	0.0000	12.9603	1.2502
15	70	0.0052	0.0000	0.0000		0.0000	0.0000	0.0000	0.4103	1.3404

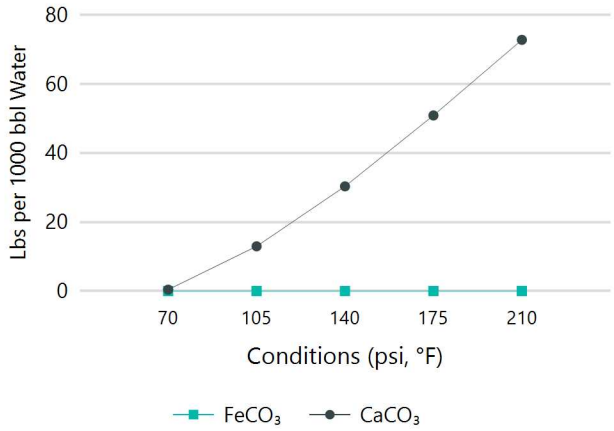

Scaling Index
High Risk
Conditions (psi, °F)
ZnS
NaCl
FeS

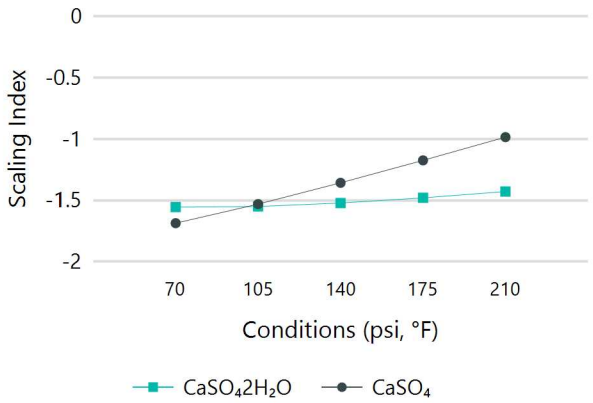

Lbs per 1000 bbl Water
Conditions (psi, °F)
ZnS
NaCl
FeS

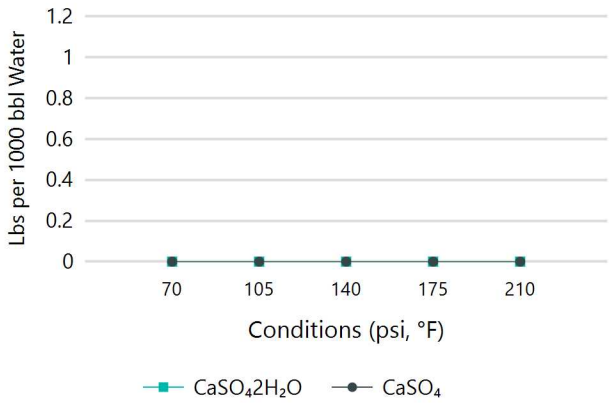

High Risk
Moderate Risk
Scaling Index
Conditions (psi, °F)
SrSO4
BaSO4


Lbs per 1000 bbl Water
Conditions (psi, °F)
SrSO4
BaSO4


Moderate risk
Scaling Index
Conditions (psi, °F)
FeCO3
CaCO3


Lbs per 1000 bbl Water
Conditions (psi, °F)
FeCO3
CaCO3


Scaling Index
Conditions (psi, °F)
CaSO42H2O
CaSO4


Lbs per 1000 bbl Water
Conditions (psi, °F)
CaSO42H2O
CaSO4

75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
jeremy.allen@greenanalytical.com

11 March 2025

Trevor Downing
Wright Water Engineering
1666 N Main Ave Suite C
Durango, CO 81301

RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 10/25/24 14:19. This data replaces the previous report (See case narrative). The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

Jeremy D Allen
Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at *******greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: TX-C25-00012

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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Wright Water Engineering	Project: Package 1	
1666 N Main Ave Suite C	Project Name / Number: [none]	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	03/11/25 15:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
VCU WSW	2410251-01	Water	10/25/24 13:00	10/25/24 14:19	
NAG WSW	2410251-02	Water	10/25/24 14:10	10/25/24 14:19	

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Jeremy D Allen, Laboratory Director

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Wright Water Engineering	Project: Package 1	
1666 N Main Ave Suite C	Project Name / Number: [none]	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	03/11/25 15:46

This report has been reissued in order to add pagination to the pdf document. This replaces the previously issued report dated 2410251 GAL_REG Limits_2 FINAL 11 06 24 0940.

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Wright Water Engineering	Project: Package 1	
1666 N Main Ave Suite C	Project Name / Number: [none]	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	03/11/25 15:46

VCU WSW

2410251-01 (Ground Water)
Sampled Date: 10/25/24 13:00
Sampled By:

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	**310**	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO3*	**310**	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Chloride*	**595**	100	5.55	mg/L	100	11/04/24 16:32	EPA 300.0		AWG
Conductivity*	**13500**	1.00		umho/cm@25 C	1	10/25/24 15:35	2510 B		HIC
Fluoride*	<10.0	10.0	0.971	mg/L	100	11/04/24 16:32	EPA 300.0		AWG
pH*	**7.49**			pH Units	1	10/25/24 15:35	EPA 150.1/9040C		HIC
pH Temperature, degrees C	**17.9**			pH Units	1	10/25/24 15:35	EPA 150.1/9040C		HIC
Sulfate*	**6390**	100	12.4	mg/L	100	11/04/24 16:32	EPA 300.0		AWG
Total Dissolved Solids*	**11500**	20.0		mg/L	2	11/01/24 10:39	EPA 160.1/SM 2540C		HIC
Total Recoverable Metals by ICP (E200.7)									
Calcium*	**146**	5.00	1.15	mg/L	10	10/29/24 20:22	EPA 200.7	B2	AES
Hardness as CaCO3	**410**	16.6	4.45	mg/L	10	10/29/24 20:22	2340 B		AES
Iron*	**3.68**	0.500	0.262	mg/L	10	10/29/24 20:22	EPA 200.7		AES
Magnesium*	**11.2**	1.00	0.383	mg/L	10	10/29/24 20:22	EPA 200.7		AES
Potassium*	**24.6**	10.0	1.06	mg/L	10	10/29/24 20:22	EPA 200.7		AES
Sodium*	**3490**	10.0	2.54	mg/L	10	10/29/24 20:22	EPA 200.7		AES

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Jeremy D Allen, Laboratory Director

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Wright Water Engineering	Project: Package 1	
1666 N Main Ave Suite C	Project Name / Number: [none]	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	03/11/25 15:46

NAG WSW

2410251-02 (Ground Water)
Sampled Date: 10/25/24 14:10
Sampled By:

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Total as CaCO3*	**197**	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Alkalinity, Carbonate as CaCO3*	<10.0	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO3*	**197**	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Chloride*	**518**	100	5.55	mg/L	100	11/04/24 16:52	EPA 300.0		AWG
Conductivity*	**11800**	1.00		umho/cm@25 C	1	10/25/24 15:35	2510 B		HIC
Fluoride*	**11.3**	10.0	0.971	mg/L	100	11/04/24 16:52	EPA 300.0		AWG
pH*	**7.74**			pH Units	1	10/25/24 15:35	EPA 150.1/9040C		HIC
pH Temperature, degrees C	**20.5**			pH Units	1	10/25/24 15:35	EPA 150.1/9040C		HIC
Sulfate*	**5490**	100	12.4	mg/L	100	11/04/24 16:52	EPA 300.0		AWG
Total Dissolved Solids*	**9920**	20.0		mg/L	2	11/01/24 10:43	EPA 160.1/SM 2540C		HIC
Total Recoverable Metals by ICP (E200.7)									
Calcium*	**134**	5.00	1.15	mg/L	10	10/29/24 20:26	EPA 200.7	B2	AES
Hardness as CaCO3	**359**	16.6	4.45	mg/L	10	10/29/24 20:26	2340 B		AES
Iron*	**0.556**	0.500	0.262	mg/L	10	10/29/24 20:26	EPA 200.7		AES
Magnesium*	**6.08**	1.00	0.383	mg/L	10	10/29/24 20:26	EPA 200.7		AES
Potassium*	**21.0**	10.0	1.06	mg/L	10	10/29/24 20:26	EPA 200.7		AES
Sodium*	**2960**	10.0	2.54	mg/L	10	10/29/24 20:26	EPA 200.7		AES

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Jeremy D Allen, Laboratory Director

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Wright Water Engineering	Project: Package 1	
1666 N Main Ave Suite C	Project Name / Number: [none]	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	03/11/25 15:46

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B243200 - General Prep - Wet Chem										
Reference (B243200-SRM1)			Prepared & Analyzed: 10/25/24							
pH	7.02		pH Units	7.00		100	98.57-101.42			
Batch B243201 - General Prep - Wet Chem										
Reference (B243201-SRM1)			Prepared & Analyzed: 10/25/24							
Conductivity	991	1.00	umho/cm@25C	1000		99.1	90-110			
Batch B243209 - General Prep - Wet Chem										
Blank (B243209-BLK1)			Prepared & Analyzed: 10/29/24							
Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L							
Alkalinity, Total as CaCO3	ND	10.0	mg/L							
LCS (B243209-BS1)			Prepared & Analyzed: 10/29/24							
Alkalinity, Total as CaCO3	108	10.0	mg/L	100		108	85-115			
LCS Dup (B243209-BSD1)			Prepared & Analyzed: 10/29/24							
Alkalinity, Total as CaCO3	107	10.0	mg/L	100		107	85-115	0.930	20	
Reference (B243209-SRM1)			Prepared & Analyzed: 10/29/24							
Alkalinity, Total as CaCO3	107	10.0	mg/L	100		107	85-115			
Batch B243232 - General Prep - Wet Chem										
Blank (B243232-BLK1)			Prepared & Analyzed: 11/01/24							
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B243232-SRM1)			Prepared & Analyzed: 11/01/24							
Total Dissolved Solids	410	10.0	mg/L	400		102	85-115			
Batch B243240 - IC- Ion Chromatograph										
Blank (B243240-BLK1)			Prepared & Analyzed: 11/04/24							
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B243240-BS1)			Prepared & Analyzed: 11/04/24							

Green Analytical Laboratories

Jeremy D. Allen

Jeremy D Allen, Laboratory Director

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Wright Water Engineering
1666 N Main Ave Suite C
Durango CO, 81301

Project: Package 1
Project Name / Number: [none]
Project Manager: Trevor Downing

Reported:
03/11/25 15:46

General Chemistry - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B243240 - IC- Ion Chromatograph (Continued)										
LCS (B243240-BS1) (Continued)			Prepared & Analyzed: 11/04/24							
Chloride	23.4	1.00	mg/L	25.0		93.5	90-110			
Fluoride	2.39	0.100	mg/L	2.50		95.7	90-110			
Sulfate	23.5	1.00	mg/L	25.0		93.8	90-110			
LCS Dup (B243240-BSD1)			Prepared & Analyzed: 11/04/24							
Chloride	24.2	1.00	mg/L	25.0		96.9	90-110	3.58	20	
Fluoride	2.48	0.100	mg/L	2.50		99.2	90-110	3.61	20	
Sulfate	24.3	1.00	mg/L	25.0		97.3	90-110	3.62	20	

Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B243191 - Total Recoverable by ICP										
Blank (B243191-BLK1)			Prepared: 10/28/24 Analyzed: 10/29/24							
Calcium	ND	0.200	mg/L							B3
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B243191-BS1)			Prepared: 10/28/24 Analyzed: 10/29/24							
Calcium	1.94	0.200	mg/L	2.00		96.9	85-115			B3
Iron	1.89	0.050	mg/L	2.00		94.6	85-115			
Magnesium	9.57	0.100	mg/L	10.0		95.7	85-115			
Potassium	3.72	1.00	mg/L	4.00		93.1	85-115			
Sodium	1.46	1.00	mg/L	1.62		90.1	85-115			
LCS Dup (B243191-BSD1)			Prepared: 10/28/24 Analyzed: 10/29/24							
Calcium	1.94	0.200	mg/L	2.00		96.8	85-115	0.0771	20	B3
Iron	1.96	0.050	mg/L	2.00		97.9	85-115	3.45	20	
Magnesium	9.85	0.100	mg/L	10.0		98.5	85-115	2.90	20	
Potassium	3.82	1.00	mg/L	4.00		95.6	85-115	2.64	20	
Sodium	1.50	1.00	mg/L	1.62		92.6	85-115	2.68	20	

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Wright Water Engineering	Project: Package 1	
1666 N Main Ave Suite C	Project Name / Number: [none]	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	03/11/25 15:46

Notes and Definitions

B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B2	Target analyte detected in continuing calibration blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the blank or less than the reporting limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
	*Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Wright Water Engineering	Project: Package 1	
1666 N Main Ave Suite C	Project Name / Number: [none]	**Reported:**
Durango CO, 81301	Project Manager: Trevor Downing	03/11/25 15:46

Qualifier Summary

LabNumber	Analysis	Analyte	Qualifier	TextBody
2410251-01	Calcium 200.2 by ICP	Calcium	B2	Target analyte detected in continuing calibration blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the blank or less than the reporting limit.
2410251-02	Calcium 200.2 by ICP	Calcium	B2	Target analyte detected in continuing calibration blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the blank or less than the reporting limit.
B243191-BLK1	Calcium 200.2 by ICP	Calcium	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B243191-BS1	Calcium 200.2 by ICP	Calcium	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B243191-BSD1	Calcium 200.2 by ICP	Calcium	B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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75 Suttle Street
Durango, CO 81303
(970) 247-4220

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006, R 8.0

Page 11 of 12 2410251 RE_GAL FINAL 03 11 25 1546 03/11/25 15:46:24

Note: Wite-Out™ or similar products cannot be used on the Chain of Custody

Company or Client: Wright Water Engineers, Inc.
Address: 1666 N. Main Ave, Suite C
City: Durango State: CO Zip: 81301
Phone #: 970-259-7411
Contact Person: Trevor Downing
Email Report to: tdowning@wrightwater.com
Project Name(optional):
Sampler Name (Print): Trevor Downing

Bill to (if different):
P.O. #:
Rush? Y N TAT Needed?

ANALYSIS REQUEST: Package #1

Lab I.D. Lab Use Only	Sample Name or Location	Collected Date	Collected Time	Matrix (check one) GROUNDWATER	SURFACE WATER	WASTEWATER	PRODUCED WATER	DRINKING WATER	SOIL	OTHER:	# of containers No preservation	Nitric Acid	Hydrochloric Acid	Sulfuric Acid	Sodium Hydroxide	OTHER:	Package #1
2410-251																	
01	1) VCU WSW	10-25-24	1:00pm	✓							2	1					✓
02	2) NAG WSW	10-25-24	2:10	✓							2	1					✓
	3)																
	4)																
	5)																
	6)																
	7)																
	8)																
	9)																
	10)																

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

Relinquished By: Trevor Downing	Date: 10-25-24 Time: 4:19pm	Received By:	Date: 10-25-24 Time: 1419	ADDITIONAL REMARKS:
Relinquished By:	Date: Time:	Received By:	Date: Time:	
Relinquished By:	Date: Time:	Received By:	Date: Time:	Temperature at receipt: 8.9 °C; Checked by: MKM; On Ice? (Y) N; Therm. used: laser 2

† GAL cannot accept verbal changes. Please email changes to receiving@greenanalytical.com
* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

Page 1 of 1

Received by OCD: 3/17/2025 11:53:30 AM
Released to Imaging: 5/7/2025 4:40:03 PM

GAL Analytical Laboratories

SAMPLE CONDITION RECEIPT FORM

Client Name: Wright Water Engineers **Work Order #** 2410-251

Courier: ☐Fed Ex ☐UPS ☐USPS ☑Client ☐ Kangaroo ☐ Third Party ☐Other

Custody Seals on Box/Cooler Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☐ No

Thermometer Used: #2 Samples on ice, cooling process has begun: ☑ Yes ☐ No

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: Observed Temp: 8.9 °C Correction Factor: 0 °C Final Temp: 8.9 °C

*Temp should be above freezing to 6°C

Date/Initials of person examining contents: MAW 10.25.24

Labeled by initials: _____
(if different than above)

Chain of Custody Present:	☑Yes ☐No	1.
Chain of Custody Filled Out:	☑Yes ☐No	2.
Chain of Custody Relinquished:	☑Yes ☐No	3.
Sampler Name and Signature on COC:	☑Yes ☐No	4.
Samples arrived within hold time:	☑Yes ☐No	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6. pH
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume:	☑Yes ☐No	8.
Correct Containers Used:	☑Yes ☐No	9.
Containers Intact:	☑Yes ☐No	10.
Dissolved Testing Needed: Field Filtered: ☐Yes ☐No	☐Yes ☑No	11.
Sample Labels match COC: -Includes Date/Time/ID Matrix:	☑Yes ☐No WT SL OT	12.
Trip Blank Present: Trip Blank Custody Seals Present:	☐Yes ☐No ☐N/A ☐Yes ☐No ☐N/A	13.

Client Notification/Resolution:

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

FORM-039, Rev 2

Page 1 of 1

Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

XII. Affirmative Statement of Geologic and Engineering Data

Enduring Resources, LLC is not aware of any geologic or engineering data that may indicate the Entrada Sandstone formation is in hydrological connection with any freshwater sources. No faults have been detected in the area of review or other nearby wellbores. The effectiveness of the main sealing formations stratigraphically isolate hydrocarbon producing and water free formations throughout the Upper Cretaceous geologic section. Entrada water does not reach the shallower Tertiary formations.

Raffaello Sacerdoti

3/10/2025
Date

S.Ford 3/13/2025

Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

XIII. Proof of Notice

All surface owners and offset operators within a two-mile radius were sent notification of the proposed underground injection site. In addition, general public notification was given through advertisement in a local newspaper.

S.Ford 3/13/2025

ENDURING RESOURCES, LLC
200 Energy Court, Farmington, New Mexico 87401
Telephone: (505) 636-9720

March 13, 2025

Via Certified Mail (Article 7015 1660 0000 1539 8332)

Dugan Production Corporation
709 East Murray Drive
Farmington, New Mexico 87401

Re: Notice of Application: Authorization to Inject
South Escavada Unit SWD #001
Sandoval County, New Mexico

Ladies and Gentlemen:

The purpose of this communication is to provide notice that Enduring Resources, LLC is making an application for administrative approval to dispose of produced water by means of underground injection. The proposed produced water disposal site is known as the South Escavada Unit SWD #001. Located in the SE/4 of Sec. 27-T22N-R7W at 36.108398°N, -107.555480°W in Sandoval County, New Mexico. Disposal water will be sourced from area production and will be injected into the Entrada Sandstone formation between the depths of 6579' to 6809' below ground level.

Pursuant to Section 19.15.26 NMAC notice requirement associated with this application, any interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Frances Drive, Santa Fe, NM 87505 within 15 days of the date of this letter.

Enclosed is a copy of the completed C-108 application to be filed with the NMOCD. Please do not hesitate to contact me at (505) 716-3297 or sford@enduringresources.com if you have any questions.

Regards,

Shaw-Marie Ford
Shaw-Marie (Shaw) Ford
Enduring Resources

Encls.

170-4183

SENDER: COMPLETE THIS SECTION

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

Dugan Production Corporation
Attn: Regulatory Dept.
709 E. Murray Dr.
Farmington, NM 87401

9590 9401 0117 5225 0458 34

2. Article Number *(Transfer from service label)*

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A. Signature
X ☐ Agent ☐ Addressee

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

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

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

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Dugan Production Corporation
Attn: Regulatory Dept.
709 E. Murray Dr.
Farmington, NM 87401

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

ENDURING RESOURCES, LLC
200 Energy Court, Farmington, New Mexico 87401
Telephone: (505) 636-9720

March 13, 2025

Via Certified Mail (Article 7015 1660 0000 1539 8325)

Bureau of Land Management
301 Dinosaur Trail
Santa Fe, New Mexico 87508

Re: Notice of Application: Authorization to Inject
South Escavada Unit SWD #001
Sandoval County, New Mexico

Ladies and Gentlemen:

The purpose of this communication is to provide notice that Enduring Resources, LLC is making an application for administrative approval to dispose of produced water by means of underground injection. The proposed produced water disposal site is known as the South Escavada Unit SWD #001. Located in the SE/4 of Sec. 27-T22N-R7W at 36.108398°N, -107.555480°W in Sandoval County, New Mexico. Disposal water will be sourced from area production and will be injected into the Entrada Sandstone formation between the depths of 6579' to 6809' below ground level.

Pursuant to Section 19.15.26 NMAC notice requirement associated with this application, any interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Frances Drive, Santa Fe, NM 87505 within 15 days of the date of this letter.

Enclosed is a copy of the completed C-108 application to be filed with the NMOCD. Please do not hesitate to contact me at (505) 716-3297 or sford@enduringresources.com if you have any questions.

Regards,

Shaw-Marie Ford
Shaw-Marie (Shaw) Ford
Enduring Resources

Encls.

1704584

SENDER: COMPLETE THIS SECTION

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

1 Article Addressed to:

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

9590 9401 0117 5225 0458 41

2. Article Number *(Transfer from service label)*

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

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City, Sta

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

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

ENDURING RESOURCES, LLC
200 Energy Court, Farmington, New Mexico 87401
Telephone: (505) 636-9720

March 13, 2025

Via Certified Mail (Article 7015 1660 0000 1539 8318)

Bureau of Land Management & Bureau of Indian Affairs
6251 College Boulevard, Suite A
Farmington, New Mexico 87402

Re: Notice of Application: Authorization to Inject
South Escavada Unit SWD #001
Sandoval County, New Mexico

Ladies and Gentlemen:

The purpose of this communication is to provide notice that Enduring Resources, LLC is making an application for administrative approval to dispose of produced water by means of underground injection. The proposed produced water disposal site is known as the South Escavada Unit SWD #001. Located in the SE/4 of Sec. 27-T22N-R7W at 36.108398°N, -107.555480°W in Sandoval County, New Mexico. Disposal water will be sourced from area production and will be injected into the Entrada Sandstone formation between the depths of 6579' to 6809' below ground level.

Pursuant to Section 19.15.26 NMAC notice requirement associated with this application, any interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Frances Drive, Santa Fe, NM 87505 within 15 days of the date of this letter.

Enclosed is a copy of the completed C-108 application to be filed with the NMOCD. Please do not hesitate to contact me at (505) 716-3297 or sford@enduringresources.com if you have any questions.

Regards,

Shaw-Marie Ford
Shaw-Marie (Shaw) Ford
Enduring Resources

Encls.

1704 85

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

BLM-FFO & BIA-FFO
Attn: C. Wenman
6251 College Blvd., Ste. A
Farmington, NM 87401

9590 9401 0117 5225 0458 58

2. Article Number *(Transfer from service label)*

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A. Signature

X ☐ Agent ☐ Addressee

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

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- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
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- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

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Attn: C. Wenman
6251 College Blvd., Ste. A
Farmington, NM 87401

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ENDURING RESOURCES, LLC
200 Energy Court, Farmington, New Mexico 87401
Telephone: (505) 636-9720

March 13, 2025

Via Certified Mail (Article 7015 1660 0000 1539 8301)

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Re: Notice of Application: Authorization to Inject
South Escavada Unit SWD #001
Sandoval County, New Mexico

Ladies and Gentlemen:

The purpose of this communication is to provide notice that Enduring Resources, LLC is making an application for administrative approval to dispose of produced water by means of underground injection. The proposed produced water disposal site is known as the South Escavada Unit SWD #001. Located in the SE/4 of Sec. 27-T22N-R7W at 36.108398°N, -107.555480°W in Sandoval County, New Mexico. Disposal water will be sourced from area production and will be injected into the Entrada Sandstone formation between the depths of 6579' to 6809' below ground level.

Pursuant to Section 19.15.26 NMAC notice requirement associated with this application, any interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Frances Drive, Santa Fe, NM 87505 within 15 days of the date of this letter.

Enclosed is a copy of the completed C-108 application to be filed with the NMOCD. Please do not hesitate to contact me at (505) 716-3297 or sford@enduringresources.com if you have any questions.

Regards,
Shaw-Marie Ford
Shaw-Marie (Shaw) Ford
Enduring Resources

Encls.

17045-16

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

NM State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

9590 9401 0117 5225 0458 65

2. Article Number *(Transfer from service label)*

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A. Signature

X ☐ Agent ☐ Addressee

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

D. Is delivery address different from item 1? ☐ Yes
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- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
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NM State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

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

Affidavit of Publication

STATE OF NEW MEXICO } SS
COUNTY OF BERNALILLO }

Ad Cost: $67.32
Ad Number: 185990
Account Number: 1112620
Classification: NON-GOVERNMENT LEGALS

I, Bernadette Gonzales, the undersigned, Legal Representative of the Albuquerque Journal, on oath, state that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, chapter 167, Session Laws of 1937, and payment of fees has been made of assessed and a copy of which is hereto attached, was published in said publication in the daily edition, 1 times(s) on the following date(s):

February 20, 2025

That said newspaper was regularly issued and circulated on those dates.
SIGNED:

Legal Representative

Subscribed to and sworn to me this 20th day of February 2025.

David Lindsey Montoya
Notary Public
_____ County Bernalillo
ID#: 1140229
My commission expires: 04-26-2027

Shaw-Marie Ford, Regulatory Specialist at Enduring Resources, LLC located at 200 Energy Court, Farmington, NM is making an application for administrative approval to dispose of produced water by underground injection. The proposed produced water disposal site is known as the S. Escavada Unit SWD #001. Located in Sandoval County at 36.108398°N -107.555480°W in Sec. 27-T22N-R7W. Disposal water will be sourced from area production and will be injected into the Entrada Sandstone formation between the depths of 6,579' to 6,809' below ground level. Average injection rate will be 8,000 Bbls/day with a maximum of 20,000 Bbls/day. Average injection pressure will be 800 psi with a maximum injection pressure of 1,385 psi. Any interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Frances Drive, Santa Fe, NM 87505 within 15 days of the date of this publication.

Journal: February 20, 2025

STATE OF NEW MEXICO
NOTARY PUBLIC
DAVID LINDSEY MONTOY
COMMISSION NUMBER 114(
EXPIRATION DATE 04-26-20

Enduring Resources, LLC
200 Energy Court
Farmington, NM 87401

Application For Authorization to Inject
Enduring Resources, LLC
S. Escavada Unit SWD #001

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my and belief.

Shaw-Marie Ford _____ _3/13/2025_____
Date

Shaw-Marie Ford
Regulatory Specialist
Enduring Resources, LLC
M: (505) 716-3297
E: sford@enduringresources.com

S.Ford 3/13/2025

AE Order Number Banner

Application Number: pEG2512759876

SWD-2652

ENDURING RESOURCES, LLC [372286]

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 443077
	Action Type: [C-108] Fluid Injection Well (C-108)

CONDITIONS

Created By	Condition	Condition Date
erica.gordan	None	5/7/2025