
Western Refining Southwest LLC

539 S Main Street
Findlay, OH 45840
Tel: 419.422.2121

April 27, 2026

Mr. Carl Chavez
Environmental Bureau
New Mexico Energy, Minerals & Natural Resources Department - Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: OCD Discharge Permit Renewal Application
 Class I Waste Injection Well "WDW-2"
 Bloomfield Terminal
 OCD Discharge Permit UICI-011
 OGRD Number: 267595; API: 30-045-35747

Dear Mr. Chavez,

Western Refining Southwest, Inc. (Western) submits the enclosed application to renew OCD Discharge Permit UICI-0011 for its Bloomfield Terminal Class I Waste Injection Well, WDW-2. WDW-2 is within the property boundary of the Bloomfield Terminal located at #50 Country Road 4990 in Bloomfield, New Mexico. The Discharge Permit will expire on August 30, 2026. Pursuant to Section 20.6.2.5101.F of the New Mexico Administrative Code (NMAC), Western is required to apply for renewal of the permit no later than 120 days before the expiration date, or by May 1, 2026.

Western will publish in the Farmington Daily Times (Sunday edition) the Public Notice of the Administrative Completeness Determination and Draft Permit by ENMRD-OCD.

If you have any questions regarding the attached OCD Discharge Permit Renewal Application, please contact me at (949) 981-9202 (BDNguyen@marathonpetroleum.com).

Sincerely,



Brian Nguyen
Senior Environmental Engineer

Cc: Bryan Rydalch, Western, (BRRydalch@marathonpetroleum.com)



E N S O L U M

**DISCHARGE PLAN RENEWAL APPLICATION FOR UIC CLASS I NON-
HAZARDOUS INJECTION WELL**

Property:

**Bloomfield Products Terminal
Western Refining Southwest, Inc.
50 County Road 4990
Bloomfield, New Mexico 87413**

April 16, 2026

Devin Hencmann
Associate Principal, Geologist
Ensolum, LLC

TABLE OF CONTENTS

1.0 INTRODUCTION

2.0 DISCHARGE PLAN APPLICATION

3.0 APPLICATION FOR AUTHORIZATION TO INJECT

4.0 ADMINISTRATIVE APPLICATION CHECKLIST

APPENDIX A. MAPS AND DIAGRAMS

APPENDIX B. INJECTION FLUID ANALYTICAL RESULTS

APPENDIX C. MIT & BRADENHEAD TEST REPORTS

APPENDIX D. GEOLOGICAL INFORMATION

APPENDIX E. CLOSURE PLAN

APPENDIX F. WELLS WITHIN THE VICINITY OF WDW-2

APPENDIX G. SUMMARY OF 2025 WELL OPERATION DATA FOR WDW-2

1.0 INTRODUCTION

Western Refining Southwest, Inc.'s Bloomfield Products Terminal (BPT) is authorized to dispose of non-hazardous treated wastewater, including both RCRA-exempt and non-exempt, nonhazardous waste, through Wastewater Disposal Well #2 (WDW-2).

WDW-2 (AP #30-045-29002) began operations in 2016 under Discharge Permit No. UICI-011, which is set to expire on August 30, 2026. In accordance with Section 20.6.2.3106.G of the New Mexico Administrative Code, a renewal application must be submitted at least 120 days prior to the permit's expiration date. The application for renewal is due no later than May 1, 2026, therefore BPT hereby submits this application to renew Discharge Permit No. UICI-011.

The Discharge Plan Application for Renewal is provided in Section 2.0, the Application for Authorization to Inject is provided in Section 3.0, and the Administrative Application Checklist is provided in Section 4.0. All supporting materials and attachments are provided in the appendices.

2.0 DISCHARGE PLAN APPLICATION

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Revised August 1, 2011

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

**DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS,
REFINERIES, COMPRESSOR, GEOTHERMAL FACILITIES
AND CRUDE OIL PUMP STATIONS**

(Refer to the OCD Guidelines for assistance in completing the application)

☐ New ☒ Renewal ☐ Modification

1. Type: UIC Class I Non-Hazardous Injection Well (WDW #2)

2. Operator: Western Refining Southwest, Inc.

Address: #50 County Road 4990 (PO Box 159), Bloomfield, NM 87413

Contact Person: Bryan Rydalch, Terminal Manager Phone: 801-596-4764

3. Location: SE /4 NE /4 Section 27 Township 29N Range 11W
Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.

5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.

6. Attach a description of all materials stored or used at the facility.

7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.

8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.

9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.

10. Attach a routine inspection and maintenance plan to ensure permit compliance.

11. Attach a contingency plan for reporting and clean-up of spills or releases.

12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.

13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

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

Name: Angela S. Brown

Title: Vice President

Signature: X Angela Brown

Date: 4-27-2026

E-mail Address: asbrown@marathonpetroleum.com

Western Refining Southwest, Inc. - Bloomfield Products Terminal

Waste Disposal Well #2 (WDW-2) Discharge Plan Application Attachments

4. Landowner of the Facility Site

San Juan Refining Company
539 South Main Street
Findlay, OH 45840

5. Description of the Facility with a Diagram with Site Map

The subject facility is an UIC Class I Non-hazardous Injection Well (WDW-2) located at the Bloomfield Products Terminal, a bulk storage petroleum terminal with a total storage capacity of greater than 300,000 barrels of petroleum products. The terminal receives materials via a loading rack, pipelines, or trucks.

The purpose of WDW-2 is to dispose of excessive treated wastewater that isn't evaporated in the evaporation ponds.

WDW-2 is located within the fence line of Bloomfield Products Terminal. See the figure in Appendix A of this Discharge Plan Renewal Application.

6. Description of All Materials Stored or Used at the Facility

The injection well is not be used to for material storage.

7. Description of Present Sources of Effluent and Waste Solids

During workover (maintenance) operations, the injection well WDW-2 is used a source of wastewater and possibly waste solids. The wastewater will be re-injected into the WDW #2. The waste solids will be characterized and disposed properly.

8. Description of Current Liquid and Solid Waste Collection/Treatment/Disposal Procedures

The injection well is used to dispose of non-exempt non-hazardous wastewater. An Injection Fluid Analytical is included as Appendix B of this Discharge Plan Renewal Application.

9. Description of Proposed Modifications to Existing Collection/Treatment/Disposal Systems

The current design allows treated wastewater to be injected directly into the WDW-2 or directed to the evaporation ponds before injection into WDW-2. No modifications to the existing systems are proposed.

10. Routine Inspection and Maintenance Plan to Ensure Permit Compliance

The WDW #2 surface completion and associated flanges, pumps, piping are visually inspected daily.

Mechanical Integrity Testing (MIT) is conducted pursuant to 20.6.2.5204 NMAC. At a minimum, the program includes:

- A MIT at least once every five years or every time a well workover is performed, and
- An annual Bradenhead test.

Appendix C presents the most recent MIT and Bradenhead test report.

11. Contingency Plan for Reporting and Clean-up of Spill or Releases

The Bloomfield Products Terminal has an Emergency and Facility Response Plan in place to respond to product releases, including treated wastewater. If a reportable quantity (5 bbl.) of treated wastewater is released from the injection well, NMOCD and NMED Hazardous Waste Bureau will be notified in accordance with applicable regulations. Containment, clean-up and reporting will commence as soon as practicable. A copy of the Emergency and Facility Response Plan is available at the site.

12. Geological/Hydrological Information for the Facility (Include Depth to and Quality of Ground Water)

Geological and hydrological information about the injection zone is included in Appendix D of this Discharge Plan Renewal Application.

13. Facility Closure Plan and Other Information to Demonstrate Compliance with any other Rules, Regulations, and/or Orders

A Closure Plan for WDW-2 is included as Appendix E of this Discharge Plan Renewal Application. The closure plan includes an estimate for Financial Assurance.

3.0 APPLICATION FOR AUTHORIZATION TO INJECT

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Western Refining Southwest, Inc.
ADDRESS: #50 County Road 4990 (PO Box 159), Bloomfield, NM 87413
CONTACT PARTY: Bryan Rydalcch, Terminal Manager PHONE: 801-596-4764
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Angela S. Brown TITLE: Vice President
SIGNATURE: X Angela Brown DATE: 4-27-2020
E-MAIL ADDRESS: asbrown@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: Submitted in March 2016 when WDW#2 was applied for.

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.



**Bloomfield, New Mexico
Waste Disposal Well #2
OCD UIC Permit: UICI-011
API # 30-045-3547**

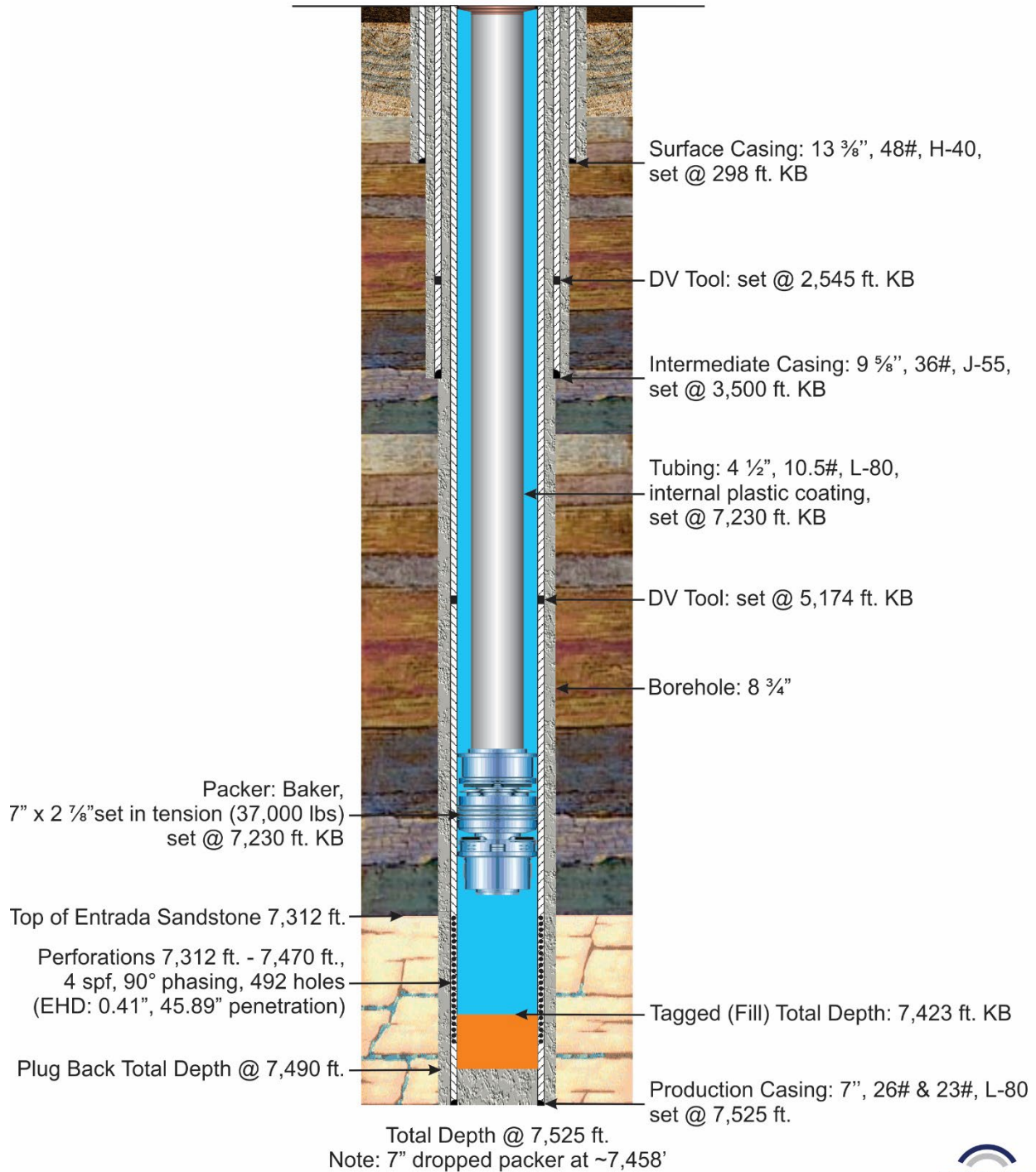


Figure 1a – Updated Well Completion Schematic

ATTACHMENTS FOR AUTHORIZATION TO INJECT

- V. A map that identifies all wells and leases within one mile of the injection well (WDW-2) is included in Appendix F.
- VI. A tabulation of wells within the area of review are presented in Appendix F. The tabulation includes the well type, date drilled, location, depth, record of completion and status.
- VII. Operating data for WDW-2 are submitted to NMOCD on a quarterly basis. The maximum and average injection pressure for 2025 were 1231 psig and 483 psig, respectively. The maximum and average injection rate for 2025 were 35 gpm and 9 gpm, respectively. A summary of the quarterly 2025 operating reports is included in Appendix G.

2025	Injection Pressure		Injection Rate	
Month	Max psig	Avg psig	Max gpm	Avg gpm
Jan	497	491	0	0
Feb	936	475	29	28
Mar	484	478	0	0
Apr	475	471	0	0
May	776	470	27	26
Jun	466	463	0	0
Jul	1231	554	35	30
Aug	560	495	0	0
Sep	487	478	0	0
Oct	794	497	22	20
Nov	468	463	0	0
Dec	460	457	0	0
2025 Max	1231	554	35	30
2025 Avg	636	483	9	9

- IX. The description of the stimulation program was presented in the initial application (2016) for injection for WDW-2.
- XIII. Western Refining Southwest, Inc. will provide Proof of Notice (affidavit of mailing and property owner's name, proof of publication, and an affidavit of posting) to OCD after the notice is published.

4.0 ADMINISTRATIVE APPLICATION CHECKLIST

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: Western Refining Southwest, Inc. **OGRID Number:** 267595
Well Name: WDW#2 **API:** 300453747
Pool: _____ **Pool Code:** _____

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

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
 A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD
- B. Check one only for [I] or [II]
 [I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR **Note: Only treated wastewater is injected.**
- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
- 3) ☐ Offset operators or lease holders
 A. ☐ Royalty, overriding royalty owners, revenue owners
 B. ☒ Application requires published notice
 C. ☐ Notification and/or concurrent approval by SLO
 D. ☐ Notification and/or concurrent approval by BLM
 E. ☐ Surface owner
 F. ☐ For all of the above, proof of notification or publication is attached, and/or,
 G. ☐ No notice required
- 4) **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.

FOR OCD ONLY

☐	Notice Complete
☐	Application Content Complete

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

Angela S. Brown

Print or Type Name

X Angela Brown
 Signature

Date

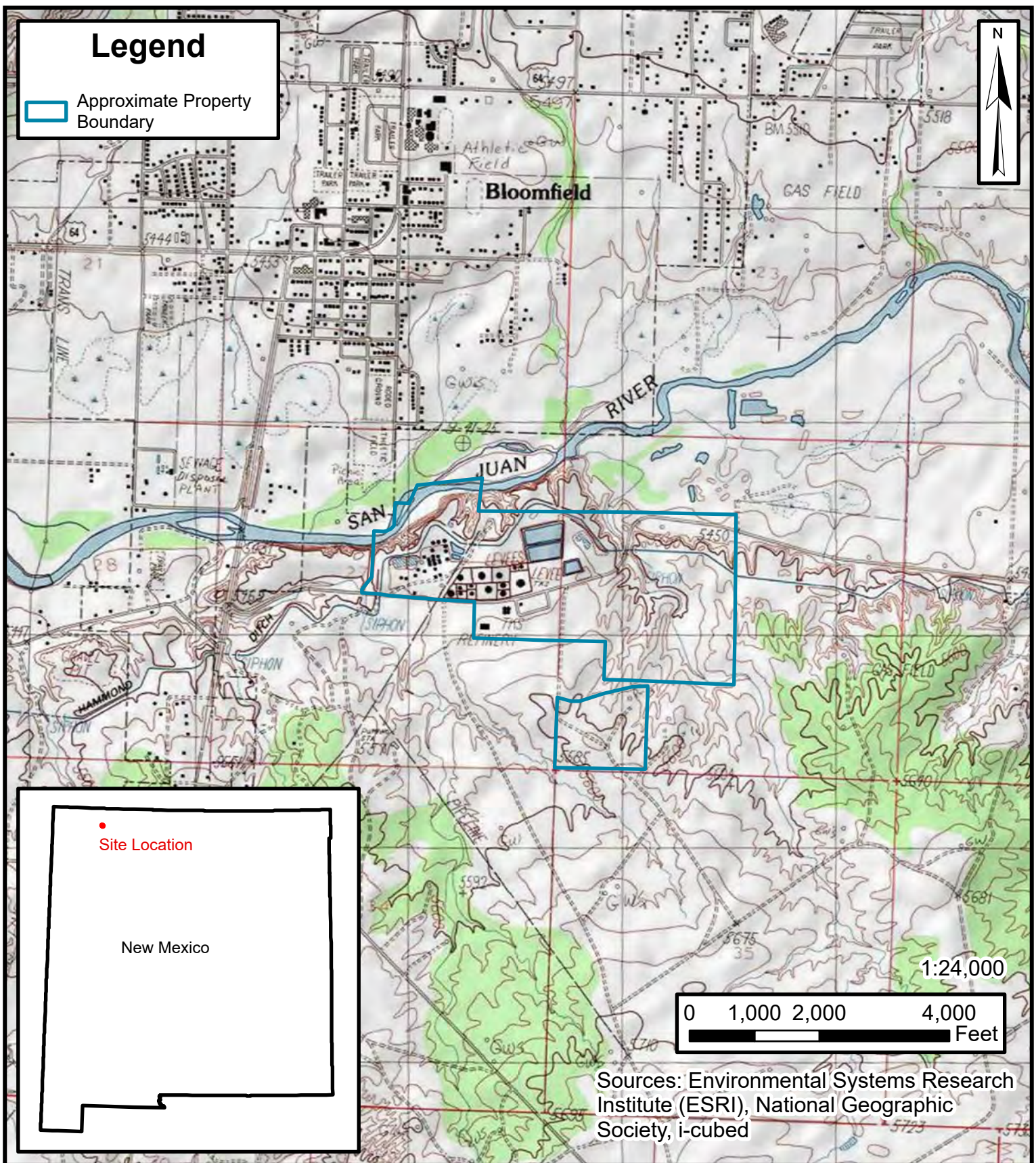
(419) 422-2121

Phone Number

asbrown@marathonpetroleum.com

e-mail Address

APPENDIX A. MAPS AND DIAGRAMS



Facility Site Map

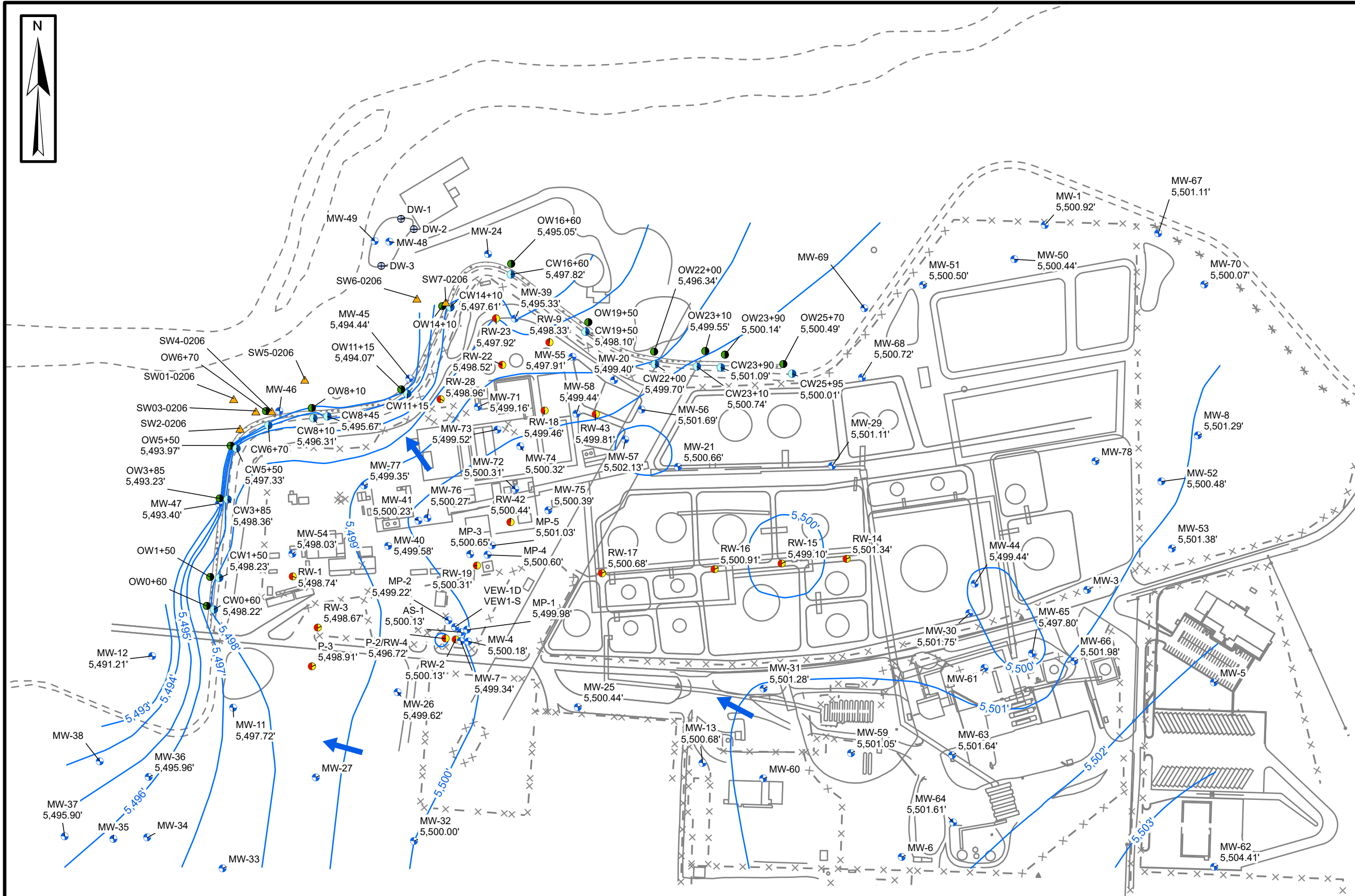
Bloomfield Terminal
Western Refining
Southwest, LLC

Sec 26,27, T29S, R11W
San Juan County, New Mexico

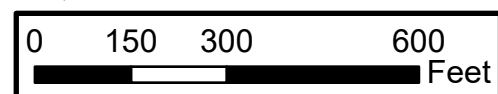
FIGURE

1

Drafted: February
2026



1:3,600



Legend

- Collection Well
- Dewatering Well
- Monitoring Well
- Observation Well
- Recovery Well
- Sump Well
- Ditch
- Fence
- River
- Barrier Wall
- Groundwater Elevation Contour
- Estimated Groundwater Flow Direction

Notes:
Groundwater Elevation in feet above mean sea level
Wells with no recorded depth to water (e.g., dry, obstructed, or not located) were excluded from contour development

Groundwater Elevation August 2025

Bloomfield Terminal
Western Refining
Southwest, LLC

Sec 26,27, T29S, R11W
San Juan County, New Mexico

Figure 7

Drafted: March 2026

APPENDIX B. INJECTION FLUID ANALYTICAL RESULTS

Attachment B - Analytical Summary

		Toxicity Characteristics (40 CFR261.24)	WQCC (20.6.2.3103 NMAC)	2025 Jan-Mar	2025 Apr-June	2025 July-Sept	2025 Oct-Dec
Volatile Organic Compounds (mg/L)							
D029	1,1-Dichloroethene	0.70	5	< 0.04	< 0.04	< 0.04	< 0.04
D028	1,2-Dichloroethane (EDC)	0.50	10	< 0.06	< 0.05	< 0.05	< 0.05
D027	1,4-Dichlorobenzene	7.5	0.075	< 0.022	< 0.04	< 0.04	< 0.04
D035	2-Butanone (MEK)	200		< 0.41	< 0.4	< 0.4	< 0.4
D018	Benzene	0.50	10	< 0.045	< 0.03	< 0.03	< 0.03
D019	Carbon Tetrachloride	0.50	10	< 0.036	< 0.04	< 0.04	< 0.04
D021	Chlorobenzene	100		< 0.092	< 0.1	< 0.1	< 0.1
D022	Chloroform	6.0	100	< 0.05	< 0.05	< 0.05	< 0.05
D039	Tetrachloroethene (PCE)	0.70	20	< 0.036	< 0.04	< 0.04	< 0.04
D040	Trichloroethene (TCE)	0.50	100	< 0.041	< 0.06	< 0.06	< 0.06
D043	Vinyl chloride	0.20	1	< 0.064	< 0.06	< 0.06	< 0.06
Semi-Volatile Organic Compounds (mg/L)							
D041	2,4,5-Trichlorophenol	400		< 0.0051	< 0.0051	< 0.00038	< 0.00075
D042	2,4,6-Trichlorophenol	2.0		< 0.0043	< 0.0043	< 0.00041	< 0.00082
D030	2,4-Dinitrotoluene	0.13		< 0.005	< 0.005	< 0.00039	< 0.00078
D023	2-Methylphenol (o-Cresol)	200		< 0.0047	< 0.0047	< 0.00032	< 0.00063
D024, D025	3+4-Methylphenol (m, p-Cresol)	200		< 0.0049	< 0.0049	< 0.00033	< 0.00066
D032	Hexachlorobenzene	0.13		< 0.0046	< 0.0046	< 0.0025	< 0.0049
D033	Hexachlorobutadiene	0.50		< 0.011	< 0.011	< 0.018	< 0.035
D034	Hexachloroethane	3.0		< 0.011	< 0.011	< 0.017	< 0.033
D036	Nitrobenzene	2.0		< 0.0036	< 0.0036	< 0.0033	< 0.0066
D037	Pentachlorophenol	100	0.001	< 0.015	< 0.015	< 0.0017	< 0.0033
D038	Pyridine	5.0		< 0.0026	< 0.0026	< 0.013	< 0.026
General Chemistry (mg/L unless otherwise stated)							
	Specific Conductance (umhos/cm3)			1,200	1,200	2,900	2,700
	Bromide			0.56	0.55	2.1	2.40
	Chloride		250 *	220	220	560	560
	Fluoride		1.6	0.32	0.2	< 0.46	< 0.46
	Nitrate + Nitrite as N		1	< 0.012	< 0.012	< 0.12	< 0.12
	Phosphorus, Orthophosphate (As P)			< 0.25	< 0.25	< 2.5	3.3
	Sulfate		600	65	63	310	280
	Total Dissolved Solids		1000 **	710	630	1,700	1,600
	pH (pH Units)		6-9	7.6	7.6	8.3	8.1
	Bicarbonate (As CaCO3)			230	210	280	280
	Carbonate (As CaCO3)			< 2.0	< 2.0	< 2.0	< 2.0
	Total Alkalinity (as CaCO3)			230	210	280	280
	Specific Gravity			1.0	1.0	1.0	1.00
	Oxidation-Reduction Potential (mV)			170	300	230	250
Total Metals (mg/L)							
D004	Arsenic	5.0	0.01	< 0.0025	< 0.0025	< 0.0025	0.0026
D005	Barium	100	2.0	0.12	0.094	0.19	0.20
D006	Cadmium	1.0	0.005	< 0.0025	< 0.0025	< 0.0025	< 0.00024
D007	Chromium	5.0	0.05	< 0.0025	< 0.0025	< 0.0025	< 0.00056
D008	Lead	5.0	0.015	< 0.003	< 0.003	< 0.003	< 0.00037
D010	Selenium	1.0	0.05	< 0.004	< 0.004	< 0.004	< 0.00059
D011	Silver	5.0	0.05	< 0.0025	< 0.0025	< 0.0025	< 0.00039
D009	Mercury	0.2	0.002	< 0.00012	< 0.00012	< 0.00012	< 0.000071
Dissolved Metals (mg/L)							
	Calcium			53	50	56	47
	Magnesium			15	14	34	33
	Potassium			6.3	5.8	9.6	12
	Sodium			180	180	540	510
Ignitability, Corrosivity, and Reactivity							
D003	Reactive Cyanide (mg/L)			< 0.25	< 0.25	< 0.25	< 0.25
D003	Reactive Sulfide (mg/L)			< 50	< 50	< 50	< 50
D001	Ignitability (° F)	< 140° F		> 212° F	> 212° F	> 212° F	> 212° F
D002	Corrosivity (ph Units)	≤ 2 or ≥ 12.5	6-9	7.6	7.7	8.1	
Pesticides (mg/L)							
	Chlordane	0.03		< 0.005	< 0.005	< 0.005	< 0.005
Field Parameters							
	pH			7.5	7.7	8.1	6.8
	Temperature (° C)			9.75	22	23	21.8
	Oxidation-Reduction Potential (mV)			-75	-52.7	-53.6	-60.7

Notes:

* This screening level applies to the dissolved phase result, therefore the comparison is bias high.

** This screening level is irrelevant as it applies to a domestic water supply, and the Entrada Formation is a brackish aquifer with TDS concentrations exceeding 10,000 mg/L.

APPENDIX C. MIT & BRADENHEAD TEST REPORTS



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 320-0243
File Via OCD Permitting

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 7/22/25 Operator marathon API #30-0 45-35747
Property Name waste disposal well Well No. 2 Location: Unit H Section 27 Township 24^N Range 11^W
Well Status(Shut-In or Producing) Initial PSI: Tubing 550 Intermediate 80 Casing 0 Bradenhead 54

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing TIME	PRESSURE				
	BH	Bradenhead Int	Csg	INTERM Int	Csg
5 min	0	80	0	0	0
10 min	0	80	0	0	0
15 min	0	80	0	0	0
20 min	0	80	0	0	0
25 min	0	80	0	0	0
30 min	0	80	0	0	0

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
Steady Flow	
Surges	
Down to Nothing	✓
Nothing	
Gas	
Gas & Water	
Water	

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

5 MINUTE SHUT-IN PRESSURE BRADENHEAD 0 INTERMEDIATE 0

REMARKS: BH Blew down to nothing in 2 seconds
Inter - 1 min to blow down to nothing

By [Signature]
ADV. ENVIRONMENTAL ENGINEER
(Position)

Witness [Signature]

E-mail address _____



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

MECHANICAL INTEGRITY TEST REPORT (TA OR UIC)

Date of Test 7/22/25 Operator Marathon API # 30-0 45-35747

Property Name waste disposal well Well # 2 Location: Unit H Sec 27 Twn 29 Rge 11

Land Type:

State _____
Federal _____
Private ☒ _____
Indian _____

Well Type:

Water Injection ☒ _____
Salt Water Disposal ☒ _____
Gas Injection _____
Producing Oil/Gas _____
Pressure observation _____

Temporarily Abandoned Well (Y/N): _____ TA Expires: _____

Casing Pres. 560 Tbg. SI Pres. _____ Max. Inj. Pres. _____
Bradenhead Pres. 0 Tbg. Inj. Pres. _____
Tubing Pres. 550
Int. Casing Pres. 0

Pressured annulus up to 570 psi. for 30 mins. Test passed/failed

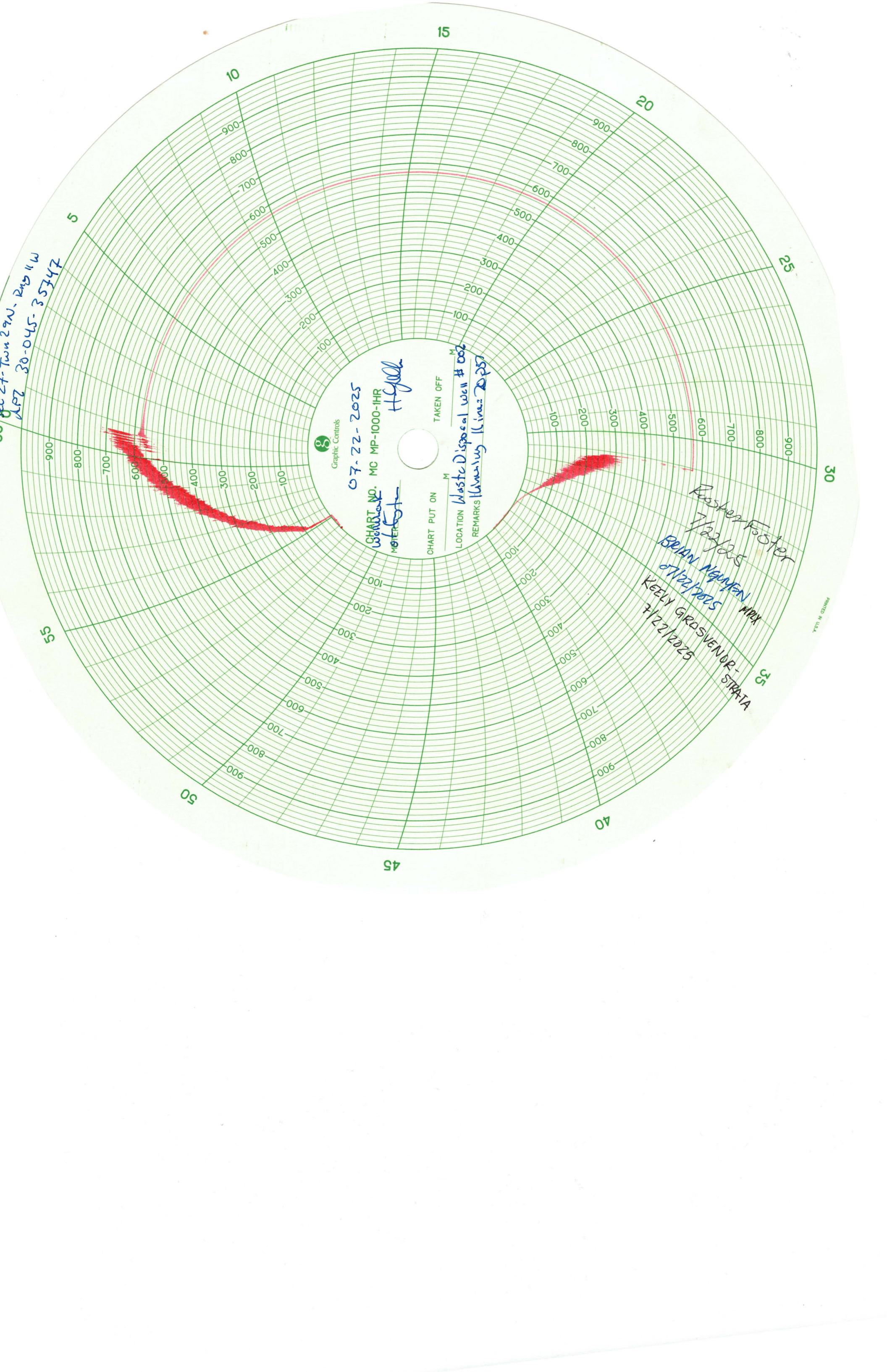
REMARKS: psi fell 2 spsi at the three min mark
Remained same for rest of test

By Brian Nguyen BRIAN NGUYEN Witness [Signature]
(Operator Representative) (NMOCD)

ADV. ENV. ENGINEER
(Position)

Revised 02-11-02

27-Twin 29W- 240" W
APZ 30-045-35347



District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

WELL API NO. 30-045-35747	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name	
8. Well Number: WDW #2	
9. OGRID Number 267595	
10. Pool name or Wildcat Entrada	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☐ Gas Well ☒ Other Wastewater Disposal Well 2. Name of Operator Western Refining Southwest LLC 3. Address of Operator 50 County Road 4990 Bloomfield, NM 87413 4. Well Location Unit Letter <u>H</u> : <u>2028</u> feet from the <u>North</u> line and <u>111</u> feet from the <u>East</u> line Section <u>27</u> Township <u>29N</u> Range <u>11W</u> NMPM San Juan County 11. Elevation (Show whether DR, RKB, RT, GR, etc.)	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: Bradenhead Test, MIT & Kill Switch ☒	OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Pursuant to the Bloomfield Terminal Injection Well Discharge Permit (UICI-011) and guidance from NMOCD, Western Refining Southwest LLC ("Western") is scheduling to conduct a Bradenhead Test, emergency shutdown "kill switch" emergency shutdown test, and a Mechanical Integrity Test (MIT) on WDW #2.

Bradenhead Test Protocol:

- 1) Notify NMOCD of the test.
- 2) Using the current NMOCD "Bradenhead Test Report" Form, document the following:
- 3) Ensure casing valves for each string of casing are accessible.
- 4) The initial pressure in the well tubing, intermediate, casing, and bradenhead.
- 5) Open the bradenhead to atmosphere documenting any pressure or liquid present.
- 6) Observe the pressure of the bradenhead, intermediate, and casing for 15 minutes documenting the pressure every 5 minutes.
- 7) Open the intermediate casing to atmosphere documenting any pressure or liquid present.
- 8) Observe the pressure of the intermediate and casing for 15 minutes documenting the pressure every 5 minutes on the "Bradenhead Test Report" Form.
- 9) Note any remarks, sign, and date the form with the NMOCD representative.

MIT Protocol:

- 1) Notify NMOCD of the test.
- 2) Mobilize pump truck and connect to tubing-casing annulus valve.
- 3) Install certified chart recorder.
- 4) Increase annulus pressure to approximately 560 psi.
- 5) Hold test and monitor for 30 minutes using the chart recorder.
- 6) Bleed down annulus pressure and rig down chart recorder.
- 7) Return well for service.

- 8) Note any remarks, sign, and date the NMOCD Mechanical Integrity Test Report form with the NMOCD representative.

Kill Switch Emergency Shutdown Protocol:

- 1) Notify NMOCD of the test.
- 2) Run the well at a steady state.
- 3) Manually pressure up the well pressure reading gauge to 1460 psi and observe shut down (flow stop).
- 4) Return well for service.
- 5) Document the test on an approved NMOCD form.

The Bradenhead, MIT, and “kill switch” emergency shutdown tests are set to begin at approximately 9:00 AM on July 22, 2025. Upon receipt of NMOCD approval of this test protocol, Western will coordinate with the NM OCD Aztec District Office to provide the opportunity to witness all testing activities. The intent is to initiate field-testing activities on Tuesday, July 22, 2025 at 9:00 AM.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE Environmental Specialist DATE 6/9/2025

Type or print name Gary Russell E-mail address: gfrussell@marathonpetroleum.com PHONE: 678-594-6377

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

WELL API NO. 30-045-35747	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name	
8. Well Number: WDW #2	
9. OGRID Number 267595	
10. Pool name or Wildcat Entrada	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☐ Gas Well ☒ Other Wastewater Disposal Well 2. Name of Operator Western Refining Southwest LLC 3. Address of Operator 50 County Road 4990 Bloomfield, NM 87413 4. Well Location Unit Letter <u>H</u> : <u>2028</u> feet from the <u>North</u> line and <u>111</u> feet from the <u>East</u> line Section <u>27</u> Township <u>29N</u> Range <u>11W</u> NMPM San Juan County 11. Elevation (Show whether DR, RKB, RT, GR, etc.)	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ DOWNHOLE COMMINGLE ☐ CLOSED-LOOP SYSTEM ☐ OTHER: fall-off test ☒		SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ P AND A ☐ CASING/CEMENT JOB ☐ OTHER: ☐	
--	--	--	--

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Pursuant to the Bloomfield Terminal Injection Well Discharge Permit (UICI-011) and guidance from NM OCD, Western Refining Southwest LLC ("Western") is scheduling to conduct a Fall-Off Test (FOT) on WDW #2.

The FOT will begin at approximately 10:00 AM on July 22, 2025.

The FOT will consist of three phases:

- Phase 1: Build-Up
- Phase 2: Pressure Fall-Off Monitoring
- Phase 3: Post Monitoring Operations

Phase 1: Build-Up

The Build-Up Phase involves the injection of the Terminal's treated wastewaters into the well for approximately 72 hours or until the injection pressure reaches the high-pressure set-point of 1,400 psi, whichever occurs first. A stabilized injection rate will be established using the dedicated injection well pump. Following the stable injection rate period, tandem memory gauges will be installed through the crown valve and lubricator using a slick-line unit. The gauges will be positioned at approximately 7,312 feet below grade (reflective to the top of the injection interval). The memory gauges are expected to be Spartek Systems Model SS2100 that will have a resolution of 0.01 psi and an accuracy of $\pm 0.05\%$ of full scale. The pressure range of the gauges will be 0-5,000 psi minimum. The stable injection rate will continue for a minimum of 48-hours following the placement of the tandem memory gauges to allow the gauges to stabilize. During this time, down-hole pressure readings will be recorded. Once the stabilization time has elapsed, the injection well pump will be shut down and the well will be blocked-in by closing the valve at the wellhead and in the pump room (double-block).

Phase 2: Pressure Fall-Off Monitoring

With the well blocked-in, bottom-hole readings will be recorded for a minimum of 3 days and up to 14 days. The recording period will be set to record pressures at a minimum of 5-minute intervals with readings collected more frequently during the early part of the Fall-Off Test period.

Phase 3: Post Monitoring Operations

Following completion of the fall-off monitoring, the gauges will be pulled while making 5-minute stops at each 1,000 ft interval starting at 7,000 ft to collect pressure gradient readings. After removal of the gauges, WDW #2 will return to normal operation.

Upon receipt of NMOCD approval of this test protocol, Western will coordinate with the NM OCD Aztec District Office to provide the opportunity to witness all testing activities. The intent is to initiate field-testing activities no later than Tuesday, July 22.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE



TITLE Environmental Specialist

DATE

6/3/2025

Type or print name Gary Russell

E-mail address: gfrussell@marathonpetroleum.com PHONE: 678-594-6377

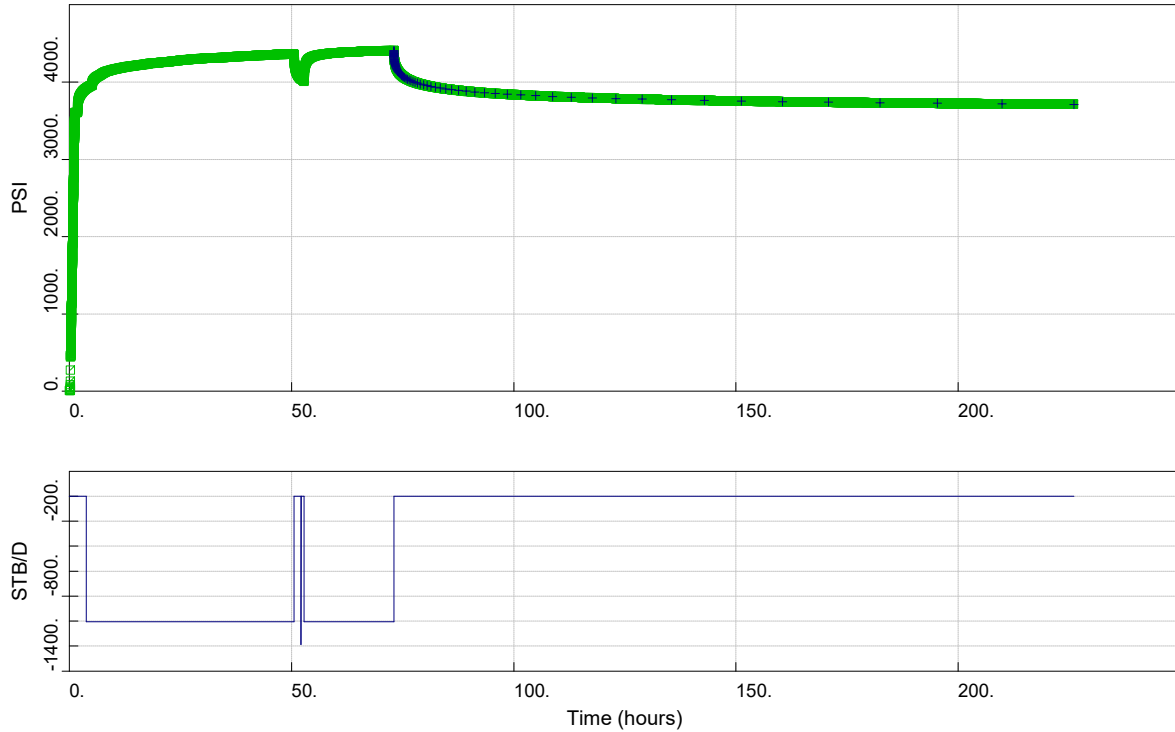
For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):



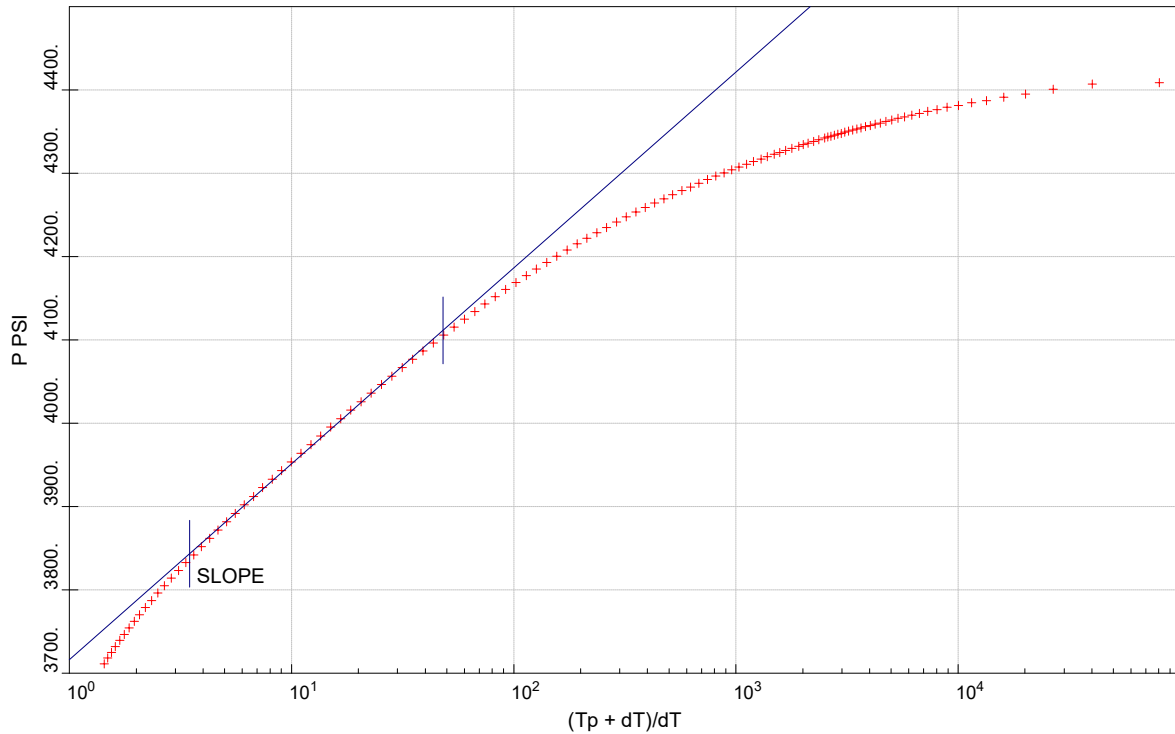
WDW-2 Pressure Falloff

SELECTION OF PRESSURES DATA (PSI)

Gauge-Data ID: GAU001
 Analysis-Data ID: GAU001
 Total Raw points = 271298
 Set 7 rates (max=100000)
 Loaded 126 points (max=100000)
 Pressure Select Mode: MANUAL
 Rates Cum. Prod.= -2805.6675 STB

Static-Data and Constants

Volume-Factor = 1.000 vol/vol
 Thickness = 123.0 FEET
 Viscosity = 0.4700 CP
 Total Compress = .4440E-05 1/PSI
 Storivity = .8137E-04 FEET/PSI
 Gauge Depth = 7312.0 FEET
 Perf. Depth = 7312.0 FEET
 Datum Depth = N/A FEET
 Analysis-Data ID: GAU001
 Based on Gauge ID: GAU001



WDW-2 Pressure Falloff

slope = 235.1218 PSI/cycle
 extrapolated pressure = 3716.08 PSI
 R(inv) at 27.08 hr = 487. FEET
 R(inv) at 1.422 hr = 112. FEET

prod. time=66.98 hr at rate=-1005.38 STB/D

skin = -4.0915
 permeability = 2.6567 MD
 Perm-Thickness = 326.78 MD-FEET

Product.Index(P*) = 1.452 STB/D/PSI

Static-Data and Constants

Volume-Factor = 1.000 vol/vol
 Thickness = 123.0 FEET
 Viscosity = 0.4700 CP
 Total Compress = .4440E-05 1/PSI
 Rate = -1005. STB/D
 Storivity = .8137E-04 FEET/PSI
 Diffusivity = 2253. FEET²/HR
 Gauge Depth = 7312.0 FEET
 Perf. Depth = 7312.0 FEET
 Datum Depth = N/A FEET
 Analysis-Data ID: GAU001
 Based on Gauge ID: GAU001
 PFA Starts: 2025-07-22 13:57:20
 PFA Ends : 2025-07-31 23:59:59

APPENDIX D. GEOLOGICAL INFORMATION

5. A water sample and corresponding water analysis will be provided once the well is perforated and a water sample can be obtained. The closest off set is the Ashcroft SWD #1 (API# 30-045-30788) located approximately 3/4 miles to the east. The Ashcroft is a SWD well operated by XTO Energy Resources and is completed in the Entrada and Bluff formations. The NMOCD records did not containing any data regarding the In-situ water quality found in the Ashcroft SWD #1 prior to injection.

VIII. Geology

Underground Drinking Water Sources

The known fresh water zones for the immediate area of the injection well are the Nacimiento and Ojo Alamo Formations of the Tertiary Age. The Nacimiento occurs at the surface and is about 570 feet thick in the immediate area. The Ojo Alamo is about 165 feet thick at an approximate depth of 569 to 734 feet.

Most of the water wells in the surrounding area are concentrated along the San Juan River flood plain and terraces north of the river and Bloomfield Terminal. These wells are completed in the Quaternary sand and gravels at depth of approximately 25 to 75 feet. These sand and gravels rest upon the Nacimiento.

One well (POD# SJ 02148) in the SE quarter of Section 27, T29N, R11W was drilled to a depth of 305 feet intersecting a water bearing sand within the Nacimiento at 225 to 285 feet with an estimated yield of 10gpm. The surface elevation is approximately 20 feet above the surface at proposed injection well location. The total depth of the well is at an approximate elevation of 5,250 feet. This is the deepest water well drilled in the study area according to the NM State Engineer's Office online records. The Point of Diversion Summary for the well is included (below).



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

SJ 02148

Q64 Q16 Q4 Sec Tws Rng

2 4 27 29N 11W

X

Y

234448 4065184* 

Driller License: 847

Driller Name: SAVAGE, BOB

Drill Start Date: 10/20/1987

Drill Finish Date: 11/16/1987

Plug Date:

Log File Date: 11/19/1987

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 10 GPM

Casing Size: 7.00

Depth Well: 305 feet

Depth Water: 186 feet

Water Bearing Stratifications:

Top Bottom Description

225 285 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

266 305

*UTM location was derived from PLSS - see Help

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

Injection Zone

The Entrada Sandstone formation is Jurassic in age and is described as a wind blown deposit with fine to coarse-grained sandstone particles, clean and well sorted. Generally, the Entrada Sandstone formation is 200 to 280 ft thick throughout the San Juan Basin. Natural fractures are few to nonexistent. The overlaying formation is the Todilto Limestone. Cores from the oil bearing portion of the Entrada formation indicate high porosities and permeability's with averages ranging from 22 – 26 percent and 150 – 450 millidarcies respectively.

The Bluff Sandstone maybe considered as a future injection zone and is not part of this application.

The geologic prognosis and a cross section showing the regional thickness and log characteristics are included (below).

Waste Disposal Well (WDW) #2

Geologic Prognosis Entrada & Bluff WDW, San Juan County

Header

Well Name & Number: Waste Disposal Well (WDW) #2
 API: Pending Latitude (NAD 83): 36.698499 Objective: Entrada & Bluff FM Water Disposal Longitude (NAD 83): -107.971156 Location: TWP: 29 N - Range: 11 W -
 Sec. 27 Field: Basin County: San Juan
 Surface Location Footage: 1980 FNL, 330 FEL State: New Mexico Lease: GL Elevation:
 Bottom Hole Location Footage: Same as Surface
 5538
 Surface Owner: KB Elevation: 5550
 Type: Proposed TD: 7500 November 25, 2015
 Expiration Date: Proposed Plugback: Geologist: Peter Kondrat Depth:

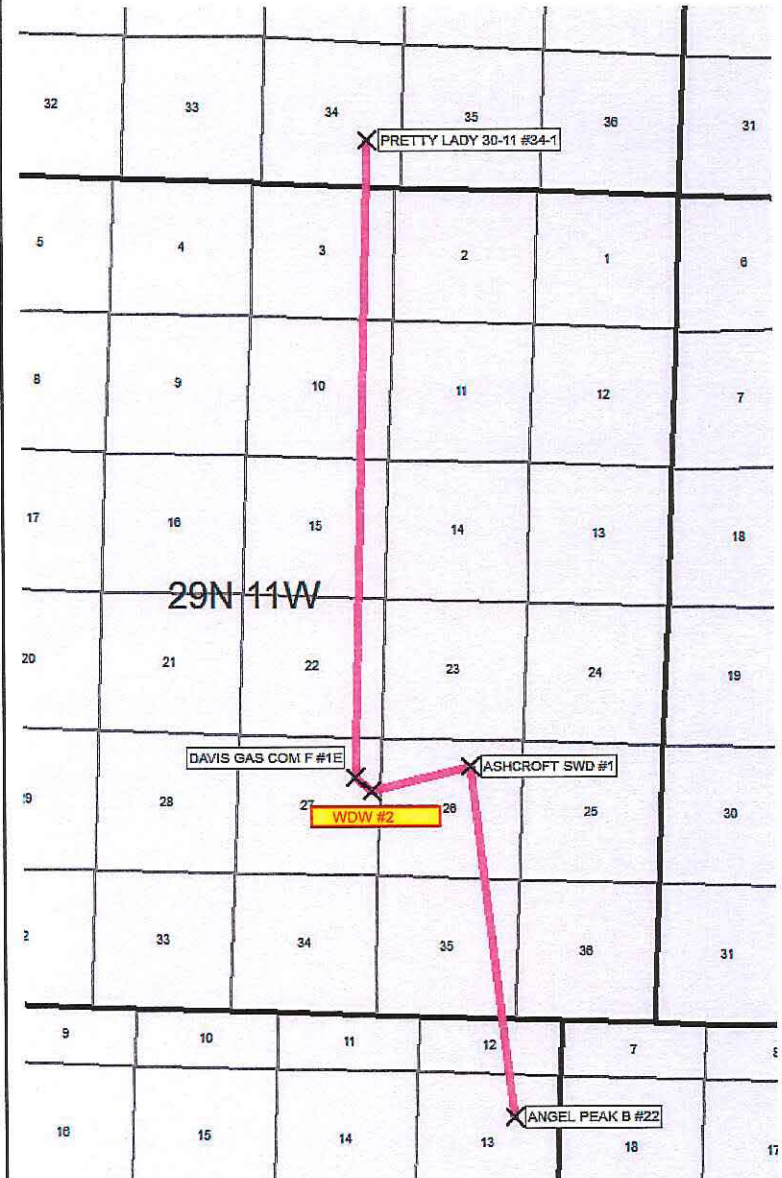
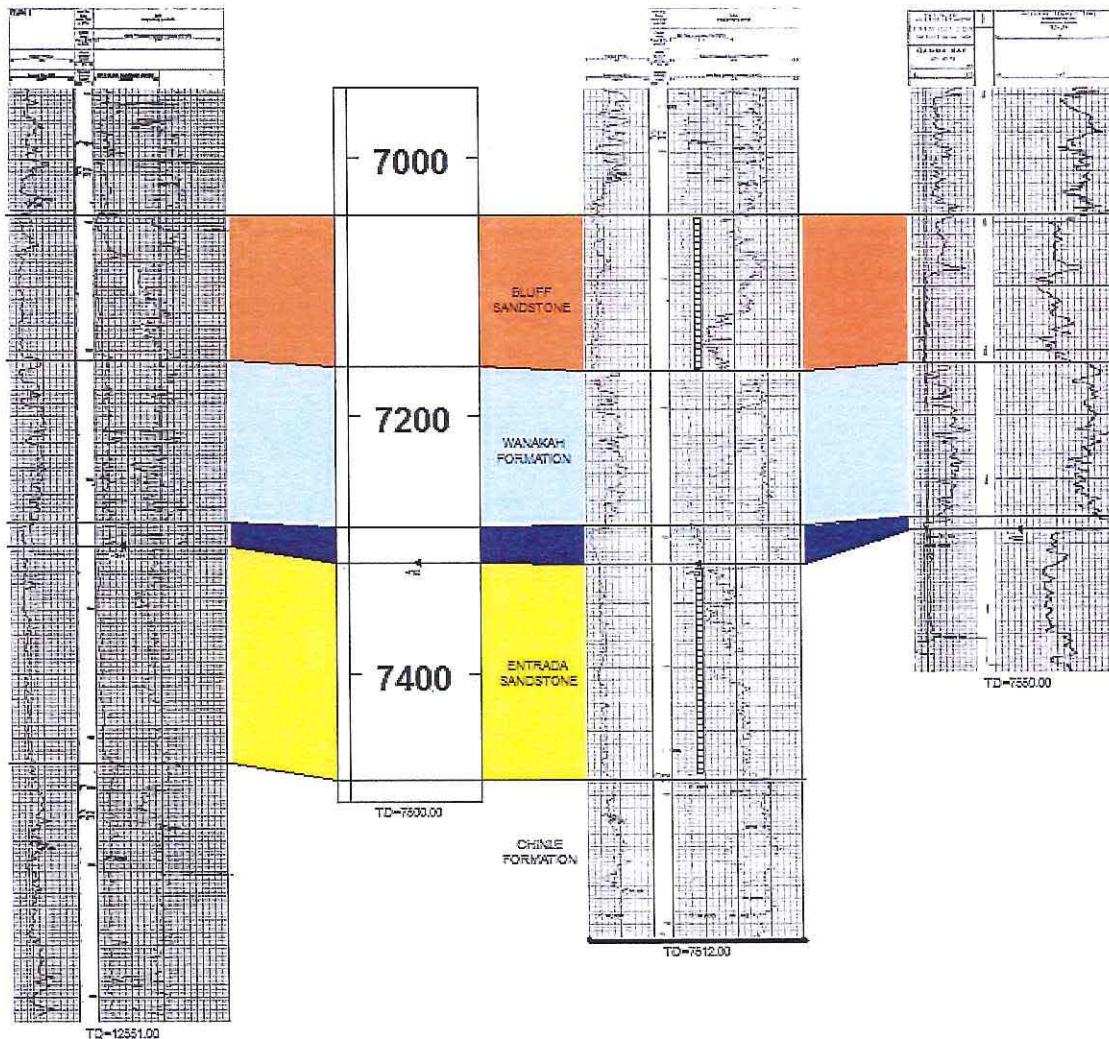
Formation Tops	Top MD (KB)	Top Subsea (KB)	Thickness (FT)	Rock Type	Drilling Notes	Depositional Environment
Quaternary Alluvium	0	5550	10	Unconsolidated Gravels	Boulders, water, lost circulation	Continental Rivers
Nacimiento FM	10	5540	505	Shale & Sandstone	Water, gas	Continental Rivers
Ojo Alamo Sandstone	515	5035	110	Sandstone & Shale	Water, gas	Continental Rivers
Kirtland Shale	625	4925	578	Interbedded Shale, sandstone	Water, gas	Coastal to Alluvial Plain
Fruitland FM	1203	4347	515	Interbedded Shale, sandstone & coal	Coalbed methane	Coastal Plain
Pictured Cliffs Sandstone	1718	3832	162	Sandstone	Gas, water	Regressive Marine Beach
Lewis Shale	1880	3670	760	Shale, thin limestones	Gas	Offshore Marine
Huerfano Bentonite Bed	2660	2890	28	Altered volcanic ash, bentonite bed	Swelling clay	Volcanic Ash Layers
Chacra FM	2688	2862	189	Sandstone, siltstone	Gas, Water	Offshore Marine Sands
Lower Lewis Shale	2877	2673	458	Shale, thin limestones	Gas, Water	Offshore Marine
Cliff House Sandstone	3335	2215	59	Sandstone	Gas, Water, Oil	Transgressive Marine Beach
Menefee Member	3394	2156	643	Interbedded Shale, sandstone & coal	Gas, Water, Oil	Coastal Plain
Point Lookout Sandstone	4037	1513	386	Sandstone	Gas, Water, Oil	Regressive Marine Beach
Mancos Shale	4423	1127	869	Shale, thin sandstones & siltstones	Gas, Water, Oil	Offshore Marine
Niobrara A	5282	258	102	Interbedded Shale, sandstone	Oil, Gas, Water	Offshore Marine Sands
Niobrara B	5394	156	123	Interbedded Shale, sandstone	Oil, Gas, Water	Offshore Marine Sands
Niobrara C	5517	33	82	Interbedded Shale, sandstone	Oil, Gas, Water	Offshore Marine Sands
Gallup FM	5589	-49	243	Interbedded Shale, sandstone	Oil, Gas, Water	Regressive Marine to Coastal Deposit
Juana Lopez FM	5842	-292	123	Shale, thin limestones	Oil, Gas, Water	Offshore Marine
Carlile Shale	5965	-415	95	Shale, thin limestones	Oil, Gas, Water	Offshore Marine
Greenhorn Limestone	6060	-510	56	Limestone	Oil, Gas, Water	Offshore Marine
Graneros Shale	6116	-566	33	Shale	Oil, Gas, Water	Offshore Marine
Dakota FM	6149	-599	216	Sandstone, shale & coals	Oil, Gas, Water	Transgressive Coastal Plain to Marine
Burro Canyon FM	6365	-815	46	Sandstones, some conglomerate & mudstone	Oil, Gas, Water	Braided Fluvial Fill
Morrison FM	6411	-861	635	Mudstones, sandstone	Oil, Gas, Water	Continental Rivers
Bluff Sandstone (aka Junction Creek Sandstone), Morrison FM Member	7046	-1496	118	Sandstone	Oil, Gas, Water	Alluvial Plain and Eolian
Wanakah FM	7164	-1614	123	Siltstone, Sandstone	Oil, Gas, Water	Alluvial Plain and Eolian
Todilto Limestone & Anhydrite	7287	-1737	28	Interbedded Limestone & Anhydrite	Oil, Gas, Water, Anhydrite	Alluvial Plain and Eolian
Entrada Sandstone	7315	-1765	168	Sandstone	Oil, Gas, Water	Eolian Sand Dunes
Chinle FM	7483	-1933	17	Interbedded Shale, sandstone	Oil, Gas, Water	Continental Rivers
Proposed TD	7500	-1950		TD designed for complete log coverage over Entrada Sandstone.		

Notes: Any significant flow rates, abnormal pressures, lost circulation, sticking, fluid loss or gain immediately notify company man, drilling superintendent and/or drilling engineer.

Regional Bluff & Entrada Sandstones Cross-Section



30045309220000 HUNTINGTON ENERGY PRETTY LADY 30-11 34-1 Spud Date=3/23/2002 1760 FSL 1476 FEL TWP: 29 N - Range: 11 W - Sec. 34 Datum=5805.00	24568 ± WESTERN TERMINAL ENTRADA WDW 2 1980 FNL 330 FEL TWP: 29 N - Range: 11 W - Sec. 27 Datum=5553.00	30045307880000 XTO ENERGY INCORPORATED ASHCROFT SWD 1 Spud Date=12/19/2001 SW NW NE TWP: 29 N - Range: 11 W - Sec. 26 Datum=5452.00	13368 ± BURLINGTON RESOURCES O&G CO LP ANGEL PEAK B 22 Spud Date=9/24/1962 SW NE TWP: 28 N - Range: 11 W - Sec. 13 Datum=5820.00 Cum Gas All Zones: 3873029 MCF Cum Oil All Zones: 19022 bbls Cum Water All Zones: 2865 bbls
---	--	---	---



Exclusive

IX. After the well is drilled, cased and perforated an injectivity test will be performed. If the injection rate is less than 6 BPM prior to parting pressure, the well will be stimulated w/ approximately 222,000 lbs of 20/40 white sand in 110,000 gals of 30# cross linked gel at 50 bpm. Note: actual job design (if needed) will be based on actual results of the injectivity test.

X. All open hole and cased hole logs will be filed with NMOCD once the well is drilled and completed.

XII. Available geologic and engineering data has been examined and no evidence of open faults or any other hydrological connection between the disposal zone, the Entrada Formation, and any underground sources of drinking water, the Nacimiento Formation.

XIII. Based on the information available online as well as information from the "Four Corners Geological Society" there are no known faults located in the area of the proposed well. Natural fractures are few to nonexistent in the Entrada formation. The overlaying formation is the relatively impermeable Todilto Limestone. The closest off set is the Ashcroft SWD #1 (API# 30-045-30788) located approximately $\frac{3}{4}$ of mile to the east of the proposed injection well. The Ashcroft SWD #1 is a SWD well operated by XTO Energy and is completed in the Bluff and Entrada formations and has no evidence of water migrating out of the injection zones.

XIII. Public Notice will follow NMOCD review of this application.

APPENDIX E. CLOSURE PLAN

**Western Refinery Southwest Inc.
Bloomfield Terminal
Waste Disposal Well (WDW) #2**

Closure Plan

In accordance with Rule 19.15.25 NMAC the following information describes the possible closure plan which would entail plugging and abandoning the proposed well bore and reclaiming the surface location to pre-drill status. This is Western's standard closure procedure.

All closure activities will include proper documentation and be available for review upon request. All required paperwork (sundry notices) will be submitted to NMOCD for approval prior to any field work taking place. All plug and abandon activities are intended to protect fresh water, public health and the environment.

General Plan

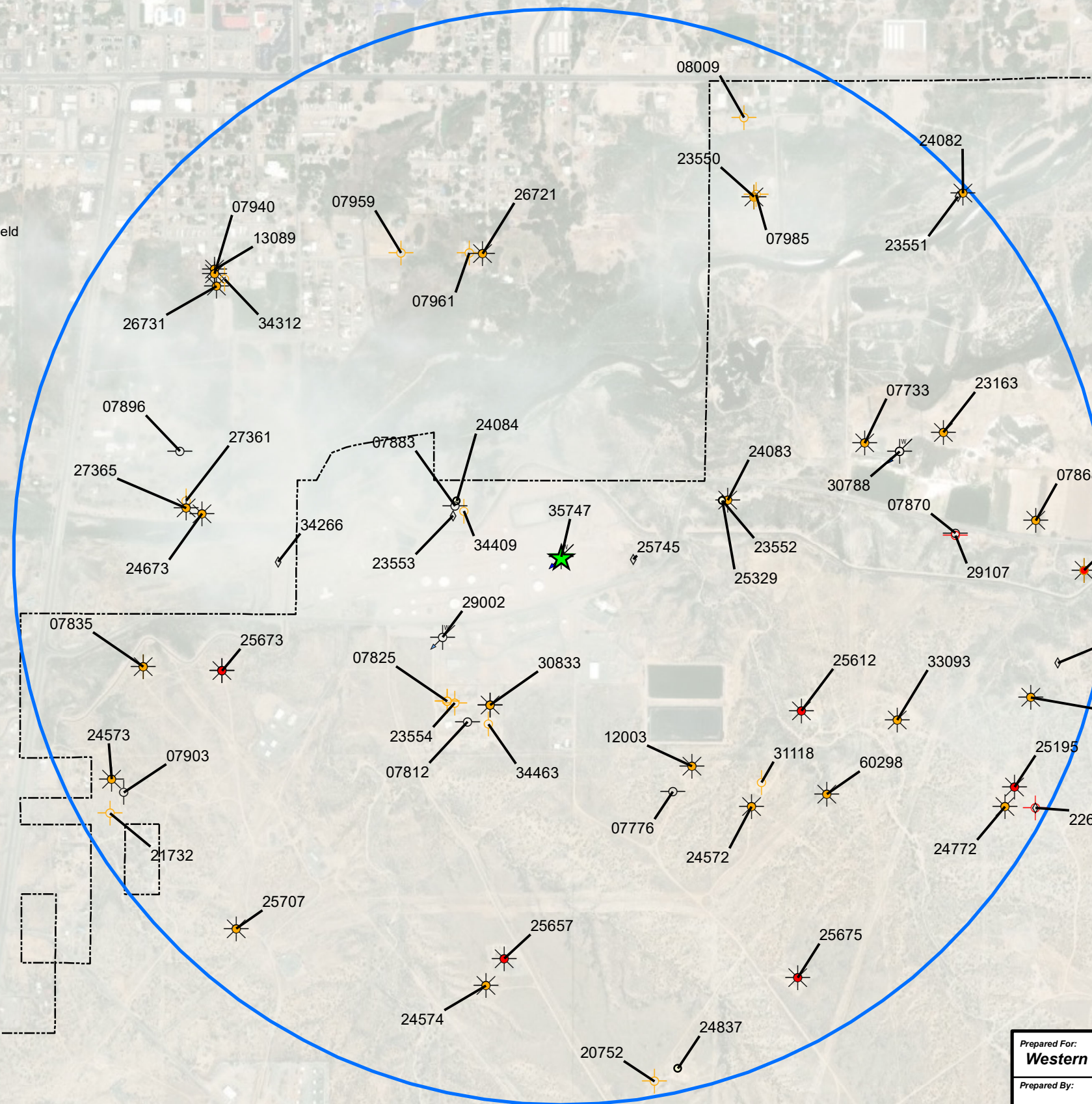
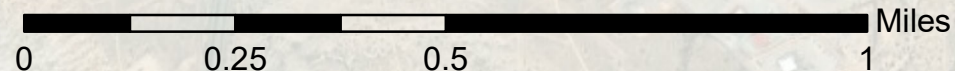
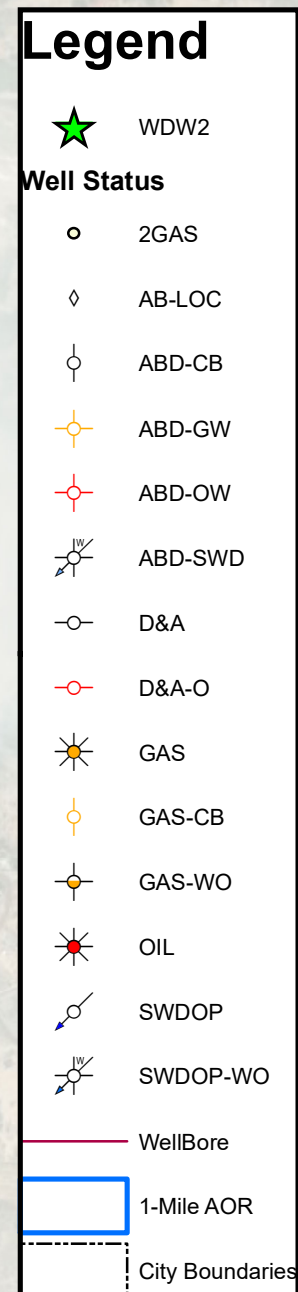
1. Notify NMOCD
2. Note: verify all cement volumes based on actual slurry to be pumped.
3. Review any COA's from NMOCD

Procedure

- 1 Move-in, rig up pulling unit. Pump & pit. Half tank for cement returns.
- 2 Hold safety meeting with rig crew and related personnel explaining the procedure and outlining potential hazards.
- 3 ND WH & NU BOP
- 4 TIH w/ CICR & set at ~ 7265'.
- 5 Load hole and circulate clean with fresh water.
- 6 Load tubing and pressure test tubing to 1000 psi.
- 7 Pull stinger out of CICR enough to load hole w/ water and circulate clean. Test casing to 500 psi.
- 8 Plug #1 (7265'-7483'). Mix & pump 85 sx (100 cf) of Class B neat cement. Sting out of retainer leaving 50' of cement on top of retainer. Note. Cement volumes will be adjusted if alternate but comparable cement is used (based on vendor selection). Volumes estimated using 100% excess.
- 9 Pull up hole.
- 10 Spot plug #2 in a balanced plug. Plug #2 Dakota: (6099'–6199'). Mix & pump 30 sx (35.4 cf) of Class B neat cement. Calculated cement volumes to include extra 50' of cement.

- 11 Pull up hole & WOC. TIH & tag TOC.
- 12 Spot plug #3 in a balanced plug. Plug #3 Gallup (5549'-5649'). Mix & pump 30 sx (35.4 cf) of Class B neat cement. Calculated cement volumes to include extra 50' of cement.
- 13 Pull up hole & WOC. TIH & tag TOC.
- 14 Spot plug #4 in a balanced plug. Plug #4 Mesaverde (3285'-4087'). Mix & pump 150 sx (177 cf) of Class B neat cement. Calculated cement volumes to include extra 50' of cement.
- 15 Pull up hole & WOC. TIH & tag TOC.
- 16 Spot plug #5 in a balanced plug. Plug #5 Chacra (2638'-2738'). Mix & pump 30 sx (35.4 cf) of Class B neat cement. Calculated cement volumes to include extra 50' of cement.
- 17 Pull up hole & WOC. TIH & tag TOC.
- 18 Spot plug #6 in a balanced plug. Plug #6 Pictured Cliffs (1668'-1768'). Mix & pump 30 sx (35.4 cf) of Class B neat cement. Calculated cement volumes to include extra 50' of cement.
- 19 Pull up hole & WOC. TIH & tag TOC.
- 20 Spot plug #7 in a balanced plug. Plug #7 Fruitland (1153'-11253'). Mix & pump 30 sx (35.4 cf) of Class B neat cement. Calculated cement volumes to include extra 50' of cement.
- 21 Pull up hole & WOC. TIH & tag TOC.
- 22 Spot plug #8 in a balanced plug. Plug #8 Surface Plug (350'-surface). Mix & pump 66 sx (77.9 cf) of Class B neat cement.
- 23 Fill up inside of casing w/ additional cement as needed to top off.
- 24 ND BOP & cut off well head.
- 25 Install P&A marker and cut off anchors.
- 26 RD & release rig and related equipment.
- 27 Remove all surface/production equipment.
- 28 Re-contour and re-claim surface/location as per NMOCD approved Reclamation plan.

APPENDIX F. WELLS WITHIN THE VICINITY OF WDW-2



Prepared For: Western Refining Southwest LLC		Description: 1-Mile Area of Review	
Prepared By:  900 N Tyler, Wichita, KS 67212 Phone 316-260-2460 Fax 316-260-2433 STRATALLC.COM			
Drawn By: JL	Scale : 1:14,440	Sheet: 11 X 17	Job No. MPC.FNM.25.01
Checked By: TG	Date: 09/04/2024		

ID	UWI	API UNIQUE	WELL NUMBER	LEASE	TD	TD FORMATION	FINAL STATUS	OPERATOR	FIELD	WELL NAME	CURRENT OPERATOR	PLAY NAME	LATITUDE	LONGITUDE	Distance (ft)	Penetrates Inj. Zone
1	30045357470001	35747	2	WASTE DISPOSAL WELL	7532	503CHNL	SWDOP-WO	WESTERN REFINING SOUTHWEST INC	SWD	002 WASTE DISPOSAL WELL	WESTERN REFINING SOUTHWEST INC	N/A - SALT WATER DISPOSAL	36.698609	-107.970351	0	Yes
2	30045257450000	25745	1	DAVIS AUSTIN A	0		AB-LOC	AMOCO PRODUCTION CO	UNNAMED	1 DAVIS AUSTIN A	AMOCO PRODUCTION CO	MISC SAN JUAN BASIN	36.698550	-107.967984	694	No
3	30045344090000	34409	2	JACQUE	1897	604PCCF	GAS-CB	HOLCOMB OIL & GAS INC	BASIN	2 JACQUE	HOLCOMB OIL & GAS INC	SAN JUAN TIGHT GAS	36.699821	-107.973565	1040	No
4	30045235530000	23553	1	DAVIS GAS COM-H	0		AB-LOC	AMOCO PRODUCTION CO		1 DAVIS GAS COM-H	AMOCO PRODUCTION CO	MISC SAN JUAN BASIN	36.699692	-107.973914	1116	No
5	30045078830000	7883	2	DAVIS P U	1804	604PCCF	D&A	UMBARGER	FULCHER KUTZ	2 DAVIS P U	UMBARGER	MISC SAN JUAN BASIN	36.699951	-107.973846	1135	No
6	30045240840000	24084	1-E	DAVIS GAS COM-F	6386	602DKOT	2GAS	AMOCO PRODUCTION CO	BASIN	1-E DAVIS GAS COM-F	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.700081	-107.973788	1141	No
7	30045290020000	29002	1	DISPOSAL	3601	604MENF	ABD-SWD	BLOOMFIELD REFINING CO	BLANCO	1 DISPOSAL	SAN JUAN REFINING CO	N/A - SALT WATER DISPOSAL	36.696483	-107.974249	1380	No
8	30045308330001	30833	1R	DAVIS GAS COM F	6700	553MRSN	GAS-WO	XTO ENERGY INC	ARMENTA	1R DAVIS GAS COM F	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.694687	-107.972690	1584	No
9	30045253290000	25329	1	DAVIS GAS COM-J	4331	604MVRD	2GAS	AMOCO PRODUCTION CO	BLANCO	1 DAVIS GAS COM-J	HOLCOMB OIL & GAS INC	MISC SAN JUAN BASIN	36.700107	-107.965060	1644	No
10	30045235520000	23552	1	DAVIS GAS COM-I	0		AB-LOC	AMOCO PRODUCTION CO		1 DAVIS GAS COM-I	AMOCO PRODUCTION CO	MISC SAN JUAN BASIN	36.700105	-107.965058	1645	No
11	30045240830000	24083	1-E	SULLIVAN GAS COM-D	6329	602DKOT	GAS	AMOCO PRODUCTION CO	BASIN	1-E SULLIVAN GAS COM-D	HILCORP ENERGY CO	SAN JUAN TIGHT GAS	36.700120	-107.964889	1693	No
12	30045235540000	23554	1	DAVIS GAS COM-G	2951	604CHCR	ABD-GW	AMOCO PRODUCTION CO	BLOOMFIELD	1 DAVIS GAS COM-G	XTO ENERGY INC	MISC SAN JUAN BASIN	36.694736	-107.973849	1744	No
13	30045344630000	34463	1	JACQUE	1890	604PCCF	GAS-CB	HOLCOMB OIL & GAS INC	BASIN	1 JACQUE	HOLCOMB OIL & GAS INC	SAN JUAN TIGHT GAS	36.694179	-107.972739	1758	No
14	30045078250001	7825	1	DAVIS GAS COM F	6365	602DKOT	ABD-GW	PAN AMERICAN PETROLEUM CORP	BASIN	1 DAVIS GAS COM F	BP AMERICA PRODUCTION CO	MISC SAN JUAN BASIN	36.694788	-107.974101	1773	No
15	30045078120000	7812	1	DAVIS POOLED	1804	604PCCF	D&A	UMBARGER	FULCHER KUTZ	1 DAVIS POOLED	UMBARGER	MISC SAN JUAN BASIN	36.694243	-107.973421	1826	No
16	30045120030000	12003	1	CALVIN	6450	602DKOT	GAS	SOUTHERN UNION PRODUCTION CO	BASIN	1 CALVIN	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.693075	-107.966050	2377	No
17	30045077760000	7776	1	DAVIS	1870	604PCCF	D&A	BIG CHIEF WESTERN	FULCHER KUTZ	1 DAVIS	BIG CHIEF WESTERN	MISC SAN JUAN BASIN	36.692403	-107.966681	2502	No
18	30045342660000	34266	1S	MANGUM	0		AB-LOC	HOLCOMB OIL & GAS INC	BASIN	1S MANGUM	HOLCOMB OIL & GAS INC	FRUITLAND CBM	36.698471	-107.979657	2729	No
19	30045256120000	25612	3	CALVIN	5970	603GLLP	OIL	UNION TEXAS PETROLEUM CORP	ARMENTA	3 CALVIN	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.694538	-107.962448	2750	No
20	30045311180000	31118	100	CALVIN	1970	604PCCF	GAS-CB	BURLINGTON RESOURCES O&G CO LP	BASIN	100 CALVIN	HILCORP ENERGY CO	SAN JUAN TIGHT GAS	36.692650	-107.963766	2904	No
21	30045267210000	26721	2	NANCY HARTMAN	2830	604CHCR	GAS	MANANA GAS INC	OTERO	2 NANCY HARTMAN	MANANA GAS INC	MISC SAN JUAN BASIN	36.706624	-107.972955	3016	No
22	30045245720000	24572	9	CONGRESS	2962	604CHCR	GAS	SUPRON ENERGY CORP	BLOOMFIELD	9 CONGRESS	MORNINGSTAR OPERATING LLC	SAN JUAN TIGHT GAS	36.692005	-107.964087	3025	No
23	30045079610000	7961	1	HARTMAN-BLOOMFIELD	6309	602DKOT	ABD-GW	KIMBELL KAY	BASIN	1 HARTMAN-BLOOMFIELD	MANANA GAS INC	SAN JUAN TIGHT GAS	36.706653	-107.973390	3061	No
24	30045077330000	7733	1	SULLIVAN GAS UNIT-D	6260	602DKOT	GAS	PAN AMERICAN	BASIN	1 SULLIVAN GAS UNIT-D	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.701626	-107.960390	3120	No

ID	UWI	API UNIQUE	WELL NUMBER	LEASE	TD	TD FORMATION	FINAL STATUS	OPERATOR	FIELD	WELL NAME	CURRENT OPERATOR	PLAY NAME	LATITUDE	LONGITUDE	Distance (ft)	Penetrates Inj. Zone
25	30045079590000	7959	1	GRACE PEARCE	1620	604FRLD	ABD-GW	ELVIS L ROBERTS	AZTEC	1 GRACE PEARCE	PICKETT JOHN C	SAN JUAN TIGHT GAS	36.706649	-107.975642	3313	No
26	30045307880000	30788	1	ASHCROFT SWD	7512	553ENRD	SWDOP	XTO ENERGY INC	SWD	001 ASHCROFT SWD	HILCORP ENERGY CO	N/A - SALT WATER DISPOSAL	36.701409	-107.959242	3413	Yes
27	30045602980000	60298	1	SULLIVANGASNI TD	6260	602DKOT	GAS	PAN AMERICAN	BASIN	1 SULLIVANGASNI TD	PAN AMERICAN	MISC SAN JUAN BASIN	36.692339	-107.961613	3431	No
28	30045256730001	25673	18	CONGRESS	6150	603GLLP	GAS-WO	BURLINGTON RESOURCES O&G CO LP	FULCHER KUTZ	18 CONGRESS	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.695579	-107.981506	3451	No
29	30045246730000	24673	1-E	MANGUM	6240	602DKOT	GAS	SUPRON ENERGY CORP	BASIN	1-E MANGUM	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.699743	-107.982162	3487	No
30	30045330930000	33093	1F	CALVIN	6525	602DKOT	GAS	BURLINGTON RESOURCES O&G CO LP	BASIN	1F CALVIN	HILCORP ENERGY CO	SAN JUAN TIGHT GAS	36.694303	-107.959307	3597	No
31	30045273650000	27365	1	MARIAN S	2840	604CHCR	GAS	MANANA GAS INC	OTERO	1 MARIAN S	MANANA GAS INC	MISC SAN JUAN BASIN	36.699886	-107.982682	3645	No
32	30045273610000	27361	1	LAUREN KELLY	1500	604PCCF	GAS-CB	MANANA GAS INC	BASIN	1 LAUREN KELLY	MANANA GAS INC	SAN JUAN TIGHT GAS	36.700078	-107.982681	3654	No
33	30045291070000	29107	1X	SULLIVAN	858	604FMNG	D&A-O	BASIN NATURAL GAS CO	AZTEC	1X SULLIVAN	BASIN NATURAL GAS CO	MISC SAN JUAN BASIN	36.699182	-107.957398	3803	No
34	30045078700000	7870	1	SULLIVAN	1442	604FRLD	D&A	BASIN NATURAL GAS CO	FULCHER KUTZ	1 SULLIVAN	BASIN NATURAL GAS CO	MISC SAN JUAN BASIN	36.699248	-107.957398	3804	No
35	30045078960000	7896	1	BLACK DIAMOND	800	604KRLD	D&A	BLACK DIAMOND OIL INC	FULCHER KUTZ	1 BLACK DIAMOND	BLACK DIAMOND OIL INC	FRUITLAND CBM	36.701391	-107.982888	3812	No
36	30045231630000	23163	1	EARL B SULLIVAN	2861	604CHCR	GAS	AMOCO PRODUCTION CO	BLOOMFIELD	1 EARL B SULLIVAN	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.701920	-107.957794	3873	No
37	30045256570000	25657	16	CONGRESS	6200	603GLLP	OIL	UNION TEXAS PETROLEUM CORP	ARMENTA	16 CONGRESS	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.687977	-107.972209	3909	No
38	30045235500000	23550	1	STATE GAS COM-BS	2954	604CHCR	GAS	AMOCO PRODUCTION CO	BLOOMFIELD	1 STATE GAS COM-BS	HOLCOMB OIL & GAS INC	MISC SAN JUAN BASIN	36.708147	-107.964039	3935	No
39	30045079850000	7985	1	PEARCE GAS UNIT	6274	602DKOT	ABD-GW	PAN AMERICAN PETROLEUM CORP	BASIN	1 PEARCE GAS UNIT	BP AMERICA PRODUCTION CO	SAN JUAN TIGHT GAS	36.708204	-107.963968	3963	No
40	30045078350001	7835	1	MANGUM	6350	602DKOT	GAS-CB	BURLINGTON RESOURCES O&G CO LP	BASIN	1 MANGUM	HOLCOMB OIL & GAS INC	SAN JUAN TIGHT GAS	36.695682	-107.984084	4165	No
41	30045245740000	24574	9	SUMMIT	2992	604CHCR	GAS	SUPRON ENERGY CORP	BLOOMFIELD	9 SUMMIT	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.687261	-107.972806	4194	No
42	30045343120000	34312	1	ROYAL FLUSH	1810	604PCCF	GAS-CB	MANANA GAS INC	BASIN	1 ROYAL FLUSH	MANANA GAS INC	SAN JUAN TIGHT GAS	36.705950	-107.981439	4208	No
43	30045267310000	26731	1	MARY JANE	2850	604CHCR	GAS	MANANA GAS INC	OTERO	1 MARY JANE	MANANA GAS INC	MISC SAN JUAN BASIN	36.705757	-107.981695	4223	No
44	30045079400000	7940	1	COOK-BLOOMFIELD	6314	553MRSN	GAS	KIMBELL KAY	BASIN	1 COOK-BLOOMFIELD	MANANA GAS INC	SAN JUAN TIGHT GAS	36.706090	-107.981763	4314	No
45	30045130890000	13089	2	COOK-BLOOMFIELD	1445	604FMNG	GAS	KIMBELL KAY	AZTEC	2 COOK-BLOOMFIELD	MANANA GAS INC	SAN JUAN TIGHT GAS	36.706199	-107.981764	4339	No
46	30045080090000	8009	1	PAN AMERICAN STATE	1523	604FRLD	ABD-GW	COOK ROY L	AZTEC	1 PAN AMERICAN STATE	BP AMERICA PRODUCTION CO	SAN JUAN TIGHT GAS	36.710238	-107.964361	4583	No

ID	UWI	API UNIQUE	WELL NUMBER	LEASE	TD	TD FORMATION	FINAL STATUS	OPERATOR	FIELD	WELL NAME	CURRENT OPERATOR	PLAY NAME	LATITUDE	LONGITUDE	Distance (ft)	Penetrates Inj. Zone
47	30045078680000	7868	2	SULLIVAN	1478	604FRLD	GAS	BASIN NATURAL GAS CO	AZTEC	2 SULLIVAN	HOLCOMB OIL & GAS INC	SAN JUAN TIGHT GAS	36.699587	-107.954753	4586	No
48	30045256750000	25675	15	CONGRESS	6030	603GLLP	OIL	UNION TEXAS PETROLEUM CORP	ARMENTA	15 CONGRESS	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.687485	-107.962566	4649	No
49	30045214570000	21457	10	DELO	2908	604CHCR	GAS	GALLOWAY W M	OTERO	10 DELO	MORNINGSTAR OPERATING LLC	MISC SAN JUAN BASIN	36.694898	-107.954917	4722	No
50	30045257070000	25707	15	SUMMIT	6216	603GLLP	GAS	UNION TEXAS PETROLEUM CORP	ARMENTA	15 SUMMIT	MORNINGSTAR OPERATING LLC	MISC SAN JUAN BASIN	36.688753	-107.981027	4761	No
51	30045079030000	7903	1-B	GARLAND	1747	604PCCF	ABD-CB	CONGRESS OIL CO	FULCHER KUTZ	1-B GARLAND	SOUTHERN UNION PRODUCTION CO	SAN JUAN TIGHT GAS	36.692354	-107.984726	4790	No
52	30045245730000	24573	3	GARLAND	2905	604CHCR	GAS	SUPRON ENERGY CORP	BLOOMFIELD	3 GARLAND	MORNINGSTAR OPERATING LLC	SAN JUAN TIGHT GAS	36.692708	-107.985118	4833	No
53	30045257380000	25738	23	CONGRESS	0		AB-LOC	UNION TEXAS PETROLEUM CORP	OTERO	023 CONGRESS	UNION TEXAS PETROLEUM CORP	MISC SAN JUAN BASIN	36.695818	-107.954021	4894	No
54	30045251950000	25195	2	CALVIN	5950	603GLLP	OIL	SUPRON ENERGY CORP	BASIN	2 CALVIN	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.692537	-107.955444	4897	No
55	30045247720000	24772	1-E	CALVIN	6502	602DKOT	GAS	SUPRON ENERGY CORP	BASIN	1-E CALVIN	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.692015	-107.955753	4907	No
56	30045217320000	21732	1R	GARLAND	1800	604LWIS	ABD-GW	SOUTHERN UNION PRODUCTION CO	FULCHER KUTZ	1R GARLAND	BURLINGTON RESOURCES O&G CO LP	SAN JUAN TIGHT GAS	36.691802	-107.985171	5002	No
57	30045256210000	25621	2	SULLIVAN EARL B	5760	603GLLP	OIL	AMOCO PRODUCTION CO	ARMENTA	2 SULLIVAN EARL B	HOLCOMB OIL & GAS INC	MISC SAN JUAN BASIN	36.698279	-107.953172	5038	No
58	30045248370000	24837	4-E	CONGRESS	6508	602DKOT	2GAS	SUPRON ENERGY CORP	BASIN	4-E CONGRESS	HILCORP ENERGY CO	MISC SAN JUAN BASIN	36.685070	-107.966501	5056	No
59	30045207520000	20752	1	LEA ANN	1900	604PCCF	ABD-GW	CHAPARRAL OIL & GAS CO	KUTZ	1 LEA ANN	CHAPARRAL OIL & GAS CO	SAN JUAN TIGHT GAS	36.684726	-107.967269	5134	No
60	30045235510000	23551	1	SULLIVAN GAS COM-B	0		AB-LOC	AMOCO PRODUCTION CO	BLOOMFIELD	1 SULLIVAN GAS COM-B	AMOCO PRODUCTION CO	MISC SAN JUAN BASIN	36.708152	-107.957324	5163	No
61	30045226390000	22639	11	DELO	1945	604PCCF	ABD-OW	GALLAWAY W M	BLOOMFIELD	11 DELO	GENERAL MINERALS CORP	SAN JUAN TIGHT GAS	36.691989	-107.954765	5166	No
62	30045240820000	24082	1-E	PEARCE GAS COM	6365	602DKOT	GAS	AMOCO PRODUCTION CO	BASIN	1-E PEARCE GAS COM	HILCORP ENERGY CO	SAN JUAN TIGHT GAS	36.708246	-107.957167	5220	No

APPENDIX G. SUMMARY OF 2025 WELL OPERATION DATA FOR WDW-2

Western Refining Southwest LLC
Bloomfield Terminal
Summary

Period 2025	Amount of Water From River (Barrels)	Amount From WWTP (Barrels)	Totalizer Amount Injected (Barrels)	*Cumulative Total Injected (Barrels)	Down-time (hrs)	Injection Pressure			Annular Pressure			On-Line Flowrates		
						Max (PSIG)	Min (PSIG)	Avg (PSIG)	Max (PSIG)	Min (PSIG)	Avg (PSIG)	Max (GPM)	Min (GPM)	Avg (GPM)
JAN	0	18,690	0	236,418	744.0	497	486	491	-1	-1	-1	0	-	0
FEB	0	13,310	230	236,648	691.0	936	483	475	0	-1	-1	29	27	28
MAR	0	15,738	0	236,648	744.0	484	474	478	2	-1	0	0	-	0
Quarterly Averages and Totals	0	47,738	230		2,179.0	639	481	481	0	-1	-1	10	27	9
APR	0	25,429	0	236,647	720.0	475	469	471	4	-1	1	0	-	0
MAY	0	33,357	83	236,730	742.0	776	465	470	23	-	2	27	24	26
JUN	0	29,429	0	236,730	720.0	466	460	463	8	2	5	0	-	0
Quarterly Averages and Totals	0	88,214	83		2,182.0	572	465	468	12	1	3	9	24	9
JUL	0	30,929	3,273	239,848	674.5	1231	-6	554	573	-8	6	35	23	30
AUG	0	31,381	0	239,848	744.0	560	-8	495	33	7	25	0	-	0
SEP	0	38,381	0	239,848	720.0	487	471	478	36	32	35	0	-	0
Quarterly Averages and Totals	0	100,690	3,273		2,138.5	759	152	509	214	10	22	12	23	10
OCT	0	30,524	257	240,105	735.0	794	468	497	41	-8	21	22	19	20
NOV	0	11,500	0	202,440	721.0	468	459	463	43	41	42	0	-	0
DEC	0	10,643	0	240,105	744.0	460	454	457	42	39	41	0	-	0
Quarterly Averages and Totals	0	52,667	257		2,200.0	574	460	472	42	24	35	7	19	7
Yearly Averages and Totals	0	289,310	3,844		8699.5	636.17	389.58	482.76	67.00	9.18	14.68	9.39	23.21	8.68

Total Volume
Injected: 3,844 Barrels

* Cumulative total at the end of each month. Additional detail is found in Attachment D Well Operational Log of the Quarterly Report.