

AE Order Number Banner

Application Number: pSYS2535634678

Initial Application Part I

SWD-2686

Whiptail Gallup Gathering, LLC [332293]

Received: 12/5/2025

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Applicant: <u>Western Refining Pipeline, LLC</u>	OGRID Number: <u>332293</u>
Well Name: <u>Carson Unit WDW #242</u>	API: <u>30-045-32447</u>
Pool: <u>SWD; Entrada</u>	Pool Code: <u>96436</u>

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

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location – Spacing Unit – Simultaneous Dedication

☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]

[I] Commingling – Storage – Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

2) NOTIFICATION REQUIRED TO: Check those which apply.

- A. ☒ Offset operators or lease holders
 B. ☒ Royalty, overriding royalty owners, revenue owners
 C. ☒ Application requires published notice
 D. ☒ Notification and/or concurrent approval by SLO
 E. ☒ Notification and/or concurrent approval by BLM
 F. ☐ Surface owner
 G. ☒ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

- ☐ Notice Complete
☐ Application Content Complete

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

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

Justin Myers

Print or Type Name

Signature

JMMyers2@MarathonPetroleum.com

e-mail Address

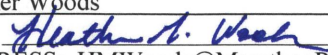
11/06/2025

Date

(701) 300-1666

Phone Number

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Saltwater Disposal and the application qualifies for administrative approval.
- II. OPERATOR: Western Refining Pipeline, LLC
ADDRESS: 111 Road 4990, Bloomfield, NM 87413
CONTACT PARTY: Heather Woods PHONE: (505) 512-9797
- III. WELL DATA: All Well Data and Applicable Wellbore Diagrams and Packer Info are attached.
- IV. This is not an expansion of an existing project.
- V. A map is attached identifying 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. A tabulation of data is attached on all wells of public record within the area of review. Apart from the subject well, there are no other wells which penetrate the proposed injection zone. There is one (1) active well, thirteen (13) plugged site released, and one (1) cancelled well(s) within the ½ mile area of review. The attached data includes 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. Within the two-mile radius, there are ten (10) active wells, one hundred sixty-one (161) plugged site released, and eight (8) cancelled wells.
- VII. The following data is attached 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. Appropriate geologic data on the injection zone is attached 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. Not applicable. Describe the proposed stimulation program This well's perforated interval is F/6910' – T/6990' for a total of 320 open holes. 3.5" 9.3# N80 EUE plastic coated tubing set F/surface – T/7186'. Packer set at 6820'.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). Well logs are on file with OCD.
- *XI. Attach a chemical analysis of fresh water from two or more freshwater wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. The Affirmative Statement of available geologic and engineering data has been examined and no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. "Proof of Notice" section on the next page of this form has been completed and is attached. There are three (3) offset lessees/operators within one mile plus Federal minerals – all have been noticed. Location is Federal.
- 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: Heather Woods TITLE: Environmental Specialist
SIGNATURE:  DATE: 11/06/2025
E-MAIL ADDRESS: HMWoods@MarathonPetroleum.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: Previous application SWD-2521 (API 30-039-31378)

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.

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled
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WELL LOCATION INFORMATION

API Number 30-045-32447	Pool Code 96436	Pool Name SWD; Entrada
Property Code 335049	Property Name Carson Unit WDW	Well Number 242
OGRID No. 332293	Operator Name Western Refining Pipeline, LLC	Ground Level Elevation 6425
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL C	Section 24	Township 25N	Range 12W	Lot	Ft. from N/S 719 NORTH	Ft. from E/W 1802 WEST	Latitude 36.3919449	Longitude -108.0658951	County San Juan
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Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers. SWD-pending			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation:
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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 10/20/2025
Signature Date

Shaw-Marie Ford

Printed Name

sford@enduringresources.com

Email 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:



Edgar L. Risenhoover

Signature and Seal of Professional Surveyor

Certificate Number

5979

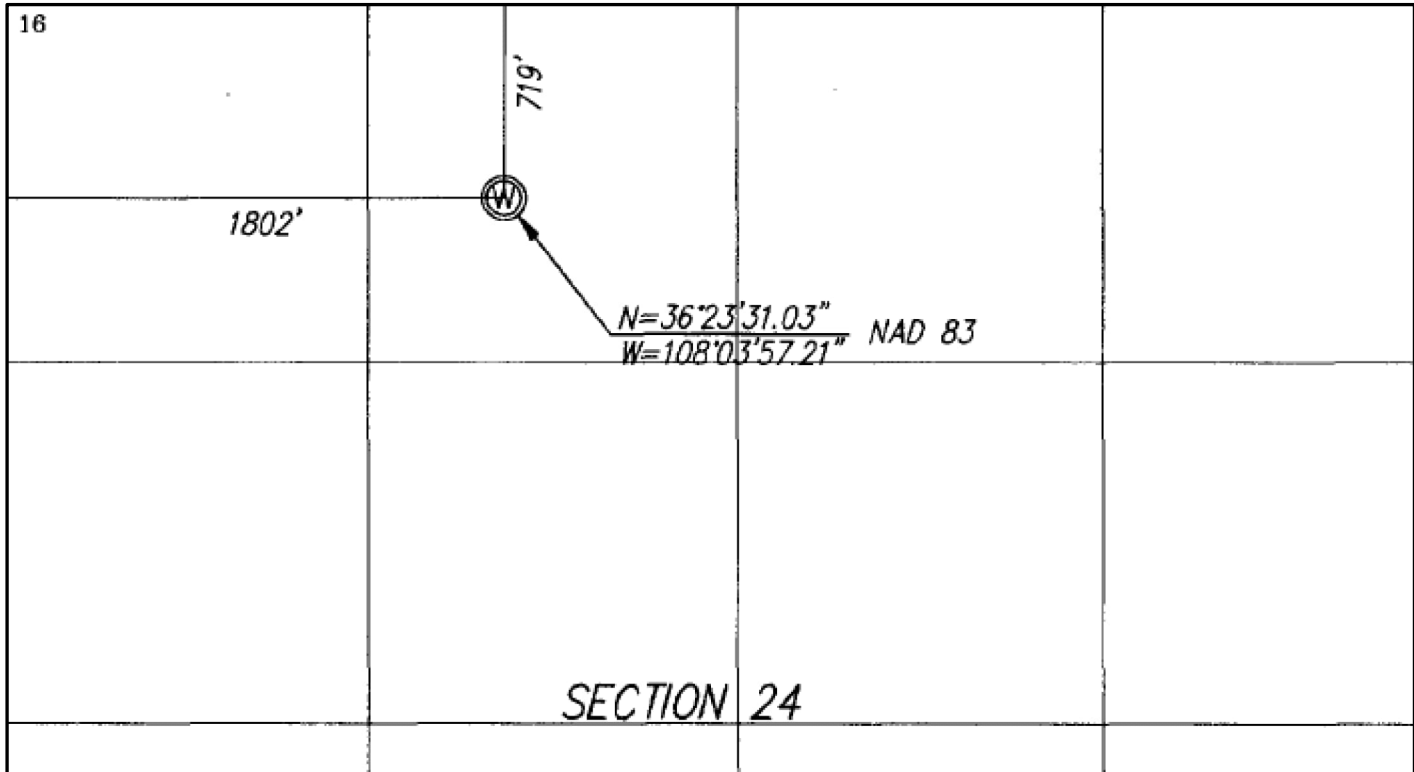
Date of Survey

April 4, 2002

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.

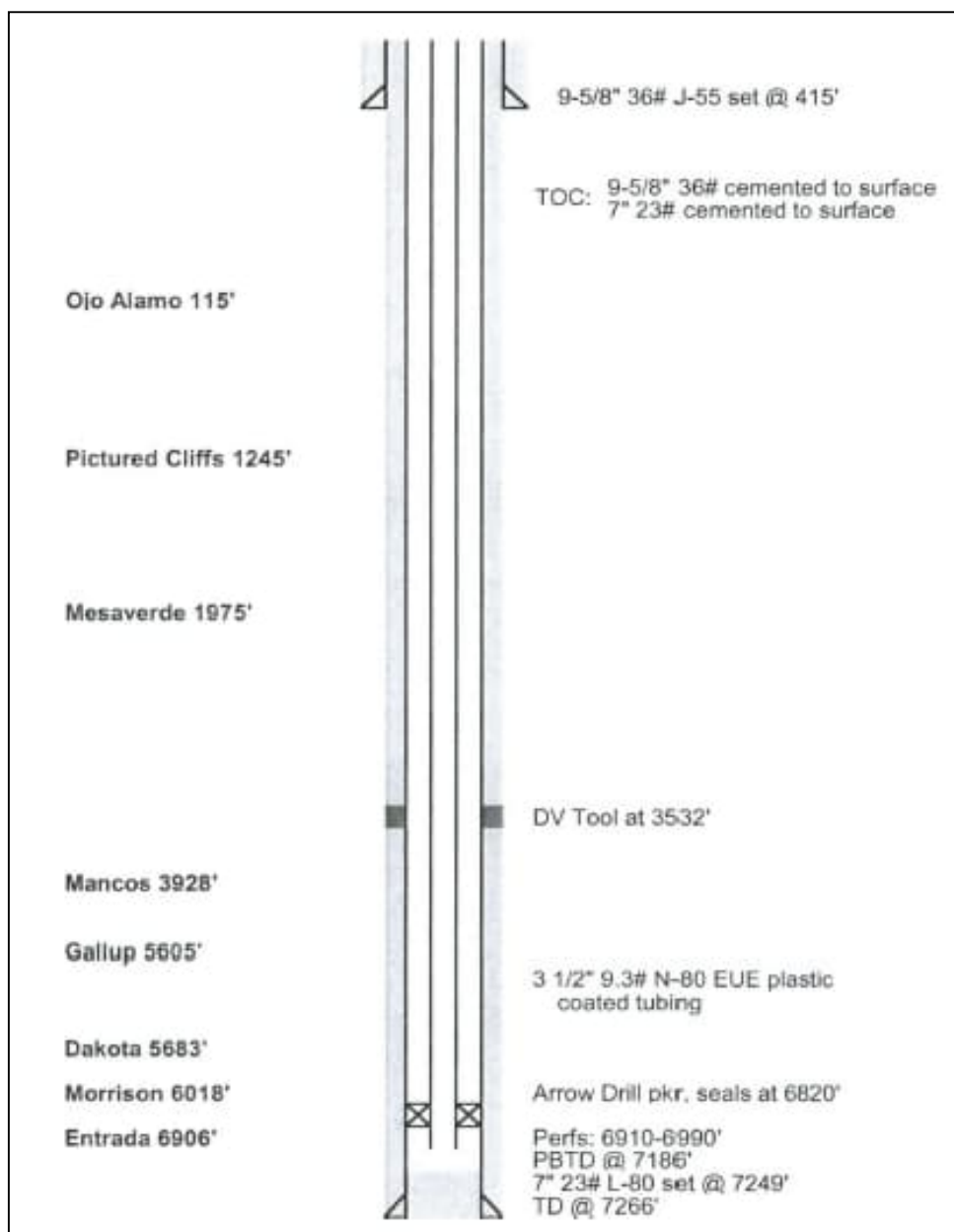
This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



Western Refining Pipeline, LLC
30-045-32447 Carson WDW #242
719 FNL 1802 FWL
Sec. 24 T25N R12W

Current Wellbore Schematic



XIII. Proof of Notice

General public notification was given through advertisement in a local newspaper on October 15, 2025.

All surface owners and offset operators within a two-mile radius were sent notification of the proposed underground injection site on October 20,2025.

BALLANTINE

COMMUNICATIONS

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO

County of San Juan

Odette Zenizo, the undersigned, authorized Representative of the Tri-City Record, on oath states that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Law of 1937, that payment therefore has been made or assessed as court cost; and that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, for 1 time(s) on the following date(s):

10/15/2025

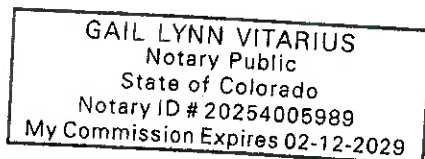
Sworn and subscribed before me, a notary public in and for the county of La Plata and the State of Colorado, 10-16-25

Gail Lynn Vitarius
Notary Public

PRICE: \$ 78.76

Statement to come at the end of the month.

ACCOUNT NUMBER: 112993



COPY OF ADVERTISEMENT

31347

Shaw-Marie Valadez,
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 Carson WDW
#242, an existing disposal well.
Located in San Juan County at
36.3919449°N,
-108.0658951°W in Sec.24-
T25N-12W. Disposal water will
be sourced from area
production and will be injected
into the Entrada Sandstone
formation between the depths
of 6,910 to 6,990' below ground
level. Average injection rate will
be 1,000 Bbls/day with a
maximum of 2,000 Bbls/day.
Average injection pressure will
be 1,200 psi with a maximum of
1,382 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.

Published in Tri-City Record

October 15, 2025

**ENDURING RESOURCES, LLC**

200 Energy Court, Farmington, New Mexico 87401

Telephone: (505) 636-9720

October 20, 2025

Via Certified Mail
Advanced Wireless Communications
5500 Railroad Street
Farmington, New Mexico 87402

Re: on behalf of Whiptail Gallup Gathering, LLC
Notice of Application: Authorization to Inject and otherwise reinstate for saltwater disposal
30-045-32447 Carson Unit WDW #242, NENW Section 24-T25N-R12W, San Juan 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 on behalf of Whiptail Gallup Gathering, LLC. The subject well was previously authorized for saltwater disposal by Division Order SWD-933. This well went inactive for a period of 12 months and a new C-108 application is required. By re-permitting this existing produced water disposal well, the applicant can again service disposal needs of operators in the area. The Entrada Sandstone formation is the target of this C-108. Injection zone is between the depths of 6910' to 6990' 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
Enduring Resources

Encls.

1704581

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

AWC
5500 Railroad St.
Fmtn, NM 87402



9590 9401 0117 5225 0458 10

2. Article Number (Transfer from service label)

7015 1660 0000 1539 8356

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

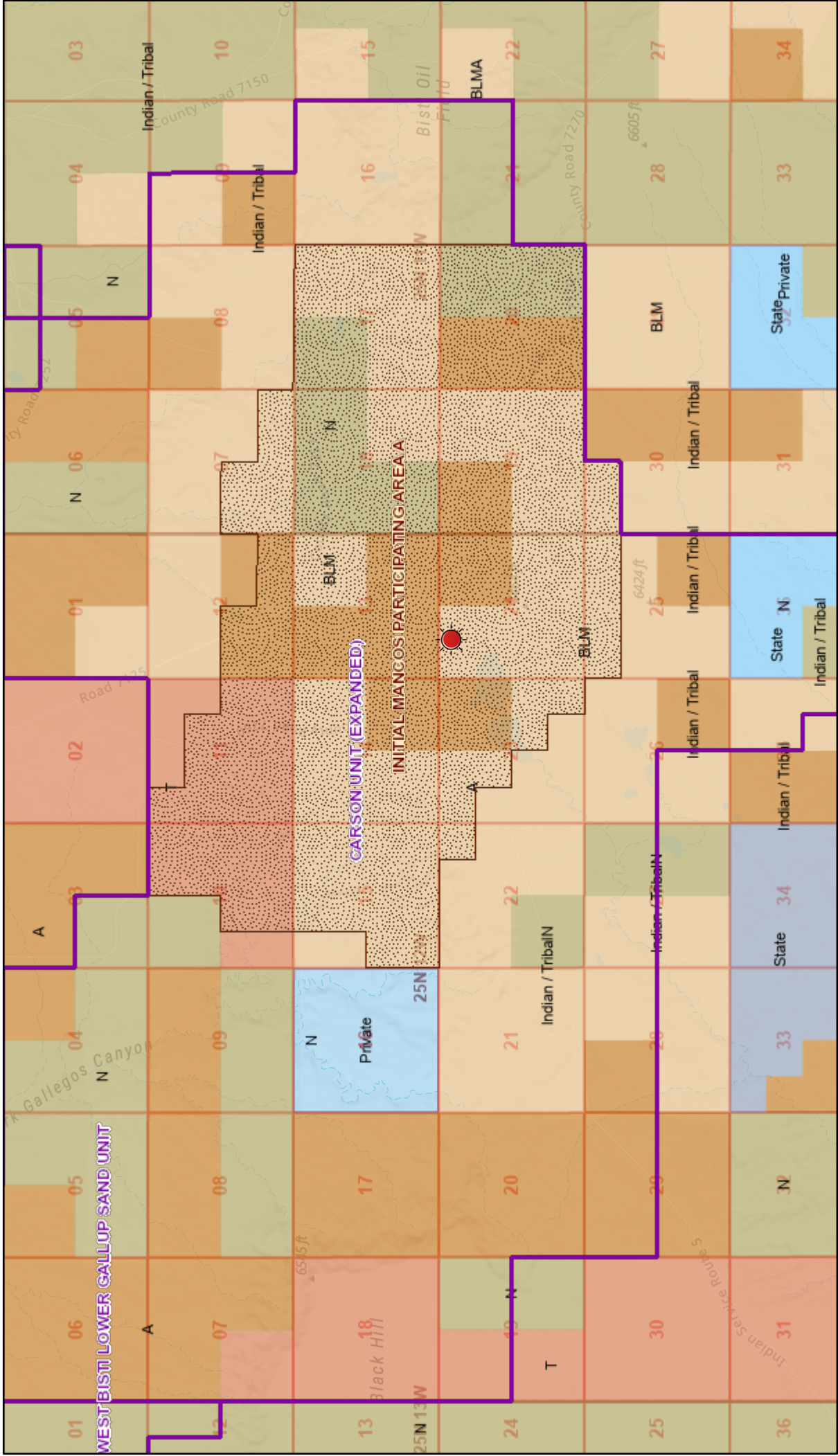
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over \$500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™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

Application For Authorization to Inject
Western Refining Pipeline, LLC
30-045-32447 Carson Unit WDW #242

Leases within two miles of the Carson Unit WDW #242

Serial Number	Legacy Serial Number	Lease Type	Tract Numbe	Tract Commitment Stat	Acres	Allocation Percenta
NMNM105501928	NMSF 0078061	Federal	01	Fully Committed	640	9.0343
NMNM105652509	NMSF 0078062A	Federal	02	Fully Committed	320	4.5171
NMNM105464663	NMSF 0078063	Federal	03	Fully Committed	962.29	13.5837
NMNM105446773	NMSF 0078064	Federal	04	Fully Committed	1520	21.4564
NMNM105366387	NMSF 0078067	Federal	06	Fully Committed	1520	21.4564
NMNM105508331	NMSF 0078068A	Federal	07	Fully Committed	160	2.2586
NMNM105367050	NMNM 070322	Federal	08	Fully Committed	1000	14.1161
BIA 14-20-603-1283		Indian	09	Fully Committed	160	2.2586
BIA 14-20-603-1284		Indian	10	Fully Committed	160.77	2.2694
BIA 14-20-603-1285		Indian	11	Fully Committed	161.07	2.2737
BIA 14-20-603-1440		Indian	15	Fully Committed	160	2.2586
BIA 14-20-603-1441		Indian	19	Fully Committed	160	2.2586
BIA 14-20-603-1435		Indian	20	Fully Committed	160	2.2586
TOTAL					7,084.1300	100.0001

Carson WDW #242



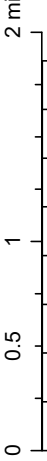
10/8/2025, 10:19:12 AM

- Override 1
- Participating Areas in Units
- Unit Agreement Boundaries
- Mineral Ownership

- N-No minerals are owned by the U.S.
- T-Other minerals are owned by the U.S.
- Land Ownership
- BLM
- I

- P
- S
- PLSS First Division
- PLSS Townships

1:72,224



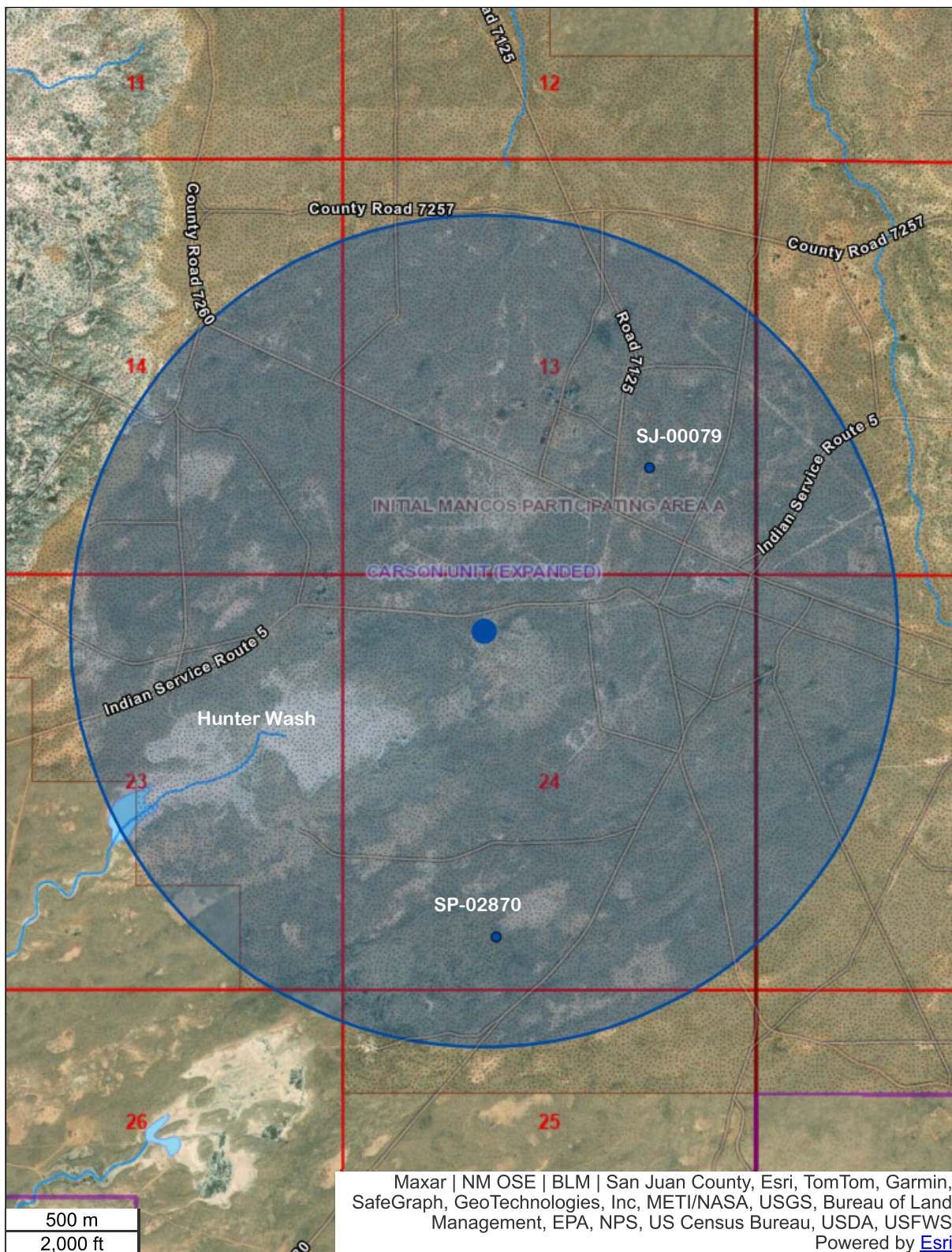
U.S. BLM, Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, BLM

PODs 1 Mile Radius

Area of Interest (AOI) Information

Area: 3.14 mi²

Date: Fri Oct 17 2025 12:48:42 GMT-0600 (Mountain Daylight Time)



Wells - Large Scale | Total count: 54

Revised December 1975

IMPORTANT — READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

MC-107868

Declaration of Owner of Underground Water Right

SAN JUAN UNDERGROUND WATER BASIN
BASIN NAME

Declaration No. SJ-1716

Date received April 29, 1983

STATEMENT

1. Name of Declarant U. S. Dept. of Interior, Bureau of Land Management
Mailing Address P. O. Box 568, Farmington, New Mexico 87499-0568
County of San Juan, State of New Mexico
2. Source of water supply Nacimiento Formation
(artesian or shallow water aquifer)
3. Describe well location under one of the following subheadings:
a. 1/4 NE 1/4 SW 1/4 of Sec. 1 Twp. 25 N. Rge. 12 W. N.M.P.M., in San Juan County.
b. Tract No. _____ of Map No. _____ of the _____
c. X = _____ feet, Y = _____ feet, N. M. Coordinate System _____ Zone _____ in the _____ Grant.
On land owned by Bureau of Land Management (see address above)
W. R. West
4. Description of well: date drilled 6/20/63-2/5/64 driller Drilling Co. depth 403 feet.
outside diameter of casing 6 5/8 inches; original capacity 40 gal. per min.; present capacity 40 gal. per min.; pumping lift 375 feet; static water level 210 feet ~~below~~ (below) land surface;
make and type of pump 1 7/8 inch cylinder (plunger on sucker rod)
make, type, horsepower, etc., of power plant 14 foot diameter aermotor mounted on steel tower.
Fractional or percentage interest claimed in well 100% (all)
5. Quantity of water appropriated and beneficially used 15 (acre feet per acre) (acre feet per annum) for livestock and wildlife purposes.
6. Acreage actually irrigated N/A acres, located and described as follows (describe only lands actually irrigated):

Subdivision	Sec.	Twp.	Range	Acres Irrigated	Owner
					85AHR29
					AD: 35

(Note: location of well and acreage actually irrigated must be shown on plot on reverse side.)

7. Water was first applied to beneficial use 2 month 5 day 1964 year and since that time has been used fully and continuously on all of the above described lands or for the above described purposes except as follows: N/A

8. Additional statements or explanations Carson No. 1 Well (see Log of Well and Project Completion Report)

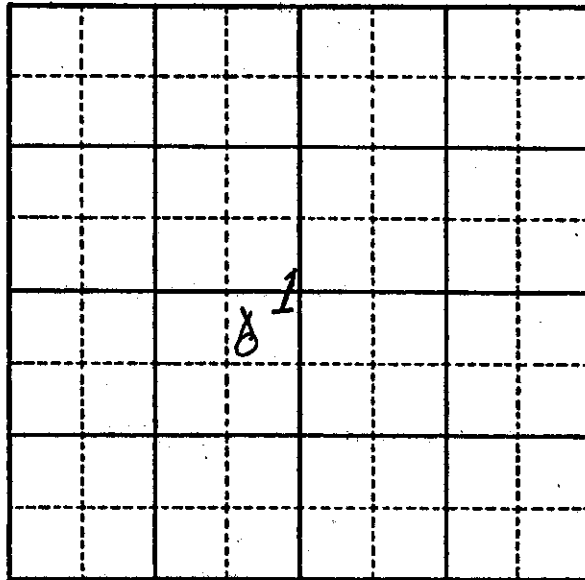
I, Farmington Resource Area Manager being first duly sworn upon my oath, depose and say that the above is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully read each and all of the items contained therein and that the same are true to the best of my knowledge and belief.

Jim Lewis, declarant.
by: _____

Subscribed and sworn to before me this 25 day of April, A.D. 19 83
My commission expires April 13, 1987 Shirley C. Davenport Notary Public

Locate well and areas actually irrigated as accurately as possible on following plat:

Section (s) 1, Township 25 N., Range 12 W. N. M. P. M.



INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a \$1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Secs. 1-3. Complete all blanks.

Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest $2\frac{1}{2}$ acre subdivision. If located on unsurveyed lands, describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.



United States Department of the Interior

IN REPLY REFER TO

7421

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
P.O. BOX 568
FARMINGTON, NEW MEXICO 87499-0568

APR 28 1983

New Mexico State Engineer
District I Office
2340 Menaul, NE, Suite 206
Albuquerque, New Mexico 87107-1884

Dear Sir:

Enclosed, please find Declaration of Owner of Underground Water Right for sixteen of our wells for livestock and wildlife watering purposes. Sixteen dollars are enclosed for filing fees.

If you have any questions, please call Dana Shuford of our staff (505-325-3581).

Sincerely yours,

acting Jim Senius
Area Manager

Enclosures

STATE OF NEW MEXICO
DISTRICT I
ALBUQUERQUE, N. MEX.

83APR29 A10:34

Revised April, 1974

IMPORTANT - READ INSTRUCTIONS BEFORE FILLING OUT THIS FORM

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

CHANGE OF OWNERSHIP OF WATER RIGHT

38 OCT 11 P 3: 32

1. NAME OF WATER RIGHT OWNER OF RECORD James E. Crawford via Claudine R. Crawford
Mailing Address 3204 South Side River Road
City and State Farmington, New Mexico 87401
the owner and holder of a water right set forth in file number 2870-(25)
of record in the office of the State Engineer has conveyed part of said right to:
(all or part)
Name Henry Nowakowski and Henry John Nowakowski
Mailing Address 612 Fern Dr.
City and State Farmington, New Mexico 87401

2. IRRIGATION: The conveyed water right is appurtenant to lands described as follows (describe only lands with actual water right and diversion as that amount of water measured at the well and/or farm headgate):

SUBDIVISION (District or Hydrographic Survey)	SECTION	TOWNSHIP (Map No.)	RANGE (Tract No.)	ACREAGE	DIVERSION (Acre Feet Per Annum)	PRIORITY
W $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$	26	29N	12W	4.1	12.3	Oct. 24, 1955
TOTAL				4.1	12.3	

OTHER: Purpose _____ ; Amount _____ (acre feet per annum of diversion); Priority _____

3. DESIGNATE WELLS TO ACCOMPANY THE CONVEYED RIGHT: (To be executed if conveyance involves only a part of a ground water right):

WELL FILE NO.	SUBDIVISION (District or Hydrographic Survey)	SECTION	TOWNSHIP (Map No.)	RANGE (Tract No.)
SJ-1996	W $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$	26	29N	12W

4. I HEREBY CONSENT TO A LAWFUL CHANGE IN THE PLACE AND/OR PURPOSE OF USE OF THE ABOVE-DESCRIBED WATER RIGHT: (To be executed if water right described above is a right for irrigation purposes and has been conveyed separate from the land to which it is appurtenant.)

The undersigned, being first duly sworn upon oath, deposes and says that he has read the foregoing statements and that the same are true to the best of his knowledge and belief.

Henry Nowakowski
Henry John Nowakowski

Subscribed and sworn to before me this 4th day of October, A. D., 19 88
My commission expires: January 16, 1992 Vickie Ball Notary Public

INSTRUCTIONS

Change of ownership shall be filed in triplicate and executed either by conveyor (seller) or by the new owner and shall be accompanied by a filing fee of \$1.00. If executed by the new owner it shall be accompanied by a certified copy of the deed or other instrument of conveyance.

FOR STATE ENGINEER USE ONLY

A _____ from _____ to _____
(warranty deed, other)
was found by me to be recorded on the _____ day of _____, A. D., 19 _____ on page _____
of Book No. _____ of record of _____ County.

By: _____ Date: _____
Date Received October 11, 1988 File No. 2870-(25)

Nowakowski : 10-11-88

IMPORTANT – READ INSTRUCTIONS BEFORE FILLING OUT THIS FORM

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

30 OCT 11 P3: 32

- Name Henry Nowakowski and Henry John Nowakowski
Mailing Address 612 Fern Dr.
City and State Farmington, New Mexico 87401

- | SUBDIVISION
(District or Hydrographic Survey) | SECTION | TOWNSHIP
(Map No.) | RANGE
(Tract No.) | ACREAGE | DIVERSION
(Acre Feet
Per Annum) | PRIORITY |
|---|---------|-----------------------|----------------------|---------|---------------------------------------|---------------|
| W $\frac{1}{2}$ NE $\frac{1}{2}$ SE $\frac{1}{2}$ | 26 | 29N | 12W | 4.1 | 12.3 | Oct. 24, 1955 |

TOTAL	<u>4.1</u>	<u>12.3</u>
-------	------------	-------------

3. **DESIGNATE WELLS TO ACCOMPANY THE CONVEYED RIGHT: (To be executed if conveyance involves only a part of a ground water right):**

WELL FILE NO.

SUBDIVISION
(District or Hydrographic Survey)

SECTION

TOWNSHIP
(Map No.)

RANGE
(Tract No.)

SJ-1996

W $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$

26

29N

12W

4. I HEREBY CONSENT TO A LAWFUL CHANGE IN THE PLACE AND/OR PURPOSE OF USE OF THE ABOVE-DESCRIBED WATER RIGHT: (To be executed if water right described above is a right for irrigation purposes and has been conveyed separate from the land to which it is appurtenant.)

The undersigned, being first duly sworn upon oath, deposes and says that he has read the foregoing statements and that the same are true to the best of his knowledge and belief.

Subscribed and sworn to before me this 4th day of October, A. D., 19 88

My commission expires: January 16, 1992 Victor Hall Notary Public

INSTRUCTIONS

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FOR STATE ENGINEER USE ONLY

A _____ from _____ to _____
(warranty deed, other)

was found by me to be recorded on the _____ day of _____, A. D., 19 _____ on page _____

_____ of Book No. _____ of record of _____ County.

By: _____ Date: _____

Date Received October 11, 1988

File No. 2870-(25)

Nowakowski

10-11-88

Revised April, 1974

IMPORTANT – READ INSTRUCTIONS BEFORE FILLING OUT THIS FORM STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

CHANGE OF OWNERSHIP OF WATER RIGHT

1. NAME OF WATER RIGHT OWNER OF RECORD James E. Crawford via Claudine Riddle
Mailing Address 3204 South Side River Road
City and State Farmington, New Mexico 87401
the owner and holder of a water right set forth in file number 2870-(25)
of record in the office of the State Engineer has conveyed part of said right to:
(all or part)
Name Henry Nowakowski and Henry John Nowakowski
Mailing Address 612 Fern Dr.
City and State Farmington, New Mexico 87401

2. IRRIGATION: The conveyed water right is appurtenant to lands described as follows (describe only lands with actual water right and diversion as that amount of water measured at the well and/or farm headgate):

SUBDIVISION (District or Hydrographic Survey)	SECTION	TOWNSHIP (Map No.)	RANGE (Tract No.)	ACREAGE	DIVERSION (Acre Feet Per Annum)	PRIORITY
W $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$	26	29N	12W	4.1	12.3	Oct. 24, 1955
TOTAL				4.1	12.3	

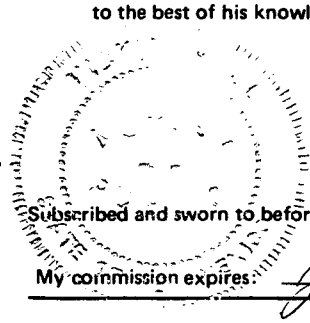
OTHER: Purpose _____ ; Amount _____ (acre feet per annum of diversion); Priority _____

3. DESIGNATE WELLS TO ACCOMPANY THE CONVEYED RIGHT: (To be executed if conveyance involves only a part of a ground water right):

WELL FILE NO.	SUBDIVISION (District or Hydrographic Survey)	SECTION	TOWNSHIP (Map No.)	RANGE (Tract No.)
SJ-1996	W $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$	26	29N	12W

4. I HEREBY CONSENT TO A LAWFUL CHANGE IN THE PLACE AND/OR PURPOSE OF USE OF THE ABOVE-DESCRIBED WATER RIGHT: (To be executed if water right described above is a right for irrigation purposes and has been conveyed separate from the land to which it is appurtenant.)

The undersigned, being first duly sworn upon oath, deposes and says that he has read the foregoing statements and that the same are true to the best of his knowledge and belief.



Subscribed and sworn to before me this 4th day of October, A. D., 19 88
My commission expires: January 16, 1992
Henry Nowakowski
Henry John Nowakowski
Vickie Ball Notary Public

INSTRUCTIONS
Change of ownership shall be filed in triplicate and executed either by conveyor (seller) or by the new owner and shall be accompanied by a filing fee of \$1.00. If executed by the new owner it shall be accompanied by a certified copy of the deed or other instrument of conveyance.

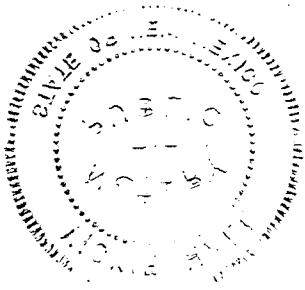
FOR STATE ENGINEER USE ONLY

A _____ from _____ to _____
(warranty deed, other)
was found by me to be recorded on the _____ day of _____, A. D., 19 _____ on page _____
_____ of Book No. _____ of record of _____ County: _____

By: _____ Date: _____
Date Received October 11, 1988 File No. 2870-(25)

STAT. ENGINEER OFFICE
AZTEC, NEW MEXICO

38 OCT 11 P 3 : 33



76756 SF - 7 SHORT FORM SPECIAL WARRANTY DEED (Joint Tenants)—Rev. 1-76

VALLIANT CO.

ALBUQUERQUE, N. M.

SPECIAL WARRANTY DEED (Joint Tenants)

CLAUDINE RIDDLE, a married woman dealing with her sole and separate property, joined pro-forma by her husband JOHN RIDDLE, for consideration paid, grant...

to HENRY NOWAKOWSKI, a married man as his sole and separate property, and

HENRY JOHN NOWAKOWSKI, a single man

whose address is 612 Fern Drive, Farmington, New Mexico 87401

and:

whose address is:

88 OCT 11 P 3:32

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

as joint tenants the following described real estate in San Juan County, New Mexico:

ALL OUR RIGHT, TITLE AND INTEREST IN AND TO:

4.17 acres, more or less, in the West One-Half of the Northeast Quarter of the Southeast Quarter (W $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$) of Section Twenty-Six (26), in Township Twenty-Nine (29) North of Range Twelve (12) West, N.M.P.M., described as follows:

BEGINNING South 89°50'58" West 993.97 feet from the Southeast corner of the NE $\frac{1}{4}$ SE $\frac{1}{4}$ of said Section 26;

THENCE North 00°32'19" East 510 feet, more or less, to the Southwest corner of a tract conveyed to William W. Manchester by real estate contract recorded in Book 921, page 504 of the records of San Juan County, New Mexico;

THENCE North 80°57'40" East 338.11 feet along the South line of said Manchester Tract to the West line of Windsor Estates Subdivision;

THENCE South 0°12' West 568.14 feet;

THENCE South 89°50'58" West 336.79 feet to the point of beginning;

TOGETHER WITH the use and benefit of ingress and egress easements as set out in that certain real estate contract recorded in Book 924, page 156 of the Records of San Juan County, New Mexico, referring to easements reserved in real estate contract recorded in Book 921, page 504 of the Records of San Juan County, New Mexico;

SUBJECT TO taxes for the year 1985 and thereafter; mineral reservations and/or conveyances heretofore made; and any and all easements and servitudes, public or private, of whatsoever kind or nature, in existence at the date hereof;

AND SUBJECT TO that certain real estate wherein D.C. Knutson et ux are Owners and Claudine Riddle is Purchaser, recorded in Book 924, page 156 of the Records of said County;

This instrument is being recorded to convey all of Grantor's water rights appurtenant to subject property.
with special warranty covenants.

WITNESS our hands and seals this 9th day of June, 1988

(Seal)

CLAUDINE RIDDLE

(Seal)

(Seal)

JOHN RIDDLE

(Seal)

ACKNOWLEDGMENT FOR NATURAL PERSONS

STATE OF NEW MEXICO
COUNTY OF SAN JUAN

ss.

The foregoing instrument was acknowledged before me this 29th day of June, 1988,

by CLAUDINE RIDDLE and JOHN RIDDLE, wife and husband

(Name or Names of Person or Persons Acknowledging)

My commission expires:

(Seal) September 8, 1988

ACKNOWLEDGMENT FOR CORPORATION

STATE OF NEW MEXICO

COUNTY OF

ss.

The foregoing instrument was acknowledged before me this day of 19

(Name of Officer)

(Title of Officer)

(Name of Corporation Acknowledging)

a corporation, on behalf of said corporation.

(State of Incorporation)

My commission expires:

(Seal)

Notary Public

FOR RECORDER'S USE ONLY

FILED OR RECORDED

BOOK 1090 PAGE 328
SAN JUAN COUNTY, NEW MEXICO

JUL 05 1988

AT 11:17 O'CLOCK A M

CAROL BANDY

COUNTY CLERK

DEPUTY

Rec # R006579 Fee \$5.00

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

88 OCT 11 P3:33



STATE OF NEW MEXICO
STATE ENGINEER OFFICE
AZTEC

S. E. REYNOLDS
STATE ENGINEER

112 S. MESA VERDE
AZTEC, NEW MEXICO 87410

334-9481 x 274

October 12, 1988

File No. 2870-(25)

Henry Nowakowski
Henry John Nowakowski
612 Fern Dr.
Farmington, New Mexico 87401

Dear Sirs:

Enclosed is your copy of the Change of Ownership of Water Right you submitted to this office for filing in the above captioned water right files. A change of ownership is accepted for filing without an opinion being expressed as to the validity or extent of water right claimed.

Also enclosed is an official receipt for the \$2.00 filing fee.

Sincerely,

S. E. Reynolds
State Engineer

By: Bill Enenbach
Bill Enenbach
Water Rights Division

BE/jf

enclosures
cc: Claudine Riddle

88 OCT 14 AM 11:21
STATE ENGINEER OFFICE
NEW MEXICO

No. 166477		STATE ENGINEER SANTA FE, NEW MEXICO		CONTROL NUMBER			
OFFICIAL RECEIPT				DATE October 11, 1981			
FILE NO.	AM'T REC'D	GW	SW	TOTAL			
2870-(25)	CASH		X	2.10			
	CHECK						
BANK							
FOR PAYMENT AS INDICATED BELOW							
Change of Ownership of Water Right							
NAME AND ADDRESS		FOR USE BY SANTA FE OFFICE ONLY					
Henry Nowakowski		WATER RIGHTS					
Henry John Nowakowski		DATE	EARNED		REFUND	TRANSCRIPT EXP.	BALANCE
12 Fern Drive			GW	SW			
Farmington, N. M. 87401							
FOR USE BY ADMINISTRATIVE DIVISION							

Application For Authorization to Inject
Western Refining Pipeline, LLC
30-045-32447 Carson Unit WDW #242

VI. Tabulation of Data on wells which penetrate the proposed injection zone

Apart from the Carson WDW #242 well:

There are no wells within the ½ mile area of review which penetrate the proposed injection zone

There are no wells within the 2-mile area of review which penetrate the proposed injection zone

There are ten (10) active wells, one hundred sixty-one (161) plugged site released wells, and eight (8) wells within the 2-mile area of review.

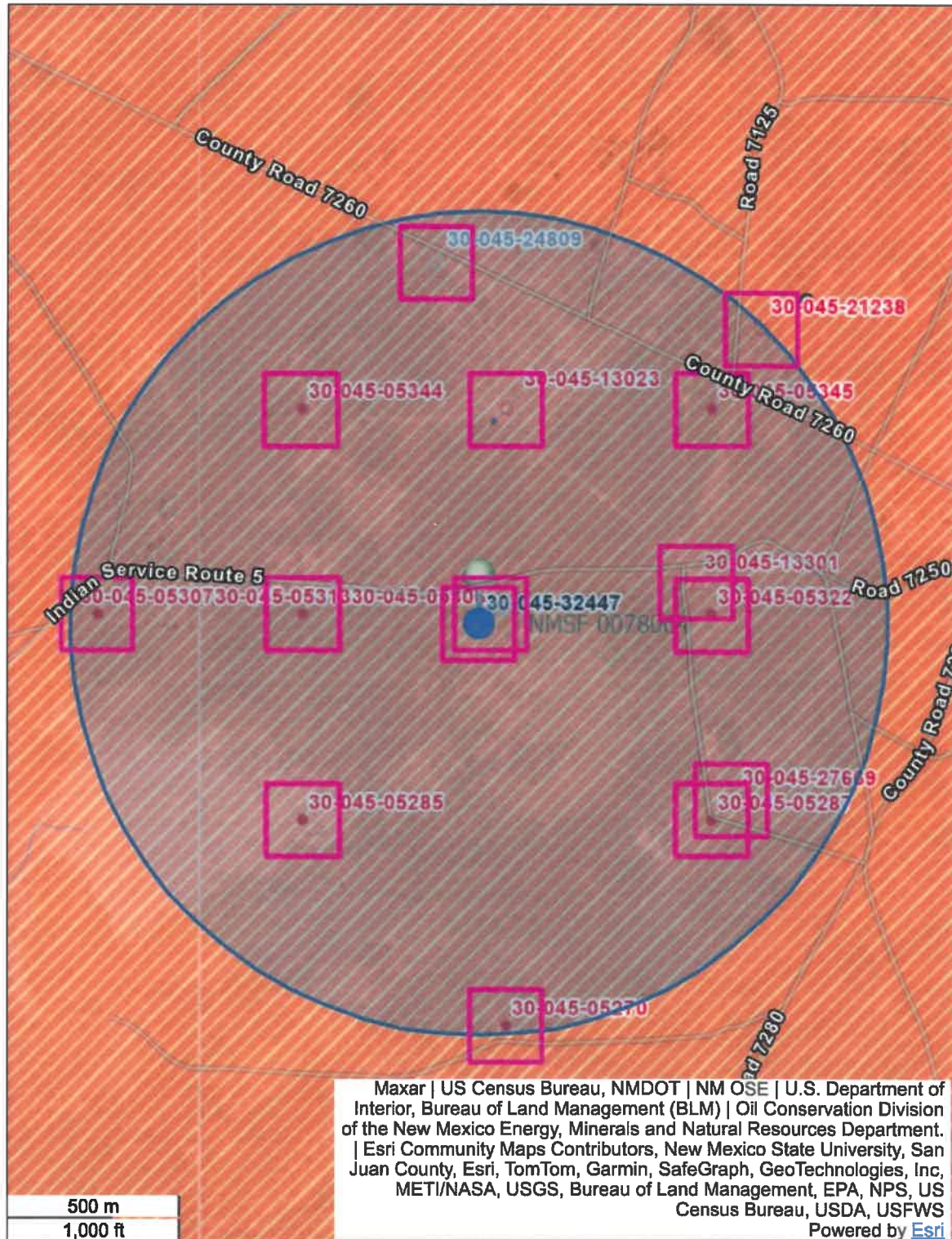
The Carson WDW #242 is the one (1) active well, thirteen (13) plugged site released, and one (1) cancelled well(s) within the ½ mile area of review.

Carson WDW #242 0.5 Mile

Area of Interest (AOI) Information

Area: 0.78 mi²

Date: Fri Oct 17 2025 11:09:41 GMT-0600 (Mountain Daylight Time)



Wells - Large Scale | Total count: 15

0.5 Mile Radius

API	Well Name	Well Type Code	Well Status Code	OGRID	SPUD Date	Plug Date	Lease Type Code	Measured Depth	Vertical Depth	Well Bore Direction	Associated Pools
30-045-32447	CARSON UNIT WDW #242	S	A	332293	4/21/2005	12/31/9999	F	7,266	7,266	V	[96436] SWD, ENTRADA
30-045-24809	PRE-ONGARD WELL #204	G	C	214263	12/31/9999	12/31/9999	F	0	0		
30-045-05306	PRE-ONGARD WELL #021	O	P	214263	3/29/1958	9/27/1975	F	0	5,015	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05313	PRE-ONGARD WELL #011	O	P	214263	4/13/1959	10/3/1975	F	0	5,015	V	[5890] BISTI LOWER-GALLUP (O)
30-045-13023	CARSON UNIT #024	I	P	149052	12/1/1959	6/5/2002	F	5,035	5,035	V	[5890] BISTI LOWER-GALLUP (O)
30-045-13301	CARSON UNIT #001	S	P	149052	9/6/1960	11/3/2006	F	3,825	3,825	V	[96160] SWD, MESAUVERDE
30-045-05322	PRE-ONGARD WELL #031	O	P	214263	3/21/1960	8/8/1977	F	0	5,030	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05285	PRE-ONGARD WELL #012	O	P	214263	10/10/1957	10/3/1975	F	0	5,006	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05344	CARSON UNIT #014	O	P	149052	4/12/1957	3/27/2002	F	5,040	5,040	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05287	PRE-ONGARD WELL #032	O	P	214263	3/20/1958	10/7/1975	F	0	5,010	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27669	CARSON 24 #332 <i>no wellbore diagram</i>	G	P	8987	4/5/1990	12/29/1994	F	1,290	1,330	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-05345	PRE-ONGARD WELL #034	O	P	214263	5/13/1957	10/12/1977	F	0	5,100	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05307	PRE-ONGARD WELL #041	O	P	214263	5/3/1957	1/14/1993	F	0	5,072	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05270	PRE-ONGARD WELL #023	O	P	214263	4/22/1958	9/27/1975	F	0	4,990	V	[5890] BISTI LOWER-GALLUP (O)
30-045-21238	PRE-ONGARD WELL #200	G	P	214263	3/5/1973	2/14/1974	F	0	1,330	V	[96928] WC D3, PICTURED CLIFFS

Prognosis
Plug and Abandonment
Carson Unit 11-24
Section 24, T25N, R12W
San Juan County, New Mexico

Pertinent Data

8 5/8"
to 112

TD: 5015 PBTB:
8 5/8" Csg. @ 112
4 1/2" Csg. @ 5013 w/150 sax. with 4% gel
7 7/8" Hole

Elevation: 6438
KB - GL = 9
Permanent Datum = KB
Past and current status: Presently TAD
Completed 5/8/59. Flowed 71 BOP
40 MCF/Day Gas

Proposed Work: Plug and Abandon

1. Pull equipment. If tubing is openended, lower to PBTB, load hole with mud. (Add 20 sax aquagel + 1 sack BeneX per 100 bbls of mud or 20 sax salt gel per 100 bbls mud).
2. Spot 20 sax Class "G" cement mixed w/1# floccle/sack over perforations and above perforations. Minimum requirements - 100' cement plug above perforations. WOC 12 Hrs
3. Pull tubing.
4. Rig up casing pullers.
5. Attempt to shoot and pull casing : (theoretical cement top at 4013. Top of Mancos Shale 3842. If unable to pull any casing, go to step 8.
6. If casing is recovered, run tubing OE and spot Class "G" cement plugs as follows:
 - a. 150' plug across stub of 4-1/2" casing. (50' in casing, 100' in open hole)
 - b. 200' plug from top of Fruitland Coal at 1160 to 1360.
 - c. 150' plug across base of Ojo Alamo sand at 260. (100' below base of sand and 50' above base of sand).
 - d. 100' plug across shoe of 8-5/8" casing. (30' in casing, 70' in open hole).
 - e. 10 sack plug at surface.

4874

4893

4907

4925

4934

4949

4955

4969

4973

4989

4 1/2" to
5013

TD 5015

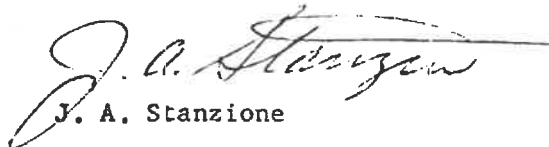
7. Install permanent abandonment marker as follows:

Steel marker at least 4 inches in diameter set in concrete and extending at least 4' above mean ground level. The name and number of the well and its location (Unit letter, section, township and range) shall be welded, stamped, or otherwise permanently engraved into the metal marker.

8. Perforate 4-1/2" casing w/4 JSPF as follows:

- a. Fruitland Coal - Pictures Cliffs interval 1220 to 1221.
- b. Below Ojo Alamo sand from 370 to 371.

- 9. Run tubing, spot a 50 sack (10.3 bbls, 630' in 4-1/2" casing) Class "G" cement plug from 1220 to 590.
- 10. Pull tubing to $\pm 400'$, close bradenhead, displace 20 sax through perforations 1220 to 1221. WOC hours.
- 11. Pull tubing to perforations 370 to 371.
- 12. Load 4-1/2" casing with cement ($\pm$ 35 sax) and pull tubing. With bradenhead open, displace 20 sax cement through perforations 370 to 371.
- 13. Spot 10 sack plug at surface.
- 14. Install abandonment marker as outlined in step 7.


J. A. Stanzione

Hixon Development Company

Well Bore Diagram

WELL NAME Carson Unit Well No. 11-24LOCATION 660' FNL, 660' FWLSECTION 24 T 25 N R 12 WCOUNTY San JuanSTATE New Mexico**SURFACE CASING**

Hole Size: _____

Casing: 8-5/8", 24#Casing Set @ 112'GLE 6428.9'KBE 6437.9'DF 6436.4**FORMATION TOPS**Pictured Cliffs 1264'Lewis 1408'Cliff House 1587'Allison-Menefee 2121'Point Lookout 3686'Mancos 3842'Gallup 4778'**WELL HISTORY**Spud date: 4/13/59Original owner: Shell Oil Co.IP 5/8/59 BOPD 71 BWPD 0MCFD 40 GOR 560

Completion Treatment: _____

Fraced with 50,000 gal crude,
2#/gal sand, 320 rubber balls**CURRENT DATA**

Pumping Unit _____

Tubing _____

Pump Size _____

Rod string _____

Remarks _____

Plug and abandoned 10/3/7510 sk cmt plug at surface35 sk cmt plug set at 182'55 sk cmt plug set at 386'20 sk cmt plug set across
perforations (4874'-4898')**CEMENT TOP** 4874'**PERFORATIONS**4874'-93'4907'-25'4934'-49'4955'-69'4973'-89'**PBD** _____**PRODUCTION CASING**

Hole Size: _____

Casing: 4-1/2", 9.5"Casing Set @ 5013'

5015' TD

Date Last Revised: 2/1/90

Prognosis
 Plug and Abandonment
 Carson Unit 21-24
 Section 24, T25 N, R12 W
 San Juan County, New Mexico

Pertinent Data

TD: 5015 PBTB:
8 5/8 Csg. @ 107
4 1/2 Csg. @ 5013 w/150 sax. with 4% gel
7 7/8 Hole

Elevation: 6437

KB - GL = 9

Permanent Datum = KB

Past and current status:

Presently TAD. Completed 6/27/58. Flowing 146 BOD
 31 MCF/Day gas

Proposed Work: Plug and Abandon

1. Pull equipment. If tubing is openended, lower to PBTB, load hole with mud. (Add 20 sax aquagel + 1 sack Benex per 100 bbls of mud or 20 sax salt gel per 100 bbls mud).
2. Spot 20 sax Class "G" cement mixed w/1# flocele/sack over perforations and above perforations. Minimum requirements - 100' cement plug above perforations. WOC overnight.
3. Pull tubing.
4. Rig up casing pullers.
5. Attempt to shoot and pull casing. (theoretical cement top at 4013. Top of Mancos Shale 3862. If unable to pull any casing, go to step 8.
6. If casing is recovered, run tubing OE and spot Class "G" cement plugs as follows:
 - a. 150' plug across stub of 4-1/2" casing. (50' in casing, 100' in open hole)
 - b. 200' plug from top of Fruitland Coal at 1230 to 1430.
 - c. 150' plug across base of Ojo Alamo sand at 290. (100' below base of sand and 50' above base of sand).
 - d. 100' plug across shoe of 8-5/8" casing. (30' in casing, 70' in open hole).
 - e. 10 sack plug at surface.

4876

4904

4939

4950

4956

4968

4973

4990

PBTB 5002

4 1/2" Csg.

TD 5015

7. Install permanent abandonment marker as follows:

Marker at least 4 inches in diameter set in concrete and extending at least 4' above mean ground level. The name and number of the well and its location (Unit letter, section, township and range) shall be welded, stamped, or otherwise permanently engraved into the metal marker.

8. Perforate 4-1/2" casing w/4 JSPF as follows:

- a. Fruitland Coal - Pictures Cliffs interval 1230 to 1231
- b. Below Ojo Alamo sand from 390 to 391.

9. Run tubing, spot a 50 sack (10.3 bbls, 630' in 4-1/2" casing) Class "G" cement plug from 1230 to 600.

10. Pull tubing to $\pm 400'$, close bradenhead, displace 20 sax through perforations 1230 to 1231. WOC hours.

11. Pull tubing to perforations 390 to 391.

12. Load 4-1/2" casing with cement (± 35 sax) and pull tubing. With bradenhead open, displace 20 sax cement through perforations 390 to 391.

13. Spot 10 sack plug at surface.

14. Install abandonment marker as outlined in step 7.


J. A. Stanzione

Hixon Development Company

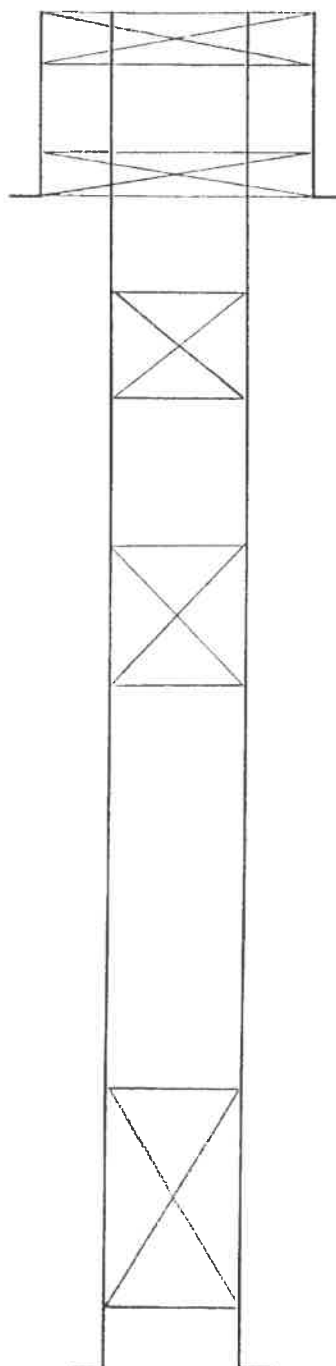
Well Bore Diagram

WELL NAME Carson Unit Well No. 21-24LOCATION 660' FNL, 1881' FWLSECTION 24 T 25 N R 12 WCOUNTY San JuanSTATE New Mexico**SURFACE CASING**

Hole Size: _____

Casing: 8-5/8", 24#Casing Set @ 107'GLE 6428.2'KBE 6436.7'DF 6435.7'**FORMATION TOPS**Pictured Cliffs 1332'Lewis 1415'Cliff House 1582'Allison-Menefee 2081'Point Lookout 3716'Mancos 3862'Gallup 4779'**CEMENT TOP** Cal 4013**PERFORATIONS**4876'-4904'4939'-50'4956'-68'4973'-90'**PBD** 5002'**PRODUCTION CASING**

Hole Size: _____

Casing: 4-1/2", 9.5#Casing Set @ 5013

5015' TD

WELL HISTORYSpud date: 3/29/58Original owner: Shell Oil Co.IP 6/27/58 BOPD 146 BWPD 0MCFD 31 GOR 210

Completion Treatment: _____

Fraced with 72,000 gal crude,
1 #/gal 20/40 sand.**CURRENT DATA**

Pumping Unit _____

Tubing _____

Pump Size _____

Rod string _____

Remarks _____

Plug and abandoned 9/30/7510 sk cmt plug at surface40 sk cmt plug set at 170'37 sk cmt plug set at 390'50 sk cmt plug set at 1519'20 sk cmt plug set at 4728'Date Last Revised: 2/1/90

Carson 24-1
Final

Diagram illustrating the wellbore completion details, showing the casing, plugs, and gravel pack sections.

Key components and dimensions:

- Plug #7
- Plug #6
- Plug #5
- Plug #4
- Plug #3
- Plug #2
- Plug #1
- 70'
- 13-3/8" 48.0 #/ft, H-40
- TOC 1070'
- 8.625 32.0 #/ft, J-55
- 2781'
- 2835'
- 2935'
- 3815'
- 3825'
- 2781 Top of Liner
- 6.625 18.9 #/ft Slotted Liner Gravel Packed

32" $8\frac{5}{8}"$
105'

Plug and Abandonment
Carson Unit 31-24
Section 24, T 25N, R 12W
San Juan County, New Mexico

Pertinent Data

TD: 5030' PBTD: 4996'

8 5/8" Csg. @ 105'

4 1/2" Csg. @ 5029' w/ 150 sax.

7 7/8" Hole

Elevation: 6436' KB

KB - GL = 9'

Permanent Datum = KB

Past and current status: Presently T.A'd
Possible hole in casing at 209' Initial
prod. Pumped 196 bbls.

Proposed Work: Plug and Abandon

1. No equipment. Run tubing openended, lower to PBTD, load hole with mud. (Add 20 sax aquagel + 1 sack Benes per 100 bbls of mud or 20 sax salt gel per 100 bbls mud).
2. Spot 20 sax Class "G" cement mixed w/1# floccle/sack over perforations and above perforations. Minimum requirements - 100' cement plug above perforations. W.O.C. 12 hrs.
3. Pull tubing.
4. Rig up casing pullers. Determine casing free point.
5. Attempt to shoot and pull casing at free point (theoretical cement top at 4260'). Top of Mancos Shale 3859'. Do not spend more than 3 hrs. on attempt to pull casing. If unable to pull any casing go to step 8.
6. If casing is recoverable, place cement plugs by cementing through casing or running tubing inside of csg. as it is pulled. Spot Class "G" cement plugs as follows:
 - a. 150' plug across stub of 4 1/2" casing. (50' in casing, 100' in open hole)
 - b. 200' plug from top of Fruitland Coal at 1160' to 1360'.
 - c. ~~150' plug across base of Ojo Alamo sand at 100' below base of sand and 50' above base of sand.~~
 - *d. 200' plug across shoe of 8-5/8" casing (30' in casing, 170' in open hole).
 - e. 10 sack plug at surface.

4876'
4844'
4819'
4724'
4743'
4751'
4766'
4768'
4772'
4766'
PBTD
4996'
4 1/2"
5029'
9.5"

* Provides 100' cement below base of Ojo Alamo

7. Install permanent abandonment marker as follows:

Steel marker at least 4 inches in diameter set in concrete and extending at least 4' above mean ground level. The name and number of the well and its location (Unit letter, section, township and range) shall be welded, stamped, or otherwise permanently engraved into the metal marker.

(Continuation from Step 5)

8. Perforate 4 1/2" casing w/4 JSPF as follows:
- a. Fruitland Coal - Pictures Cliffs interval 1180' to 1181'.
 - b. Below Ojo Alamo sand from 225' to 226'.
9. Run tubing, spot a 50 sack Class "G" cement plug from 1180' to 540'.
10. Pull tubing to 1400', close bradenhead, displace 20 sax through perforations 1180' to 1181'. WOC 2 hours.
11. Pull tubing to perforations 225' to 226'.
12. Load 4 1/2" casing with cement (18 sax) and pull tubing. With bradenhead open, displace 10 sax cement through perforations 225' to 226'.
13. Spot 10 sack plug at surface.
14. Install abandonment marker as outlined in step 7.

EW
COC:maf

J. A. Stanzione

Prognosis
Plug and Abandonment
Carson Unit 12-24
Section 24, T 25N, R 12W
San Juan County, New Mexico

Pertinent Data

TD: 5006 PBD: 8 5/8" Csg. @ 140
4 1/2" Csg. @ 5006 w/ 150 sax. with 4% gel.
7 7/8" Hole

Elevation: 6431

KB - GL = 8

Permanent Datum = KB

Past and current status:

Presently TAD Completed 11/28/57. Flowing 779 BOPD
994 MCF/Day Gas.

Proposed Work: Plug and Abandon

1. Pull equipment. If tubing is openended, lower to PBD, load hole with mud. (Add 20 sax aquagel + 1 sack Benex per 100 bbls of mud or 20 sax salt gel per 100 bbls mud).
2. Spot 20 sax Class "G" cement mixed w/1# flocele/sack over perforations and above perforations. Minimum requirements - 100' cement plug above perforations.
3. Pull tubing.
4. Rig up casing pullers.
5. Attempt to shoot and pull casing (theoretical cement top at 4006. Top of Mancos Shale 3820. If unable to pull any casing, go to step 8.
6. If casing is recovered, run tubing OE and spot Class "G" cement plugs as follows:
 - a. 150' plug across stub of 4-1/2" casing. (50' in casing, 100' in open hole)
 - b. 200' plug from top of Fruitland Coal at 1170 to 1370.
 - c. 150' plug across base of Ojo Alamo sand at 270. (100' below base of sand and 50' above base of sand).
 - d. 100' plug across shoe of 8-5/8" casing. (30' in casing, 70' in open hole).
 - e. 10 sack plug at surface.

8 5/8"
to 140

4847

4857

4875

4882

4886

4899

4905

4914

4927

4939

4945

4952

4 1/2"
5006

TD 5006

7. Install permanent abandonment marker as follows:

Set marker at least 4 inches in diameter set in concrete and extending at least 4' above mean ground level. The name and number of the well and its location (Unit letter, section, township and range) shall be welded, stamped, or otherwise permanently engraved into the metal marker.

8. Perforate 4-1/2" casing w/4 JSPF as follows:

- a. Fruitland Coal - Pictures Cliffs interval 1200 to 1201.
- b. Below Ojo Alamo sand from 370 to 371.

9. Run tubing, spot a 50 sack (10.3 bbls, 630' in 4-1/2" casing) Class "G" cement plug from 1200 to 570.

10. Pull tubing to $\pm 400'$, close bradenhead, displace 20 sax through perforations 1200 to 1201. WOC hours.

11. Pull tubing to perforations 370 to 371.

12. Load 4-1/2" casing with cement ($\pm$ 35 sax) and pull tubing. With bradenhead open, displace 20 sax cement through perforations 370 to 371.

13. Spot 10 sack plug at surface.

14. Install abandonment marker as outlined in step 7.


J. A. Stanzione

CENTRAL RESOURCES, INC.

Carson Unit "13" No. 14

Review Date: 4-26-00 by Rod Seale

Elevation: 6402' GL, 6414' KB

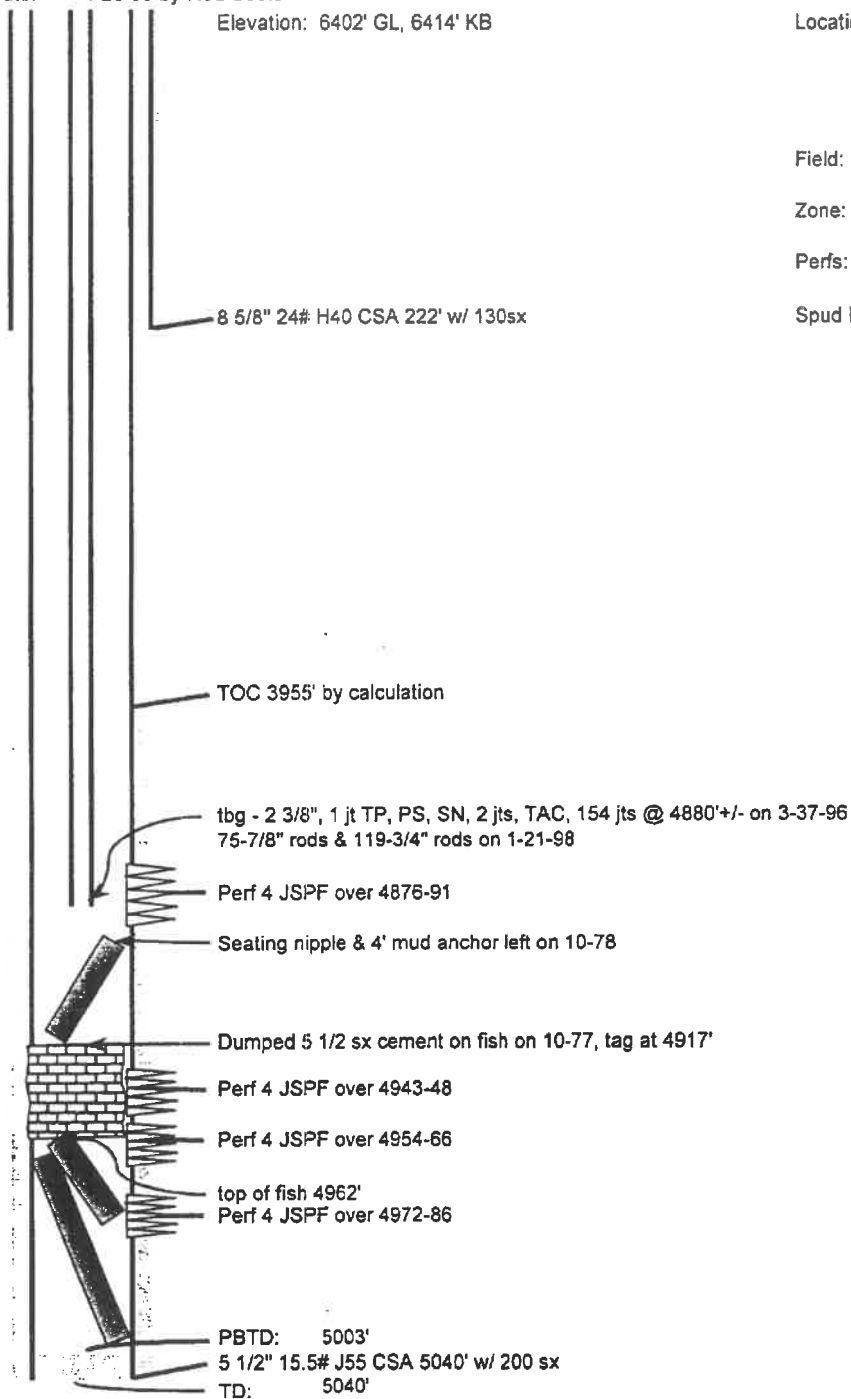
Location: 660' FSL, 660' FWL, Sec 13, 25-N, 12-W, San Juan County, New Mexico

Field: Bisti Lower Gallup

Zone: Lower Gallup

Perfs: 4876' - 4986'

Spud Date: April 12, 1957 12:00 AM



Rod Seale, Printed on 4/26/00

Prognosis
 Plug and Abandonment
 Carson Unit 32-24
 Section 24, T 25 N, R 12 W
 San Juan County, New Mexico

Pertinent Data

TD: 5012 PBTD: 5002
8 5/8" Csg. @ 97'
4 1/2" Csg. @ 5006 w/150 sax. with 4% gel
7 7/8" Hole

Elevation: 6455

KB - GL = 8

Permanent Datum = KB

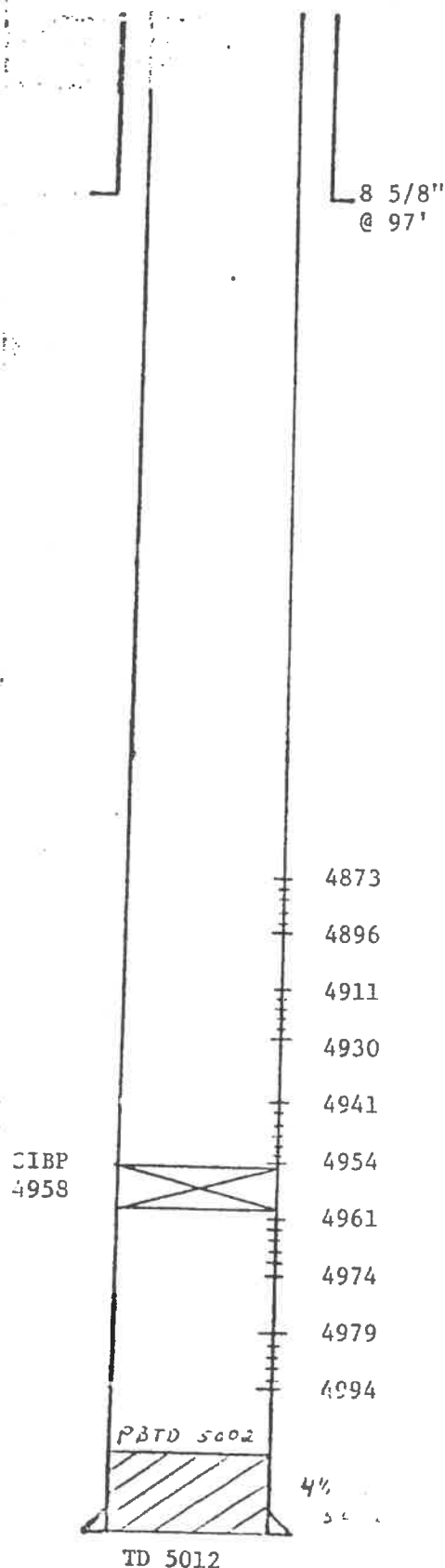
Past and current status: Presently TA'd

Completed 5/28/58. Flowed 124 BOD

13 MCF/Day Gas. Converted to water injection on 7/18/68

Proposed Work: Plug and Abandon

1. Pull equipment. If tubing is openended, lower to PBTD, load hole with mud. (Add 20 sax aquagel + 1 sack Benex per 100 bbls of mud or 20 sax salt gel per 100 bbls mud).
2. Spot 20 sax Class "G" cement mixed w/1# floccle/sack over perforations and above perforations. Minimum requirements - 100' cement plug above perforations. WOC 12 hrs
3. Pull tubing.
4. Rig up casing pullers.
5. Attempt to shoot and pull casing. (theoretical cement top at 4006. Top of Mancos Shale 3870. If unable to pull any casing, go to step 8.
6. If casing is recovered, run tubing OE and spot Class "G" cement plugs as follows:
 - a. 150' plug across stub of 4-1/2" casing. (50' in casing, 100' in open hole)
 - b. 200' plug from top of Fruitland Coal at 1200 to 1400.
 - c. 150' plug across base of Ojo Alamo sand at 300. (100' below base of sand and 50' above base of sand).
 - d. 100' plug across shoe of 8-5/8" casing. (30' in casing, 70' in open hole).
 - e. 10 sack plug at surface.



7. Install permanent abandonment marker as follows:

Steel marker at least 4 inches in diameter set in concrete and extending at least 4' above mean ground level. The name and number of the well and its location (Unit letter, section, township and range) shall be welded, stamped, or otherwise permanently engraved into the metal marker.

8. Perforate 4-1/2" casing w/4 JSPF as follows:

- a. Fruitland Coal - Pictures Cliffs interval 1300 to 1301.
- b. Below Ojo Alamo sand from 400 to 401.

9. Run tubing, spot a 50 sack (10.3 bbls, 630' in 4-1/2" casing) Class "G" cement plug from 1300 to 670.

10. Pull tubing to $\pm 400'$, close bradenhead, displace 20 sax through perforations 1300 to 1301. WOC 2 hours.

11. Pull tubing to perforations 400 to 401.

12. Load 4-1/2" casing with cement ($\pm$ 35 sax) and pull tubing. With bradenhead open, displace 20 sax cement through perforations 400 to 401.

13. Spot 10 sack plug at surface.

14. Install abandonment marker as outlined in step 7.

BK/KWL:sy


J. A. Stanzione

Prognosis
 Plug and Abandonment
 Carson Unit 34-13
 Section 13, T 25 N, R 12 W
 San Juan County, New Mexico

Pertinent Data

TD: 5104' PBTD: 5060'
 8-5/8" Csg. @ 218'
 4-1/2"-9.5#, J-55 Csg. @ 5096' w/150 sax + 4% gel.
 7-7/8" Hole

Elevation: 6421' KB

KB - GL = 9'

Permanent Datum = KB

Past and current status: Comp. 2/13/58.

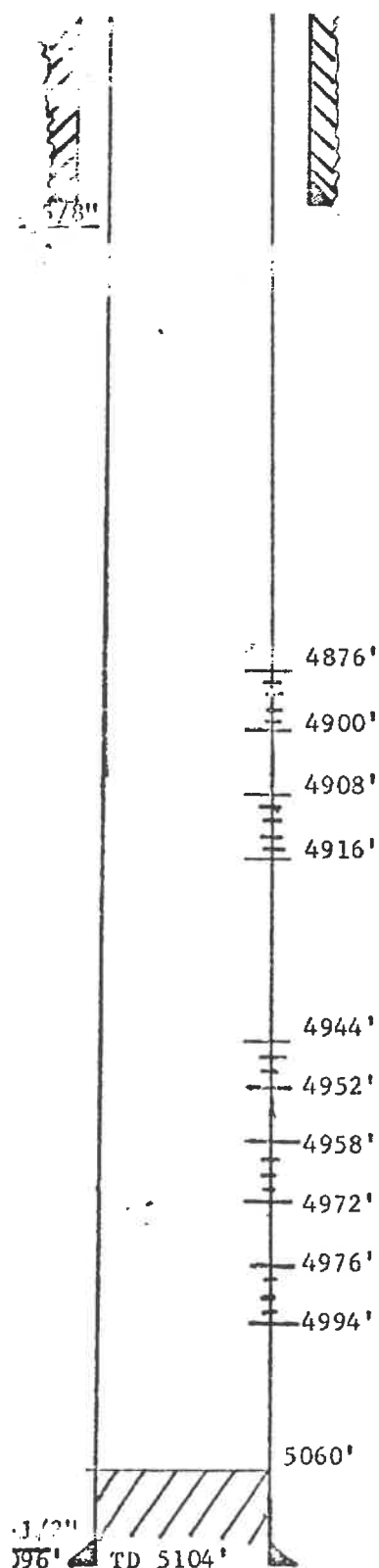
1970 - Date of last use. Presently TA'd.

5/72 - Retired Ppg Unit and Motor

12/73 - Retired tubing.

Proposed Work: Plug and Abandon

1. Pull rods. If tubing not equipped with a packer or anchor, lower tubing to PBTD and spot 20 sack Class "G" cement mixed with 1# flocele/sack over perfs. and above perfs. Minimum requirements - 100' of cement above perfs. WOC overnight.
2. Tag plug, load hole with mud. (Add 20 sax aquagel + 1 sack Benex per 100 bbls mud or 20 sax salt gel per 100 bbls mud.) *9 ppg?*
3. Pull tubing.
4. Rig up casing pullers. Run free point.
5. Attempt to shoot and pull casing. ~~at 3500'~~. (theoretical cement top at 4096'. Top of Mancos Shale 3853'. If unable to pull any casing, go to step 8.
6. If casing is recovered, run tubing OE and spot Class "G" cement plugs as follows:
 - a. 150' plug across stub of 4-1/2" casing. (50' in casing, 100' in open hole)
 - b. 200' plug from top of Fruitland Coal at 1195' to 1395'.
 - c. 150' plug across base of Ojo Alamo sand at 260'. (100' below base of sand and 50' above base of sand).
 - d. 100' plug across shoe of 8-5/8" casing. (30' in casing, 70' in open hole).
 - e. 10 sack plug at surface.



$8\frac{5}{8}"$
226'

24"

STIMULATION PROGNOSIS
CARSON UNIT 41-23
660' FNL AND 660' FEL
SECTION 23, T25N, R12W, NMPM
BISTI FIELD
SAN JUAN COUNTY, NEW MEXICO

PERTINENT DATA:

Elev: 6434.7' KB
KB-GL: 9'
TD: 5072' PBD: 5028'

Completion Date: 10/29/57

CURRENT STATUS: Producing 1.5 BDO + 17 BDW

PROPOSED WORK: Plug back the lower sands w/cement and stimulate the upper sand of the Gallup producing interval to improve oil productivity.

PROCEDURE:

1. Move in rig. Pressure pump for indication of any leaks.
2. Pull rods and pump. Visually inspect rods for any defects.
3. Lower tubing and tag bottom.
4. Tally tubing out of hole. Visually inspect tubing for any defects.
5. If fill is above 4940', bail clean to 4940'±.
6. Run casing scraper on tubing to 4935'. Test tubing if necessary. Pull tubing and scraper.
7. Plug back with cement from clean-out depth to 4900' using dump bailer. Minimum top of cement to be at 4900'. W.O.C. overnight.
8. Run tubing with retrievable packer and 1 joint tail.
9. Flush Service Company's injection line and pump before hooking up to wellhead.

4872'
4888'
4903'
4915'
4919'
4926'
4932'
4940'
4953'
4964'

$4\frac{1}{2}"$
5062'

9.5"

PBD
5028'

Prognosis
Plug and Abandonment
Carson Unit 23-24
Section 24, T 25N, R 12W
San Juan County, New Mexico

Pertinent Data

TD: 4990 PBTB: 4980
8 5/8 Csg. @ 103
4 1/2 Csg. @ 4986 w/ 150 sax.
7 7/8 Hole

Elevation: 645

KB - GL = 9

Permanent Datum = KB

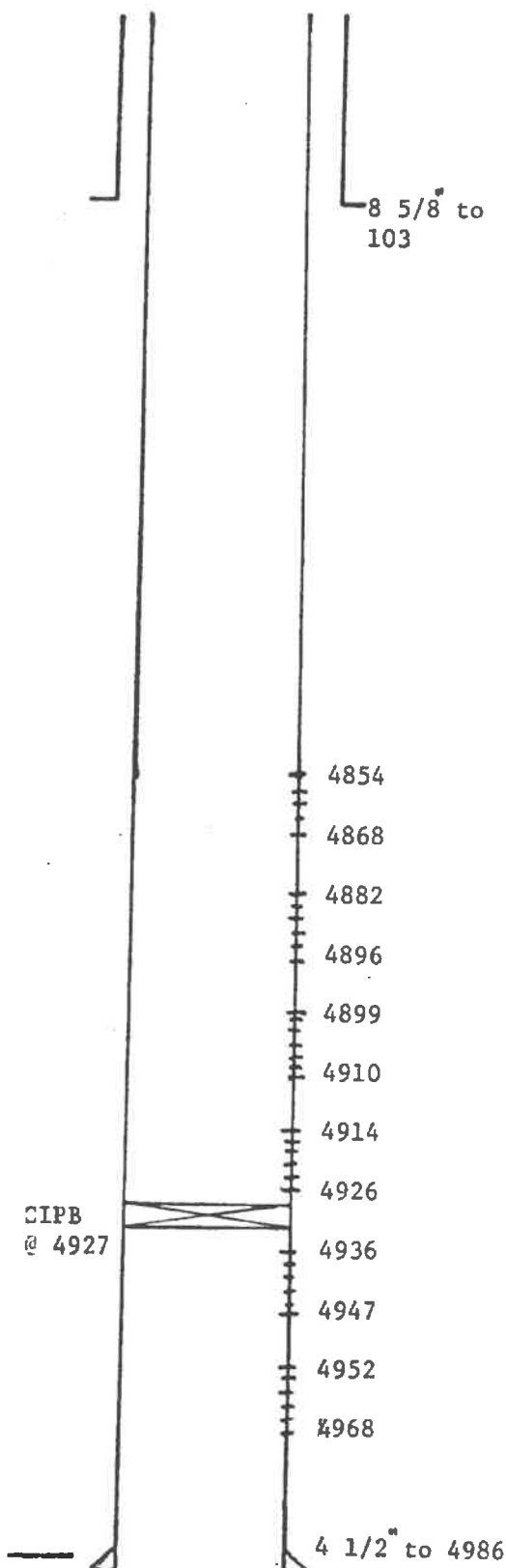
Past and current status:

Well TA'D. I.P. 5/22/58 @ 531 BP Flowing

Converted to injection, S.I. 1970

Proposed Work: Plug and Abandon

1. Pull equipment. If tubing is openended, lower to PBTB, load hole with mud. (Add 20 sax aquagel + 1 sack Benex per 100 bbls of mud or 20 sax salt gel per 100 bbls mud).
2. Spot 20 sax Class "G" cement mixed w/1# flocele/sack over perforations and above perforations. Minimum requirements - 100' cement plug above perforations. WOC 12 hrs
3. Pull tubing.
4. Rig up casing pullers.
5. Attempt to shoot and pull casing . . . (theoretical cement top at 3986. Top of Mancos Shale 3848. If unable to pull any casing, go to step 8.
6. If casing is recovered, run tubing OE and spot Class "G" cement plugs as follows:
 - a. 150' plug across stub of 4-1/2" casing. (50' in casing, 100' in open hole)
 - b. 200' plug from top of Fruitland Coal at 1200 to 1400.
 - c. 150' plug across base of Ojo Alamo sand at 270. (100' below base of sand and 50' above base of sand).
 - d. 100' plug across shoe of 8-5/8" casing. (30' in casing, 70' in open hole).
 - e. 10 sack plug at surface.



TD 4990

7. Install permanent abandonment marker as follows:

Steel marker at least 4 inches in diameter set in concrete and extending at least 4' above mean ground level. The name and number of the well and its location (Unit letter, section, township and range) shall be welded, stamped, or otherwise permanently engraved into the metal marker.

8. Perforate 4-1/2" casing w/4 JSPF as follows:

- a. Fruitland Coal - Pictures Cliffs interval 1250 to 1251.
- b. Below Ojo Alamo sand from 370 to 371.

9. Run tubing, spot a 50 sack (10.3 bbls, 630' in 4-1/2" casing) Class "G" cement plug from 1250 to 620.

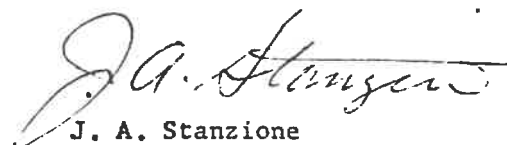
10. Pull tubing to $\pm 400'$, close bradenhead, displace 20 sax through perforations 1250 to 1251. WOC hours.

11. Pull tubing to perforations 370 to 371.

12. Load 4-1/2" casing with cement ($\pm$ 35 sax) and pull tubing. With bradenhead open, displace 20 sax cement through perforations 370 to 371.

13. Spot 10 sack plug at surface.

14. Install abandonment marker as outlined in step 7.


J. A. Stanzione

PLUGGING AND ABANDONING PROGNOSIS
CARSON UNIT 34X-13 (#200)
Sec. 13, T25N, R12W
BISTI FIELD, SAN JUAN COUNTY, NEW MEXICO

PERTINENT DATA:

Elev: 6408'
KB-GL: 11'
TD: 1330'
PBDT: 1283'

Perfs: 1234'-1256'
Shell's W.I.: 100%
AFE: 588770

CURRENT STATUS: Shut in

PROCEDURE:

1. MI and R.U. pulling unit. Pick up a minimum of 1300-ft of available 2" tubing.
2. Check wellhead pressure and bleed off if any, then load well with 21 bbls of water (hole may not stand full).
3. R.U. cementers, and run in hole w/tubing open ended and set a bottom plug from approximately 1100' to TD w/ min. 20 sacks API class A cement w/2% CaCl₂.
4. Wait a min. of 3 hours before filling the hole w/water. Meanwhile pull tubing and remove wellhead.
5. Spot a top plug from 100' to surface w/10 sacks cement as above.
6. R.D. cementers and pulling unit.
7. Cut off casing 5' below the surface and weld on a casing cap and erect a permanent marker.

SPC:psl

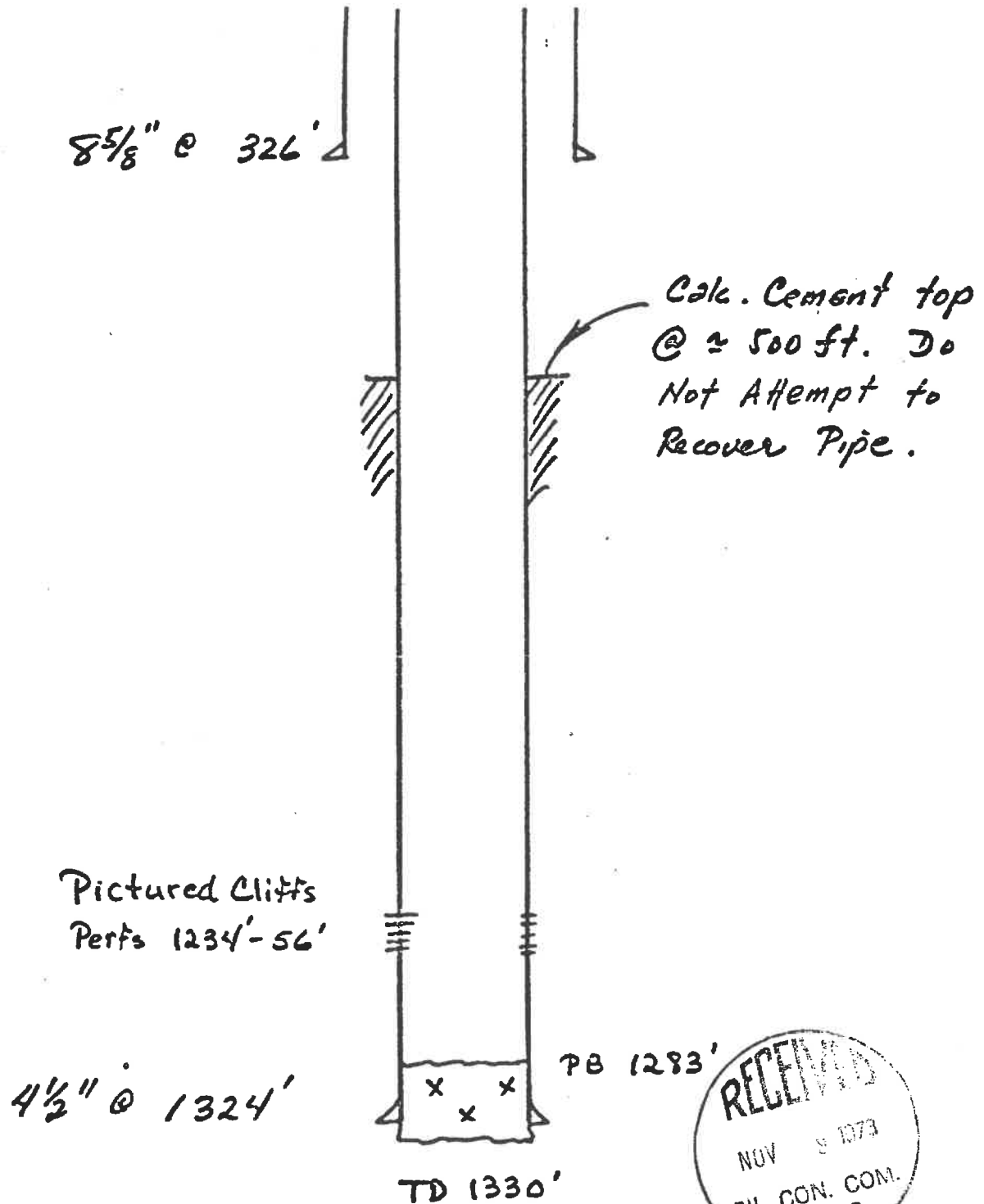
10/11/73

Div. O.E. K.R. JordanDiv. P.E. F.A. Wise

H. J. Frank
B. L. Faulk



Carson Unit 34X-13 (#200)

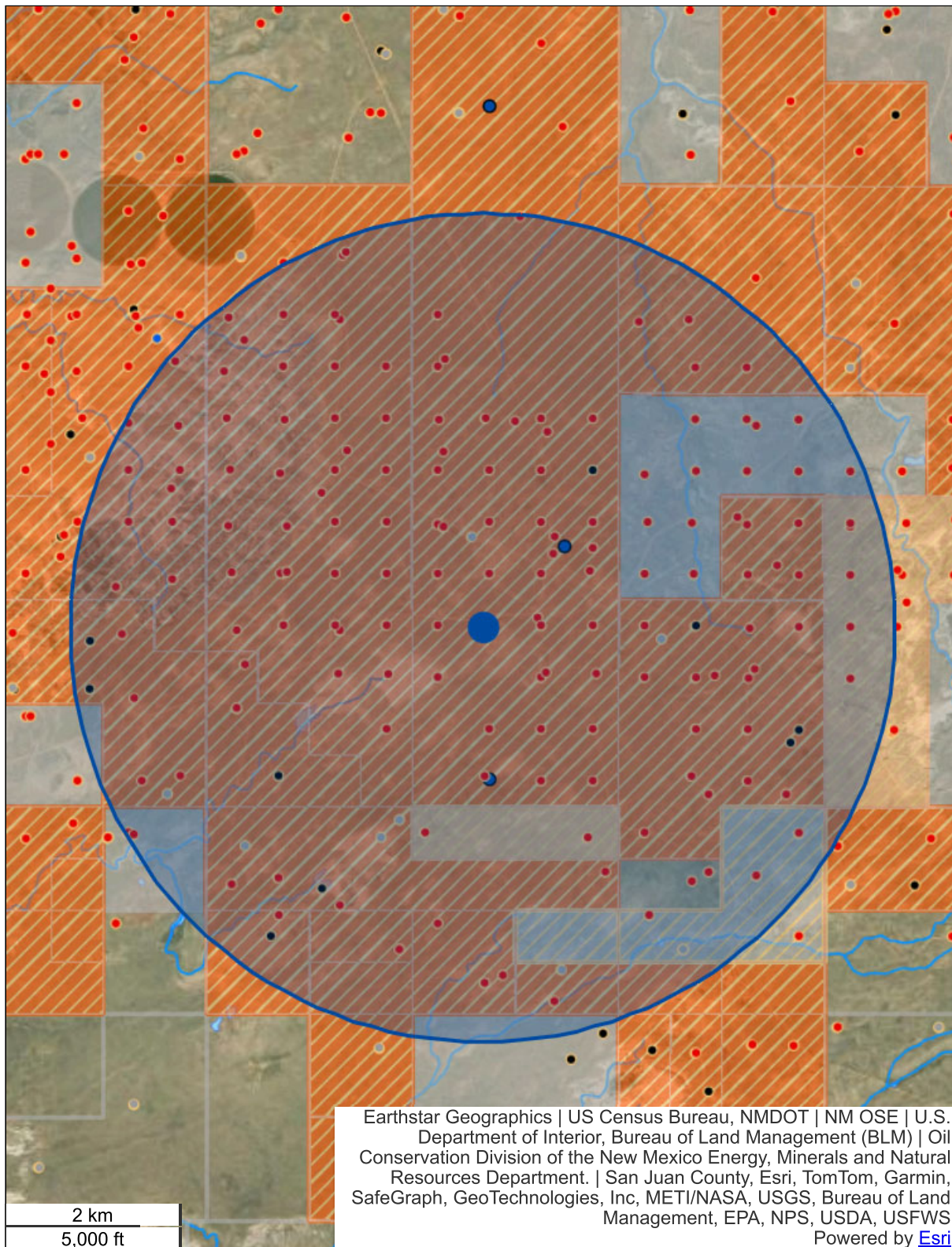
10/10/73
SAC

Carson WDW #242 2.0 Mile

Area of Interest (AOI) Information

Area: 12.56 mi²

Date: Fri Oct 17 2025 11:37:06 GMT-0600 (Mountain Daylight Time)



Wells - Large Scale | Total count: 179

API	Well Name	Well Type Code	Well Status Code	OGRID	SPUD Date	Plug Date	Lease Type Code	Measured Depth	Vertical Depth	Well Bore Direction	Associated Pools
30-045-32447	CARSON UNIT WDW #242	S	A	332293	4/21/2005	12/31/9999	F	7,266	7,266	V	[96436] SWD, ENTRADA
30-045-13277	CARSON UNIT #042	O	A	371838	8/9/1959	12/31/9999	F	4,903	4,903	V	[5890] BISTI LOWER-GALLUP (O)
30-045-13273	CARSON UNIT #021	O	A	371838	6/22/1957	12/31/9999	F	5,026	5,026	V	[5890] BISTI LOWER-GALLUP (O)
30-045-34236	SOUTH CARSON FEDERAL 23 #014	O	A	371710	2/4/2012	12/31/9999	F	5,270	5,198	V	[5890] BISTI LOWER-GALLUP (O)
30-045-26717	HUNTER FOSTER #001	O	A	371838	5/29/1986	12/31/9999	F	4,970	4,970	V	[5890] BISTI LOWER-GALLUP (O)
30-045-29426	FARELU #001	O	A	371710	12/5/1996	12/31/9999	F	7,025	7,025	V	[71599] BASIN DAKOTA (PRORATED GAS)
30-045-26196	CARSON UNIT #043	O	A	371838	2/23/1985	12/31/9999	F	5,076	5,076	V	[5890] BISTI LOWER-GALLUP (O)
30-045-26791	GEORGE TURPIN #001	O	A	371838	6/1/1987	12/31/9999	F	4,925	4,925	V	[5890] BISTI LOWER-GALLUP (O)
30-045-34243	BISTI GALLUP 22 #003	O	A	371710	1/26/2008	12/31/9999	F	5,115	5,115	V	[5890] BISTI LOWER-GALLUP (O)
30-045-34211	BISTI GALLUP 22 #006	O	A	371710	12/26/2007	12/31/9999	F	5,115	5,115	V	[5890] BISTI LOWER-GALLUP (O)
30-045-24809	PRE-ONGARD WELL #204	G	C	214263	12/31/9999	12/31/9999	F	0	0	-	
30-045-24807	PRE-ONGARD WELL #206	G	C	214263	12/31/9999	12/31/9999	F	0	0	-	
30-045-24094	PRE-ONGARD WELL #1	G	C	214263	12/31/9999	12/31/9999	F	0	0	-	
30-045-24191	PRE-ONGARD WELL #1	G	C	214263	12/31/9999	12/31/9999	F	0	0	-	
30-045-26713	PRE-ONGARD WELL #1	G	C	214263	12/31/9999	12/31/9999	F	0	0	-	
30-045-23144	PRE-ONGARD WELL #1	G	C	214263	12/31/9999	12/31/9999	F	0	0	-	
30-045-26708	PRE-ONGARD WELL #1	G	C	214263	12/31/9999	12/31/9999	F	0	0	-	
30-045-26917	PRE-ONGARD WELL #11	G	C	214263	12/31/9999	12/31/9999	F	0	0	-	
30-045-05306	PRE-ONGARD WELL #021	O	P	214263	3/29/1958	9/27/1975	F	0	5,015	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05313	PRE-ONGARD WELL #011	O	P	214263	4/13/1959	10/3/1975	F	0	5,015	V	[5890] BISTI LOWER-GALLUP (O)
30-045-13023	CARSON UNIT #024	I	P	149052	12/1/1959	6/5/2002	F	5,035	5,035	V	[5890] BISTI LOWER-GALLUP (O)
30-045-13301	CARSON UNIT #001	S	P	149052	9/6/1960	11/3/2006	F	3,825	3,825	V	[96160] SWD, MESAVERDE
30-045-05322	PRE-ONGARD WELL #031	O	P	214263	3/21/1960	8/8/1977	F	0	5,030	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05285	PRE-ONGARD WELL #012	O	P	214263	10/10/1957	10/3/1975	F	0	5,006	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05344	CARSON UNIT #014	O	P	149052	4/12/1957	3/27/2002	F	5,040	5,040	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05287	PRE-ONGARD WELL #032	O	P	214263	3/20/1958	10/7/1975	F	0	5,010	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27669	CARSON 24 #332	G	P	8987	4/5/1990	12/29/1994	F	1,290	1,330	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-05345	PRE-ONGARD WELL #034	O	P	214263	5/13/1957	10/12/1977	F	0	5,100	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05307	PRE-ONGARD WELL #041	O	P	214263	5/3/1957	1/14/1993	F	0	5,072	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05270	PRE-ONGARD WELL #023	O	P	214263	4/22/1958	9/27/1975	F	0	4,990	V	[5890] BISTI LOWER-GALLUP (O)
30-045-21238	PRE-ONGARD WELL #200	G	P	214263	3/5/1973	2/14/1974	F	0	1,330	V	[96928] WC D3, PICTURED CLIFFS
30-045-05294	PRE-ONGARD WELL #042	O	P	214263	5/26/1958	8/3/1977	F	0	4,945	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05371	CARSON UNIT #023	I	P	149052	1/31/1958	5/22/2002	F	5,010	5,010	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27797	PRE-ONGARD WELL #313	G	P	214263	12/31/9999	12/31/1901	F	0	0	-	
30-045-05315	PRE-ONGARD WELL #001	O	P	214263	7/19/1956	9/30/1977	F	0	5,983	V	[96894] WC D3, GALLUP
30-045-05331	PRE-ONGARD WELL #044	O	P	214263	12/23/1957	10/19/1977	F	0	5,001	V	[5890] BISTI LOWER-GALLUP (O)
30-045-13022	PRE-ONGARD WELL #013	O	P	214263	8/25/1959	9/30/1977	F	0	5,020	V	[5890] BISTI LOWER-GALLUP (O)

API	Well Name	Well Type Code	Well Status Code	OGRID	SPUD Date	Plug Date	Lease Type Code	Measured Depth	Vertical Depth	Well Bore Direction	Associated Pools
30-045-23946	PRE-ONGARD WELL #203	G	P	214263	3/26/1980	10/25/1984	F	0	1,305	V	[87190] WAW FRUITLAND SAND PC (GAS)
30-045-05271	PRE-ONGARD WELL #033	O	P	214263	12/29/1956	6/10/1977	F	0	5,030	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05378	CARSON UNIT #033	I	P	149052	7/3/1959	3/15/2002	F	5,040	5,040	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05353	CARSON UNIT #044	I	P	149052	7/11/1959	3/11/2002	F	5,025	5,025	V	[5890] BISTI LOWER-GALLUP (O)
30-045-13024	PRE-ONGARD WELL #042	O	P	214263	8/17/1959	10/10/1975	F	0	5,010	V	[5890] BISTI LOWER-GALLUP (O)
30-045-30226	PRE-ONGARD WELL #001	O	P	214263	3/27/1957	2/2/2001	F	0	2,550	V	[96900] WC D3, MESAVERDE
30-045-05268	PRE-ONGARD WELL #043	O	P	214263	8/25/1958	10/7/1975	F	0	4,945	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05372	PRE-ONGARD WELL #043	O	P	214263	1/10/1958	6/8/1977	F	0	5,025	V	[5890] BISTI LOWER-GALLUP (O)
30-045-28138	PRE-ONGARD WELL #331	G	P	214263	12/31/9999	12/31/1901	F	0	0		
30-045-27665	PRE-ONGARD WELL #324	G	P	214263	12/31/9999	12/31/1901	F	0	0		
30-045-05310	PRE-ONGARD WELL #031	O	P	214263	6/25/1959	10/11/1975	F	0	4,995	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05269	PRE-ONGARD WELL #043	O	P	214263	1/23/1958	10/11/1975	F	0	4,995	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05292	PRE-ONGARD WELL #032	O	P	214263	9/9/1959	9/3/1977	F	0	4,986	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05384	CARSON UNIT #043	O	P	149052	1/12/1957	2/25/2002	F	5,054	5,054	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05402	PRE-ONGARD WELL #022	O	P	214263	11/24/1959	3/25/1975	F	0	5,035	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05335	CARSON UNIT #034	O	P	149052	12/8/1957	5/14/2002	F	5,005	5,005	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05318	PRE-ONGARD WELL #011	O	P	214263	6/9/1959	10/19/1977	F	0	5,020	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05252	CARSON UNIT #034	O	P	8987	6/17/1959	12/23/1993	F	99,999	5,000	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05407	CARSON UNIT #012	O	P	149052	1/15/1958	11/29/2000	F	5,015	5,015	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05401	CARSON UNIT #032	O	P	149052	4/30/1958	12/18/2012	F	5,010	5,010	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05288	PRE-ONGARD WELL #012	O	P	214263	8/25/1957	1/27/1993	F	0	5,030	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05348	PRE-ONGARD WELL #014	O	P	214263	1/17/1958	3/27/1977	N	0	5,025	V	[5890] BISTI LOWER-GALLUP (O)
30-045-22496	PRE-ONGARD WELL #201	G	P	214263	6/1/1977	10/25/1984	F	0	1,312	V	[87190] WAW FRUITLAND SAND PC (GAS)
30-045-05375	CARSON UNIT #033	O	P	149052	1/2/1958	5/7/2002	F	5,015	5,015	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05400	CARSON UNIT #042	O	P	149052	11/9/1959	11/1/2001	F	5,035	5,035	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05253	PRE-ONGARD WELL #044	O	P	214263	4/20/1959	6/15/1977	F	0	5,025	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05377	PRE-ONGARD WELL #013	O	P	214263	1/11/1960	10/12/1977	N	0	5,040	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05319	PRE-ONGARD WELL #021	O	P	214263	10/4/1957	10/21/1975	F	0	4,980	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27735	CARSON 14 #324	G	P	3939	5/30/1990	2/3/1999	F	1,335	1,335	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-27666	CARSON 13 #331	G	P	8987	3/30/1990	12/29/1994	F	1,279	1,320	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-05332	PRE-ONGARD WELL #024	O	P	214263	9/16/1959	9/22/1977	F	0	5,010	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05444	CARSON UNIT #021	I	P	149052	4/15/1958	11/21/2000	F	5,010	5,010	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05430	PRE-ONGARD WELL #006	G	P	214263	5/31/1962	9/22/1977	F	0	3,805		
30-045-31007	CARSON 14 #324R	G	P	371838	10/30/2002	8/31/2018	F	1,318	1,318	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-05391	PRE-ONGARD WELL #003	O	P	214263	6/17/1961	10/25/2001	F	0	3,845	V	[96894] WC D3, GALLUP
30-045-05242	PRE-ONGARD WELL #002	O	P	214263	8/7/1956	10/7/1977	F	0	5,000	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05440	PRE-ONGARD WELL #011	O	P	214263	11/2/1959	10/14/1964	F	0	5,030	V	[5890] BISTI LOWER-GALLUP (O)

API	Well Name	Well Type Code	Well Status Code	OGRID	SPUD Date	Plug Date	Lease Type Code	Measured Depth	Vertical Depth	Well Bore Direction	Associated Pools
30-045-05405	PRE-ONGARD WELL #032	O	P	214263	4/24/1957	9/12/1977	F	0	5,073	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05431	CARSON UNIT #031	O	P	149052	1/3/1960	12/28/2012	F	5,025	5,025	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05343	CARSON UNIT #024	I	P	149052	4/28/1959	11/2/2012	N	5,010	5,010	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05289	PRE-ONGARD WELL #022	O	P	214263	3/11/1960	5/11/1977	F	0	5,030	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05373	PRE-ONGARD WELL #023	O	P	214263	12/15/1957	5/19/1977	F	0	5,020	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05393	CARSON UNIT #012	O	P	149052	3/13/1958	2/9/2001	N	5,020	5,020	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27691	CARSON 14 #332	G	P	3939	3/23/1990	2/3/1999	F	1,320	1,320	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-05415	CARSON UNIT #041	G	P	3939	5/23/1957	1/26/1999	F	5,090	5,090	V	[87190] WAW FRUITLAND SAND PC (GAS)
30-045-27692	PRE-ONGARD WELL #341	G	P	214263	12/31/9999	12/31/1901	F	0	0		
30-045-05380	CARSON UNIT #023	I	P	8987	2/16/1958	12/9/1993	N	99,999	5,010	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05438	PRE-ONGARD WELL #041	O	P	214263	1/27/1957	6/27/1977	F	0	5,050	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05272	CARSON UNIT #023	O	P	8987	12/12/1958	4/17/1996	F	99,999	4,975	V	[5890] BISTI LOWER-GALLUP (O)
30-045-13014	PRE-ONGARD WELL #002W	G	P	214263	1/6/1961	9/30/1977	F	0	3,904		
30-045-24226	SOUTH CARSON FEDERAL 23 #005	O	P	8987	3/27/1980	4/21/1995	F	99,999	5,000	V	[5890] BISTI LOWER-GALLUP (O)
30-045-34244	SOUTH CARSON FEDERAL 23 #011	O	P	149052	8/29/2008	4/28/2014	F	99,999	99,999	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05395	PRE-ONGARD WELL #022	O	P	214263	2/7/1960	9/12/1977	F	0	4,930	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27664	PRE-ONGARD WELL #324	G	P	214263	12/31/9999	12/31/1901	F	0	0		
30-045-05436	CARSON UNIT #031	O	P	149052	5/14/1959	4/23/2002	F	5,040	5,040	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05339	CARSON UNIT #014	O	P	149052	9/24/1957	4/26/2002	F	4,960	4,960	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27674	PRE-ONGARD WELL #002	G	P	214263	12/31/9999	12/31/1901	F	0	0		
30-045-28675	BISTI COAL 23 COM #002	G	P	371838	11/5/1992	11/28/2023	F	1,240	1,240	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-05243	PRE-ONGARD WELL #011	O	P	214263	9/26/1958	6/20/1977	F	0	4,960	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05462	PRE-ONGARD WELL #014	O	P	214263	5/17/1958	10/12/1977	F	0	5,030	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05403	PRE-ONGARD WELL #022	O	P	214263	1/19/1960	3/21/1975	N	0	5,025	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05309	PRE-ONGARD WELL #031	O	P	214263	12/8/1959	5/6/1977	F	0	5,030	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05336	CARSON UNIT #034	O	P	149052	8/17/1957	5/29/2002	F	5,014	5,014	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27736	CARSON 12 #314	G	P	8987	4/25/1990	12/29/1994	F	1,256	1,310	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-13274	PRE-ONGARD WELL #032	O	P	214263	3/3/1958	8/11/1977	F	0	5,015	V	[5890] BISTI LOWER-GALLUP (O)
30-045-24227	S CARSON FEDERAL 25 #008	O	P	149052	4/2/1980	12/28/2004	F	5,000	5,000	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05365	PRE-ONGARD WELL #013	O	P	214263	10/1/1959	6/3/1977	F	0	4,893	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27668	PRE-ONGARD WELL #332	G	P	214263	12/31/9999	12/31/1901	F	0	0		
30-045-05459	PRE-ONGARD WELL #044	O	P	214263	6/3/1958	5/24/1977	F	0	5,035	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05385	PRE-ONGARD WELL #005	G	P	214263	7/2/1961	9/30/1977	F	0	3,849		
30-045-28022	CARSON UNIT #024	O	P	149052	10/28/1990	8/4/2003	F	5,040	5,040	V	[5890] BISTI LOWER-GALLUP (O)
30-045-26461	CARSON UNIT #033	O	P	371838	8/26/1985	3/10/2022	F	5,090	5,090	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05368	CARSON UNIT #033	I	P	149052	5/7/1959	6/17/2002	F	5,050	5,050	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05441	CARSON UNIT #021	O	P	149052	12/19/1957	8/15/2001	F	4,915	4,915	V	[5890] BISTI LOWER-GALLUP (O)

API	Well Name	Well Type Code	Well Status Code	OGRID	SPUD Date	Plug Date	Lease Type Code	Measured Depth	Vertical Depth	Well Bore Direction	Associated Pools
30-045-26712	RAY BRIDGES #001	O	P	149052	5/23/1986	6/21/2011	F	4,970	4,970	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05439	PRE-ONGARD WELL #021	O	P	214263	7/29/1958	6/30/1977	N	0	5,024	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05396	PRE-ONGARD WELL #012	O	P	214263	9/14/1957	9/25/1975	F	0	4,864	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05453	CARSON UNIT #034	G	P	3939	9/1/1959	2/4/1999	F	5,030	5,030	V	[87190] WAW FRUITLAND SAND PC (GAS)
30-045-32027	CARSON UNIT COAL 18 COM #001	G	P	371838	7/19/2004	8/29/2018	F	1,464	1,464	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-13272	CARSON UNIT #034	O	P	149052	7/12/1957	11/1/2001	F	5,000	5,000	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05399	PRE-ONGARD WELL #032	O	P	214263	11/17/1957	7/7/1977	N	0	5,030	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27676	PRE-ONGARD WELL #001	G	P	214263	12/31/1999	12/31/1901	F	0	0		
30-045-05330	PRE-ONGARD WELL #044	O	P	214263	4/5/1958	6/2/1977	F	0	4,845	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05479	PRE-ONGARD WELL #013	O	P	214263	9/2/1958	5/26/1977	F	0	5,055	V	[5890] BISTI LOWER-GALLUP (O)
30-045-13271	CARSON UNIT #041	O	P	8987	2/24/1958	12/15/1993	F	99,999	4,990	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05338	CARSON UNIT #044	O	P	149052	2/16/1960	7/16/2002	F	5,060	5,060	V	[5890] BISTI LOWER-GALLUP (O)
30-045-31157	LEE HIXON #002	G	P	371838	10/13/2002	8/17/2020	F	4,975	4,975	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05376	CARSON UNIT #043	O	P	149052	17/1958	6/3/2002	F	4,850	4,850	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05229	PRE-ONGARD WELL #022	O	P	214263	9/23/1959	9/30/1959	F	0	4,940	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05457	PRE-ONGARD WELL #024	O	P	214263	10/10/1959	9/15/1977	F	0	4,925	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05434	CARSON UNIT #011	O	P	149052	8/10/1957	2/14/2001	F	4,904	4,904	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27234	DODD GEIGER #001	O	P	371838	3/3/1989	12/27/2023	F	4,940	4,940	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27684	PRE-ONGARD WELL #001	G	P	214263	12/31/1999	12/31/1901	F	0	0		
30-045-27123	ALEXANDRA BALLARD #001	O	P	13998	11/15/1988	12/10/2007	F	5,041	5,041	V	[5890] BISTI LOWER-GALLUP (O); [71629] BASIN FRUITLAND COAL (GAS)
30-045-05381	PRE-ONGARD WELL #043	O	P	214263	2/8/1958	7/11/1977	F	0	5,070	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05455	PRE-ONGARD WELL #007	O	P	214263	10/21/1958	7/30/1977	F	0	5,040	V	[5890] BISTI LOWER-GALLUP (O)
30-045-34130	BISTI GALLUP 22 #016	O	P	371838	12/9/2007	11/3/2021	F	5,121	5,121	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05433	PRE-ONGARD WELL #031	O	P	214263	1/27/1960	7/5/1977	N	0	5,070	V	[5890] BISTI LOWER-GALLUP (O)
30-045-26379	PRE-ONGARD WELL #209	G	P	214263	7/18/1985	7/29/1985	N	0	1,347	V	[87190] WAW FRUITLAND SAND PC (GAS)
30-045-27914	PRE-ONGARD WELL #331	G	P	214263	12/31/1999	12/31/1901	F	0	0		
30-045-27670	CARSON UNIT #342	G	P	371838	4/2/1990	4/22/2021	F	1,140	1,140	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-05397	PRE-ONGARD WELL #042	O	P	214263	7/20/1959	10/22/1975	F	0	4,855	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05470	CARSON UNIT #003	O	P	3939	8/25/1956	10/29/1997	F	99,999	5,004	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05496	PRE-ONGARD WELL #033	O	P	214263	9/18/1958	9/19/1977	F	0	5,045	V	[5890] BISTI LOWER-GALLUP (O)
30-045-28120	CARSON UNIT #044	O	P	149052	11/24/1990	7/31/2003	F	99,999	99,999	V	[5890] BISTI LOWER-GALLUP (O)
30-045-26770	TONO HIXON #001	O	P	149052	3/18/1987	8/10/2006	F	4,954	4,954	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27677	PRE-ONGARD WELL #002	G	P	214263	12/31/1999	12/31/1901	F	0	0		
30-045-05404	PRE-ONGARD WELL #042	O	P	214263	10/17/1959	7/29/1977	N	0	5,085	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27675	PRE-ONGARD WELL #001	G	P	214263	12/31/1999	12/31/1901	F	0	0		
30-045-28586	BISTI COAL 25 #001	G	P	3939	10/28/1991	2/4/1999	F	1,143	1,195	V	[71629] BASIN FRUITLAND COAL (GAS)

API	Well Name	Well Type Code	Well Status Code	OGRID	SPUD Date	Plug Date	Lease Type Code	Measured Depth	Vertical Depth	Well Bore Direction	Associated Pools
30-045-27673	BISTI COAL 22 COM #001	G	P	371838	9/8/1990	12/13/2022	F	1,251	1,251	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-26532	LEE HIXON #001	O	P	149052	9/18/1985	10/26/2012	F	4,902	4,902	V	[5890] BISTI LOWER-GALLUP (O)
30-045-34209	BISTI GALLUP 22 COM #002	O	P	371838	2/9/2008	11/1/2021	F	5,139	5,139	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05451	PRE-ONGARD WELL #014	O	P	214263	9/4/1957	10/29/1964	F	0	4,870	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05425	CARSON UNIT #041	O	P	149052	6/19/1957	4/26/2002	F	4,905	4,905	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05317	PRE-ONGARD WELL #011	O	P	214263	3/3/1960	8/18/1977	F	0	5,055	V	[5890] BISTI LOWER-GALLUP (O)
30-045-26847	BETTIN ON BISTI 30 #007	O	P	18973	11/25/1987	4/29/2003	N	5,135	5,200	V	[5890] BISTI LOWER-GALLUP (O)
30-045-26219	CARSON UNIT #034	O	P	371838	2/28/1985	9/7/2018	F	4,992	4,992	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05374	CARSON UNIT #033	O	P	149052	12/24/1959	6/29/2004	F	4,865	4,865	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27661	CARSON 7 #323	G	P	8987	4/4/1990	12/29/1994	F	1,300	1,345	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-05477	PRE-ONGARD WELL #023	O	P	214263	11/16/1959	9/16/1968	F	0	4,940	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05454	PRE-ONGARD WELL #007	O	P	214263	10/4/1958	8/5/1977	F	0	5,080	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05290	PRE-ONGARD WELL #012	O	P	214263	6/13/1957	8/18/1977	F	0	5,065	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05346	PRE-ONGARD WELL #014	O	P	214263	7/31/1957	4/7/1975	F	0	5,054	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27737	CARSON UNIT #313	G	P	371838	4/20/1990	4/20/2021	F	1,195	1,195	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-34132	BISTI GALLUP 22 #015	O	P	371838	11/25/2007	12/11/2020	F	5,170	5,170	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27122	BETTIN ON BISTI 30 #001	O	P	372286	4/16/1990	8/14/2020	F	5,005	5,005	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27557	PRE-ONGARD WELL #011	O	P	214263	3/31/1990	4/10/1990	F	0	5,968	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05437	CARSON UNIT #041	O	P	8987	9/19/1958	1/19/1993	N	99,999	5,070	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27233	COLLEEN SIMPSON #001	O	P	149052	2/19/1989	12/13/2007	F	4,950	4,950	V	[5890] BISTI LOWER-GALLUP (O)
30-045-31966	CARSON UNIT COAL 17 #001	G	P	371838	4/6/2004	4/28/2021	F	1,450	1,450	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-05361	CARSON UNIT #113	G	P	149052	11/11/1958	7/26/2002	F	11,430	11,430	V	[71599] BASIN DAKOTA (PRORATED GAS)
30-045-05398	CARSON UNIT #032	O	P	149052	6/6/1957	6/14/2002	F	4,870	4,870	V	[5890] BISTI LOWER-GALLUP (O)
30-045-31019	CARSON UNIT 11 #332R	G	P	371838	3/2/2004	4/19/2021	F	1,450	1,450	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-27738	CARSON 11 #332	G	P	3939	4/17/1990	1/26/1999	F	1,275	1,275	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-05406	PRE-ONGARD WELL #002	O	P	214263	7/16/1957	10/19/1977	N	0	4,970	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05475	CARSON UNIT #013	G	P	3939	8/17/1958	1/20/1999	F	4,920	4,920	V	[87190] WAW FRUITLAND SAND PC (GAS)
30-045-31043	BISTI COAL 27 COM #001R	G	P	371838	10/9/2002	12/12/2023	N	1,345	1,345	V	[71629] BASIN FRUITLAND COAL (GAS)
30-045-05463	CARSON UNIT #044	O	P	149052	8/28/1957	5/10/2002	F	4,890	4,890	V	[5890] BISTI LOWER-GALLUP (O)
30-045-26312	POLLY TURPIN #001	O	P	371838	4/13/1985	12/19/2023	N	4,945	4,945	V	[5890] BISTI LOWER-GALLUP (O)
30-045-05426	CARSON UNIT #031	O	P	149052	8/19/1957	5/29/2002	F	4,850	4,850	V	[5890] BISTI LOWER-GALLUP (O)
30-045-27672	BISTI COAL 12 #001	G	P	371838	3/23/1990	12/23/2020	F	1,270	1,270	V	[71629] BASIN FRUITLAND COAL (GAS)

Injectate and Formation Fluid Analysis

Water Analysis of Source Zone Water

Venado Canyon WSW

Nageezi Unit WSW

NE Lybrook WSW



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

06 November 2024

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. 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,

A handwritten signature in blue ink, appearing to read 'M Notah', is positioned above the printed name.

Maryann Notah
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 [*****greenanalytical.com/certifications/](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

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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:
11/06/24 09:40

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	

Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M Notah', is written over a horizontal line.

Maryann Notah, Project Manager

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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:
11/06/24 09:40

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
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General Chemistry

Alkalinity, Total as CaCO ₃ *	310	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	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		HIC
pH Temperature, degrees C	17.9			pH Units	1	10/25/24 15:35	EPA 150.1		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 CaCO ₃	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

Green Analytical Laboratories

Maryann Notah, Project Manager

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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:
11/06/24 09:40

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 CaCO ₃ *	197	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	8.00	mg/L	1	10/29/24 13:30	2320 B		HIC
Alkalinity, Bicarbonate as CaCO ₃ *	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		HIC
pH Temperature, degrees C	20.5			pH Units	1	10/25/24 15:35	EPA 150.1		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 CaCO ₃	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

Green Analytical Laboratories

Maryann Notah, Project Manager

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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:
11/06/24 09:40

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 CaCO ₃	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Total as CaCO ₃	ND	10.0	mg/L							
LCS (B243209-BS1)				Prepared & Analyzed: 10/29/24						
Alkalinity, Total as CaCO ₃	108	10.0	mg/L	100		108	85-115			
LCS Dup (B243209-BSD1)				Prepared & Analyzed: 10/29/24						
Alkalinity, Total as CaCO ₃	107	10.0	mg/L	100		107	85-115	0.930	20	
Reference (B243209-SRM1)				Prepared & Analyzed: 10/29/24						
Alkalinity, Total as CaCO ₃	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

Maryann Notah, Project Manager

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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:
11/06/24 09:40

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	

Green Analytical Laboratories

Maryann Notah, Project Manager

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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:
11/06/24 09:40

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

A handwritten signature in blue ink, appearing to read 'M Notah'.

Maryann Notah, Project Manager

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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:
11/06/24 09:40

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
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

A handwritten signature in blue ink, appearing to read 'M Notah'.

Maryann Notah, Project Manager

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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:
11/06/24 09:40

Regulatory Limits

All information is based on Green Analytical Laboratories knowledge of previous examples or based on the EPA's established regulatory limits. This information is given as a resource and is not intended to be a substitute for an analytical interpretation by a trained water treatment professional.

	<u>Result</u>	<u>Unit</u>	<u>Limit</u>	<u>Exceeds MCL or Recommended Limit</u>	
2410251-01 VCU WSW					
Alkalinity, Total as CaCO ₃	310	mg/L	500.000		
Calcium	146	mg/L			Recommended level is 30 mg/L
Chloride	595	mg/L	250.000	YES	Recommended Limit
Fluoride	ND	mg/L	4.000		
Hardness as CaCO ₃	410	mg/L	500.000		
Iron	3.68	mg/L	0.300	YES	Recommended Limit
Magnesium	11.2	mg/L	125.000		
pH	7.49	pH Units	8.500		
Potassium	24.6	mg/L			Recommended level is 7 mg/L
Sodium	3490	mg/L			Recommended level is 20 mg/L
Sulfate	6390	mg/L	500.000	YES	Recommended Limit
Total Dissolved Solids	11500	mg/L	600.000	YES	Recommended Limit.
2410251-02 NAG WSW					
Alkalinity, Total as CaCO ₃	197	mg/L	500.000		
Calcium	134	mg/L			Recommended level is 30 mg/L
Chloride	518	mg/L	250.000	YES	Recommended Limit
Fluoride	11.3	mg/L	4.000	YES	EPA Maximum Contaminant Level
Hardness as CaCO ₃	359	mg/L	500.000		
Iron	0.556	mg/L	0.300	YES	Recommended Limit
Magnesium	6.08	mg/L	125.000		
pH	7.74	pH Units	8.500		
Potassium	21.0	mg/L			Recommended level is 7 mg/L
Sodium	2960	mg/L			Recommended level is 20 mg/L
Sulfate	5490	mg/L	500.000	YES	Recommended Limit
Total Dissolved Solids	9920	mg/L	600.000	YES	Recommended Limit.

Green Analytical Laboratories

Maryann Notah, Project Manager

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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:
11/06/24 09:40

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water.

Recommended Limits are given when an established MCL does not exist.

Calcium, Potassium and Sodium are present in all natural waters and do not present any serious adverse health risks.

Green Analytical Laboratories

A handwritten signature in blue ink, appearing to read 'M Notah', is written over a horizontal line.

Maryann Notah, Project Manager

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

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

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

Company or Client: Wight Water Engineers, Inc.						Bill to (if different):								ANALYSIS REQUEST																																	
Address: 1666 N. Main Ave., Suite C																																															
City: DuPage State: CO Zip: 61301																																															
Phone #: 970-259-7411																																															
Contact Person: Trevor Downing																																															
Email Report to: tdowning@wightwater.com																																															
Project Name(optional):																																															
Sampler Name (Print): Trevor Downing																																															
Lab I.D. Lab Use Only 2410-251						Sample Name or Location						Collected		Matrix (check one)						# of containers		Package #1																									
												Date	Time	GROUNDWATER	SURFACE WATER	WASTEWATER	PRODUCED WATER	DRINKING WATER	SOIL	OTHER:	No preservation							Nitric Acid	Hydrochloric Acid	Sulfuric Acid	Sodium Hydroxide	OTHER:															
01 VCU WSU						10-25-24 1:00pm						✓								21		✓																									
02 NAG WSU						10-25-24 2:10						✓								21		✓																									
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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 consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																																															
Relinquished By: [Signature]						Date: 10-25-24						Received By: [Signature]						Date: 10-25-24						ADDITIONAL REMARKS:																							
Relinquished By:						Time: 4:19 pm						Received By:						Time: 1419																													
Relinquished By:						Date:						Received By:						Date:						Temperature at receipt:						Checked by: [Signature]						On Ice? Y N						Therm. used: [Signature]					
Relinquished By:						Time:						Received By:						Time:																													



SAMPLE CONDITION RECEIPT FORM

Client Name: Wright Water EngineersWork Order # 2410-251Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ NoThermometer Used: #2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler 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: WJW 10-25-24Labeled 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. <u>pH</u>
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:	☐ Yes ☒ No	11.
Field Filtered: ☐ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	12.
Matrix:	<u>W</u> <u>SL</u> <u>OT</u>	
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	13.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____



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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006, R 8.0

Company or Client: Wright Water Engineers, Inc.		Bill to (if different):		ANALYSIS REQUEST	
Address: 1666 N. Main Ave, Suite C					
City: Durango State: CO Zip: 81301					
Phone #: 970-259-7411					
Contact Person: Trevor Downing					
Email Report to: t.downing@wrightwater.com					
Project Name(optional):					
Sampler Name (Print): Trevor Downing		P.O. #:			
		Rush?		TAT Needed?	
		Y N			
		Matrix (check one)		# of containers	
		☐ GROUNDWATER ☐ SURFACE WATER ☐ WASTEWATER ☐ PRODUCED WATER ☐ DRINKING WATER ☐ SOIL ☐ OTHER:		☐ No preservation ☐ Nitric Acid ☐ Hydrochloric Acid ☐ Sulfuric Acid ☐ Sodium Hydroxide ☐ OTHER:	
Lab I.D. 2410-251		Sample Name or Location		Package #1	
		Collected			
		Date	Time		
01 VCU WSW		10-25-24	1:00pm	✓	
02 NRG WSW		10-25-24	2:10	✓	
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 analysis. 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 consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 10-25-24	Received By:	Date: 10-25-24	ADDITIONAL REMARKS:	
Time: 4:19pm		Time: 1419			
Relinquished By:	Date:	Received By:	Date:		
Time:		Time:			
Relinquished By:	Date:	Received By:	Date:		
Time:		Time:			
	Temperature at receipt:	Checked by:	On loc?	Therm. used:	
	8.9°C	WPD	Y	laser 2	

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.



SAMPLE CONDITION RECEIPT FORM

Client Name: Wright Water EngineersWork Order # 2410-251Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☐ NoThermometer Used: #2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler 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: WFW 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. <u>pH</u>
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:	☐ Yes ☒ No	11.
Field Filtered: ☐ Yes ☐ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	12.
Matrix:	☒ WT ☐ SL ☐ OT	
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	13.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Table 1
Field Parameters for Water Supply Wells

Field Parameter	Venado Canyon WSW	Nageezi WSW
Date and Time	10/25/2024 1:00pm	10/25/2024 2:10pm
Temperature (°F)	137.6	141.6
TDS (mg/L)	10,969	9,615
pH	7.38	7.71

Wright Water Engineers, Inc.
10/28/2024



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

12 September 2025

Trevor Downing
Wright Water Engineering
1666 N Main Ave Suite C
Durango, CO 81301
RE: Enduring NE Lybrook WSW

Enclosed are the results of analyses for samples received by the laboratory on 08/28/25 14:29. 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,

A handwritten signature in blue ink that reads 'Jeremy D. Allen'. The signature is written in a cursive style and is enclosed within a light blue rectangular border.

Reporting Station For 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 <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-C25-00079

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-C25-00101

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

Project: Enduring Resources
Project Name / Number: Enduring NE Lybrook WSW
Project Manager: Trevor Downing

Reported:
09/12/25 09:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
NEL 2	2508463-01	Water	08/28/25 12:00	08/28/25 14:29	

Green Analytical Laboratories

A handwritten signature in black ink, reading 'Jeremy D. Allen', is displayed on a light blue rectangular background.

Reporting Station For Jeremy D Allen, Laboratory Director

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

Project: Enduring Resources
Project Name / Number: Enduring NE Lybrook WSW
Project Manager: Trevor Downing

Reported:
09/12/25 09:25

NEL 2

2508463-01 (Ground Water)

Sampled Date: 08/28/25 12:00

Sampled By: Trevor Downing

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

General Chemistry

Alkalinity, Total as CaCO ₃ *	340	10.0	5.55	mg/L	5	08/29/25 09:15	2320 B		SCE
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	5.55	mg/L	5	08/29/25 09:15	2320 B		SCE
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	5.55	mg/L	5	08/29/25 09:15	2320 B		SCE
Alkalinity, Bicarbonate as CaCO ₃ *	340	10.0	5.55	mg/L	5	08/29/25 09:15	2320 B		SCE
Chloride*	1280	15.0	7.46	mg/L	15	09/06/25 09:14	EPA 300.0		AWG
Conductivity*	16900	1.00		umho/cm@25 C	1	09/02/25 14:12	2510 B		AWG
Fluoride*	3.87	1.50	0.505	mg/L	15	09/06/25 09:14	EPA 300.0		AWG
pH*	7.34			pH Units	1	09/02/25 14:12	EPA 150.1/9040C	H	AWG
pH Temperature, degrees C	19.4			pH Units	1	09/02/25 14:12	EPA 150.1/9040C	H	AWG
Phosphorus, Total	<0.0500	0.0500	0.0215	mg P/L	1	09/05/25 15:02	EPA 365.1		HIC
SAR	78.5			No Unit	1	09/10/25 14:56	Calculation		AWG
Specific Gravity	1.012	0.8000		No Unit	1	09/10/25 09:08	ASTM D1429-03		HIC
Sulfate*	7620	150	84.4	mg/L	150	09/06/25 09:38	EPA 300.0		AWG
Total Dissolved Solids*	14200	40.0		mg/L	4	08/29/25 14:51	EPA 160.1/SM 2540C		SCE

Total Recoverable Metals by ICP (E200.7)

Calcium*	201	1.60	1.26	mg/L	8	09/10/25 14:56	EPA 200.7		AWG
Hardness as CaCO ₃	579	7.29	5.23	mg/L	8	09/10/25 14:56	2340 B		AWG
Iron*	3.29	0.400	0.192	mg/L	8	09/09/25 20:21	EPA 200.7		AWG
Magnesium*	18.6	0.800	0.505	mg/L	8	09/10/25 14:56	EPA 200.7		AWG
Sodium*	4340	20.0	8.12	mg/L	20	09/10/25 15:00	EPA 200.7		AWG

Dissolved Metals by ICP

Aluminum*	<0.400	0.400	0.284	mg/L	8	09/08/25 17:49	EPA 200.7		AWG
Boron	6.85	2.40	0.429	mg/L	8	09/08/25 17:49	EPA 200.7		AWG
Calcium*	189	0.800	0.578	mg/L	8	09/08/25 17:49	EPA 200.7		AWG
Iron*	<0.400	0.400	0.277	mg/L	8	09/08/25 17:49	EPA 200.7		AWG
Magnesium*	17.7	0.800	0.635	mg/L	8	09/08/25 17:49	EPA 200.7		AWG
Potassium*	31.1	8.00	1.45	mg/L	8	09/08/25 17:49	EPA 200.7		AWG
Silica (SiO ₂)	42.0	8.56	0.166	mg/L	8	09/08/25 17:49	Calculation		AWG
Silicon	19.6	4.00	0.078	mg/L	8	09/08/25 17:49	EPA 200.7		AWG

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Reporting Station For Jeremy D Allen, Laboratory Director

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

Project: Enduring Resources
Project Name / Number: Enduring NE Lybrook WSW
Project Manager: Trevor Downing

Reported:
09/12/25 09:25

NEL 2

2508463-01 (Ground Water)

Sampled Date: 08/28/25 12:00

Sampled By: Trevor Downing

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Dissolved Metals by ICP									
Sodium*	4190	100	75.6	mg/L	100	09/09/25 17:49	EPA 200.7		AWG
Strontium*	7.68	0.800	0.092	mg/L	8	09/08/25 17:49	EPA 200.7		AWG
Dissolved Metals by ICPMS									
Arsenic*	<0.0150	0.0150	0.0059	mg/L	15	09/05/25 17:53	EPA 200.8		AES
Barium*	0.0347	0.0075	0.0063	mg/L	15	09/05/25 17:53	EPA 200.8		AES
Cadmium*	<0.0075	0.0075	0.0007	mg/L	15	09/05/25 17:53	EPA 200.8		AES
Chromium*	<0.0300	0.0300	0.0048	mg/L	15	09/05/25 17:53	EPA 200.8		AES
Copper*	0.172	0.0150	0.0109	mg/L	15	09/05/25 17:53	EPA 200.8	B2	AES
Lead*	<0.0075	0.0075	0.0018	mg/L	15	09/05/25 17:53	EPA 200.8		AES
Manganese*	0.129	0.0075	0.0028	mg/L	15	09/05/25 17:53	EPA 200.8		AES
Molybdenum*	<0.0075	0.0075	0.0006	mg/L	15	09/05/25 17:53	EPA 200.8		AES
Nickel*	0.0199	0.0075	0.0038	mg/L	15	09/05/25 17:53	EPA 200.8		AES
Selenium*	<0.0150	0.0150	0.0056	mg/L	15	09/05/25 17:53	EPA 200.8		AES
Zinc*	<0.0300	0.0300	0.0072	mg/L	15	09/05/25 17:53	EPA 200.8		AES
Other									
Iron-Related Bacteria	Absent			CFU/mL	1	08/28/25 16:45	Lab Procedure		CDN
Slime-Forming Bacteria	Absent			CFU/mL	1	08/28/25 16:45	Lab Procedure		CDN
Sulfate-Reducing Bacteria	Absent			CFU/mL	1	08/28/25 16:45	Lab Procedure		CDN

Green Analytical Laboratories

Reporting Station For Jeremy D Allen, Laboratory Director

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

Project: Enduring Resources
Project Name / Number: Enduring NE Lybrook WSW
Project Manager: Trevor Downing

Reported:
09/12/25 09:25

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252710 - General Prep - Wet Chem										
Blank (B252710-BLK1)				Prepared & Analyzed: 08/29/25						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (B252710-DUP1)				Source: 2508463-01 Prepared & Analyzed: 08/29/25						
Total Dissolved Solids	14100	40.0	mg/L		14200			0.425	20	
Reference (B252710-SRM1)				Prepared & Analyzed: 08/29/25						
Total Dissolved Solids	400	10.0	mg/L	400		100	85-115			
Batch B252712 - General Prep - Wet Chem										
Blank (B252712-BLK1)				Prepared & Analyzed: 08/29/25						
Alkalinity, Bicarbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Total as CaCO ₃	ND	10.0	mg/L							
LCS (B252712-BS1)				Prepared & Analyzed: 08/29/25						
Alkalinity, Total as CaCO ₃	105	10.0	mg/L	100		105	85-115			
LCS Dup (B252712-BSD1)				Prepared & Analyzed: 08/29/25						
Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100		104	85-115	0.957	20	
Reference (B252712-SRM1)				Prepared & Analyzed: 08/29/25						
Alkalinity, Total as CaCO ₃	105	10.0	mg/L	100		105	85-115			
Batch B252721 - IC- Ion Chromatograph										
Blank (B252721-BLK1)				Prepared: 09/02/25 Analyzed: 09/05/25						
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B252721-BS1)				Prepared: 09/02/25 Analyzed: 09/05/25						
Chloride	24.0	1.00	mg/L	25.0		96.0	90-110			
Fluoride	2.40	0.100	mg/L	2.50		95.9	90-110			
Sulfate	23.8	1.00	mg/L	25.0		95.3	90-110			
LCS Dup (B252721-BSD1)				Prepared: 09/02/25 Analyzed: 09/05/25						
Chloride	24.4	1.00	mg/L	25.0		97.7	90-110	1.76	20	
Fluoride	2.43	0.100	mg/L	2.50		97.3	90-110	1.45	20	

Green Analytical Laboratories

Reporting Station For Jeremy D Allen, Laboratory Director

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

Project: Enduring Resources
Project Name / Number: Enduring NE Lybrook WSW
Project Manager: Trevor Downing

Reported:
09/12/25 09:25

General Chemistry - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B252721 - IC- Ion Chromatograph (Continued)

LCS Dup (B252721-BSD1) (Continued)

Prepared: 09/02/25 Analyzed: 09/05/25

Sulfate	24.2	1.00	mg/L	25.0		96.9	90-110	1.64	20	
---------	------	------	------	------	--	------	--------	------	----	--

Batch B252731 - General Prep - Wet Chem

Duplicate (B252731-DUP1)

Source: 2508241-01

Prepared & Analyzed: 09/02/25

pH	7.36		pH Units	7.27				1.23	20	
pH Temperature, degrees C	19.6		pH Units	15.3				24.6	200	

Duplicate (B252731-DUP2)

Source: 2509003-01

Prepared & Analyzed: 09/02/25

pH	7.69		pH Units	7.64				0.652	20	
pH Temperature, degrees C	20.1		pH Units	19.4				3.54	200	

Reference (B252731-SRM1)

Prepared & Analyzed: 09/02/25

pH	7.06		pH Units	7.00		101	98.57-101.42			
----	------	--	----------	------	--	-----	--------------	--	--	--

Batch B252732 - General Prep - Wet Chem

Duplicate (B252732-DUP1)

Source: 2508463-01

Prepared & Analyzed: 09/02/25

Conductivity	16900	1.00	umho/cm@25C	16900				0.236	20	
--------------	-------	------	-------------	-------	--	--	--	-------	----	--

Duplicate (B252732-DUP2)

Source: 2509003-01

Prepared & Analyzed: 09/02/25

Conductivity	735	1.00	umho/cm@25C	714				2.90	20	
--------------	-----	------	-------------	-----	--	--	--	------	----	--

Reference (B252732-SRM1)

Prepared & Analyzed: 09/02/25

Conductivity	939	1.00	umho/cm@25C	1000		93.9	90-110			
--------------	-----	------	-------------	------	--	------	--------	--	--	--

Batch B252765 - Total Recoverable by ICP

Blank (B252765-BLK1)

Prepared: 09/03/25 Analyzed: 09/10/25

SAR	0.00		No Unit							
-----	------	--	---------	--	--	--	--	--	--	--

Batch B252779 - Lachat

Blank (B252779-BLK1)

Prepared: 09/04/25 Analyzed: 09/05/25

Phosphorus, Total	ND	0.0500	mg P/L							
-------------------	----	--------	--------	--	--	--	--	--	--	--

LCS (B252779-BS1)

Prepared: 09/04/25 Analyzed: 09/05/25

Phosphorus, Total	2.60	0.0500	mg P/L	2.50		104	90-110			
-------------------	------	--------	--------	------	--	-----	--------	--	--	--

LCS Dup (B252779-BSD1)

Prepared: 09/04/25 Analyzed: 09/05/25

Phosphorus, Total	2.59	0.0500	mg P/L	2.50		104	90-110	0.616	20	
-------------------	------	--------	--------	------	--	-----	--------	-------	----	--

Green Analytical Laboratories

Reporting Station For Jeremy D Allen, Laboratory Director

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

Project: Enduring Resources
Project Name / Number: Enduring NE Lybrook WSW
Project Manager: Trevor Downing

Reported:
09/12/25 09:25

General Chemistry - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B252863 - General Prep - Wet Chem

Duplicate (B252863-DUP1)

Source: 2508463-01 Prepared & Analyzed: 09/10/25

Specific Gravity	1.012	0.8000	No Unit		1.012			0.0494	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 B252765 - Total Recoverable by ICP

Blank (B252765-BLK1)

Prepared: 09/03/25 Analyzed: 09/10/25

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 (B252765-BS1)

Prepared: 09/03/25 Analyzed: 09/10/25

Calcium	1.98	0.200	mg/L	2.00		99.1	85-115			
Iron	1.91	0.050	mg/L	2.00		95.5	85-115			
Magnesium	10.3	0.100	mg/L	10.0		103	85-115			
Sodium	1.62	1.00	mg/L	1.62		100	85-115			

LCS Dup (B252765-BSD1)

Prepared: 09/03/25 Analyzed: 09/10/25

Calcium	1.98	0.200	mg/L	2.00		99.1	85-115	0.0218	20	
Iron	1.95	0.050	mg/L	2.00		97.3	85-115	1.88	20	
Magnesium	10.3	0.100	mg/L	10.0		103	85-115	0.179	20	
Sodium	1.62	1.00	mg/L	1.62		100	85-115	0.0771	20	

Green Analytical Laboratories

Reporting Station For Jeremy D Allen, Laboratory Director

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.



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

Project: Enduring Resources
Project Name / Number: Enduring NE Lybrook WSW
Project Manager: Trevor Downing

Reported:
09/12/25 09:25

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B252748 - Dissolved ICP

Blank (B252748-BLK1)

Prepared: 09/03/25 Analyzed: 09/08/25

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 (B252748-BS1)

Prepared: 09/03/25 Analyzed: 09/08/25

Aluminum	3.96	0.050	mg/L	4.00		99.1	85-115			
Boron	4.11	0.300	mg/L	4.00		103	85-115			
Calcium	3.94	0.100	mg/L	4.00		98.6	85-115			
Iron	3.95	0.050	mg/L	4.00		98.8	85-115			
Magnesium	20.6	0.100	mg/L	20.0		103	85-115			
Potassium	8.00	1.00	mg/L	8.00		100	85-115			
Silicon	4.05	0.500	mg/L	4.00		101	85-115			
Sodium	3.10	1.00	mg/L	3.24		95.8	85-115			
Strontium	3.99	0.100	mg/L	4.00		99.6	85-115			

LCS Dup (B252748-BSD1)

Prepared: 09/03/25 Analyzed: 09/08/25

Aluminum	4.02	0.050	mg/L	4.00		100	85-115	1.33	20	
Boron	4.22	0.300	mg/L	4.00		106	85-115	2.67	20	
Calcium	4.04	0.100	mg/L	4.00		101	85-115	2.52	20	
Iron	4.07	0.050	mg/L	4.00		102	85-115	3.08	20	
Magnesium	21.1	0.100	mg/L	20.0		105	85-115	2.30	20	
Potassium	8.12	1.00	mg/L	8.00		101	85-115	1.50	20	
Silicon	4.11	0.500	mg/L	4.00		103	85-115	1.56	20	
Sodium	3.11	1.00	mg/L	3.24		96.1	85-115	0.368	20	
Strontium	4.02	0.100	mg/L	4.00		101	85-115	0.938	20	

Green Analytical Laboratories

Reporting Station For Jeremy D Allen, Laboratory Director

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

Project: Enduring Resources
Project Name / Number: Enduring NE Lybrook WSW
Project Manager: Trevor Downing

Reported:
09/12/25 09:25

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B252804 - Dissolved ICPMS

Blank (B252804-BLK1)

Prepared & Analyzed: 09/05/25

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 (B252804-BS1)

Prepared & Analyzed: 09/05/25

Arsenic	0.0492	0.0010	mg/L	0.0500	98.3	85-115
Barium	0.0482	0.0005	mg/L	0.0500	96.3	85-115
Cadmium	0.0486	0.0005	mg/L	0.0500	97.2	85-115
Chromium	0.0487	0.0020	mg/L	0.0500	97.5	85-115
Copper	0.0487	0.0010	mg/L	0.0500	97.5	85-115
Lead	0.0493	0.0005	mg/L	0.0500	98.5	85-115
Manganese	0.0484	0.0005	mg/L	0.0500	96.8	85-115
Molybdenum	0.0501	0.0005	mg/L	0.0500	100	85-115
Nickel	0.0481	0.0005	mg/L	0.0500	96.2	85-115
Selenium	0.243	0.0010	mg/L	0.250	97.1	85-115
Zinc	0.0516	0.0020	mg/L	0.0500	103	85-115

LCS Dup (B252804-BSD1)

Prepared & Analyzed: 09/05/25

Arsenic	0.0498	0.0010	mg/L	0.0500	99.7	85-115	1.38	20
Barium	0.0484	0.0005	mg/L	0.0500	96.9	85-115	0.577	20
Cadmium	0.0489	0.0005	mg/L	0.0500	97.8	85-115	0.608	20
Chromium	0.0493	0.0020	mg/L	0.0500	98.6	85-115	1.18	20
Copper	0.0485	0.0010	mg/L	0.0500	97.0	85-115	0.472	20
Lead	0.0495	0.0005	mg/L	0.0500	99.0	85-115	0.535	20
Manganese	0.0491	0.0005	mg/L	0.0500	98.1	85-115	1.38	20
Molybdenum	0.0505	0.0005	mg/L	0.0500	101	85-115	0.742	20
Nickel	0.0479	0.0005	mg/L	0.0500	95.9	85-115	0.407	20
Selenium	0.244	0.0010	mg/L	0.250	97.6	85-115	0.539	20
Zinc	0.0482	0.0020	mg/L	0.0500	96.5	85-115	6.68	20

Green Analytical Laboratories

Reporting Station For Jeremy D Allen, Laboratory Director

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

Project: Enduring Resources
Project Name / Number: Enduring NE Lybrook WSW
Project Manager: Trevor Downing

Reported:
09/12/25 09:25

Notes and Definitions

M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
M1	Matrix spike recovery was above laboratory acceptance criteria.
H	This analysis is typically performed in the field and has a method-defined holding time of 15 minutes. This sample has been qualified to indicate the analysis was performed in the laboratory outside of the 15 minute time frame.
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

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Reporting Station For 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

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

Company or Client: Wright & Carter Engineers, Inc.		Bill to (if different):		ANALYSIS REQUEST	
Address: 1666 N. Main Ave Suite C					
City: Durango State: CO Zip: 81361					
Phone #: 970-963-2677					
Contact Person: Trevor Downing					
Email Report to: tdowning@wright-wat.com					
Project Name(optional): Enduring NE Lybrook USW		P.O. #:			
Sampler Name (Print): Trevor Downing		Rush? N		TAT Needed?	
Lab I.D. Lab Use Only 2508-463		Sample Name or Location		Collected	
1) NEL 2		Date		Time	
2)		8/26/25		17:00pm	
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
		GROUNDWATER		☒	
		SURFACE WATER		☐	
		WASTEWATER		☐	
		PRODUCED WATER		☐	
		DRINKING WATER		☐	
		SOIL		☐	
		OTHER:		☐	
		No preservation		☒	
		Nitric Acid		☐	
		Hydrochloric Acid		☐	
		Sulfuric Acid		☐	
		Sodium Hydroxide		☐	
		OTHER:		☐	
		Enduring Resources Project			

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 consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: **Trevor Downing** Date: **8/28/25** Received By: **[Signature]** Date: **8/28/25**

Relinquished By: **Trevor Downing** Date: **8/28/25** Received By: **[Signature]** Date: **8/28/25**

Relinquished By: **Trevor Downing** Date: **8/28/25** Received By: **[Signature]** Date: **8/28/25**

Relinquished By: **Trevor Downing** Date: **8/28/25** Received By: **[Signature]** Date: **8/28/25**

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.



SAMPLE CONDITION RECEIPT FORM

Date/Initials of person examining contents: 8.28.25Labeled by initials: _____
(if different than above)Client Name: Wright Water EngineersWork Order # 2508-463Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____Thermometer Used: #2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ None Cooler Temp: _____ Observed Temp: 25.2 °C Correction Factor: 0 °C Final Temp: 25.2 °C

* Temp should be above freezing 6°C

Compliance: ☐ Yes ☒ No

Chain of Custody Filled Out:	☒ Yes ☐ No	1.
COC Signed when Relinquished and Received:	☒ Yes ☐ No	2.
Sampler Name and Signature on COC: *Required for compliance	☒ Yes ☐ No	3.
Samples arrived within hold time: (Excluding pH)	☒ Yes ☐ No	4.
Correct Containers Used & Intact:	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): (Excluding pH)	☒ Yes ☐ No	6. <u>BAFIS</u>
Rush Turn Around Time Requested:	☐ Yes ☒ No	7. <u>Nov 8 28 25</u>
Sufficient Volume:	☒ Yes ☐ No	8.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	☐ Yes ☐ No ☐ N/A	9.
Dissolved Testing Needed:	☒ Yes ☐ No	10. <u>0.45</u>
Field Filtered: ☐ Yes ☒ No		
Sample Labels match COC: -Includes Date/Time/ID	☒ Yes ☐ No	11.
Matrix:	☒ WT ☐ SL ☐ OT	
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	12.
Trip Blank Custody Seals Present:	☐ Yes ☐ No ☐ N/A	
VOA's meet headspace requirement (<6mm bubbles)	☐ Yes ☐ No ☐ N/A	
Non-Conformance(s):	☐ Yes ☒ No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

 Comments/Resolution: _____

Sample Name: NEL 2

Start Date: 8/28/25

Laboratory Sample ID: 2508-463-01

ART Type:

DATE:

8/29/25	8/30/25	8/31/25	9/1/25	9/2/25	9/3/25	9/4/25	9/5/25	9/6/25	9/7/25
---------	---------	---------	--------	--------	--------	--------	--------	--------	--------

Time Lag (days)	1	2	3	4	5	6	7	8	10
Approx. Population	475,000	82,000	140,000	4500	450	75	10	n/a	n/a
Reaction Code									

APB

Purple

(Acid Producing Bacteria)

Time Lag (days)	1	2	3	4	5	6	7	8	10
Approx. Population	570,000	140,000	35,000	9000	2200	500	150	25	< 1
Reaction Code	A	A	A	A	A	A	A	A	A

RB

Red

(Iron Related Bacteria)

Time Lag (days)	1	2	3	4	5	6	7	8	10
Approx. Population	1,750,000	440,000	67,000	13,000	2500	500	100	< 20	n/a
Reaction Code	A	A	A	A	A	A	A	A	A

SLYM

Green

(Slime Forming Bacteria)

Time Lag (days)	1	2	3	4	5	6	7	8	10
Approx. Population	2,200,000	500,000	115,000	27,000	6,000	1400	325	75	20
Reaction Code	A	A	A	A	A	A	A	A	A

SRB

Black

(Sulfate Reducing Bacteria)

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

Water Analysis of Disposal Zone Water

Crow Canyon Unit 701H

Escrito L14-2408 03H & 04H

Multi-Chem Analytical Laboratory

multi-chem[®]

A HALLIBURTON SERVICE

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: Standard

Water Analysis Report

Production Company: **DJR Operating, LLC**
 Well Name: **CROW CANYON UNIT 701H**
 Sample Point: **SEPARATOR**
 Sample Date: **4/9/2019**
 Sample ID: **WA-385471**

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

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations	mg/L	Anions	mg/L
Test Date:	4/22/2019	Sodium (Na):	17630.13	Chloride (Cl):	27500.00
System Temperature 1 (°F):	50	Potassium (K):	35.99	Sulfate (SO4):	0.00
System Pressure 1 (psig):	15	Magnesium (Mg):	44.65	Bicarbonate (HCO3):	732.00
System Temperature 2 (°F):	200	Calcium (Ca):	276.09	Carbonate (CO3):	
System Pressure 2 (psig):	200	Strontium (Sr):	70.07	Hydroxide (HO):	
Calculated Density (g/ml):	1.0287	Barium (Ba):	21.81	Acetic Acid (CH3COO)	
pH:	7.00	Iron (Fe):	14.07	Propionic Acid (C2H5COO)	
Calculated TDS (mg/L):	46354.57	Zinc (Zn):	0.05	Butanoic Acid (C3H7COO)	
CO2 in Gas (%):		Lead (Pb):	0.23	Isobutyric Acid ((CH3)2CHCOO)	
Dissolved CO2 (mg/L):	148.50	Ammonia (NH3):		Fluoride (F):	
H2S in Gas (%):		Manganese (Mn):	0.19	Bromine (Br):	
H2S in Water (mg/L):	0.00	Aluminum (Al):	0.03	Silica (SiO2):	29.29
Tot. Suspended Solids (mg/L):		Lithium (Li):	1.99	Calcium Carbonate (CaCO3):	
Corrosivity (Langlier Sat. Indx)	0.00	Boron (B):	3.95	Phosphates (PO4):	
Alkalinity:		Silicon (Si):	13.69	Oxygen (O2):	

Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
200.00	200.00	0.86	68.99	0.00	0.00	0.00	0.00	1.46	9.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183.00	179.00	0.75	59.53	0.00	0.00	0.00	0.00	1.36	9.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	159.00	0.64	50.49	0.00	0.00	0.00	0.00	1.25	9.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	138.00	0.55	42.18	0.00	0.00	0.00	0.00	1.14	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.00	118.00	0.45	34.49	0.00	0.00	0.00	0.00	1.03	9.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.00	97.00	0.37	27.51	0.00	0.00	0.00	0.00	0.91	8.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	77.00	0.29	21.31	0.00	0.00	0.00	0.00	0.79	8.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83.00	56.00	0.22	15.92	0.00	0.00	0.00	0.00	0.67	7.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.00	36.00	0.16	11.49	0.00	0.00	0.00	0.00	0.55	6.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.00	15.00	0.13	9.05	0.00	0.00	0.00	0.00	0.45	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

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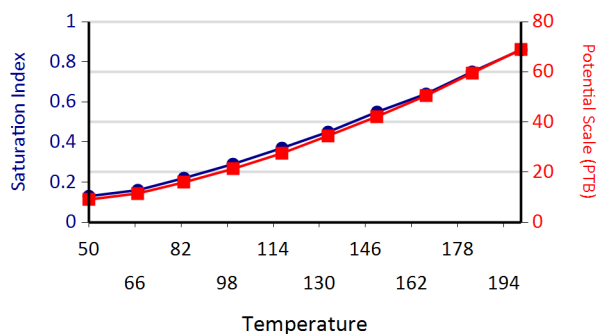
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ ~0.5H ₂ O		Anhydrate CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	8.82	0.38	4.39	5.59	10.62
183.00	179.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.93	10.42
167.00	159.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.28	10.08
150.00	138.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.64	9.58
133.00	118.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.02	8.83
117.00	97.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.41	7.79
100.00	77.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	6.44
83.00	56.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	4.81
67.00	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	3.05
50.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	1.71

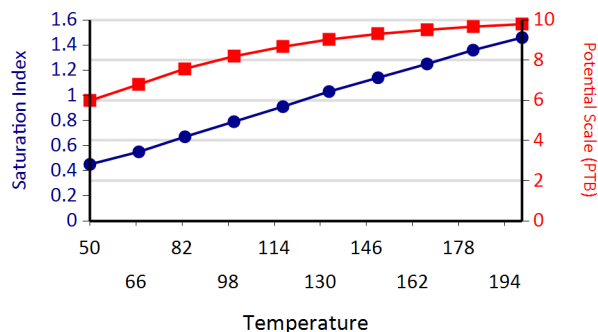
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

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

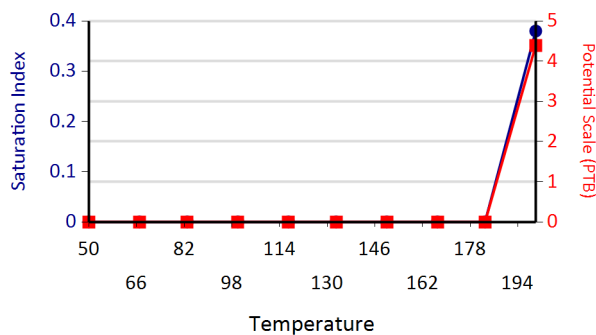
Calcium Carbonate



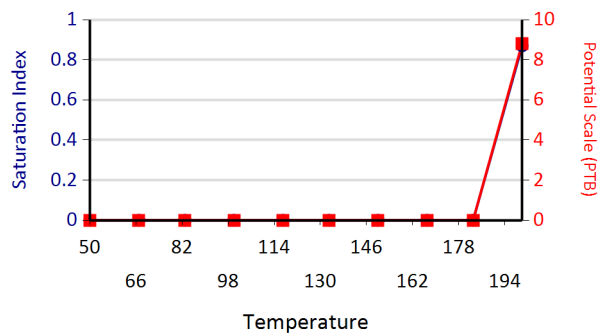
Iron Carbonate



Ca Mg Silicate



Mg Silicate



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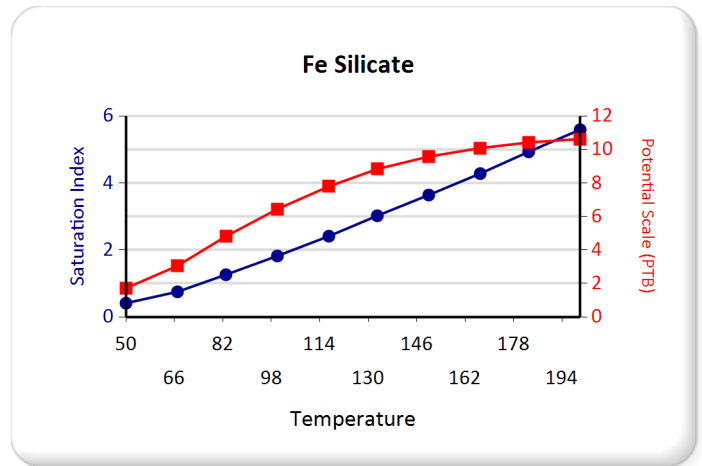
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Water Analysis Report



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Units of Measurement: Standard

Water Analysis Report

Production Company: **DJR Operating, LLC**
 Well Name: **ESCRITO L14-2408-03H/04H**
 Sample Point: **SEPARATOR**
 Sample Date: **4/9/2019**
 Sample ID: **WA-385475**

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

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations	mg/L	Anions	mg/L
Test Date:	4/22/2019	Sodium (Na):	9581.25	Chloride (Cl):	15500.00
System Temperature 1 (°F):	50	Potassium (K):	33.30	Sulfate (SO4):	0.00
System Pressure 1 (psig):	15	Magnesium (Mg):	43.06	Bicarbonate (HCO3):	335.50
System Temperature 2 (°F):	200	Calcium (Ca):	364.62	Carbonate (CO3):	
System Pressure 2 (psig):	200	Strontium (Sr):	75.28	Hydroxide (HO):	
Calculated Density (g/ml):	1.0152	Barium (Ba):	23.29	Acetic Acid (CH3COO)	
pH:	7.10	Iron (Fe):	34.69	Propionic Acid (C2H5COO)	
Calculated TDS (mg/L):	26024.50	Zinc (Zn):	0.27	Butanoic Acid (C3H7COO)	
CO2 in Gas (%):		Lead (Pb):	0.11	Isobutyric Acid ((CH3)2CHCOO)	
Dissolved CO2 (mg/L):	99.00	Ammonia NH3:		Fluoride (F):	
H2S in Gas (%):		Manganese (Mn):	1.00	Bromine (Br):	
H2S in Water (mg/L):	0.00	Aluminum (Al):	0.10	Silica (SiO2):	32.13
Tot. Suspended Solids (mg/L):		Lithium (Li):	1.88	Calcium Carbonate (CaCO3):	
Corrosivity (Langlier Sat. Indx)	0.00	Boron (B):	3.21	Phosphates (PO4):	0.12
Alkalinity:		Silicon (Si):	15.02	Oxygen (O2):	

Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
200.00	200.00	0.81	33.35	0.00	0.00	0.00	0.00	1.70	23.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183.00	179.00	0.69	28.05	0.00	0.00	0.00	0.00	1.59	23.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	159.00	0.58	23.03	0.00	0.00	0.00	0.00	1.47	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	138.00	0.48	18.45	0.00	0.00	0.00	0.00	1.36	21.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.00	118.00	0.38	14.34	0.00	0.00	0.00	0.00	1.24	21.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.00	97.00	0.29	10.70	0.00	0.00	0.00	0.00	1.11	19.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	77.00	0.21	7.57	0.00	0.00	0.00	0.00	0.99	18.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83.00	56.00	0.15	4.97	0.00	0.00	0.00	0.00	0.87	17.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.00	36.00	0.09	2.95	0.00	0.00	0.00	0.00	0.75	15.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.00	15.00	0.06	1.98	0.00	0.00	0.00	0.00	0.65	13.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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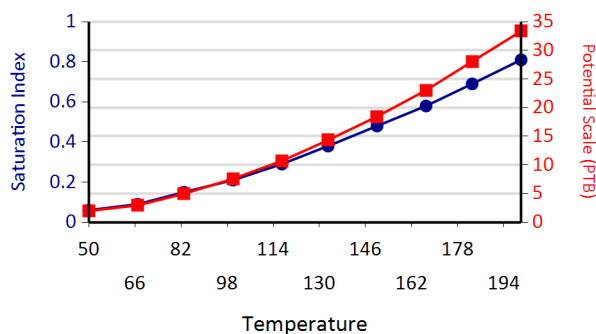
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ ~0.5H ₂ O		Anhydrate CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	8.18	0.92	6.06	7.48	25.51
183.00	179.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	2.79	0.38	2.31	6.80	24.61
167.00	159.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.12	23.33
150.00	138.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.45	21.65
133.00	118.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.81	19.61
117.00	97.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.18	17.30
100.00	77.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.58	14.85
83.00	56.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.01	12.41
67.00	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	10.16
50.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.15	8.65

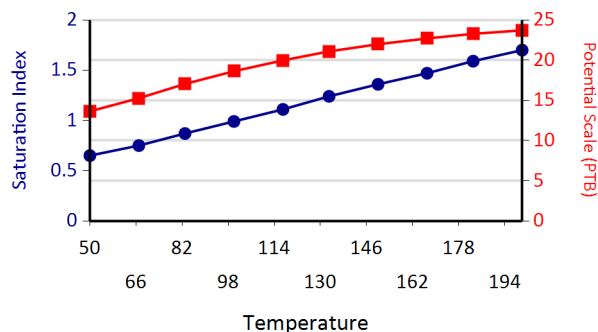
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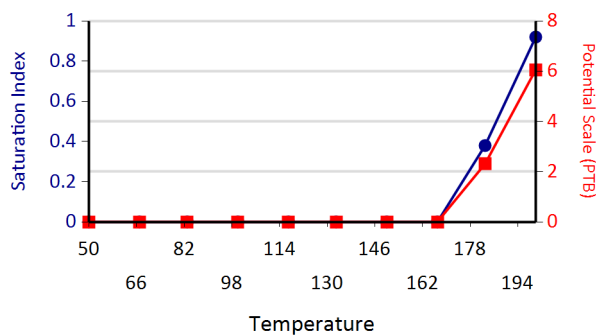
Calcium Carbonate



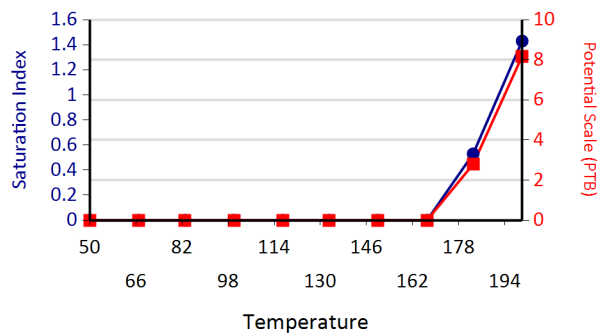
Iron Carbonate



Ca Mg Silicate



Mg Silicate



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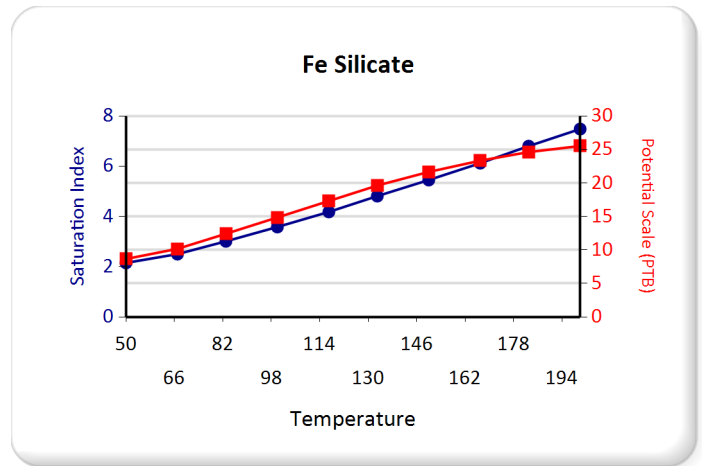
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Water Analysis Report



Application For Authorization to Inject

Western Refining Pipeline, LLC
30-045-32447 Carson Unit WDW #242

Purpose

Western Refining Pipeline, LLC (WRPL) is hereby making a Re-Application for Administrative Approval for injection of produced water for disposal purposes into the Entrada formation. The injection authority for this well automatically terminated for inactivity. NMOCD records indicate the last injection occurred in February 2024. The renewal of this permit would allow injection of produced water from area production to continue in much of the same manner as authorized by the existing Permit, such as safely managing, storing, and disposing of produced water, perform required monitoring to ensure compliance and protection of human health and the environment.

Operator Contact

Western Refining Pipeline, LLC (OGRID: 332293)
Heather Woods, Environmental Specialist
111 Road 4990
Bloomfield, New Mexico 87413
E: HMWoods@marathonpetroleum.com M: 505-512-9797

Well Data

General Well Information
Carson Unit WDW #242
API No: 30-045-32447
Administrative Order SWD-933 (*expired*)

Surface Location
NENW C-24-25N-12W
719 FNL & 1802 FWL
36.3919449°N, -108.0658951°W
Lease: NMSF78064

Surface Ownership

The Carson Unit WDW #242 is located on public lands in San Juan County, New Mexico and is managed by the Bureau of Land Management-Farmington Field Office.

Surface Casing

Well spud on 4/21/2025. Hole Size: 12.125". Steel Casing Size: 9.625" 36 lb J55 STC. Set depth: F/surface – T/415'. Cement: Type I-II, 250sx, 15.6 ppg, 1.18 yield. TOC: Surface BOC 415'. Methodology for determining top of cement: Circulated 20 bbls to Surface.

Production Casing

Hole Size: 8.75". Total depth of 7,266' was reached on 5/12/2005. Steel Casing Size: 7.0" 23 lb L80 LTC. Set depth: F/surface – T/7,249'. Cement LEAD: Type 50/50/STD/Poz, 1031sx, 13.5 ppg, 1.16 yield. Cement TAIL: Type 65/35/STD/Poz, 525sx, 15.4 ppg, 1.30 yield. TOC: Surface BOC: 7,249'. Methodology for determining top of cement: Circulated 40 bbls to Surface.

Injection Tubing

Completed on 5/16/2006. 3.5" 9.3 lb N80 EUE plastic coated. Set depth: F/surface – T/7,186'. Packer set at 6,820'.

Application For Authorization to Inject

Western Refining Pipeline, LLC
30-045-32447 Carson Unit WDW #242

Perforations

Interval 6,910' – 6,990' 0.38 diameter. Total holes: 320. Acidized with 6000 gals. 7-1/2% MCA HCl acid with Musol. Formation broke at 250 psi at 10 BPM. Max rate 22.5 BPM at 1077 psi. ISIP 439 psi. 3 min. vacuum. Fraced with 125,524 gals of Delta 200. Placed 186,500 lbs. 20/40 Ottawa sand at 1-4.34 ppg. All sand coated by Expedite. ISIP 1279 psi. 5 min: 1182 psi. 10 min: 1132 psi. 15 min: 1061 psi.

Existing Project

The Carson Unit WDW #242 is an existing injection well. The injection authority for the subject well automatically terminated for inactivity. NMOCD records indicate the last injection occurred in February 2024.

Operations Plan

The reinstatement of this Permit would allow injection of produced water from area production to continue in much of the same manner as authorized by the existing Permit, such as safely managing, storing, and disposing of produced water, perform required monitoring to ensure compliance and protection of human health and the environment.

Continue as Permitted:

1. Average Injection Rate: 1,000 Bbls/day. Maximum Injection Rate: 2,000 Bbls/day.
2. The system will be open. Produced water will be hauled by truck and/or through an existing permitted surface line system with pressure limiting devices and volume meters. The annulus will be monitored for pressure.
3. Injection Pressure: Average 1200 psi. Maximum 1,382 psi.
4. The source of injected water will be from area production. The water to be injected is compatible with the water found the Entrada Sandstone formation.
5. Nearby Water Review: Entrada Water Analysis Saltwater Disposal Wells
[Attachment Injectate and Formation Fluid Analysis](#)

Geologic Data

The Entrada injection interval has not been proven productive within two miles of the Carson WDW 242 well. Elm Ridge Resources drilled a wildcat Entrada oil well (Farfelu #1) which was proven unsuccessful. The Farfelu #1 was plugged back and re-completed in the Dakota formation. Advanced Wireless Communications is the current Operator of the Farfelu #1.

In general, Entrada water near recharge zones (basin fringe) has a specific conductance of <1,500 μ mhos. Entrada water from deeper parts of the basin has a specific conductance of > 10,000 μ mhos. Stone et al in Hydrogeology and water resources of San Juan Basin, New Mexico wrote, "Generally, however, water from the Entrada is not suitable for drinking especially in deeper parts of the basin. Summaries of analyses of Entrada produced water follow.

Formation Tops

Nacimiento Formation	0
Ojo Alamo Formation	115
Kirtland Formation	222
Fruitland Coal	1044
Pictured Cliffs Formation	1245
Lewis Formation	1418
Chacra Mesa Member	1578
Cliff House Formation	1975
Menefee Formation	2112
Point Lookout Formation	3708
Mancos Formation	3928
Gallup Formation	4782
Greenhorn Member of the Mancos Formation	5605
Graneros Member-Mancos Fm	5655
Dakota Formation	5683
Morrison Formation	6018
Todilto Formation	6878
Entrada Formation	6906

Stimulation Perforations

Interval 6,910' – 6,990' 0.38 diameter. Total holes: 320. Acidized with 6000 gals. 7-1/2% MCA HCl acid with Musol. Formation broke at 250 psi at 10 BPM. Max rate 22.5 BPM at 1077 psi. ISIP 439 psi. 3 min. vacuum. Fraced with 125,524 gals of Delta 200. Placed 186,500 lbs. 20/40 Ottawa sand at 1-4.34 ppg. All sand coated by Expedite. ISIP 1279 psi. 5 min: 1182 psi. 10 min: 1132 psi. 15 min: 1061 psi.

Logging and Test Data

Well logs have been filed with the Division.

Chemical Analysis of Freshwater

There are no freshwater wells within one mile of the Carson WDW #242 which penetrate the injection zone. Point of diversion data obtained from NMOSE records on October 10, 2025 indicate there are two water wells within the two-mile area of review:

- 1) Surface Permit 02870 and;
- 2) SJ-00079 is northeast in Section 13. The declaration of owner of underground water right for this well gives a well depth of 2,550'. Because this is described as a "shallow" well, it can be assumed the well is hydrologically separated from the Entrada formation by several confining layers including the Todilto Limestone, the Mancos Shale, and the Lewis Shale. Additionally, the underlying Chinle Formation acts as a confining unit below the Entrada Sandstone (Kemodle, 1996) and per the review of NMOSE well data, the Chinle Formation is not a regional source of water.

The National Hydrography Dataset indicates the closest surface water feature to the Carson WDW #242 water disposal well is the Hunter Wash, which is located approximately 0.58 miles southwest.

No freshwater chemical analysis available for these sources.

Attachment Area of Review Analysis

Affirmative Statement of Geologic and Engineering Data

Western Refining Pipeline, 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 formation stratigraphically isolate hydrocarbon producing and water free formations throughout the Upper Cretaceous geologic section. Entrada water does not reach the shallower Tertiary formations.

Heath Wark

11/6/2025

Date

INJECTION WELL DATA SHEET

Tubing Size: 3.5" 9.3# N80 EUE Plastic Coated

Type of Packer: Arrow Drill Packer

Packer Setting Depth: 6820'

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

Additional Data

1. Is this a new well drilled for injection? No, the Carson WDW 242 is an existing water disposal well.
If no, for what purpose was the well originally drilled? Injection of Produced Water from area production
2. Name of the Injection Formation: Entrada Formation
3. Name of Field or Pool (if applicable): [96436] SWD; Entrada
4. Has the well ever been perforated in any other zone(s)? No
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:

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 532374

CONDITIONS

Operator: Whiptail Gallup Gathering, LLC 15 West 6th Street Tulsa, OK 74119	OGRID: 332293
	Action Number: 532374
	Action Type: [C-108] Fluid Injection Well (C-108)

CONDITIONS

Created By	Condition	Condition Date
stacy.sandoval	None	12/22/2025