



September 9, 2026

Attn: Mr. John Gizicki

UIC Program Director

RE: Application for UIC Permit, Authorization to Drill a Class II Injection well, & Aquifer Exemption Application

Location of proposed Disposal Well & Facility: Bitterroot #1 SWD

SESE Sec 21 T26N R56E Richland County, MT

Dear Mr. Gizicki,

Continental Resources, Inc. LLC (Continental) respectfully requests approval of an Underground Injection Control (UIC) permit for the referenced location and as described in the attached application. Continental has provided notice to the appropriate parties within ¼ mile area of review of the proposed well location and requests that the application be placed on the docket for the MBOGC hearing scheduled October 15, 2026.

If you have any questions concerning the enclosed application, please do not hesitate to reach out.

Sincerely,

A handwritten signature in blue ink that reads "Kathryn Liska".

Kathryn Liska

Sr. Staff Engineer – Bakken

Continental Resources, Inc.

918.640.4431

A handwritten signature in blue ink that appears to read "John Argo".

John Argo

Vice President, Williston Basin

Continental Resources, Inc.

BITTERROOT #1 APPLICATION OVERVIEW

Bitterroot #1 SWD

Sec 21 T26N R56E

Richland County, MT

Continental Resources, Inc. (CLR) requests approval for an Underground Injection Control (UIC) permit for the referenced location as described in the attached application. CLR has provided notice to the appropriate parties within ¼ mile area of review of the proposed well location and requests the application be placed on the docket for the MBOGC hearing scheduled for October 15th, 2026.

Application Documents:

- 1a. Location of the input well
- 1b. Location of oil & gas wells within the ¼ mile AOR
- 1c. Location of all pipelines to be used to transport fluids to the input well for injection
 - Facility diagram
- 1d. Information for wells in the ¼ mile AOR including deepest potential underground drinking water
 - Identification of all fresh water wells within the ½ mile AOR
 - Identification of all producing wells within the ¼ mile AOR
- 1e. Injection interval information
 - Including water analysis for injectate
- 1f. Producing formation tops for input well and all wells within ¼ mile AOR
 - Including representative log
- 1g. Electric logs of the input well or wells within ¼ mile AOR not previously submitted
- 1h. Description of the input well casing and cementing program
 - Proposed wellbore diagram (WBD)
 - Directional plan
- 1i. Description of the injected fluids, source, volume, and pressure
- 1j. Name and address of the leasehold and surface owners within the ¼ mile AOR

Additional Documents:

- Proposed completion procedure
- Copy of public notice
- Copy of surface owner and leasehold notice notification
- Drilling permit (APD)

Submit In Quadruplicate To:

**MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102**

SUNDRY NOTICES AND REPORT OF WELLS

Operator Continental Resources, Inc		Lease Name: Bitterroot	
Address 20 N Broadway		Type (Private/State/Federal/Tribal/Allotted): Private	
City OKC	State OK	Zip Code 73102	Well Number: #1 SWD
Telephone 405-234-9000		Fax	Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): 682' FSL & 568' FEL SESE S21, T26N, R56E		Field Name or Wildcat: Wildcat Richland	
API Number: 25 State County Well		Well Type (oil, gas, injection, other): Injection	Township, Range, and Section: 26N, 56E, 21
		County: Richland	
Indicate below with an X the nature of this notice, report, or other data:			
Notice of Intention to Change Plans ☐		Subsequent Report of Mechanical Integrity Test ☐	
Notice of Intention to Run Mechanical Integrity Test ☐		Subsequent Report of Stimulation or Treatment ☐	
Notice of Intention to Stimulate or to Chemically Treat ☐		Subsequent Report of Perforation or Cementing ☐	
Notice of Intention to Perforate or to Cement ☐		Subsequent Report of Well Abandonment ☐	
Notice of Intention to Abandon Well ☐		Subsequent Report of Pulled or Altered Casing ☐	
Notice of Intention to Pull or Alter Casing ☐		Subsequent Report of Drilling Waste Disposal ☐	
Notice of Intention to Change Well Status ☐		Subsequent Report of Production Waste Disposal ☐	
Supplemental Well History ☐		Subsequent Report of Change in Well Status ☐	
Other (specify) <u>Intent to Drill & Complete a Class II</u> ☒		Subsequent Report of Gas Analysis (ARM 36.22.1222) ☐	
Injection Well ☐			

Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Continental Resources, Inc respectfully requests approval to drill and complete a Class II Injection Well at the referenced location. Notice has been provided to parties within the 1/4 mile area of review of the proposed location. An application for hearing on the Montana Board of Oil and Gas Conservation docket has been requested for October 15, 2026.

Continental Resources, Inc. request variance to not run open hole logs on the subject well.

BOARD USE ONLY

Approved _____
Date

Name

Title

The undersigned hereby certifies that the information contained on this application is true and correct:

9/8/2026

Date

Signed (Agent)

Katelyn Clark, Regulatory Compliance Specialist

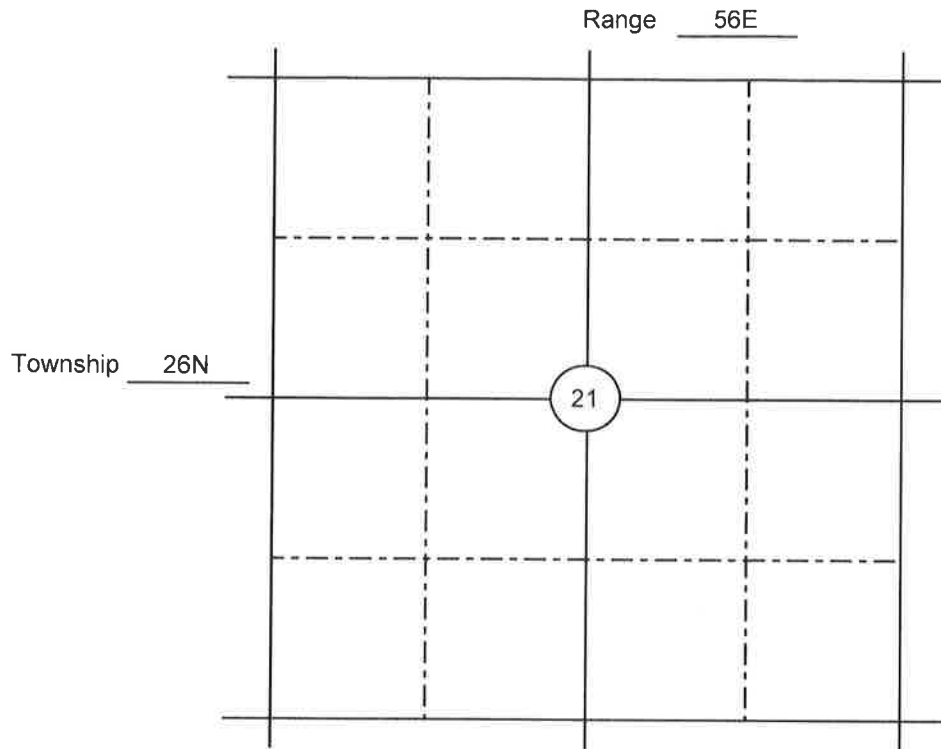
Print Name and Title

Telephone: 405-234-9304

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

BITTERROOT #1 SWD LOCATION

Surface Location

682' FSL 568' FEL

SESE Sec 21 T26N R56E

Latitude: 47.985298° Longitude: -104.485066°

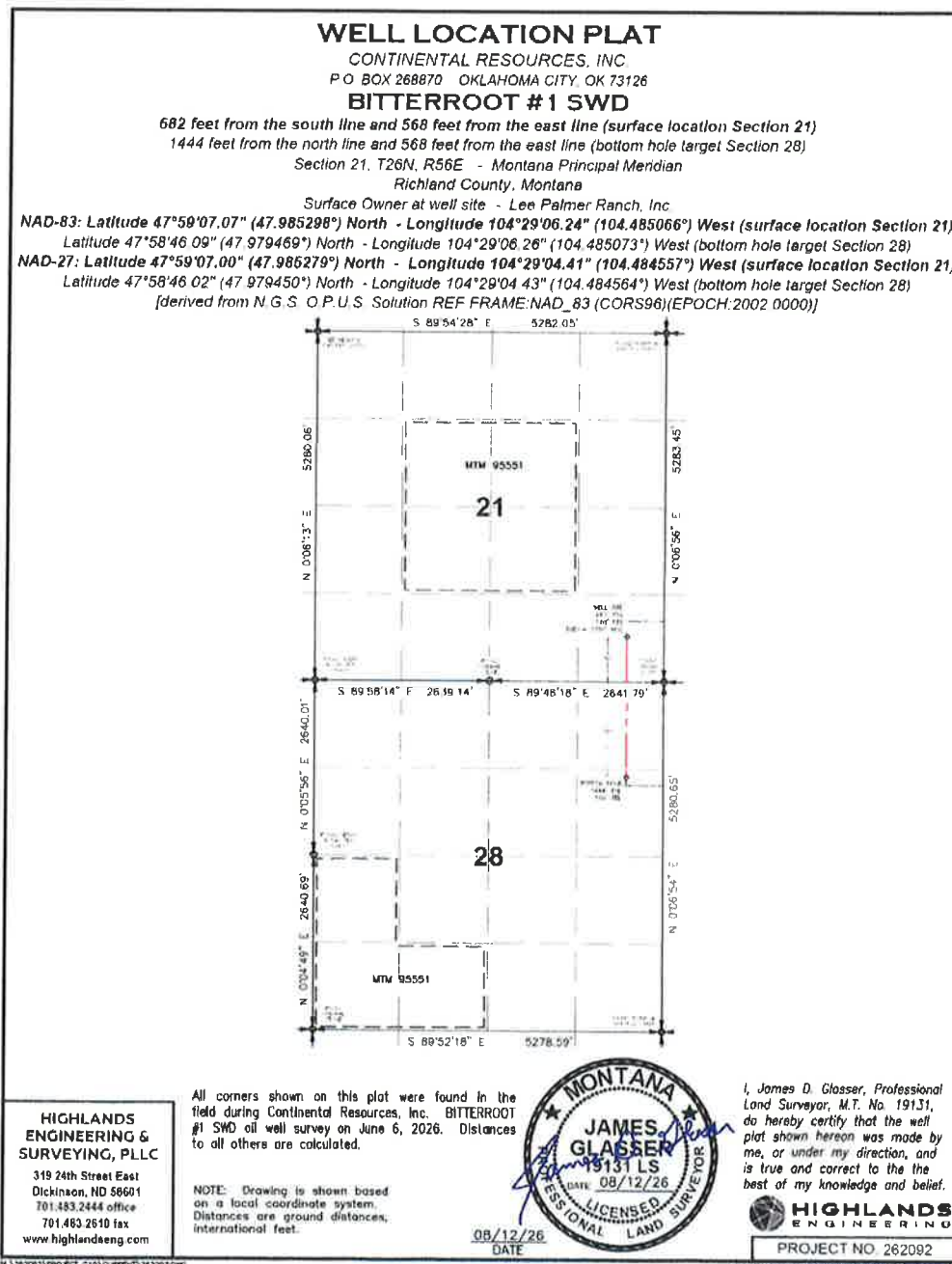
Bottom Hole Target

1,444' FNL 568' FEL

NENE Sec 28 T26N R56E

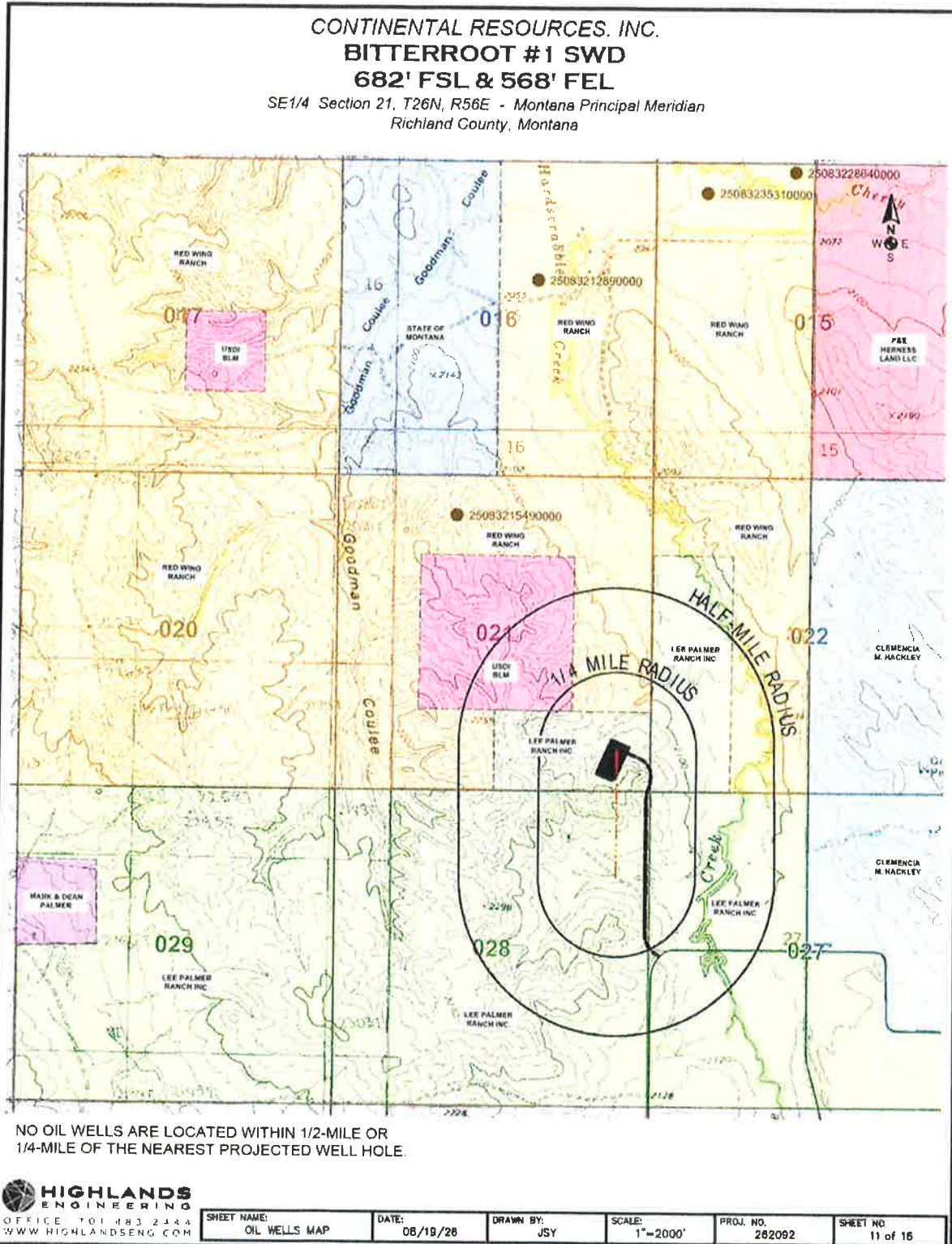
Latitude: 47.979469° Longitude: -104.485073°

Richland County, Montana



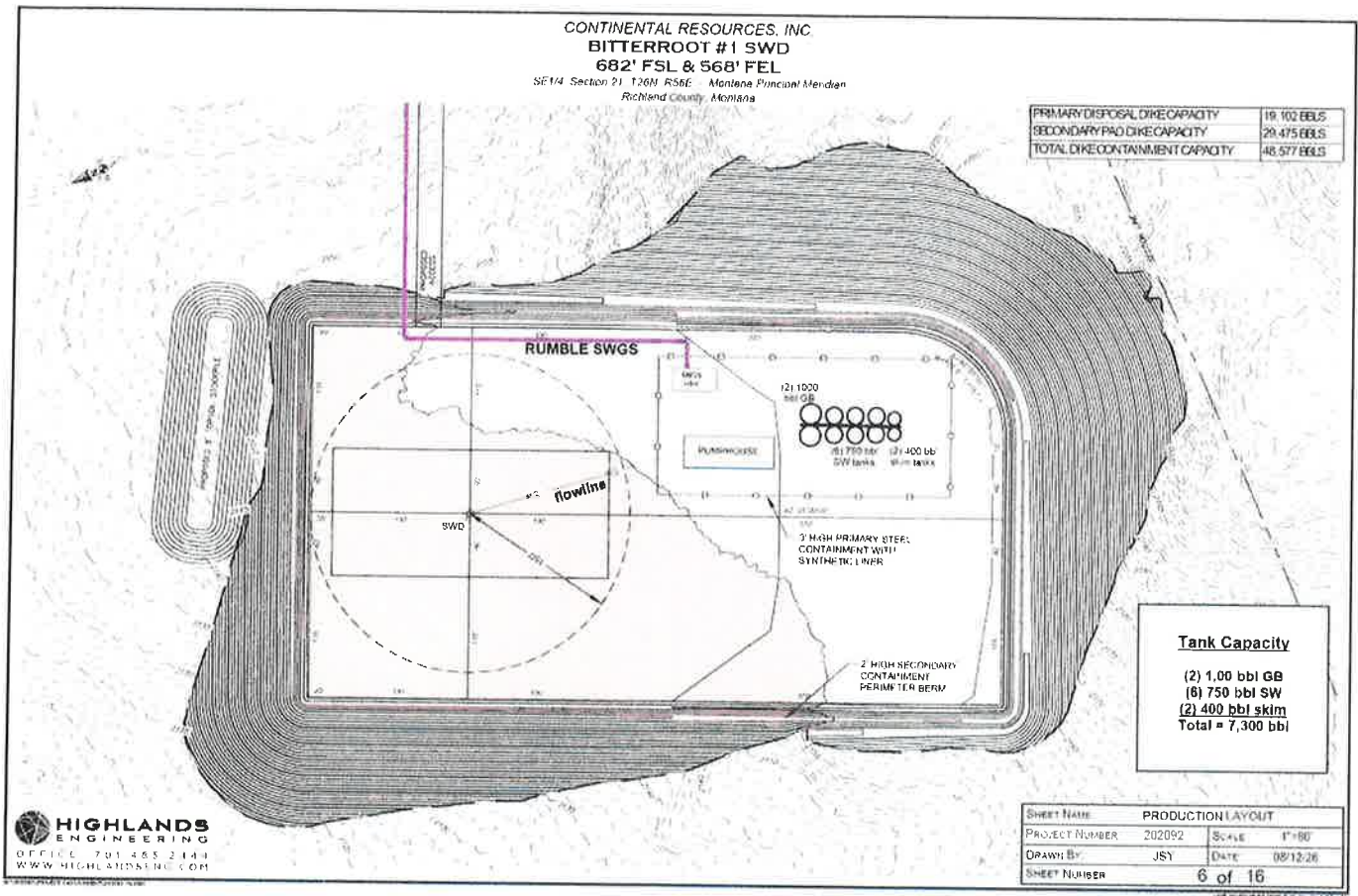
BITTERROOT #1 REVIEW OF WELLS WITHIN AOR

There are no producing wells within the Bitterroot #1 SWD ¼ mile AOR.



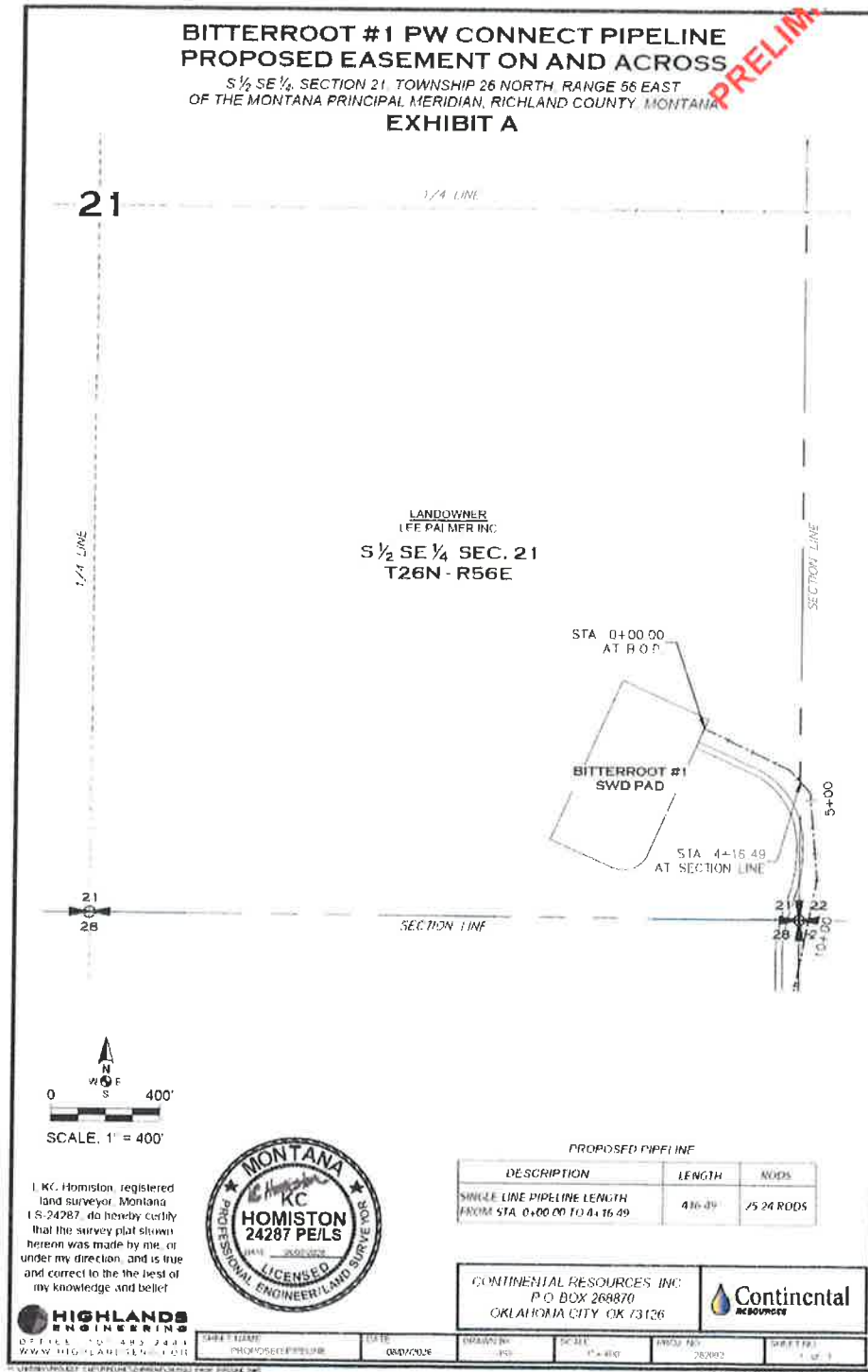
BITTERROOT #1 SWD FACILITY DIAGRAM WITH CONTAINMENT CALCULATIONS

The Bitterroot #1 SWD Facility will be constructed per the diagram below. The site will be equipped with SCADA monitoring including tank level sensors. SCADA activated float monitors will be installed within the containment area, pump building, and wellhead building. The Rumble SWGS Inlet will be inside containment.



BITTERROOT #1 PIPELINE LOCATION

The Bitterroot #1 SWD will have a PW pipeline connection from the CLR operated Rumble SWGS as shown on the included proposed plat. The Rumble SWGS will be monitored with CLR internal SCADA volumetric and pressure monitoring.



PRODUCTION FORMATION AND DRINKING WATER FORMATION REVIEW

There are no producing wells within the AOR for the Bitterroot 1 SWD.

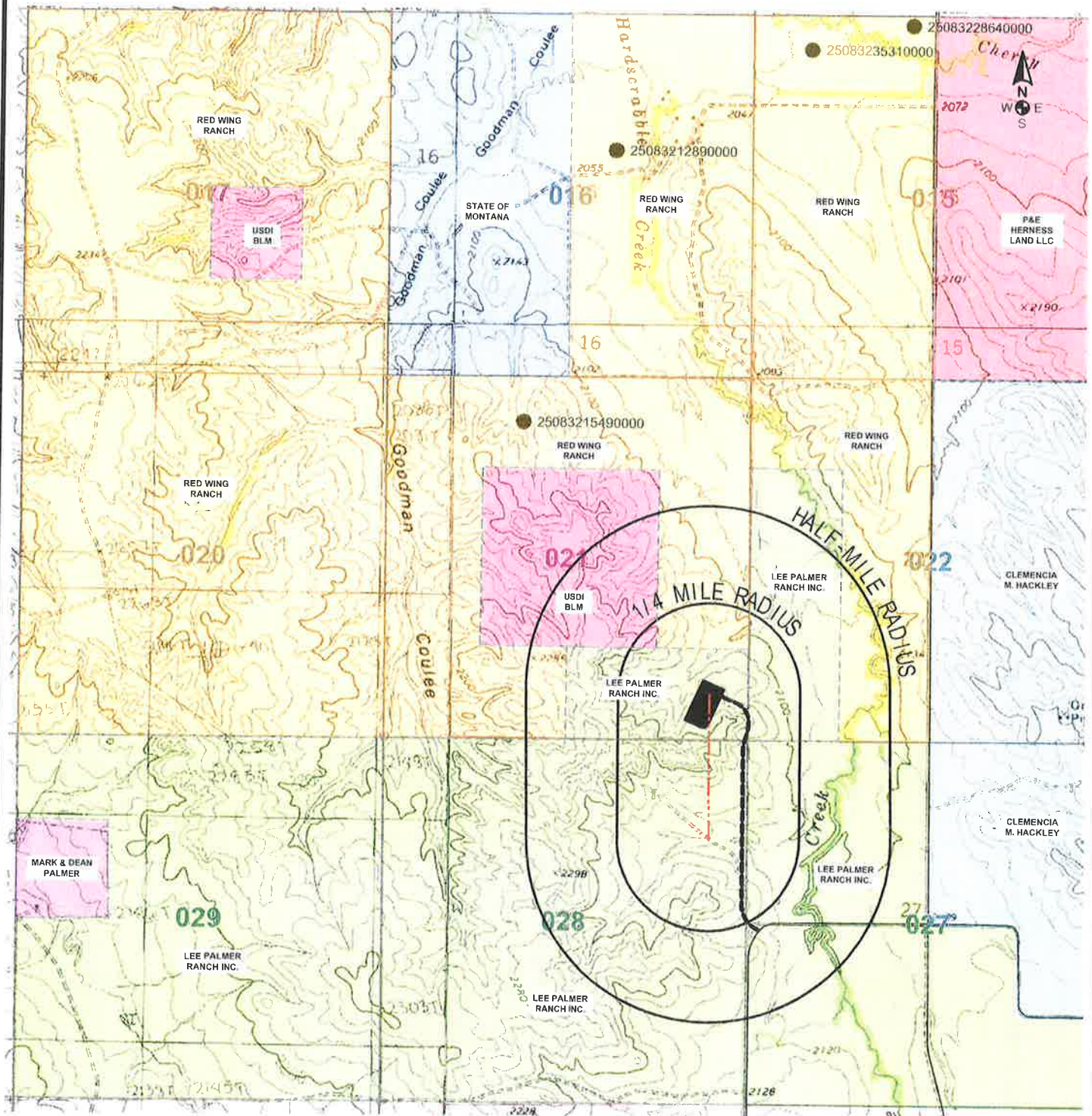
There are no fresh water wells within the ½ mile or ¼ mile AOR for the Bitterroot 1 SWD.

CONTINENTAL RESOURCES, INC.

BITTERROOT #1 SWD

682' FSL & 568' FEL

SE1/4 Section 21, T26N, R56E - Montana Principal Meridian
Richland County, Montana



NO OIL WELLS ARE LOCATED WITHIN 1/2-MILE OR
1/4-MILE OF THE NEAREST PROJECTED WELL HOLE.

HIGHLANDS
ENGINEERING
OFFICE: 701.483.2444
WWW.HIGHLANDSENG.COM

SHEET NAME: OIL WELLS MAP	DATE: 08/19/26	DRAWN BY: JSY	SCALE: 1"=2000'	PROJ. NO. 262092	SHEET NO. 11 of 16
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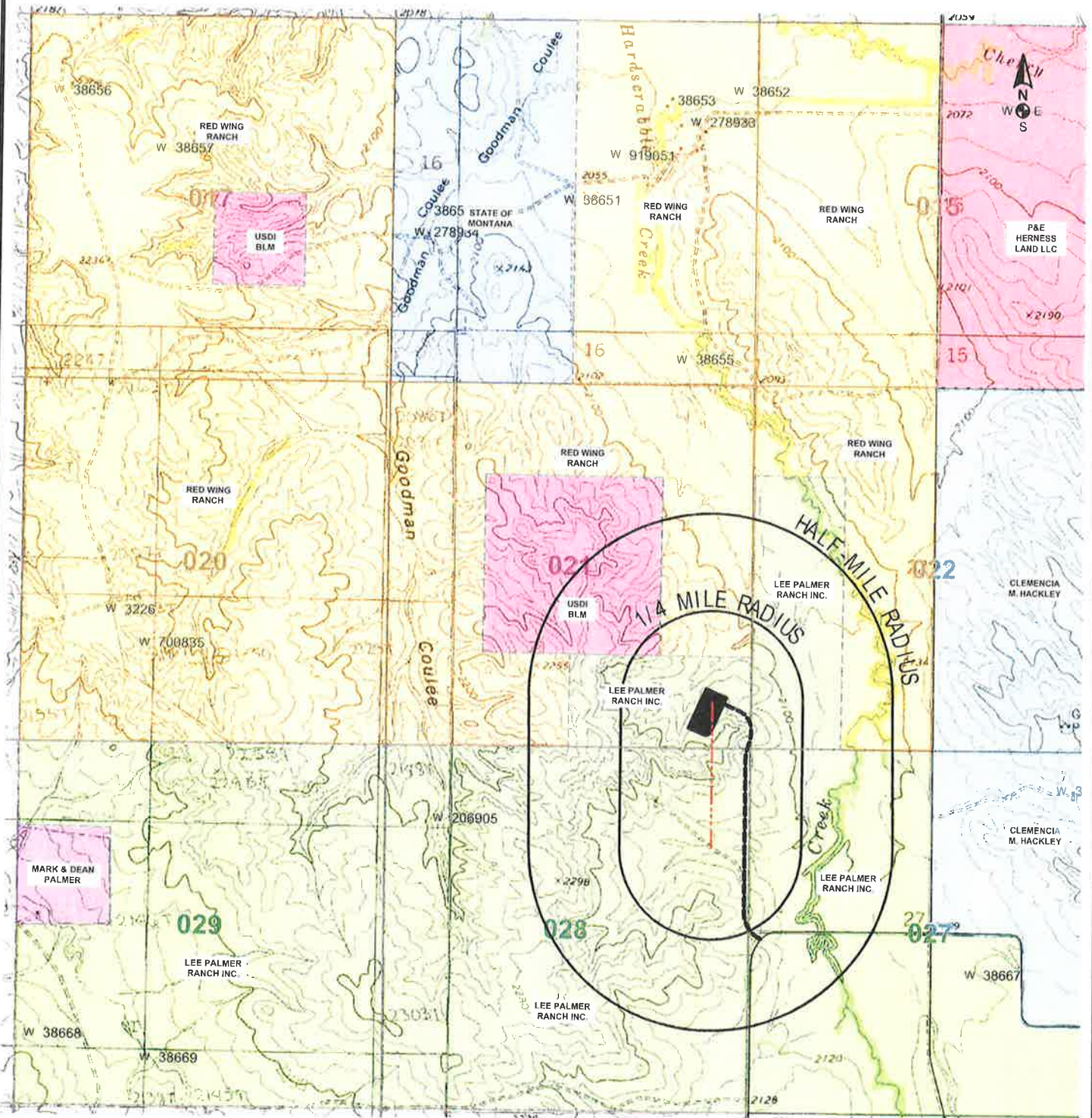
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CONTINENTAL RESOURCES, INC.

BITTERROOT #1 SWD

682' FSL & 568' FEL

SE1/4 Section 21, T26N, R56E - Montana Principal Meridian
Richland County, Montana



NO WATER WELLS ARE LOCATED WITHIN 1/2-MILE OR 1/4-MILE OF THE NEAREST PROJECTED WELL HOLE.

LEGEND

PROPOSED ACCESS ———
EXISTING ROAD ———
WATER WELL (W)



OFFICE: 701.483.2444
WWW.HIGHLANDSENG.COM

SHEET NAME: WATER WELLS MAP	DATE: 08/19/26	DRAWN BY: JSY	SCALE: 1"=2000'	PROJ. NO. 262092	SHEET NO. 10 of 16
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BITTERROOT 1 SWD INJECTION ZONE AND CONFINING ZONE REVIEW

Injection Zone: Inyan Kara Formation

Estimated Top	5,036 ft TVD
Estimated Gross Thickness	5,655 ft TVD
Estimated Gross Thickness	619 ft
Proposed Injection Interval	5,314 – 5,394 ft TVD
Estimated Frac Gradient	0.73

The Lower Cretaceous Inyan Kara Formation consists of variable interbedded sandstone, siltstone, and shale deposited in fluvial to marginal-marine environments. Sandstone thickness and lateral continuity vary as a result of channel migration and changes in depositional environment.

Upper Confining Zone: Mowry Formation

Estimated Top	4,645 ft TVD
Estimated Thickness	391 ft

The Lower Cretaceous Mowry Formation overlies the proposed injection interval and serves as the upper confining zone. The formation consists predominantly of medium- to dark-gray marine shale and siliceous siltstone, with common bentonitic and clay-rich intervals.

Lower Regional Confining Zone: Swift Formation

Estimated Top	5,655 ft TVD
Estimated Thickness	422 ft

The Jurassic Swift Formation underlies the Inyan Kara and forms the lower confining interval. It is a predominantly shallow-marine succession composed of dark-gray to greenish-gray shale and siltstone with subordinate glauconitic and locally calcareous sandstone. Portions of the lower Swift containing thick, fissile to waxy shale intervals and minor carbonate beds.

Formation depths and thicknesses are estimated from offset Baxter 21-21 (API: 25083215490) well.



SAMPLETECH
LABS

Brine Chemistry Evaluation

SYSTEM IDENTIFICATION

MaxFlow Chemicals
Continental Resource
1467-Johnson
Outlet

Sample ID#: 0
ID 260722M060

Sample Date: 07-08-2026 at 1200
Report Date: 07-25-2026

WATER CHEMISTRY

CATIONS(mg/L)		ANIONS(mg/L)	
Calcium(as Ca)	11731	Chloride(as Cl)	188200
Magnesium(as Mg)	1015	Sulfate(as SO ₄)	315.00
Barium(as Ba)	18.05	Dissolved CO ₂ (as CO ₂)	28.08
Strontium(as Sr)	779.61	Bicarbonate(as HCO ₃)	53.68
Sodium(as Na)	6028.03	Carbonate(as CO ₃)	0.00
Potassium(as K)	6288	Phosphate(as PO ₄)	5.52
Lithium(as Li)	69.26	H ₂ S (as H ₂ S)	0.01000
Iron(as Fe)	120.36	Boron(as B)	381.18
Manganese(as Mn)	16.37		
Zinc(as Zn)	5.36		
Lead(as Pb)	0.00		

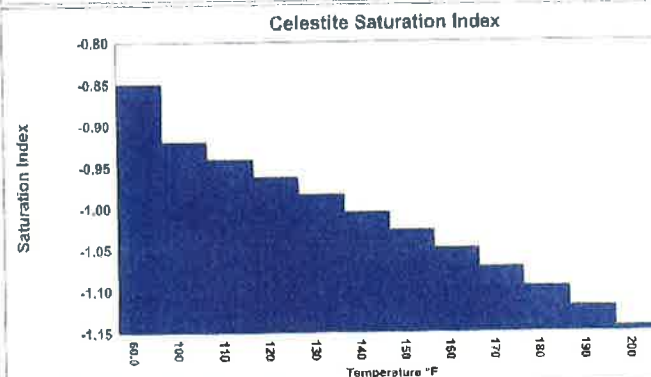
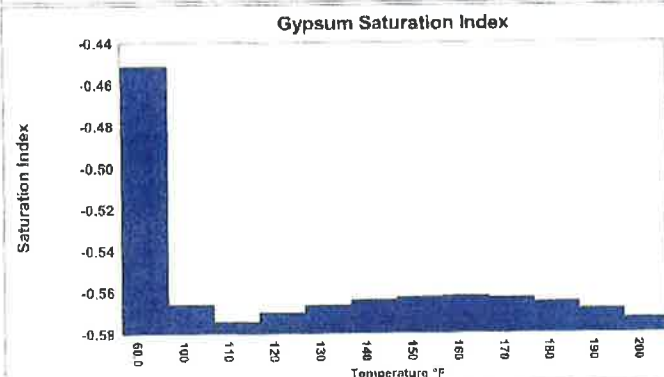
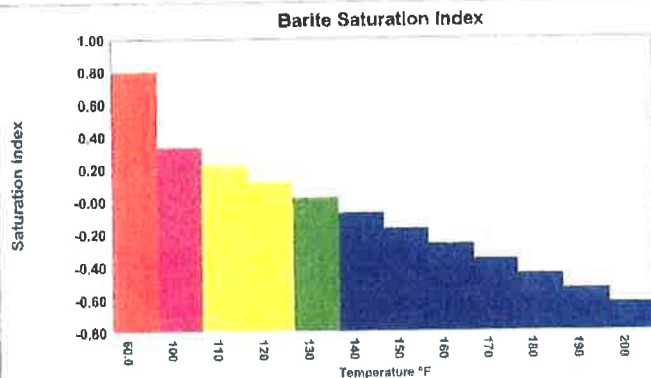
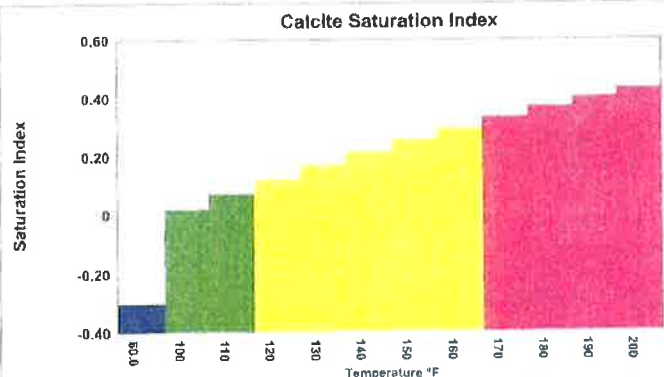
PARAMETERS

Temperature(°F)	100.00	Sample pH	6.10
Conductivity(umhos/cm)	533573	Sp.Gr.(g/mL)	1.173
Resistivity(ohm-cm)	1.87	T.D.S.(mg/L)	323561

SCALE POTENTIAL

Temp. (°F)	Press. (psia)	Calcite CaCO ₃	Anhydrite CaSO ₄	Gypsum CaSO ₄ *2H ₂ O	Barite BaSO ₄	Celestite SrSO ₄	Siderite FeCO ₃	Mackinawite FeS
60.00	14.70	-0.31 -0.00276	-0.47 -98.84	-0.45 -106.56	0.80 27.70	-0.85 -347.82	-0.16 -0.00143	-3.41 -0.246
100.00	100.00	0.02 < 0.001	-0.49 -92.25	-0.57 -135.23	0.34 15.23	-0.92 -361.32	0.28 0.00241	-2.67 -0.282
110.00	290.00	0.07 < 0.001	-0.49 -87.70	-0.57 -132.90	0.23 10.93	-0.94 -365.41	0.36 0.00318	-2.23 -0.292
120.00	480.00	0.12 0.00131	-0.47 -81.24	-0.57 -125.85	0.12 6.22	-0.96 -370.23	0.45 0.00395	-2.04 -0.303
130.00	670.00	0.17 0.00189	-0.46 -73.42	-0.57 -119.86	0.02 1.12	-0.98 -375.99	0.53 0.00473	-1.92 -0.316
140.00	860.00	0.22 0.00249	-0.43 -64.76	-0.56 -114.83	-0.08 -4.40	-1.01 -382.79	0.60 0.00552	-1.84 -0.329
150.00	1050.00	0.26 0.00311	-0.40 -55.70	-0.56 -110.67	-0.18 -10.34	-1.03 -390.73	0.67 0.00633	-1.78 -0.344
160.00	1240.00	0.30 0.00376	-0.36 -46.63	-0.56 -107.32	-0.27 -16.72	-1.05 -399.93	0.74 0.00717	-1.74 -0.361
170.00	1430.00	0.34 0.00443	-0.32 -37.83	-0.56 -104.72	-0.36 -23.58	-1.07 -410.55	0.81 0.00804	-1.70 -0.379
180.00	1620.00	0.37 0.00512	-0.27 -29.52	-0.57 -102.84	-0.45 -30.97	-1.10 -422.75	0.87 0.00894	-1.68 -0.399
190.00	1810.00	0.40 0.00584	-0.22 -21.83	-0.57 -101.66	-0.54 -38.95	-1.12 -436.70	0.93 0.00989	-1.66 -0.421
200.00	2000.00	0.43 0.00659	-0.16 -14.85	-0.57 -101.18	-0.63 -47.59	-1.14 -452.63	0.99 0.0109	-1.65 -0.445
		Log(SR) mg/L	Log(SR) mg/L	Log(SR) mg/L	Log(SR) mg/L	Log(SR) mg/L	Log(SR) mg/L	Log(SR) mg/L

Saturation Ratios (SR) are the ratio of ion activity to solubility, e.g. $\{Ca\}/\{CO_3\}/K_{sp}$. CO₂ (ppm-gas) is concentration of CO₂ in the gas phase.
mg/L scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.



Membrane Filter Analysis

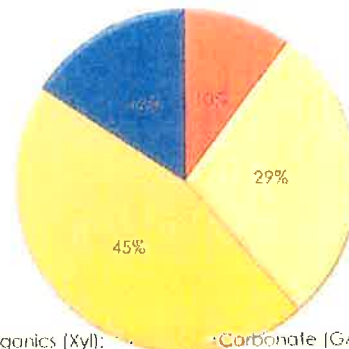


**SAMPLETECH
LABS**

Batch:	13685	Analysis Number	260722M060
Company:	MaxFlow Chemicals	Date Sampled:	07/08/26
Operator:	Continental Resource	Date Submitted:	07/22/26
Well:	1467-Johnson	Analysis Date:	07/24/26
Sample Point:	Outlet		

Volume:	440	mL	Filter Size:	0.45
Time:	5.00	Min.		
Pressure:	20	psi		

	PERCENT (%)	mg/L
Organics (Xyl):	10.2	42.5
Carbonate (GAA):	28.5	118.9
Sulfides and Oxides (HCl):	45.5	189.8
Acid Insolubles:	15.8	66.1



Total Suspended Solids

TSS (mg/L)	417.3
TSS (Lbs/Gal)	0.0035
TSS (bbls/1000bbls)	146.3

■ Organics (Xyl): ■ Carbonate (GAA)
■ Sulfides and Oxides (HCl): ■ Acid Insolubles:

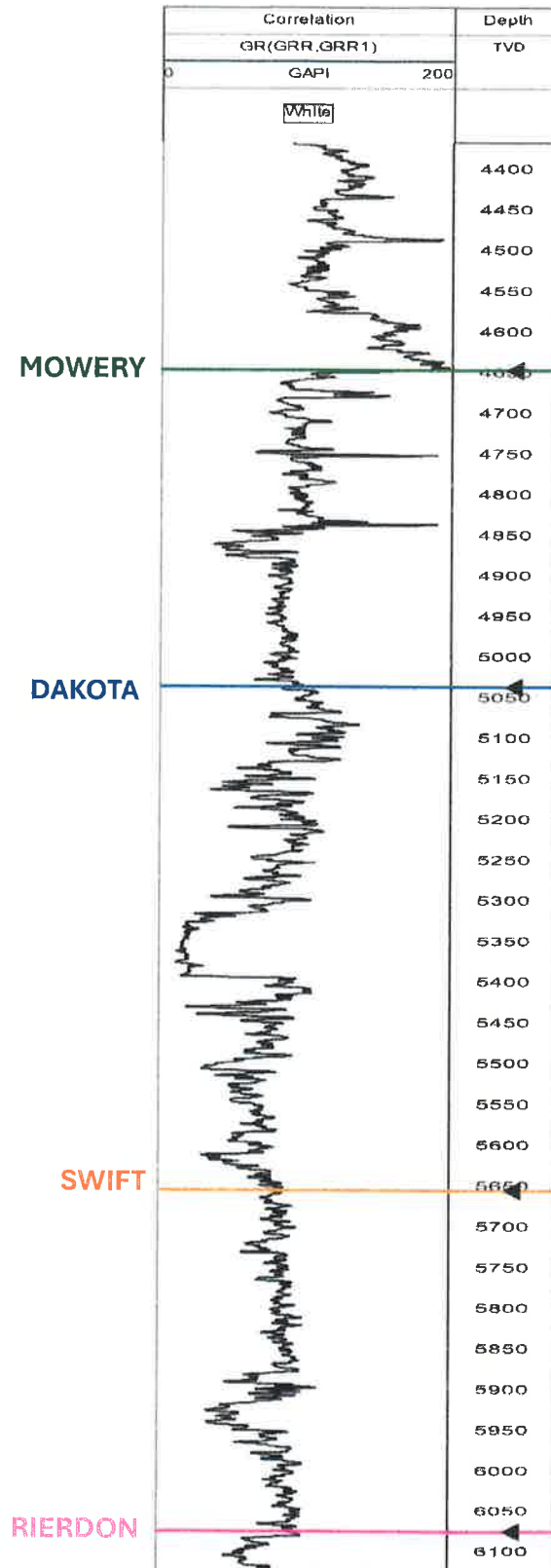
Remarks:

BITTERROOT 1 SWD HYDROCARBON ZONE REVIEW

There are no existing wellbores within the ¼ mile AOR from the proposed Bitterroot #1 SWD.

BITTERROOT #1 SWD REPRESENTATIVE LOG

BAXTER 21-21
API: 2508321549



BITTERROOT #1 SUBMIT LOGS TO MONTANA BOARD OF & GAS CONSERVATION

The Bitterroot #1 SWD will be a new drill SWD. The logging program will consist of a CBL/GR log ran from TD to Surface during the completion of the well. Any logs and test data run on the Bitterroot #1 SWD will be supplied to the MBOGC following the completion of the well.

BITTERROOT #1 SWD CASING AND CEMENT PROGRAM

The directional plans and MBGOC APD Form 22 for Bitterroot #1 SWD are included for reference. These documents depict the proposed wellbore configuration and directional plans for the subject well. Perforations will be selected after logs are run.

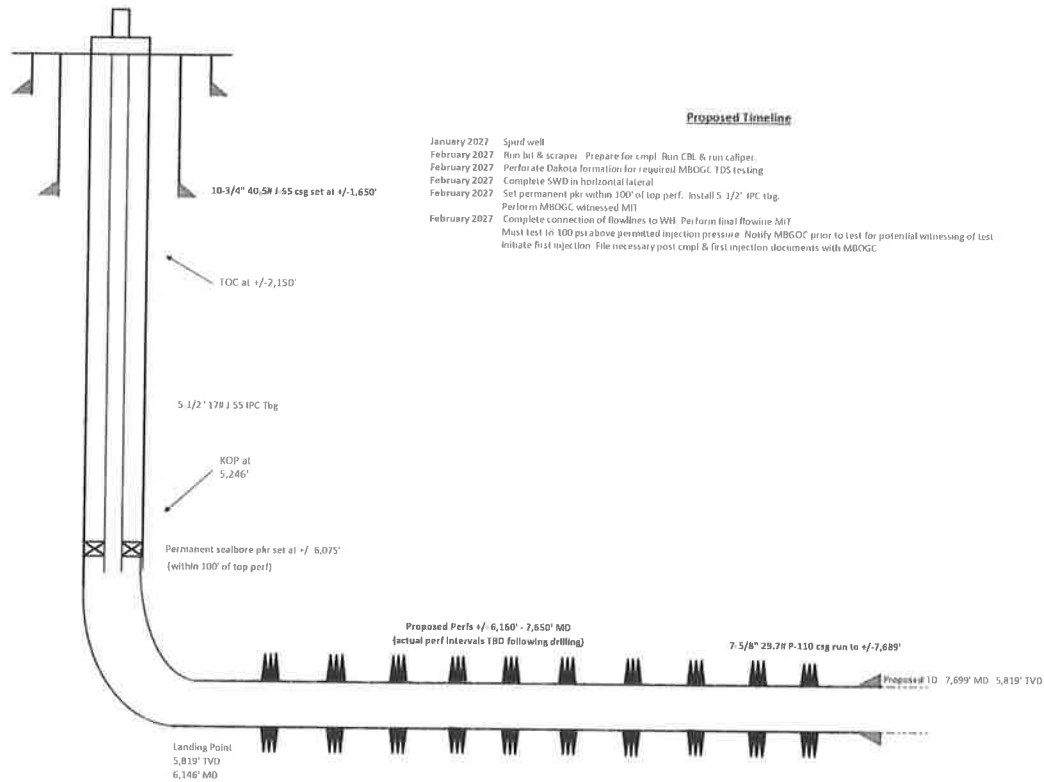
The wellbore diagram is included depicting the final wellbore configuration including casing setpoints, tubing configuration, and proposed packer setting depth. The Dakota Group interval will be completed via a plug and perf method and acidized with 15% HCl subject to final completion design subject to 5,000 psig maximum allowable treating pressure at the wellhead during the completion.

The 7-58" intermediate casing will be drilled to approximately 7,699' MD (5,819' TVD). The proposed kick-off point is 5,246' MD with a landing point of 6,146' MD (5,819' TVD).

Continental Resources
BITTERROOT #1 SWD

SE SE Sec 21 T26N R56E
 Richland County, MT
 API #to be assigned

Proposed WBD



Proposed Timeline

- January 2027 Spud well
- February 2027 Run bit & scrapers Prepare for cml Run CBL & run calliper
- February 2027 Perforate Dakota formation for required MBGOC TDS testing
- February 2027 Complete SWD in horizontal lateral
- February 2027 Set permanent pkr within 100' of top perf. Install 5-1/2" IPC tub.
- February 2027 Perform MBGOC witnessed MIT
- February 2027 Complete connection of flowlines to WH Perform final Positive MIT
- Must test in 100 psi above permitted injection pressure Notify MBGOC prior to test for potential witnessing of test
- Initiate first injection File necessary post cml & first injection documents with MBGOC

Bitterroot #1 SWD

WELL DETAILS: Bitterroot #1 SWD Design #1

+N/-S	+E/-W	GL Elev (ft.):	2158.0		
0.0	0.0	Northings	Eastings	Latitude	Longitude
0.0	0.0	1401035.18	3195264.81	47.985298°N	104.485066°W

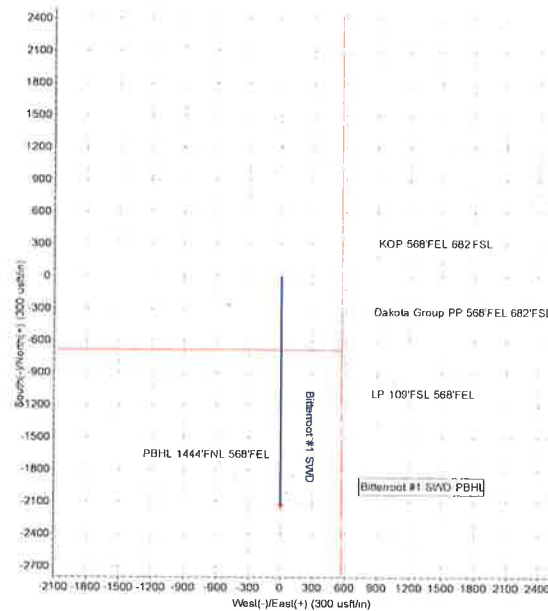
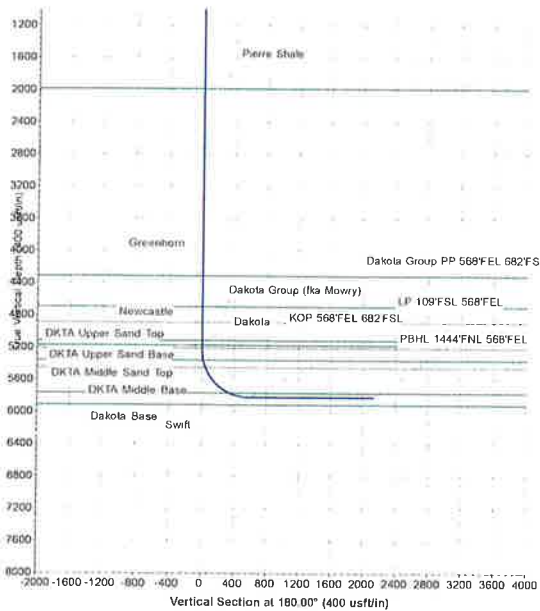
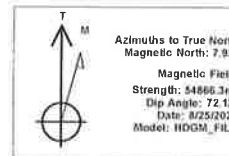
Project: Richland County, Montana
Site: Bitterroot #1 SWD
Well: Bitterroot #1 SWD
Wellbore: Wellbore #1
Design: Design #1

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1986.0	1986.0	Pierre Shale
4314.0	4314.0	Greenhorn
4696.0	4696.0	Dakota Group (Ika Mowry)
4892.0	4892.0	Newcastle
5116.0	5116.0	Dakota
5176.0	5176.0	DKTA Upper Sand Top
5212.0	5212.0	DKTA Upper Sand Base
5361.8	5361.8	DKTA Middle Sand Top
5454.0	5454.0	DKTA Middle Base
5769.0	5905.0	Dakota Base

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V9ect	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	SHL 588°FEL 682°FSL
5248.0	0.00	0.00	5248.0	0.0	0.0	0.00	0.00	0.0	KOP 588°FEL 682°FSL
5148.0	90.00	180.00	5919.0	-573.0	0.0	16.00	180.00	573.0	LP 109°FSL 568°FEL
7699.0	90.00	180.00	5919.0	-2128.0	0.0	0.00	0.00	2128.0	PBHL 1444°FNL 568°FEL



CLR Wellplans ND/MT

Richland County, Montana

Bitterroot #1 SWD

Bitterroot #1 SWD

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

26 August, 2026

Continental Resources

Planning Report - Geographic

Database: EDM
Company: CLR Wellplans ND/MT
Project: Richland County, Montana
Site: Bitterroot #1 SWD
Well: Bitterroot #1 SWD
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Bitterroot #1 SWD
TVD Reference: KB @ 2186.0usft
MD Reference: KB @ 2186.0usft
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	Richland County, Montana		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Montana		

Site	Bitterroot #1 SWD		
Site Position:		Northing:	1,401,035.18 usft
From:	Lat/Long	Easting:	3,195,264.81 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	47.985298°N
		Longitude:	104.485066°W

Well	Bitterroot #1 SWD		
Well Position	+N/-S	0.0 usft	Northing: 1,401,035.18 usft
	+E/-W	0.0 usft	Easting: 3,195,264.81 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
Grid Convergence:	3.67 °	Ground Level:	2,158.0 usft
		Latitude:	47.985298°N
		Longitude:	104.485066°W

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM_FILE	8/25/2026	7.93
			Dip Angle (°)
			72.12
			Field Strength (nT)
			54,866.30000000

Design	Design #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			180.00

Plan Survey Tool Program	Date	8/26/2026		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	7,699.0 Design #1 (Wellbore #1)	MWD+HRGM+SAG+MS	
			OWSG MWD + HRGM + Sag	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,246.0	0.00	0.00	5,246.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,146.0	90.00	180.00	5,819.0	-573.0	0.0	10.00	10.00	0.00	180.00	Bitterroot #1 SWD PB
7,699.0	90.00	180.00	5,819.0	-2,126.0	0.0	0.00	0.00	0.00	0.00	Bitterroot #1 SWD PB

Continental Resources

Planning Report - Geographic

Database: EDM
Company: CLR Wellplans ND/MT
Project: Richland County, Montana
Site: Bitterroot #1 SWD
Well: Bitterroot #1 SWD
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Bitterroot #1 SWD
TVD Reference: KB @ 2186.0usft
MD Reference: KB @ 2186.0usft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
SHL 568'FEL 682'FSL									
100.0	0.00	0.00	100.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
200.0	0.00	0.00	200.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
300.0	0.00	0.00	300.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
400.0	0.00	0.00	400.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
500.0	0.00	0.00	500.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
600.0	0.00	0.00	600.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
700.0	0.00	0.00	700.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
800.0	0.00	0.00	800.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
900.0	0.00	0.00	900.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
1,986.0	0.00	0.00	1,986.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
Pierre Shale									
2,000.0	0.00	0.00	2,000.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
3,200.0	0.00	0.00	3,200.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
3,300.0	0.00	0.00	3,300.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
3,400.0	0.00	0.00	3,400.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
3,500.0	0.00	0.00	3,500.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
3,600.0	0.00	0.00	3,600.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
3,700.0	0.00	0.00	3,700.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
3,800.0	0.00	0.00	3,800.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
3,900.0	0.00	0.00	3,900.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
4,100.0	0.00	0.00	4,100.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
4,300.0	0.00	0.00	4,300.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
4,314.0	0.00	0.00	4,314.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
Greenhorn									
4,400.0	0.00	0.00	4,400.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
4,500.0	0.00	0.00	4,500.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
4,600.0	0.00	0.00	4,600.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
4,696.0	0.00	0.00	4,696.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W

Dakota Group PP 568'FEL 682'FSL - Dakota Group (fka Mowry)

Continental Resources

Planning Report - Geographic

Database: EDM
Company: CLR Wellplans ND/MT
Project: Richland County, Montana
Site: Bitterroot #1 SWD
Well: Bitterroot #1 SWD
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Bitterroot #1 SWD
TVD Reference: KB @ 2186.0usft
MD Reference: KB @ 2186.0usft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,700.0	0.00	0.00	4,700.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
4,800.0	0.00	0.00	4,800.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
4,892.0	0.00	0.00	4,892.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
Newcastle									
4,900.0	0.00	0.00	4,900.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
5,000.0	0.00	0.00	5,000.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
5,100.0	0.00	0.00	5,100.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
5,116.0	0.00	0.00	5,116.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
Dakota									
5,176.0	0.00	0.00	5,176.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
DKTA Upper Sand Top									
5,200.0	0.00	0.00	5,200.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
5,212.0	0.00	0.00	5,212.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
DKTA Upper Sand Base									
5,246.0	0.00	0.00	5,246.0	0.0	0.0	1,401,035.18	3,195,264.81	47.985298°N	104.485066°W
KOP 568°FEL 682°FSL									
5,250.0	0.40	180.00	5,250.0	0.0	0.0	1,401,035.17	3,195,264.81	47.985298°N	104.485066°W
5,300.0	5.40	180.00	5,299.9	-2.5	0.0	1,401,032.64	3,195,264.97	47.985291°N	104.485066°W
5,350.0	10.40	180.00	5,349.4	-9.4	0.0	1,401,025.79	3,195,265.41	47.985272°N	104.485066°W
5,361.8	11.58	180.00	5,361.0	-11.7	0.0	1,401,023.55	3,195,265.56	47.985266°N	104.485066°W
DKTA Middle Sand Top									
5,400.0	15.40	180.00	5,398.2	-20.6	0.0	1,401,014.65	3,195,266.13	47.985242°N	104.485066°W
5,450.0	20.40	180.00	5,445.7	-35.9	0.0	1,400,999.32	3,195,267.11	47.985200°N	104.485066°W
5,458.9	21.29	180.00	5,454.0	-39.1	0.0	1,400,996.17	3,195,267.31	47.985191°N	104.485066°W
DKTA Middle Base									
5,500.0	25.40	180.00	5,491.8	-55.4	0.0	1,400,979.91	3,195,268.36	47.985146°N	104.485066°W
5,550.0	30.40	180.00	5,535.9	-78.8	0.0	1,400,956.57	3,195,269.85	47.985082°N	104.485066°W
5,600.0	35.40	180.00	5,577.9	-105.9	0.0	1,400,929.47	3,195,271.59	47.985008°N	104.485066°W
5,650.0	40.40	180.00	5,617.3	-136.6	0.0	1,400,898.83	3,195,273.55	47.984923°N	104.485066°W
5,700.0	45.40	180.00	5,654.0	-170.7	0.0	1,400,864.88	3,195,275.73	47.984830°N	104.485066°W
5,750.0	50.40	180.00	5,687.5	-207.7	0.0	1,400,827.87	3,195,278.10	47.984728°N	104.485066°W
5,800.0	55.40	180.00	5,717.6	-247.6	0.0	1,400,788.08	3,195,280.65	47.984619°N	104.485066°W
5,850.0	60.40	180.00	5,744.2	-289.9	0.0	1,400,745.82	3,195,283.36	47.984503°N	104.485066°W
5,900.0	65.40	180.00	5,767.0	-334.4	0.0	1,400,701.42	3,195,286.21	47.984381°N	104.485066°W
5,905.0	65.90	180.00	5,769.0	-339.0	0.0	1,400,696.91	3,195,286.50	47.984368°N	104.485066°W
Dakota Base									
5,950.0	70.40	180.00	5,785.8	-380.8	0.0	1,400,655.20	3,195,289.17	47.984254°N	104.485066°W
6,000.0	75.40	180.00	5,800.5	-428.5	0.0	1,400,607.53	3,195,292.23	47.984123°N	104.485066°W
6,050.0	80.40	180.00	5,810.9	-477.4	0.0	1,400,558.75	3,195,295.36	47.983989°N	104.485066°W
6,100.0	85.40	180.00	5,817.1	-527.0	0.0	1,400,509.25	3,195,298.53	47.983853°N	104.485066°W
6,146.0	90.00	180.00	5,819.0	-573.0	0.0	1,400,463.40	3,195,301.47	47.983727°N	104.485066°W
LP 109°FSL 568°FEL									
6,200.0	90.00	180.00	5,819.0	-627.0	0.0	1,400,409.51	3,195,304.93	47.983579°N	104.485066°W
6,300.0	90.00	180.00	5,819.0	-727.0	0.0	1,400,309.71	3,195,311.32	47.983304°N	104.485066°W
6,400.0	90.00	180.00	5,819.0	-827.0	0.0	1,400,209.92	3,195,317.72	47.983030°N	104.485066°W
6,500.0	90.00	180.00	5,819.0	-927.0	0.0	1,400,110.12	3,195,324.12	47.982756°N	104.485066°W
6,600.0	90.00	180.00	5,819.0	-1,027.0	0.0	1,400,010.33	3,195,330.52	47.982482°N	104.485066°W
6,700.0	90.00	180.00	5,819.0	-1,127.0	0.0	1,399,910.53	3,195,336.92	47.982207°N	104.485066°W
6,800.0	90.00	180.00	5,819.0	-1,227.0	0.0	1,399,810.74	3,195,343.32	47.981933°N	104.485066°W
6,900.0	90.00	180.00	5,819.0	-1,327.0	0.0	1,399,710.94	3,195,349.71	47.981659°N	104.485066°W
7,000.0	90.00	180.00	5,819.0	-1,427.0	0.0	1,399,611.15	3,195,356.11	47.981385°N	104.485066°W
7,100.0	90.00	180.00	5,819.0	-1,527.0	0.0	1,399,511.35	3,195,362.51	47.981110°N	104.485066°W
7,200.0	90.00	180.00	5,819.0	-1,627.0	0.0	1,399,411.56	3,195,368.91	47.980836°N	104.485066°W

Continental Resources

Planning Report - Geographic

Database: EDM
Company: CLR Wellplans ND/MT
Project: Richland County, Montana
Site: Bitterroot #1 SWD
Well: Bitterroot #1 SWD
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Bitterroot #1 SWD
TVD Reference: KB @ 2186.0usft
MD Reference: KB @ 2186.0usft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,300.0	90.00	180.00	5,819.0	-1,727.0	0.0	1,399,311.76	3,195,375.31	47.980562°N	104.485066°W
7,400.0	90.00	180.00	5,819.0	-1,827.0	0.0	1,399,211.97	3,195,381.71	47.980288°N	104.485066°W
7,500.0	90.00	180.00	5,819.0	-1,927.0	0.0	1,399,112.17	3,195,388.10	47.980013°N	104.485066°W
7,600.0	90.00	180.00	5,819.0	-2,027.0	0.0	1,399,012.38	3,195,394.50	47.979739°N	104.485066°W
7,699.0	90.00	180.00	5,819.0	-2,126.0	0.0	1,398,913.54	3,195,400.84	47.979467°N	104.485066°W

PBHL 1444'FNL 568'FEL

Design Targets

Target Name

- hit/miss target
- Shape

Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
0.00	0.00	5,819.0	-2,126.0	0.0	1,398,913.54	3,195,400.84	47.979467°N	104.485066°W

Bitterroot #1 SWD PBHL
- plan hits target center
- Point

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,986.0	1,986.0	Pierre Shale			
4,314.0	4,314.0	Greenhorn			
4,696.0	4,696.0	Dakota Group (fka Mowry)			
4,892.0	4,892.0	Newcastle			
5,116.0	5,116.0	Dakota			
5,176.0	5,176.0	DKTA Upper Sand Top			
5,212.0	5,212.0	DKTA Upper Sand Base			
5,361.8	5,361.0	DKTA Middle Sand Top			
5,458.9	5,454.0	DKTA Middle Base			
5,905.0	5,769.0	Dakota Base			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates	Comment
		+N/-S (usft)	+E/-W (usft)
0.0	0.0	0.0	0.0
4,696.0	4,696.0	0.0	0.0
5,246.0	5,246.0	0.0	0.0
6,146.0	5,819.0	-573.0	0.0
7,699.0	5,819.0	-2,126.0	0.0

SHL 568'FEL 682'FSL
Dakota Group PP 568'FEL 682'FSL
KOP 568'FEL 682'FSL
LP 109'FSL 568'FEL
PBHL 1444'FNL 568'FEL

INJECTION FLUID ANALYSIS AND PROPOSED INJECTION PRESSURE

Injected Fluid Analysis

The Bitterroot #1 SWD will primarily be used to inject produced water from wells producing from the Bakken formation in the surrounding area. Water from other formations including the Red River, Madison and other producing intervals within the Williston Basin may also be disposed of in the Bitterroot #1 SWD depending on future development plans. The following water analyses from nearby Johnson 1-22 SWD is representative of the injectate that will be received at Bitterroot #1 SWD.

Proposed Injection Pressure

The top of the Dakota penetration is proposed to be 5,819'. Based on that projection, the proposed injection pressure for Bitterroot #1 SWD is as follows:

Frac Gradient of Zone (psi/ft)	0.733
Depth to Zone (Dakota top)	5,819'
Specific Gravity	1.173
Fracture Pressure (psi)	4,265 psi
Hydrostatic Pressure (psi)	2,960 psi
Max Surface Injection Pressure (psi)	1,305 psi

Estimated Injection Pressure:

Fracture pressure = $0.733 \text{ (Fracture Gradient, psi/ft)} \times 5,819' \text{ (Top of Dakota, ft TVD)} = 4,265 \text{ psi}$

Hydrostatic pressure = $1.173 \text{ (SG)} \times 8.34 \text{ (FW lb/gal)} \times 0.052 \text{ (Unit conversion constant)} \times 5,819' \text{ (Top of Dakota, ft TVD)} = 2,960 \text{ psi}$

Max Injection pressure = $4,265 \text{ psi} - 2,960 \text{ psi} = 1,305 \text{ psi}$



**Bitterroot SWD
Richland County, Montana
SESE Sec 21, 26N, 56E
AFE #: DS30002**

Wellbore Information

- **Surface Casing:** 10-3/4" 40# J-55 set @ 1,650'
- **Intermediate Casing:** 7-5/8" 29.7# HCL-80 set @ 7,699' MD
- **Proposed Inj. Tubing:** 5-1/2" 17# J-55 8rd LTC IPC @ 6,075' MD
- **Packer:** Baker Hughes Permanent Packer set top @ +/- 6,075' MD

FORMATION	TVD
Pierre Shale	1,566
Greenhorn	4,314
Dakota Group (FKA Mowry)	4,696
Newcastle	4,892
Dakota	5,116
DKTA Upper Sand Top	5,176
DKTA Upper Sand Base	5,212
DKTA Middle Sand Top	5,361
DKTA Middle Base	5,454
Dakota Base	5,769
TD	5,819
Swift	5,914

Scope of Work

To complete the Bitterroot #1 SWD and prepare for injection. Following the bit/scrapper run, the lateral will be completed using a plug and perf style completed in approximately 3 stages.

Logistic & General Considerations

- Obtain approval from MBOGC to exceed permitted MAIP initial stimulation due to light weight cmpl water and required perf break down pressure. Due to limited entry perf stimulation design, higher pressure will be required to successfully treat the formation.

Procedure

1. ND TA cap & install TBG head. Coordinate final orientation of all valve directions with CLR Water Foreman.
2. MIRU WL and run CBL. RDMO WL.
3. MIRU WOR and NU BOP.
4. Make up 6.75" bit/scrapper and RIH to float collar at +/- 7,675.
 - a. REV wellbore clean.
 - b. PT shoe track @ 2,000 psi – if holding, continue w/ step 6. If not, RBP may be needed to isolate shoe.
5. Perforate Dakota at end of lateral for fluid testing.
6. Coordinate in advance to prepare for Dakota Formation water sample for MBOGC requirements.
7. RIW w/ swab line. Swab back 2-3 casing volumes to ensure fluid sample is representative formation fluid.
8. Collect Dakota formation sample & **expedite** analysis.

- a. Perform expedited analysis with local labs
 - i. Review expedited results with MBGOC inspector & CLR Water Engineer
 - b. Submit full sample to state certified lab for official full analysis
9. SI operations until results are received. **Confirm results with CLR Water Engineer and MBOGC Inspector prior to resuming operations**
10. Prepare for plug and perf stim stages.
11. Perform Plug and Perf Completion
12. Perform injection test with 1,000 bbl PW to max rate with permitted pressure limit to assess well's disposal capability.
13. MIRU WL. Make up 7.625" packer and WL set packer @ +/- 6,075' MD {within 100' of top perf}. Final depth to be determined after well is drilled.
14. Run 5.5" injection string to top of packer. Lightly tag then come up a few feet and pump packer fluid down backside. Over displace by 20% and once complete, latch onto packer and top off backside with packer fluid.
15. Notify MBOGC for MIT and test backside to 1000 psi for 15 minutes. Send a copy of the report to engineering and regulatory for documentation and final regulatory filings.
16. Move in pump truck for final injection test post-acid treatment. Pump at 4, 6, 8, 10, and 15 BPM for 10 minutes at each rate. Do not exceed permitted max injection pressure. Document and record pressures and rates. Enter all data in SiteView.

Independent Record

AFFIDAVIT OF PUBLICATION

See Proof on Next Page

Helena Independent Record
2222 N. Washington St
Helena, Montana 59602
(123) 456-7890

State of New Jersey, County of Camden, ss:

Anjana Bhadoriya, being first duly sworn, deposes and says: That (s)he is a duly authorized signatory of Column Software, PBC, duly authorized agent of Helena Independent Record, a newspaper of general circulation published that is a "legal newspaper" as that is published daily in the City of Helena, in the County of Lewis and Clark, State of Montana, and has charge of the Advertisements thereof.

If this certification is for the State of Montana, I hereby certify that I have read sec. 18-7-204 and 18-7-205 MCA, and subsequent revisions, and declare that the price or rate charged the State of Montana for the publication for which claim is made in printed copy in the amount of \$232.30 is not in excess of the minimum rate charged any other advertiser for publication of advertisement, set in the same size type and published for the same number of insertions, further certify that this claim is correct and just in all respects, and that payment or credit has not been received.

PUBLICATION DATES: August. 29 2026

NOTICE ID: ibycX6ux0aSfneo8fvTB

PUBLISHER ID: COL-MT-203197

NOTICE NAME: CLR Bitterroot #1 SWD Public Notice

Publication Fee: \$232.30

Anjana Bhadoriya

(Signed) _____

VERIFICATION

State of New Jersey
County of Camden

SHARONN E THOMAS-POPE
NOTARY PUBLIC
STATE OF NEW JERSEY
My Commission Expires January 23, 2027

Subscribed in my presence and sworn to before me on this: 09/01/2026

Sharon E. Thomas-Pope

Notary Public

Notarized remotely online using communication technology via Proof.

CLR Bitterroot #1 SWD - Public Notice
BEFORE THE BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

NOTICE OF INTENTION TO APPLY FOR PERMIT TO DRILL
AN OIL AND GAS WELL

In the Matter of the Application of CONTINENTAL
RESOURCES, INC. for a Permit to Drill and Permit a Class II
Injection Well

1. Name and Address of Applicant: Continental Resources,
Inc.

P.O. Box 269000
Oklahoma City, Oklahoma 73126
(405) 234-9000 phone/fax

2. Well Name and Legal Description: Bitterroot #1 SWD

Surface Hole Location: 682' FNL & 568' FEL

SESE Sec 21-26N-56E

Horizontal Intercept: 573' FNL & 568' FEL

NENE Sec 21-26N-56E

Horizontal Terminus: 1444' FNL & 568' FEL

SENE Sec 28-26N-56E

County: Richland

3. Proposed Total Depth: 7699' MD; 5819' TVD

4. Source of Fluids to be Injected: Produced Water from
nearby Bakken wells

5. Zone/Formation of Injection & Depth:

Dakota Sand - 5176' TVD - 5769' TVD

An aquifer exemption will be requested as part of the Class II
Injection Well permit since the proposed injection zone contains
water with less than 10,000 ppm total dissolved solids.

Notice is hereby given that an application for permit to drill
and permit a Class II underground injection well at the surface
location set forth above to the depth as stated will be filed with
the Montana Board of Oil and Gas Conservation. Pursuant to
Rules 36.22.601, 36.22.604, and 36.22.1409 Administrative
Rules of Montana, an interested party may demand an
opportunity to be heard by the Montana Board of Oil and Gas
Conservation concerning the application. A hearing will be
held at the Montana Board of Oil & Gas Conservation Hearing
Room (at the below address) on Thursday, October 15, 2026,
at 09:00 am MT. SUCH DEMAND FOR HEARING MUST BE
RECEIVED BY THE MONTANA BOARD OF OIL AND GAS
CONSERVATION AT THE ADDRESS SET FORTH NO LATER
THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION
OF THIS NOTICE, OR THE APPLICATION WILL BE ACTED
UPON BY THE BOARD'S PETROLEUM ENGINEER
WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH
THE NAME, ADDRESS AND TELEPHONE NUMBER OF
EACH INTERESTED PARTY, THEIR OWNERSHIP INTEREST
IN THE LANDS SURROUNDING THE PROPOSED WELL,
AND THE REASONS WHY THE HEARING IS SOUGHT; (2)
BE SERVED UPON THE APPLICANT BY COPY MAILED OR
FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. John's Avenue
Billings, Montana 59102
Phone Number: (406) 656-0040
FAX Number: (406) 652-5305

August 29, 2026 COL-MT-203197 MNAXLP

SIDNEY HERALD

AFFIDAVIT OF PUBLICATION

See Proof on Next Page

Sidney Herald
310 2nd Ave NE
(406) 433-2403

I, Anjana Bhadoriya, of lawful age, being duly sworn upon oath depose and say that I am an agent of Column Software, PBC, duly appointed and authorized agent of the Publisher of Sidney Herald, a publication that is a "legal newspaper" as that phrase is defined for the city of Sidney, for the County of Richland, in the state of Montana, that this affidavit is Page 1 of 2 with the full text of the sworn-to notice set forth on the pages that follow, and that the attachment hereto contains the correct copy of what was published in said legal newspaper in consecutive issues on the following dates:

PUBLICATION DATES:

Aug. 29, 2026

Notice ID: 4BGzI2ttRh7sqaH8rpjY

Publisher ID: SHM000955

Notice Name: CLR Bitterroot #1 SWD Public Notice

PUBLICATION FEE: \$177.39

Request of
Katelyn Clark

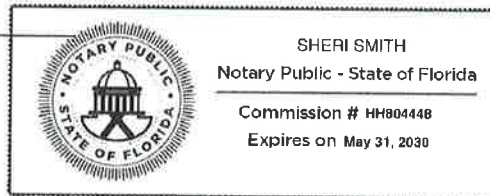
I declare under penalty of perjury and under the laws of the state of Montana that the foregoing is true and correct.

Anjana Bhadoriya

Agent

VERIFICATION

State of Florida
County of Broward



Signed or attested before me on this: 09/01/2026

S. Smith

Notary Public
Notarized remotely online using communication technology via Proof.

BEFORE THE BOARD OF OIL AND GAS CONSERVATION OF
THE STATE OF MONTANA

NOTICE OF INTENTION TO APPLY FOR PERMIT TO DRILL AN
OIL AND GAS WELL

In the Matter of the Application of CONTINENTAL RESOURCES,
INC. for a Permit to Drill and Permit a Class II Injection Well

1. **Name and Address of Applicant:** Continental Resources, Inc.
P.O. Box 269000
Oklahoma City, Oklahoma 73126
(405) 234-9000 phone/fax
2. **Well Name and Legal Description:** Bitterroot #1 SWD
- Surface Hole Location:** 682'FNL & 568'FEL, SESE Sec 21-26N-56E
- Horizontal Intercept:** 573'FNL & 568'FEL, NENE Sec 21-28N-56E
- Horizontal Terminus:** 1444'FNL & 568'FEL, SENESec 28-28N-56E
- County:** Richland
3. **Proposed Total Depth:** 7699' MD; 5819' TVD
4. **Source of Fluids to be Injected:** Produced Water from nearby Bakken wells
5. **Zone/Formation of Injection & Depth:** Dakota Sand --
5176'TVD - 5769'TVD

An aquifer exemption will be requested as part of the Class II Injection Well permit since the proposed injection zone contains water with less than 10,000 ppm total dissolved solids.

Notice is hereby given that an application for permit to drill and permit a Class II underground injection well at the surface location set forth above to the depth as stated will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601, 36.22.604, and 36.22.1409 Administrative Rules of Montana, an interested party may demand an opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning the application. A hearing will be held at the Montana Board of Oil & Gas Conservation Hearing Room (at the below address) on Thursday, October 15, 2026, at 09:00 am MT. SUCH DEMAND FOR HEARING MUST BE RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CONSERVATION AT THE ADDRESS SET FORTH NO LATER THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS NOTICE. OR THE APPLICATION WILL BE ACTED UPON BY THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH THE NAME, ADDRESS AND TELEPHONE NUMBER OF EACH INTERESTED PARTY, THEIR OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE PROPOSED WELL, AND THE REASONS WHY THE HEARING IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. John's Avenue
Billings, Montana 59102
Phone Number: (406) 656-0040
FAX Number: (406) 652-5305

Date: August 29, 2026
SHM000955



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

August 24, 2026

To: Surface Owner
Address
City, State Zip

From: Continental Resources, Inc.
20 N. Broadway
OKC, OK 73102

Re: Proposed Private Saltwater Disposal Well – Bitterroot #1 SWD
Surface Hole: 682' FNL & 568' FEL
SESE Section 21, T26N, R56E MPM, Richland County, MT
Bottom Hole: 1444' FNL & 568' FEL
SENE Section 28, T26N, R56E MPM, Richland County, MT

This letter is to advise you that Continental Resources, Inc. (Continental) plans to drill and complete the Bitterroot #1 SWD well as a Class II saltwater disposal well, into the Dakota formation, for the purpose of disposal operations.

In accordance with the rules and regulations of the Montana Board of Oil & Gas Conservation (MBOGC), Continental is required to give notice that it is submitting an application to perform this work, to surface owners within a one-quarter mile radius of the injection site. The MBOGC will conduct a hearing regarding this application on October 15, 2026. For hearing details, please contact the MBOGC by phone at (406) 656-0040, or visit their website at dnrc.mt.gov/BOGC. Your comments or objections regarding this application may be directed to the MBOGC at that time.

Written comments or objections may be submitted prior to the hearing at the following address:

Montana Board of Oil & Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Please direct any and all your communication regarding this proposed project to Mr. John Gizicki with MBOGC at (406) 656-0040 or to Chance Bland with Continental at (405) 234-9560.

Respectfully,

A handwritten signature in black ink that reads "Katelyn Clark". The signature is fluid and cursive, with the first name and last name clearly distinguishable.

Katelyn Clark
Regulatory Compliance Specialist – Continental Resources, Inc.



AFFIDAVIT OF MAILING

Bitterroot #1 SWD

I, Kate Henderson, hereby certify that I placed the Certification of Notification in the United States mail properly addressed to the surface owners, as shown on the attached Exhibit A, who lie within $\frac{1}{4}$ mile of the well locations. The attached exhibit includes the surface owner information, the certified tracking numbers and the dates on which the notifications were mailed.

Further Affiant saith not.

Kate Henderson, RL

(Individual Acknowledgement)

STATE OF Oklahoma)

COUNTY OF Oklahoma)

Before me, the undersigned, a Notary Public, in and for said County and State, on this 2nd day of September, 2026, personally appeared Kate Henderson to me known to be the identical person(s) who executed the within and forgoing instrument, and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and seal day and year last above written.

My Commission Expires: 5-17-2030

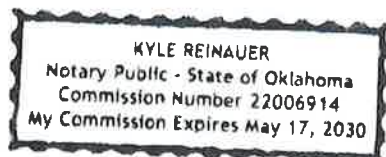

Kyle Reinauer, Notary Public

Exhibit "A"

	A	B	C	D	E	F	G	H
1	Surface Owner	C/O, Attn	Mailing Address	City	State	Zip Code	Date Letter Mailed	USPS Mail Tracking #
2	Palmer Lee Inc.		33548 County Road 144	Culbertson	MT	59218	8/27/2026	9489 0090 0027 6717 6448 30
3	Red Wing Ranch	Attn: Roger Baxter	P.O. Box 399	Chinook	MT	59523	8/27/2026	9489 0090 0027 6717 6448 54
4	USDI Bureau of Land Management	Montana State Office	5001 Southgate Drive	Billings	MT	59101	8/27/2026	9489 0090 0027 6717 6448 47

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Tracking Number:

Remove X

9489009000276717644830

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Latest Update

Your item was delivered to an individual at
the address at 11:45 am on August 31,
2026 in CULBERTSON, MT 59218.

Delivered

Delivered, Left with Individual

CULBERTSON, MT 59218
August 31, 2026 11:45 AM

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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

August 27, 2026

To: Palmer Lee Inc.
33548 County Road 144
Culbertson, MT 59218-9423

9489 0090 0027 6717 6448 30

From: Continental Resources, Inc.
20 N. Broadway
OKC, OK 73102

Re: Proposed Private Saltwater Disposal Well - Bitterroot #1 SWD
Surface Hole: 682' FNL & 568' FEL
SESE Section 21, T26N, R56E MPM, Richland County, MT
Bottom Hole: 1444' FNL & 568' FEL
SENE Section 28, T26N, R56E MPM, Richland County, MT

This letter is to advise you that Continental Resources, Inc. (Continental) plans to drill and complete the Bitterroot #1 SWD well as a Class II saltwater disposal well, into the Dakota formation, for the purpose of disposal operations.

In accordance with the rules and regulations of the Montana Board of Oil & Gas Conservation (MBOGC), Continental is required to give notice that it is submitting an application to perform this work, to surface owners within a one-quarter mile radius of the injection site. The MBOGC will conduct a hearing regarding this application on October 15, 2026. For hearing details, please contact the MBOGC by phone at (406) 656-0040, or visit their website at dnrc.mt.gov/BOGC. Your comments or objections regarding this application may be directed to the MBOGC at that time.

Written comments or objections may be submitted prior to the hearing at the following address:

Montana Board of Oil & Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Please direct any and all your communication regarding this proposed project to Mr. John Gizicki with MBOGC at (406) 656-0040 or to Chance Bland with Continental at (405) 234-9560.

Respectfully,

Katelyn Clark
Regulatory Compliance Specialist - Continental Resources, Inc.

Continental Services	Package ID: 246806800627671764820	Electronic Return Receipt
	Destination ZIP Code: 59218	Postmark: Letter
	Customs Preference	
	Recipient Address:	ESF Account # 59870112 Serial # 8033300 Aug 27 2026 12:36 PM

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Latest Update

Your item was picked up at the post office at 2:35 pm on August 31, 2026 in CHINOOK, MT 59523.

Delivered

Delivered, Individual Picked Up at Post Office

CHINOOK, MT 59523
August 31, 2026 2:35 PM

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Track Another Package





CERTIFIED MAIL
RETURN RECEIPT REQUESTED

August 27, 2026

To: Red Wing Ranch
Attn: Roger Baxter
P.O. Box 399
Chinook, MT 59523-0399

9489 0090 0027 6717 6448 54

From: Continental Resources, Inc.
20 N. Broadway
OKC, OK 73102

Re: Proposed Private Saltwater Disposal Well -- Bitterroot #1 SWD
Surface Hole: 682' FNL & 568' FEL
SESE Section 21, T26N, R56E MPM, Richland County, MT
Bottom Hole: 1444' FNL & 568' FEL
SENE Section 28, T26N, R56E MPM, Richland County, MT

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Written comments or objections may be submitted prior to the hearing at the following address:

Montana Board of Oil & Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Please direct any and all your communication regarding this proposed project to Mr. John Gizicki with MBOGC at (406) 656-0040 or to Chance Bland with Continental at (405) 234-9560.

Respectfully,

Katelyn Clark

Continental Resources Services	Package ID: 9489009000276717644854	Electronic Return Receipt
	Destination ZIP Code: 0399	First Class Letter
	Customer Reference	
	Recipient Address	
		PBT Account # 50870112
		Service # 2001300
		AUG 27 2026 12:07 PM

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Tracking Number:

Remove X

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Add to Informed Delivery

Latest Update

Your item was delivered to an individual at
the address at 11:29 am on August 31,
2026 in BILLINGS, MT 59101.

Delivered

Delivered, Left with Individual

BILLINGS, MT 59101
August 31, 2026 11:29 AM

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Product Information



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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

August 27, 2026

To: USDI Bureau of Land Management
Montana State Office
5001 Southgate Drive
Billings, MT 59101-4669

9489 0090 0027 6717 6448 47

From: Continental Resources, Inc.
20 N. Broadway
OKC, OK 73102

Re: Proposed Private Saltwater Disposal Well - Bitterroot #1 SWD
Surface Hole: 682' FNL & 568' FEL
SESE Section 21, T26N, R56E MPM, Richland County, MT
Bottom Hole: 1444' FNL & 568' FEL
SENE Section 28, T26N, R56E MPM, Richland County, MT

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In accordance with the rules and regulations of the Montana Board of Oil & Gas Conservation (MBOGC), Continental is required to give notice that it is submitting an application to perform this work, to surface owners within a one-quarter mile radius of the injection site. The MBOGC will conduct a hearing regarding this application on October 15, 2026. For hearing details, please contact the MBOGC by phone at (406) 656-0040, or visit their website at dnrc.mt.gov/BOGC. Your comments or objections regarding this application may be directed to the MBOGC at that time.

Written comments or objections may be submitted prior to the hearing at the following address:

Montana Board of Oil & Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Please direct any and all your communication regarding this proposed project to Mr. John Gizicki with MBOGC at (406) 656-0040 or to Chance Bland with Continental at (405) 234-9560.

Respectfully,

Katelyn Clark

Confirmation Services	Package ID: 9489009000276717644847	Electronic Return Receipt
	Destination ZIP Code: 59101	First Class Letter
	Recipient:	PSF Account #: 50870112
	Address:	Serial #: 8033300
		AUG 27 2026 12:07 PM



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

August 24, 2026

To: Lease Owner
Address
City, State Zip

From: Continental Resources, Inc.
20 N. Broadway
OKC, OK 73102

Re: Proposed Private Saltwater Disposal Well – Bitterroot #1 SWD
Surface Hole: 682' FNL & 568' FEL
SESE Section 21, T26N, R56E MPM, Richland County, MT
Bottom Hole: 1444' FNL & 568' FEL
SENE Section 28, T26N, R56E MPM, Richland County, MT

This letter is to advise you that Continental Resources, Inc. (Continental) plans to drill and complete the Bitterroot #1 SWD well as a Class II saltwater disposal well, into the Dakota formation, for the purpose of disposal operations.

In accordance with the rules and regulations of the Montana Board of Oil & Gas Conservation (MBOGC), Continental is required to give notice that it is submitting an application to perform this work, to lease owners within a one-quarter mile radius of the injection site. The MBOGC will conduct a hearing regarding this application on October 15, 2026. For hearing details, please contact the MBOGC by phone at (406) 656-0040, or visit their website at dnrc.mt.gov/BOGC. Your comments or objections regarding this application may be directed to the MBOGC at that time.

Written comments or objections may be submitted prior to the hearing at the following address:

Montana Board of Oil & Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Please direct any and all your communication regarding this proposed project to Mr. John Gizicki with MBOGC at (406) 656-0040 or to Chance Bland with Continental at (405) 234-9560.

Respectfully,

A handwritten signature in black ink that reads "Katelyn Clark". The signature is fluid and cursive.

Katelyn Clark
Regulatory Compliance Specialist – Continental Resources, Inc.

405.234.9000 www.clr.com

RE: AFFIDAVIT OF MAILING – BITTERROOT #1 SWD

DATE: September 8, 2026

AFFIDAVIT OF Blaine Dutchik

ON BEHALF OF CONTINENTAL RESOURCES, INC.

Blaine Dutchik, being of lawful age, hereby declares under penalty of perjury that the following statements are true and correct to the best of my knowledge, information, and belief:

1. I am employed by Continental Resources, Inc. ("CLR") as a Senior Landman. I am authorized to make this Affidavit on behalf of CLR.
2. CLR respectfully acknowledges that Certification of Notification were mailed properly on August 31, 2026, to the addresses of the leasehold owners and unleased mineral owners who lie within ¼ mile of the Bitterroot #1 SWD location.
3. CLR respectfully acknowledges that an attached exhibit includes the leasehold owners and unleased mineral owners information and the dates on which the notifications were mailed.

Bitterroot #1 SWD
SESE Section 21, Township 26 North, Range 56 East
Richland County, MT

FURTHER affiant sayeth not.



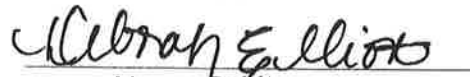

Blaine Dutchik
Senior Landman

STATE OF OKLAHOMA)

) ss:

COUNTY OF OKLAHOMA)

On the 8th day of September 2026, before me, a Notary Public in and for said County and State, personally appeared Blaine Dutchik, known to me to be the Senior Landman of Continental Resources, Inc. ("CLR"), and executed the above instrument on behalf of CLR.


Notary Public

My Commission Expires: 7/24/2029 Commission No: #25008743

Owners	Full Address	Owner Type	County
Herbaly Exploration, LLC	1832 W. Cape Cod Way Littleton, CO 80120	Leasehold Owner	Richland
Heritage Energy, LLC	2448 E. 81st Street, Suite 3600 Tulsa, OK 74137	Leasehold Owner	Richland
Wolf Point Resources, LLC	5950 Berkshire Lane, Suite 1200 Dallas, TX 75225	Leasehold Owner	Richland
R2 D1 BAKKEN II, LLC	910 LOUISIANA ST, STE 4010 HOUSTON TX 77002	Leasehold Owner	Richland
Phoenix Energy One, LLC	18575 Jamboree Road, Suite 830 Irvine, CA 92612	Leasehold Owner	Richland
Purified Resource Partners, LLC	P.O. Box 77 Sidney, MT 59270	Leasehold Owner	Richland
Purified Resource Partners, LLC	4605 North Chelsea Lane Bethesda, MD 20814	Leasehold Owner	Richland
Shootin Blanks, Inc.	5885 Creamer Creek Road La Grange, TX 78945	Leasehold Owner	Richland
Kirby L. Dasinger	P.O. Box 77 Sidney, MT 59270	Unleased Mineral Owner	Richland
Uinta Petroleum, Inc	P.O. Box 1448 Sidney, MT 59270	Unleased Mineral Owner	Richland
Uinta Petroleum, Inc	PO Box 1208 Laramie, WY 82073	Unleased Mineral Owner	Richland
Elco Resources, Inc	P.O. Box 1448 Sidney, MT 59270	Unleased Mineral Owner	Richland
Patrick L. Elliott	P.O. Box 1448 Sidney, MT 59270	Unleased Mineral Owner	Richland

BITTERROOT #1 SWD
OVERVIEW

Bitterroot #1 SWD
Sec 21 T26N R56E
Richland County, MT

The Bitterroot #1 SWD is proposed to be drilled and completed as a horizontal disposal well in the Dakota Group interval in Richland County, Montana. Continental Resources, Inc. is submitting this Aquifer Exemption request to supplement the Disposal Application for the October 15, 2026 Montana Board of Oil & Gas hearing. Although the Dakota Group TDS is anticipated to be above the 10,000 mg/L required level, the closest available Dakota Group water analysis is 12.75 miles away. Upon successful drilling of the Bitterroot #1 SWD, the Dakota Group will be perforated and a swab test of the reservoir fluids will be obtained to verify the TDS of the Dakota Group in Bitterroot #1 SWD. Those results will be communicated to Montana Board of Oil & Gas for final processing of the Aquifer Exemption.

The Bitterroot #1 SWD Aquifer Exemption request contains the following data and information as required in Environmental Protection Agency (EPA) UIC Guidance 34:

- Area of Review Overview
 - Plat of the proposed Bitterroot #1 SWD
 - Plat including producing wells within the AOR
 - Plat including fresh water wells within the AOR
- Narrative Description of the Proposed Exempted Aquifer and Proposed Operations
 - Bitterroot #1 SWD wellbore diagram
 - Representative offset Dakota Group log
 - Mike Jr SWD water analysis
- Pore Volume Calculation
- Justification and Option Review
 - Option #1 Dakota Group Deep USDW FW Well Cost Estimate
 - Option #1 Fox Hills FW Well Cost Estimate
- Notification to Surface Owners and Mineral Owners
- Affidavit of Notification to Surface Owners and Mineral Owners

BITTERROOT #1 SWD
AREA OF REVIEW OVERVIEW

Plat Map showing boundaries of the exempted aquifer. The Environmental Protection Agency (EPA), in UIC guidance 34, defined the minimum data set needed for aquifer exemptions. These will include at least all oil and gas boreholes within the area, all public and private water wells within the area and at least ¼ mile beyond the boundary any existing wellhead protection areas, and the locations of all relevant water samples. The following documents have been included as support of this application:

- A plat of the proposed Bitterroot #1 SWD
- A plat of the AOR detailing producing wells within the ¼ mile AOR and the expanded ½ mile AOR
- A plat of the AOR detailing fresh water wells within the ¼ mile AOR and the expanded ½ mile AOR

There are not any water samples within the ½ mile radius. The water sample for the Dakota formation is included in with the Narrative Description of the Proposed Exempted Aquifer portion of this application.

There are no oil producing wells in the ¼ mile AOR or the ½ mile expanded AOR.

There are no Dakota Group water wells in the ¼ mile AOR or the ½ mile expanded AOR.

BITTERROOT #1 SWD LOCATION

Surface Location

682' FSL 568' FEL

SESE Sec 21 T26N R56E

Latitude: 47.985298° Longitude: -104.485066°

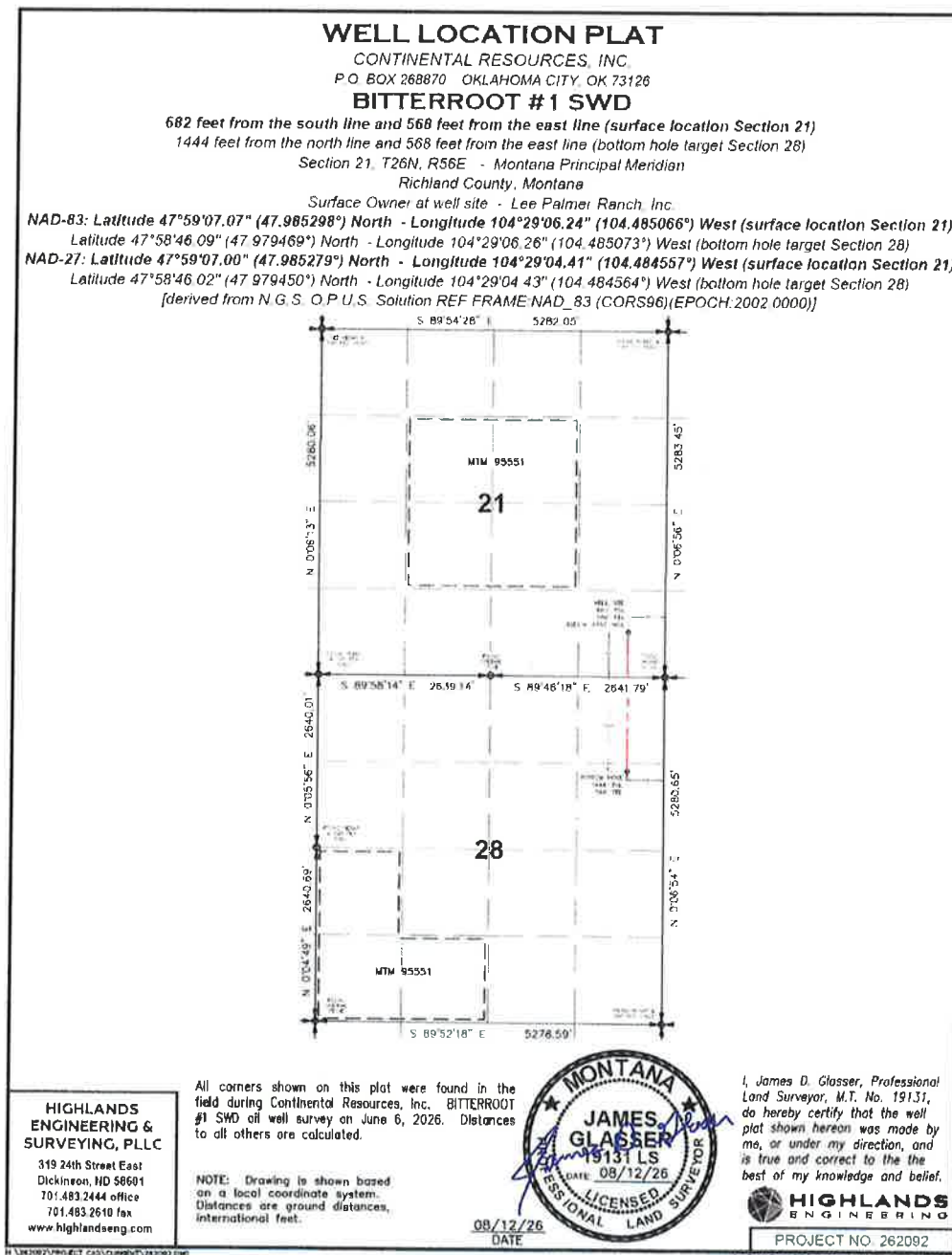
Bottom Hole Target

1,444' FNL 568' FEL

NENE Sec 28 T26N R56E

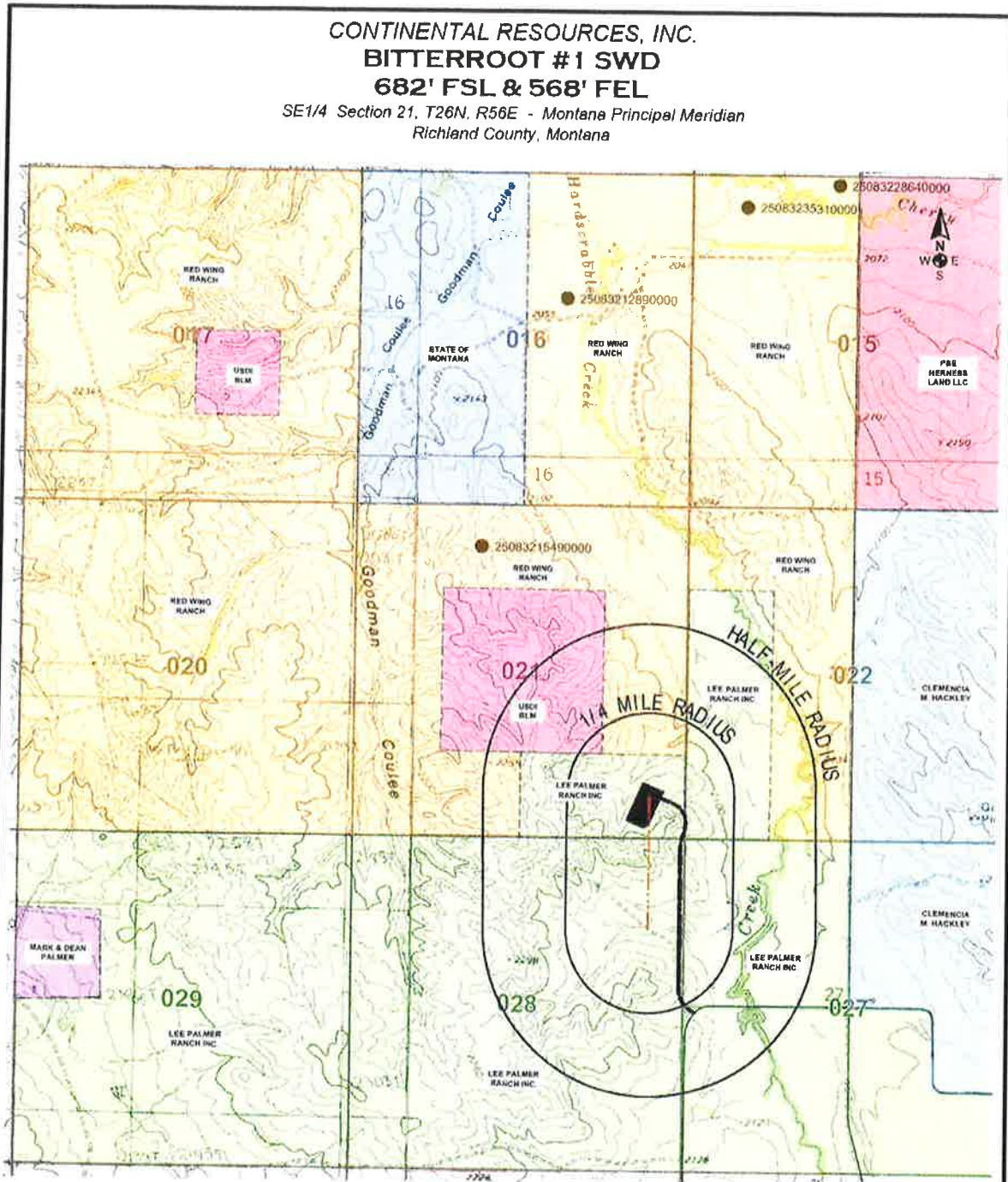
Latitude: 47.979469° Longitude: -104.485073°

Richland County, Montana



BITTERROOT #1 REVIEW OF PRODUCING WELLS WITHIN AOR

There are no producing wells within the Bitterroot #1 SWD ¼ mile AOR.



NO OIL WELLS ARE LOCATED WITHIN 1/2-MILE OR
1/4-MILE OF THE NEAREST PROJECTED WELL HOLE.

HIGHLANDS
ENGINEERING
OFFICE 701.483.2444
WWW.HIGHLANDSENG.COM

SHEET NAME:
OIL WELLS MAP

DATE:
08/19/26

DRAWN BY:
JSY

SCALE:
1"=2000'

PROJ. NO.
282082

SHEET NO.
11 of 16

H:\282082\PROJECT CAD\CURRENT\282082_GW.DWG

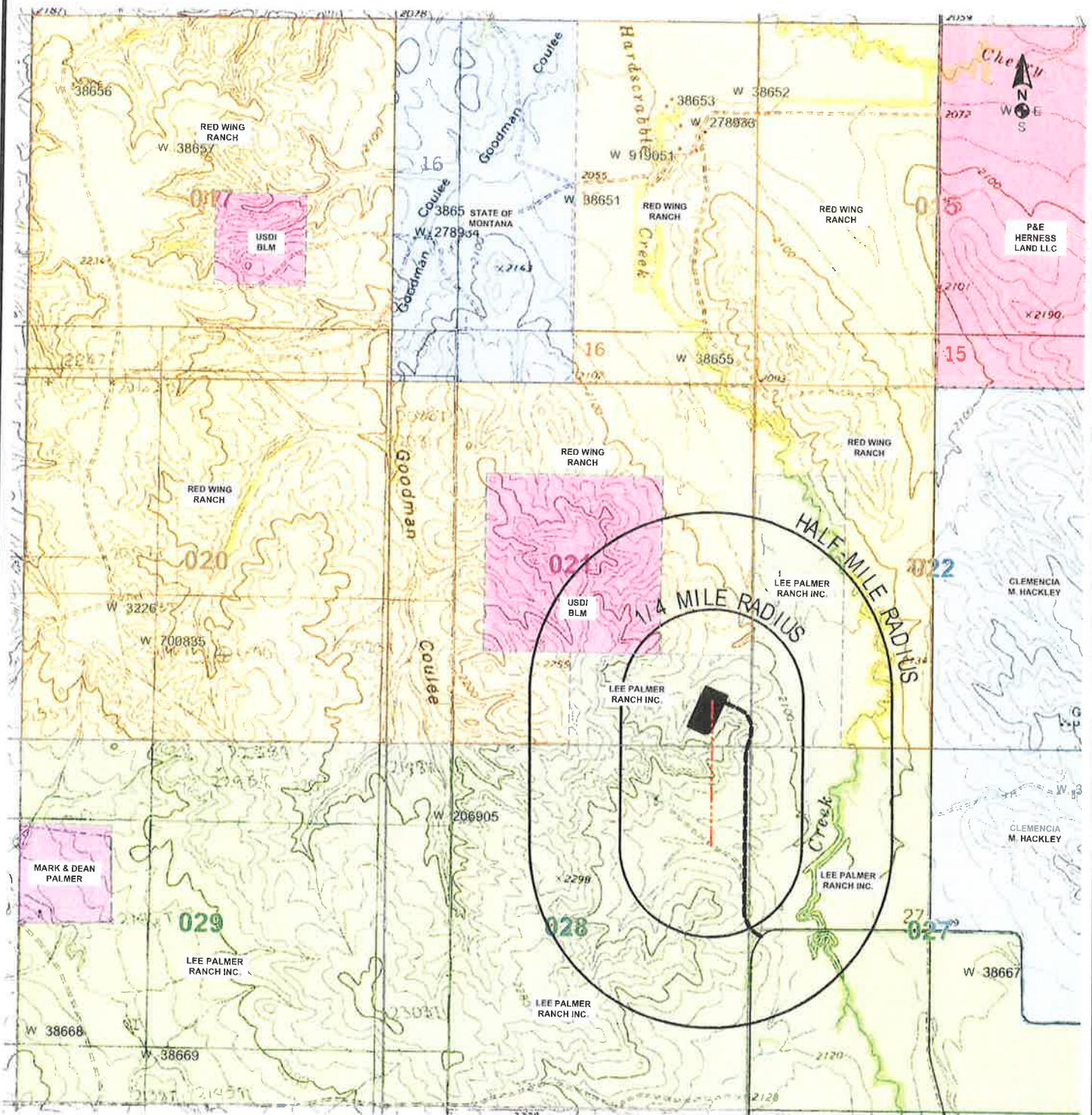
LAST SAVED: 08/19/2026 11:48 AM BY: JORDI.YORK

CONTINENTAL RESOURCES, INC.

BITTERROOT #1 SWD

682' FSL & 568' FEL

SE1/4 Section 21, T26N, R56E - Montana Principal Meridian
Richland County, Montana



NO WATER WELLS ARE LOCATED WITHIN 1/2-MILE OR
1/4-MILE OF THE NEAREST PROJECTED WELL HOLE.

LEGEND

PROPOSED ACCESS ———
EXISTING ROAD ———
WATER WELL (W)

HIGHLANDS
ENGINEERING
OFFICE: 701.483.2444
WWW.HIGHLANDSENG.COM

SHEET NAME: WATER WELLS MAP	DATE: 08/19/26	DRAWN BY: JSY	SCALE: 1"=2000'	PROJ. NO. 262092	SHEET NO. 10 of 16
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H:\262092\PROJECT CAD\CURRENT\262092_QM.DWG

LAST SAVED: 08/19/2026 11:46 AM BY JOHN YORK

BITTERROOT #1 SWD
AQUIFER NARRATIVE DESCRIPTION AND PROPOSED OPERATIONS

The Bitterroot #1 SWD is proposed to be completed to the Dakota Group formation. Water quality data for the proposed disposal interval is not available in the immediate area; however, a reasonably representative water analysis for the Kraken Operating, LLC. Mike Jr SWD has been included with this application. The Mike Jr SWD had a total dissolved solids of 45,300 mg/L. The samples for the Mike Jr SWD were acquired by swab testing the interval and performing lab testing. The Bitterroot #1 SWD is expected to encounter similar TDS.

The Bitterroot #1 SWD has a proposed injection lateral length of 1,553' as indicated on the included wellbore diagram. The well will be drilled and completed with a horizontal lateral in the Dakota Group. A representative log of injection interval and surrounding formations has been included with this application.

The depth and net interval thickness of the proposed injection interval are estimates from the BAXTER 21-21 API: 2508321549.

Formation	Lithology	Top (ft)	Bottom (ft)	Net Pay (ft)	Pressure (psi)	Porosity
Dakota Group	sandstone	5,036	5,655	619	2,260	20%

The confining formations for the proposed injection zones are the Mowry for the upper confinement and the Swift for the lower confinement. The actual fracture gradients for these confining zones are unknown, but fracture gradients for the confining shale layers are expected to be higher than those for the underlying limestone injection zone.

Formation	Lithology	Top (ft)	Bottom (ft)	Thickness (ft)	Comment
Mowry	Shale/siltstone	4,645	5,036	391	Upper confining interval
Swift	Shale/siltstone	5,655	6,077	422	Lower confining interval

The Mowry Formation serves as the upper confining interval, and the Swift Formation serves as the lower confining interval for the proposed Inyan Kara injection zone. The Mowry consists predominantly of marine shale and siliceous siltstone with common bentonitic and clay-rich intervals. The Swift is composed primarily of shale and siltstone, including thick fissile to waxy shale intervals, with subordinate glauconitic sandstone and minor carbonate beds. The Mowry is 391' thick and the Swift is 422' thick in the project area.

Formation-specific fracture gradients have not been measured for the Mowry or Swift. However, the shale-rich character and substantial thickness of both formations are expected to provide effective vertical confinement, and their fracture gradients are anticipated to be higher than that of the more porous and permeable Inyan Kara sandstone injection interval.

Considering the thickness of the upper confining interval, the vertical separation between the proposed injection zone and identified USDWs, and the requirement to maintain injection pressures below the approved maximum, the likelihood of a fracture propagating upward from the injection interval through the Mowry Formation to a USDW is considered low under anticipated operating conditions.

Continental Resources

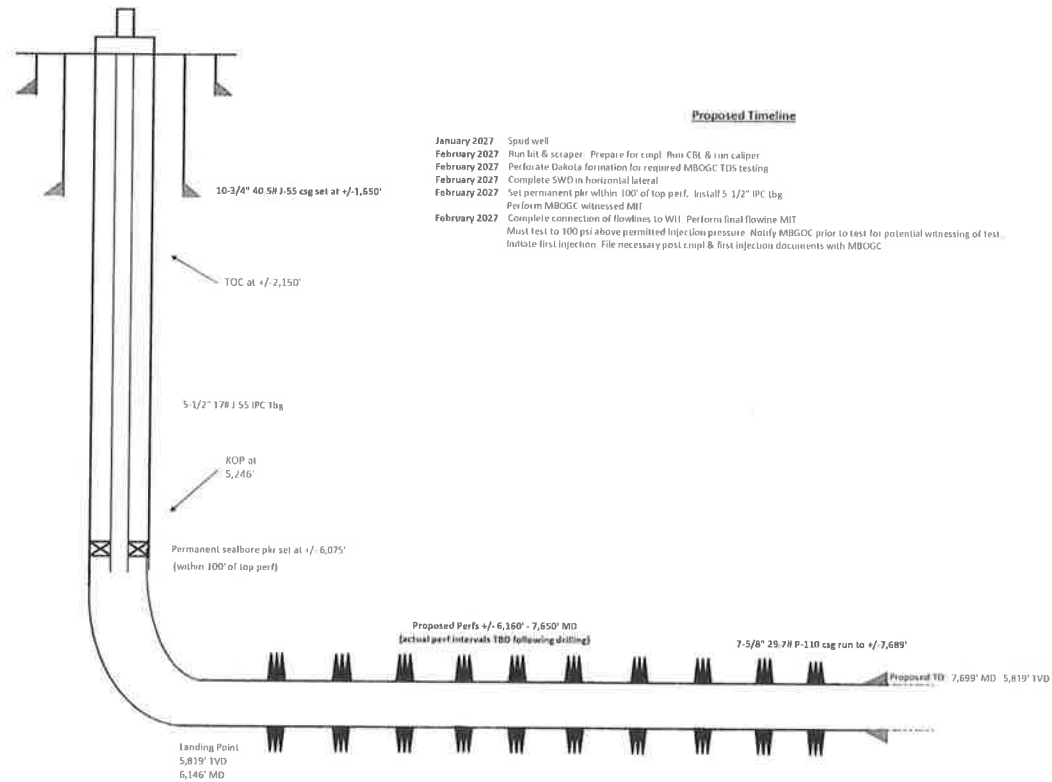
BITTERROOT #1 SWD

SE SE Sec 21 T26N R56E

Richland County, MT

API #to be assigned

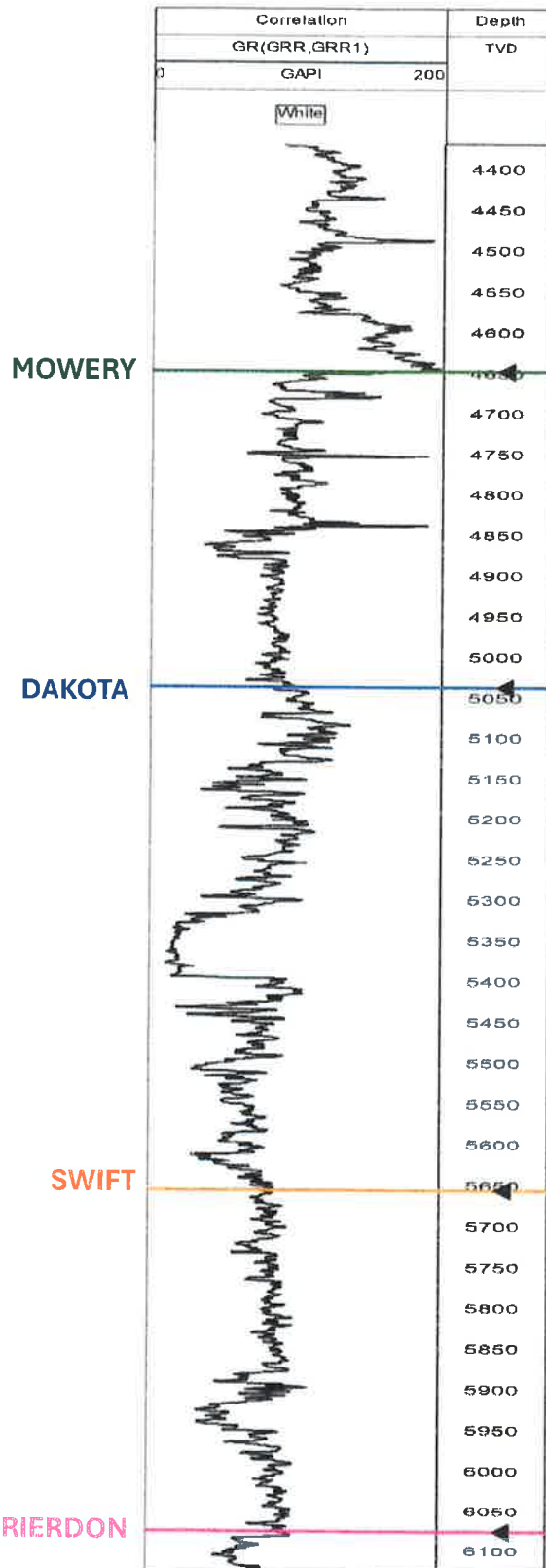
Proposed WBD



BITTERROOT #1 SWD REPRESENTATIVE LOG

BAXTER 21-21

API: 2508321549





March 10, 2025

Christina Jungels
Astro-Chem Lab, Inc.
4102 2nd Ave. W.
Williston, ND 58801

RE: Project: Kraken Operating, LLC
Pace Project No.: 10724536

Dear Christina Jungels:

Enclosed are the analytical results for sample(s) received by the laboratory on February 25, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrea Richardson

Andrea Richardson
andrea.richardson@pacelabs.com
(218)341-6080
Project Manager

Enclosures

cc: Accounts Payable, Astro-Chem Lab, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Kraken Operating, LLC

Pace Project No.: 10724536

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

DoD Certification via A2LA #: 2926.01

EPA Region 8 Tribal Water Systems+Wyoming DW

Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

ISO/IEC 17025 Certification via A2LA #: 2926.01

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification via A2LA #: 2926.01

USDA Permit #: P330-19-00208

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

California Certification# 3096

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #: ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

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Pace Analytical Services, LLC

1700 Elm Street

Minneapolis, MN 55414

(612)607-1700

CERTIFICATIONS

Project: Kraken Operating, LLC

Pace Project No.: 10724536

Pace Analytical Services Ormond Beach

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Utah

Utah FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

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Pace Analytical Services, LLC

1700 Elm Street

Minneapolis, MN 55414

(612)607-1700

SAMPLE SUMMARY

Project: Kraken Operating, LLC

Pace Project No.: 10724536

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10724536001	Mike Jr. SWD 0540	Water	02/19/25 10:00	02/25/25 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Kraken Operating, LLC
Pace Project No.: 10724536

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10724536001	Mike Jr. SWD 0540	EPA 6010D	IP	9	PASI-M
		SM 2320B	JKH	3	PASI-M
		SM 2540C	AMC2	1	PASI-M
		SM 4500-H+B	KEO	1	PASI-M
		EPA 120.1 Resistivity	SWB	1	PASI-O
		SM 2510	KEO	1	PASI-M
		ASTM D5057	AMC2	1	PASI-M
		EPA 300.0	AR3	2	PASI-M
		EPA 353.2	JFP	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis
PASI-O = Pace Analytical Services - Ormond Beach

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ANALYTICAL RESULTS

Project: Kraken Operating, LLC

Pace Project No.: 10724536

Sample: Mike Jr. SWD 0540		Lab ID: 10724536001		Collected: 02/19/25 10:00		Received: 02/25/25 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis							
Barium	2420	ug/L	50.0	5	02/26/25 09:48	03/02/25 13:51	7440-39-3	D3	
Calcium	1740000	ug/L	2500	5	02/26/25 09:48	03/02/25 13:51	7440-70-2		
Chromium	ND	ug/L	50.0	5	02/26/25 09:48	03/02/25 13:51	7440-47-3		
Iron	130000	ug/L	250	5	02/26/25 09:48	03/02/25 13:51	7439-89-6		
Magnesium	153000	ug/L	2500	5	02/26/25 09:48	03/02/25 13:51	7439-95-4		
Potassium	939000	ug/L	25000	10	02/26/25 09:48	03/02/25 13:57	7440-09-7		
Sodium	11600000	ug/L	100000	100	02/26/25 09:48	03/02/25 14:06	7440-23-5		
Strontium	154000	ug/L	500	100	02/26/25 09:48	03/02/25 14:06	7440-24-6		
Zinc	2200	ug/L	100	5	02/26/25 09:48	03/02/25 13:51	7440-66-6		
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Minneapolis							
Alkalinity, Total as CaCO3	742	mg/L	5.0	1		02/26/25 22:43			
Alkalinity,Bicarbonate (CaCO3)	742	mg/L	5.0	1		02/26/25 22:43			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		02/26/25 22:43			
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	45300	mg/L	2500	1		02/26/25 15:19			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Minneapolis							
pH at 25 Degrees C	6.6	Std. Units	0.10	1		02/27/25 22:41		H6	
Resistivity		Analytical Method: EPA 120.1 Resistivity Pace Analytical Services - Ormond Beach							
Resistivity	6.8	ohms-cm	0.50	1		03/05/25 14:04		N2	
SM2510 Specific Conductance		Analytical Method: SM 2510 Pace Analytical Services - Minneapolis							
Specific Conductance	64800	umhos/cm	5.0	1		03/04/25 10:54			
Specific Gravity		Analytical Method: ASTM D5057 Pace Analytical Services - Minneapolis							
Specific Gravity	1.03			1		03/08/25 18:05		N2	
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Chloride	24800	mg/L	300	250		02/28/25 23:31	16887-00-6		
Fluoride	ND	mg/L	5.0	100		03/01/25 14:39	16984-48-8		
353.2 Nitrate + Nitrite		Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		03/02/25 12:04			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kraken Operating, LLC

Pace Project No.: 10724536

QC Batch: 993704

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D Water

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10724536001

METHOD BLANK: 5184055

Matrix: Water

Associated Lab Samples: 10724536001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	03/02/25 13:27	
Calcium	ug/L	ND	500	03/02/25 13:27	
Chromium	ug/L	ND	10.0	03/02/25 13:27	
Iron	ug/L	ND	50.0	03/02/25 13:27	
Magnesium	ug/L	ND	500	03/02/25 13:27	
Potassium	ug/L	ND	2500	03/02/25 13:27	
Sodium	ug/L	ND	1000	03/02/25 13:27	
Strontium	ug/L	ND	5.0	03/02/25 13:27	
Zinc	ug/L	ND	20.0	03/02/25 13:27	

LABORATORY CONTROL SAMPLE: 5184056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1020	102	80-120	
Calcium	ug/L	20000	19100	95	80-120	
Chromium	ug/L	1000	1010	101	80-120	
Iron	ug/L	20000	20100	101	80-120	
Magnesium	ug/L	20000	19400	97	80-120	
Potassium	ug/L	20000	19100	96	80-120	
Sodium	ug/L	20000	18500	92	80-120	
Strontium	ug/L	1000	1030	103	80-120	
Zinc	ug/L	1000	995	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5184057 5184058

Parameter	Units	10724331001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Barium	ug/L	74.7	1000	1000	1050	1120	97	105	75-125	7	20
Calcium	ug/L	37200	20000	20000	53200	56000	80	94	75-125	5	20
Chromium	ug/L	11.0	1000	1000	978	1050	97	104	75-125	7	20
Iron	ug/L	12700	20000	20000	30800	32500	90	99	75-125	6	20
Magnesium	ug/L	14500	20000	20000	32700	34700	91	101	75-125	6	20
Potassium	ug/L	2910	20000	20000	21900	23300	95	102	75-125	6	20
Sodium	ug/L	50200	20000	20000	64400	67300	71	86	75-125	4	20 M1
Strontium	ug/L	195	1000	1000	1160	1240	96	104	75-125	7	20
Zinc	ug/L	258	1000	1000	1170	1250	91	99	75-125	7	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kraken Operating, LLC

Pace Project No.: 10724536

QC Batch: 993880

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10724536001

METHOD BLANK: 5184724

Matrix: Water

Associated Lab Samples: 10724536001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	02/26/25 20:04	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	02/26/25 20:04	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	02/26/25 20:04	

LABORATORY CONTROL SAMPLE & LCSD: 5184725

5184726

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	40	43.2	43.4	108	108	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5184727

5184728

Parameter	Units	10724701001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	31.5	40	40	77.2	77.2	114	114	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5184729

5184730

Parameter	Units	10724349004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	871	40	100	946	970	186	99	80-120	3	20	P6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kraken Operating, LLC

Pace Project No.: 10724536

QC Batch: 993759

QC Batch Method: SM 2540C

Analysis Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10724536001

METHOD BLANK: 5184214

Matrix: Water

Associated Lab Samples: 10724536001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/26/25 15:18	

LABORATORY CONTROL SAMPLE: 5184215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1080	108	80-120	

SAMPLE DUPLICATE: 5184216

Parameter	Units	10724349004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	907	892	2	10	

SAMPLE DUPLICATE: 5184217

Parameter	Units	10724349005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	940	942	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kraken Operating, LLC

Pace Project No.: 10724536

QC Batch: 993676

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10724536001

LABORATORY CONTROL SAMPLE: 5183970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.0	100	98-102	H6

SAMPLE DUPLICATE: 5183971

Parameter	Units	10724499001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.7	6.6	1	3	H6

SAMPLE DUPLICATE: 5183972

Parameter	Units	10724499002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	3	H6

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QUALITY CONTROL DATA

Project: Kraken Operating, LLC

Pace Project No.: 10724536

QC Batch: 994500
QC Batch Method: SM 2510Analysis Method: SM 2510
Analysis Description: SM2510 Specific Conductance
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10724536001

METHOD BLANK: 5187858

Matrix: Water

Associated Lab Samples: 10724536001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	5.0	03/04/25 10:45	

LABORATORY CONTROL SAMPLE: 5187859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	962	96	90-110	

SAMPLE DUPLICATE: 5187860

Parameter	Units	10724509001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1570	1490	5	20	

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QUALITY CONTROL DATA

Project: Kraken Operating, LLC
Pace Project No.: 10724536

QC Batch:	995296	Analysis Method:	ASTM D5057
QC Batch Method:	ASTM D5057	Analysis Description:	Spec.Gravity/ASTM D5057
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10724536001

SAMPLE DUPLICATE: 5192765

Parameter	Units	10724536001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Gravity		1.03	1.03	0	20	N2

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QUALITY CONTROL DATA

Project: Kraken Operating, LLC

Pace Project No.: 10724536

QC Batch: 994223

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10724536001

METHOD BLANK: 5186689

Matrix: Water

Associated Lab Samples: 10724536001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.2	02/28/25 22:44	
Fluoride	mg/L	ND	0.050	02/28/25 22:44	

LABORATORY CONTROL SAMPLE: 5186690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	1	1.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5186691 5186692

Parameter	Units	10724321001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	22.7	50	50	69.3	71.0	93	97	80-120	2	20	
Fluoride	mg/L	0.39	1	1	1.4	1.4	97	101	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5186693 5186694

Parameter	Units	10724321002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	48.0	50	50	93.3	93.3	91	91	80-120	0	20	
Fluoride	mg/L	0.11	1	1	1.1	1.1	99	99	80-120	0	20	

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QUALITY CONTROL DATA

Project: Kraken Operating, LLC

Pace Project No.: 10724536

QC Batch: 994260

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10724536001

METHOD BLANK: 5187025

Matrix: Water

Associated Lab Samples: 10724536001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	03/02/25 11:50	

LABORATORY CONTROL SAMPLE: 5187026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1	1.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5187027 5187028

Parameter	Units	10724935001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	1	1	1.1	1.1	110	112	90-110	2	20	M1

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QUALIFIERS

Project: Kraken Operating, LLC
Pace Project No.: 10724536

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Kraken Operating, LLC
Pace Project No.: 10724536

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10724536001	Mike Jr. SWD 0540	EPA 3010A	993704	EPA 6010D	993864
10724536001	Mike Jr. SWD 0540	SM 2320B	993880		
10724536001	Mike Jr. SWD 0540	SM 2540C	993759		
10724536001	Mike Jr. SWD 0540	SM 4500-H+B	993676		
10724536001	Mike Jr. SWD 0540	EPA 120.1 Resistivity	1081549		
10724536001	Mike Jr. SWD 0540	SM 2510	994500		
10724536001	Mike Jr. SWD 0540	ASTM D5057	995296		
10724536001	Mike Jr. SWD 0540	EPA 300.0	994223		
10724536001	Mike Jr. SWD 0540	EPA 353.2	994260		

REPORT OF LABORATORY ANALYSIS

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ASTRO-CHEM LAB, INC. 4102 2nd Ave. W. P.O. Box 972 Williston, ND 58801 701-572-7355 www.astrochemlab.com		CHAIN OF CUSTODY Telephone No. _____ Fax No. _____ Project: Kraken Operating, LLC Project Manager: Mike Jr. SWD Project: Derek Carda		Page 1 of 1 Method of Shipment FEDEX OVERNIGHT Special Detection Limit/Ratio/Time	
Client: Kraken Operating, LLC Project: Mike Jr. SWD Project Manager: Derek Carda		Method of Shipment FEDEX OVERNIGHT Special Detection Limit/Ratio/Time			
Lab Sample No. 0540 Sample I.D. Mike Jr. SWD		Matrix Soil ☒ Water ☒ Air ☐ Other ☐			
No. of Containers 4 Sampling Date 2/24/25 Sampling Time 10:00 AM MST		Analysis Requested Ca, Mg, Na, Fe, Cu, Ba, K, Sr, Zn ☒ Chloride, Sulfate, pH, Conductivity, Resistivity, Total Dissolved Solids ☒ Specific Gravity, Alkalinity (Carbonate & Bicarbonate) ☒ Nitrate+Nitrite ☒			
Turn Around Time (working days) _____		**Preservative Types: (1) nitric acid (2) sulfuric acid (3) hydrochloric acid (4) sodium hydroxide (5) zinc acetate (6) methanol (7) sodium bisulfate (8) sodium thiosulfate (9) hexamine (A) ascorbic acid (B) ammonium sulfate (C) ammonium hydroxide (D) TSP (U) unspiked (O) Other: _____			
Container Preservative ** 1 ☐ 2 ☐ U ☐		Temperature received: 5.1 Ice ☒ No ice ☐			
Date/Time 2/24/25 10:35 AM Received by Brenda Berth		Date/Time 2/24/25 2:00 PM Received by Brenda Berth			
Date/Time 2/24/25 2:00 PM Received by Brenda Berth		Date/Time 2/25/25 8:50 Received by Brenda Berth			
Date/Time _____ Received by _____		Date/Time _____ Received by _____			

Methods for Analysis (ACL OIL WATER GUIDELINES)

Alkalinity (2320B)
 Alkalinity, Bicarbonate (CaCO₃)
 Alkalinity, Carbonate (CaCO₃)
 Alkalinity, Total as CaCO₃
 Nitrate + Nitrite (353.2)
 Nitrogen, NO₂ plus NO₃
 pH, Electrometric (4500H+B)
 8 Metals-Barium, Chromium, Iron, Zinc, Calcium, Magnesium, Sodium, Potassium (6010D MET ICP)
 Chloride & Sulfate (300.0 IC Anions)
 Resistivity (D1125-14)
 Specific Conductance (SM2510)
 Specific Gravity (ASTM D5057)
 Strontium (6020B MET ICPMS)
 Total Dissolved Solids (2540C)

ENV-FRM-MIN4-0150 v17 Sample Condition Upon Receipt

CLIENT NAME: ASTRO CHEM LAB, INC.

PROJECT #:

WO#: **10724536**

COURIER: ☐ Client ☐ Commercial ☒ FedEx ☐ Pace
☐ Speedee ☐ UPS ☐ USPS

PM: AR4 Due Date: 03/11/25

CLIENT: 11 Astro Che

TRACKING NUMBER: 7722 7671 0400 ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☐ YES ☒ NO Seals Intact: ☐ YES ☒ NO Biological Tissue Frozen: ☐ YES ☐ NO ☒ N/A
Packing Material: ☐ Bubble Bags ☐ Bubble Wrap ☐ None ☐ Other Temp Blank: ☐ YES ☐ NO Type of Ice: ☐ Blue ☐ Dry ☒ Wet
Thermometer: ☒ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235)
☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710) ☐ Melted ☐ None

Did Samples Originate in West Virginia: ☐ YES ☒ NO	Were All Container Temps taken: ☐ YES ☐ NO ☒ N/A
Correction Factor: <u>-0.1</u> Cooler Temp Read w/Temp Blank: <u>5.2</u> °C	Average Corrected Temp (no Temp Blank Only): _____ °C
NOTE: Temp should be above freezing to 6°C.	☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: ☒ N/A Water Sample/Other (describe):	Initials & Date of Person Examining Contents: <u>ZE 4/25/25</u>
Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☒ NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☒ NO
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.	

LOCATION (check one): ☐ DULUTH ☒ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)								
Chain of Custody Present and Filled Out?	☒	☐	☐	1.								
Chain of Custody Relinquished?	☒	☐	☐	2.								
Sampler Name and/or Signature on COC?	☒	☐	☐	3.								
Samples Arrived within Hold Time?	☒	☐	☐	4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No								
Short Hold Time Analysis (<72 hr)?	☒	☐	☐	5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☒ Nitrate ☒ Nitrite ☐ Ortho Phos ☐ Total coliform/E. coli ☐ Other:								
Rush Turn Around Time Requested?	☒	☐	☐	6.								
Sufficient Sample Volume?	☒	☐	☐	7.								
Correct Containers Used?	☒	☐	☐	8.								
- Pace Containers Used?	☒	☐	☐	9.								
Containers Intact?	☒	☐	☐	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO								
Field Filtered Volume Received for Dissolved Tests?	☐	☒	☐	11. If NO, write ID/Date/Time of container below: ☐ See Exceptions form ENV-FRM-MIN4-0142								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☐ Soil ☒ Water ☐ Other	☒	☐	☐	12. Sample #: <u>1-1</u> <u>1-1</u> ☒ HNO ₃ ☒ H ₂ SO ₄ ☐ NaOH ☐ Zinc Acetate Positive for Residual Chlorine: ☐ YES ☐ NO								
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS	☒	☐	☐	pH Paper Lot # <table border="1"> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> <tr> <td></td> <td><u>205224</u></td> <td></td> <td></td> </tr> </table> ☐ See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip		<u>205224</u>		
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip									
	<u>205224</u>											
NOTE: If adding preservation to the container, verify with the PM first. Clients may require adding preservative to the field and equipment blanks when this occurs.												
Headspace in Methyl Mercury Container?	☐	☐	☒	13.								
Extra labels present on soil VOA or WIDRO containers?	☐	☐	☒	14.								
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☒	☐ See Exceptions form ENV-FRM-MIN4-0140								
Trip Blanks Present?	☐	☐	☒	15.								
Trip Blank Custody Seals Present?	☐	☐	☒	Pace Trip Blank Lot # (if purchased):								

CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Anchea Buchanan Date: 2/25/25

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: ZE Line: 2

Internal Transfer Chain of Custody



Workorder: 10724536

Workorder Name: Kraken Operating, LLC

Report To

Andrea Richardson
Pace Analytical Minnesota
1700 Elm Street
Minneapolis, MN 55414
Phone (218)341-6080

☐ Rush Multiplier ☒ X

☒ Samples Pre-Logged into eCOC

State Of Origin: ND

Cert. Needed: ☒ Yes ☐ No

Owner Received Date: 2/25/2025

Results Requested By: 3/11/2025

Subcontract To

Pace Analytical Ormond Beach
8 East Tower Circle
Ormond Beach, FL 32174
Phone (386)672-5668

Requested Analysis

Preserved Containers

BP2U2/2

1

Matrix

Water

Lab ID

10724536001

Collect

Date/Time

2/19/2025 10:00

Sample Type

PS

Item

Sample ID

Mike Jr. SWD 0540

1

2

3

4

5

Resistivity

X

LAB USE ONLY

Transfers

Released By

2/25/25 12:45

Received By

2/26/25 1100

Date/Time

2/26/25

1100

Received on ice

Y or N

Y

Samples Intact

Y or N

Y

N

Cooler Temperature on Receipt

0.3°C

Custody Seal

Y or N

Y

N

Comments

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Union Receipt Form (SCUR)

PM: JMW1

CLIENT: PACMIN

Due Date: 03/10/25

WO#: 35939277

Page

Project #
Project Manager:
Client:

Date and Initials of person:

Examining contents: EAST

Verifying pH:

Initials: AJS

Thermometer Used: T-427

Date: 2/26/25

Time: 1106

State of Origin

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 0.3 (Visual) 0 (Correction Factor) 0.3 (Actual)

Cooler #2 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ Standard Overnight ☐ First Overnight ☒ Priority Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☒ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 4243/5578 1337

Custody Seal Present: ☒ Yes ☐ No Seal properly placed and intact: ☒ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted

Samples shorted to lab: ☐ Yes ☐ No (If yes, complete the following)

Shorted Date:

Bottle Quantity / Type:

Shorted Time:

Chain of Custody:

Present: ☒ Yes ☐ No | Filled Out: ☒ Yes ☐ No ☐ N/A | Sampler Name: ☐ Yes ☐ No ☒ N/A

Relinquished To Pace: ☒ Yes ☐ No ☐ N/A | Sampling Date(s): ☒ Yes ☐ No ☐ N/A | Sampling Time(s): ☒ Yes ☐ No ☐ N/A

Samples Arrived within Hold Time.

Rush Turnaround Requested on COC ☒ Yes ☐ No ☐ N/A

Sufficient Volume ☐ Yes ☒ No ☐ N/A

Correct Containers Used ☒ Yes ☐ No ☐ N/A

Containers Intact ☒ Yes ☐ No ☐ N/A

Sample Labels Match COC (Sample ID, Date/Time of Collection) ☒ Yes ☐ No ☐ N/A

All containers needing acid / base preservation have been checked ☐ Yes ☒ No ☐ N/A

All containers needing preservation are found to be in compliance with EPA recommendation ☐ Yes ☐ No ☒ N/A

Exceptions: Vials, Microbiology, O&G, PFAS

Headspace in Volatile Vials? ($>6\text{mm}$) ☐ Yes ☐ No ☒ N/A

Top Blank Present: ☐ Yes ☐ No ☒ N/A

Comments / Resolutions (use back for additional comments):

* "0.540" matched by IR label

Comments:

Comments:

Comments:

Comments:

Comments:

Comments:

No collection date/time on container, sample ID is *

Preservation Information

Preservative:

Date:

Lot / Trace:

Time:

Amount added (mL):

Initials:

Labeled by: EAST

Reviewed by: AJS

Delivered by: MA

BITTERROOT #1 SWD PORE VOLUME CALCULATION

Bitterroot #1 SWD

Sec 21 T26N R56E

Richland County, MT

Area of the buffered lateral:

$$A = (2 \times r \times L) + \pi r^2$$

Where:

- r = exemption distance = 1,320 ft
- L = horizontal (plan-view) length of the injection interval (ft)
- h = average injection-zone thickness (ft)
- f = average porosity (decimal)

Pore Volume (barrels):

$$PV = [(2rL + \pi r^2) \times h \times \phi] / 5.63$$

Calculation

Given:

- $r = 1,320$ ft
- $L = 1,553$ ft
- $h = 80$ ft
- $\phi = 20\%$

$$\text{Area} = (2 \times 1320 \times 1,553) + \pi (1320^2) \approx 9.574 \text{ million ft}^2$$

$$\text{Reservoir volume} = 9.574 \times 80' \approx 765.9 \text{ billion ft}^3$$

$$\text{Pore volume} = 765.9 \times 20\% \approx 153.18 \text{ million ft}^3$$

Convert to barrels:

$$153.18 \text{ million} \div 5.63 \approx 27.2 \text{ million barrels}$$

Final Result:

The pore volume within a 1,320-foot buffer surrounding a 1,553 -foot lateral **≈ 27.2 million barrels.**

BITTERROOT #1 SWD
EXEMPTED AQUIFER OPTION REVIEW

The Dakota Group is being proposed for the injection zone in Bitterroot #1 SWD per the Disposal Application on the October 15, 2026 Montana Board of Oil and Gas hearing. This Aquifer Exemption request is a supplement to that application due to the lack of available Dakota Group water analysis in close proximity to the proposed location.

The Dakota Group interval does not currently, nor is ever, anticipated to serve as a source of drinking water within the area. This statement is based on several factors including, but not limited to, overall reservoir water quality, depth to the Dakota Group, and regional availability of more economically and practical fresh water sources.

Although a Dakota Group water analysis is not available for the immediate area near the applicant location, a lab analysis has been included with this request for the Kraken Operating, LLC. Mike Jr 1-H SWD. The Mike Jr 1-H SWD is located in sec 15 of T25N R58E of Richland County, Montana. This location is approximately 12.75 miles from the proposed Bitterroot #1 SWD location. The swab sample was taken 02/19/2025. The TDS reported for this Dakota Group sample is 45,300 mg/L.

Based on data from numerous published sources, two aquifers in the area meet the criteria of a USDW. These are shallow alluvium associated with larger streams and the Missouri River and the Upper Cretaceous Fox Hills Hell Creek sandstone aquifer. Neither of these would be affected by injection at the proposed location. There are no water wells producing from any zones located within the one quarter mile area of review. There also are not any water wells producing from any zones located within an expanded ½ mile around area surrounding the proposed well. There are no water supply wells penetrating the Dakota formation within ½ mile area surrounding the Bitterroot #1 SWD proposed location which is specifically requested information per 36.22.1418(1)(a). The Fox Hills is found at a depth of approximately 1,300' in the area surrounding the Bitterroot #1 SWD proposed location.

The Dakota is not used as a USDW in this area due to the existence of shallower freshwater aquifers. As a comparison to and based on recent drilling information from 180 Water Pumps & Service out of Helena, MT, the cost to drill a 1,300' water well to the Fox Hills including the pump is approximately \$95,000. A water well company would need to contract a drilling rig company to drill a Dakota well due to the depth limitations of water well drilling rigs. Based on Continental drilling data, the cost to drill a well to 5,800' Dakota well, complete, and equip the well for service would be approximately \$2,255,347. The applicant estimates the cost of drilling a well into the Dakota formation to be over 24 times the cost of drilling a well to the Fox Hills. Additionally, the cost of treating the Dakota water would greatly exceed the cost of treating the Fox Hills water.

BITTERROOT #1 SWD
OPTION 1 DAKOTA GROUP FRESH WATER WELL AFE

Based on Continental drilling data, the cost to drill a well to 5,800' Dakota well, complete, and equip the well for service would be approximately \$2,277,614. The applicant estimates the cost of drilling a well into the Dakota formation to be over 24 times the cost of drilling a well to the Fox Hills. Additionally, the cost of treating the Dakota water would greatly exceed the cost of treating the Fox Hills water.

CONTINENTAL RESOURCES, INC.				
P O Box 268870 OKC, OK 73102 (405) 234-9000				
AUTHORITY FOR EXPENDITURE				
AFE No		9/2/2026	Lease Name & No	
Surface Hole Location		682 FSL 568 FEL 21 - 26N - 56E	Dakota Water Well	
Bottom Hole Location		682 FSL 568 FEL 21 - 26N - 56E	Richland County, MT	
		Formation	Target	Dakota
				1 Well Prod
Work Description		Drill and Complete horizontal SWD in the Dakota Sand		
Estimated Days		5	\$0	
INTANGIBLES		Code	Dry Hole	Completion
LEGAL & RECORDING FEES		5000010	\$50,000	\$50,000
WELL SITE DAMAGES & PREEMPTIVE PAYMENTS		5000020	\$16,667	\$16,667
BROKER - DAMAGES & ROW		5000022	\$417	\$1,200
LOCATION & ROAD CONSTRUCTION		5000030	\$20,000	\$20,000
RESTORATION / RECLAMATION - FINAL		5000031	\$9,333	\$700
LOCATION & ROAD CONST - MATERIALS		5000032	\$35,000	\$35,000
SNOW REMOVAL		5000035		\$0
RIG COSTS		5000060	\$151,000	\$15,000
RIG MOBILIZATION / DEMOBILIZATION		5000061	\$284,000	\$284,000
RIG COST - CTU		5000062		\$0
RIG COST - SNUBBING UNIT		5000064		\$10,000
FRESH WATER		5000070	\$15,000	\$15,000
BRINE WATER		5000071	\$10,000	\$10,000
STIMULATION WATER SUPERVISION		5000072		\$0
STIMULATION FLOWBACK		5000073		\$2,500
CHEMICALS - CORROSION-INHIBS/SOAP		5000090	\$38,000	\$38,000
BITS		5000100	\$22,000	\$22,000
BHA & DOWNHOLE TOOLS		5000101		\$85,000
FRAC PLUGS - COMP/DISSOLV		5000102		\$0
SURFACE RENTAL TOOLS & EQUIP		5000110	\$18,000	\$18,000
CEMENT & CASING SERVICES -		5000130	\$60,000	\$15,000
WIRELINE & PERFORATING SERVICE		5000170		\$10,000
RENTAL TANKS, PITS, LINERS		5000210	\$2,000	\$2,000
STIMULATION SERVICES		5000230		\$40,000
FUEL, DIESEL, GAS & PROPANE		5000250	\$37,000	\$37,000
DIRECTIONAL SERVICES/SURVEYS		5000280	\$55,000	\$55,000
CASING CREW		5000300	\$21,000	\$21,000
PUMPING SERVICES		5000340		\$135,000
DISPOSAL - TRANSPORT LIQUIDS		5000361	\$15,000	\$15,000
DISPOSAL - TRANSPORT SOLIDS		5000362	\$30,000	\$4,000
DISPOSAL - LABOR SOLIDS		5000363	\$5,000	\$8,000
DISPOSAL - MATERIALS, FLASH		5000364	\$7,000	\$89,462
DISPOSAL - EQUIPMENT RENTAL		5000365	\$22,000	\$3,000
FIELD OFFICE EXPENSE		5000470	\$14,000	\$14,000
FIELD OFFICE - MISCELLANEOUS SUPPLIES		5000471	\$5,000	\$10,000
CONTRACT SUPERVISION		5000500	\$24,000	\$24,000
SURF EQUIP LABOR / INSTALL		5000541		\$50,000
SURF EQUIP TRANSPORTATION		5000542		\$25,000
FACILITY ELECTRICAL LABOR		5000641		\$5,000
FACILITY		5000650		\$3,100
FACILITY DIRECT LABOR/BRDN/EXP		5000740		\$7,800
FACILITY OVERHEAD		5000750		\$87,000
FACILITY CONTRACT SUPERVISION		5000790		\$15,000
OVERHEAD		5000800		\$3,500
TOTAL INTANGIBLES			\$1,111,760	\$1,315,562
SURFACE CASING		5000510	\$71,500	\$71,500
INTERMEDIATE CASING		5000520	\$263,500	\$263,500
TECHNICAL WORK, ENGI		5000543		\$22,900
TUBING		5000550		\$0
TUBING 5-1/2" TK - II @ \$ 27.66 /H		5000560	\$10,000	\$168,035
PACKERS & SUBSURFACE EQUIP		5000570		\$1,000
ELECTRIC SUBMERSIBLE PUMP		5000585		\$75,000
FACILITY - PERMANENT		5000600		\$20,000
FACILITY - RENTAL EQUIPMENT		5000601		\$0
FACILITY - SECONDARY CONTAINMENT		5000602		\$0
COOLERS		5000604		\$0
FLOWLINE/VALVES/CONNECTIONS		5000610		\$40,000
SCADA WELL SITE EQUIPMENT		5000625		\$5,000
SCADA LABOR/CONSULTING		5000626		\$5,000
ELECTRICAL EQUIPMENT		5000640		\$10,000
TOTAL TANGIBLES			\$345,000	\$346,935
TOTAL AFE				\$2,277,614

BITTERROOT #1 SWD
OPTION 1 FOX HILLS FRESH WATER WELL AFE

Based information obtained from 180 Water Pumps & Service out of Helena, Montana, the cost to drill and case a typical Fox Hills fresh water well to approximately 1,300' would be \$91,000. With estimated electrical and pump installation at this depth, the total well cost would be approximately \$95,000 for an operational Fox Hills fresh water well in sec 21 T26N R65E of Richland County, MT.

Fox Hills FW Well \$ Estimate

\$70/ft drilling and casing @ 1,300' = \$91,000

\$4,000 for pump & electrical

Total = \$95,000

Independent Record

AFFIDAVIT OF PUBLICATION

See Proof on Next Page

Helena Independent Record
2222 N. Washington St
Helena, Montana 59602
(123) 456-7890

State of New Jersey, County of Camden, ss:

Anjana Bhadoriya, being first duly sworn, deposes and says: That (s)he is a duly authorized signatory of Column Software, PBC, duly authorized agent of Helena Independent Record, a newspaper of general circulation published that is a "legal newspaper" as that is published daily in the City of Helena, in the County of Lewis and Clark, State of Montana, and has charge of the Advertisements thereof.

If this certification is for the State of Montana, I hereby certify that I have read sec. 18-7-204 and 18-7-205 MCA, and subsequent revisions, and declare that the price or rate charged the State of Montana for the publication for which claim is made in printed copy in the amount of \$232.30 is not in excess of the minimum rate charged any other advertiser for publication of advertisement, set in the same size type and published for the same number of insertions, further certify that this claim is correct and just in all respects, and that payment or credit has not been received.

PUBLICATION DATES: August, 29 2026

NOTICE ID: lbycX6ux0aSfneo8fvTB

PUBLISHER ID: COL-MT-203197

NOTICE NAME: CLR Bitterroot #1 SWD Public Notice

Publication Fee: \$232.30

Anjana Bhadoriya

(Signed)

VERIFICATION

State of New Jersey
County of Camden

SHARONN E THOMAS-POPE
NOTARY PUBLIC
STATE OF NEW JERSEY
My Commission Expires January 23, 2027

Subscribed in my presence and sworn to before me on this: 09/01/2026

SM S. & Poe

Notary Public

Notarized remotely online using communication technology via Proof.

CLR Bitterroot #1 SWD - Public Notice
BEFORE THE BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

NOTICE OF INTENTION TO APPLY FOR PERMIT TO DRILL
AN OIL AND GAS WELL

In the Matter of the Application of CONTINENTAL
RESOURCES, INC. for a Permit to Drill and Permit a Class II
Injection Well

1. **Name and Address of Applicant:** Continental Resources,
Inc.
P.O. Box 269000
Oklahoma City, Oklahoma 73126
(405) 234-9000 phone/fax
2. **Well Name and Legal Description:** Bitterroot #1 SWD
Surface Hole Location: 682' FNL & 568' FEL
SESE Sec 21-26N-56E
Horizontal Intercept: 573' FNL & 568' FEL
NENE Sec 21-26N-56E
Horizontal Terminus: 1444' FNL & 568' FEL
SENE Sec 28-26N-56E
County: Richland
3. **Proposed Total Depth:** 7699' MD; 5819' TVD
4. **Source of Fluids to be Injected:** Produced Water from
nearby Bakken wells
5. **Zone/Formation of Injection & Depth:**
Dakota Sand - 5176'TVD - 5769'TVD

An aquifer exemption will be requested as part of the Class II
Injection Well permit since the proposed injection zone contains
water with less than 10,000 ppm total dissolved solids.

Notice is hereby given that an application for permit to drill
and permit a Class II underground injection well at the surface
location set forth above to the depth as stated will be filed with
the Montana Board of Oil and Gas Conservation. Pursuant to
Rules 36.22.601, 36.22.604, and 36.22.1409 Administrative
Rules of Montana, an interested party may demand an
opportunity to be heard by the Montana Board of Oil and Gas
Conservation concerning the application. A hearing will be
held at the Montana Board of Oil & Gas Conservation Hearing
Room (at the below address) on Thursday, October 15, 2026,
at 09:00 am MT. SUCH DEMAND FOR HEARING MUST BE
RECEIVED BY THE MONTANA BOARD OF OIL AND GAS
CONSERVATION AT THE ADDRESS SET FORTH NO LATER
THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION
OF THIS NOTICE, OR THE APPLICATION WILL BE ACTED
UPON BY THE BOARD'S PETROLEUM ENGINEER
WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH
THE NAME, ADDRESS AND TELEPHONE NUMBER OF
EACH INTERESTED PARTY, THEIR OWNERSHIP INTEREST
IN THE LANDS SURROUNDING THE PROPOSED WELL,
AND THE REASONS WHY THE HEARING IS SOUGHT; (2)
BE SERVED UPON THE APPLICANT BY COPY MAILED OR
FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. John's Avenue
Billings, Montana 59102
Phone Number: (406) 656-0040
FAX Number: (406) 652- 5305

August 29, 2026 COL-MT-203197 MNAXLP

SIDNEY HERALD

AFFIDAVIT OF PUBLICATION

See Proof on Next Page

Sidney Herald
310 2nd Ave NE
(406) 433-2403

I, Anjana Bhadoriya, of lawful age, being duly sworn upon oath depose and say that I am an agent of Column Software, PBC, duly appointed and authorized agent of the Publisher of Sidney Herald, a publication that is a "legal newspaper" as that phrase is defined for the city of Sidney, for the County of Richland, in the state of Montana, that this affidavit is Page 1 of 2 with the full text of the sworn-to notice set forth on the pages that follow, and that the attachment hereto contains the correct copy of what was published in said legal newspaper in consecutive issues on the following dates:

PUBLICATION DATES:

Aug. 29, 2026

Notice ID: 4BGzI2ttRh7sqaH8rpjY

Publisher ID: SHM000955

Notice Name: CLR Bitterroot #1 SWD Public Notice

PUBLICATION FEE: \$177.39

Request of

Katelyn Clark

I declare under penalty of perjury and under the laws of the state of Montana that the foregoing is true and correct.

Anjana Bhadoriya

Agent

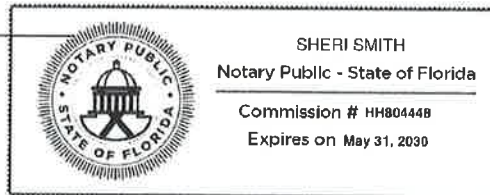
VERIFICATION

State of Florida
County of Broward

Signed or attested before me on this: 09/01/2026

S. Smith

Notary Public
Notarized remotely online using communication technology via Proof.



BEFORE THE BOARD OF OIL AND GAS CONSERVATION OF
THE STATE OF MONTANA

NOTICE OF INTENTION TO APPLY FOR PERMIT TO DRILL AN
OIL AND GAS WELL

In the Matter of the Application of CONTINENTAL RESOURCES,
INC. for a Permit to Drill and Permit a Class II Injection Well

1. Name and Address of Applicant: Continental Resources, Inc.
P.O. Box 269000
Oklahoma City, Oklahoma 73126
(405) 234-9000 phone/fax
2. Well Name and Legal Description: Bitterroot #1 SWD
Surface Hole Location: 682° FNL & 568° FEL, SESE Sec 21-26N-56E
Horizontal Intercept: 573° FNL & 568° FEL, NENE Sec 21-26N-56E
Horizontal Terminus: 1444° FNL & 568° FEL, SENE Sec 28-26N-56E
County: Richland
3. Proposed Total Depth: 7699' MD; 5819' TVD
4. Source of Fluids to be Injected: Produced Water from nearby
Bakken wells
5. Zone/Formation of Injection & Depth: Dakota Sand --
5176' TVD - 5769' TVD

An aquifer exemption will be requested as part of the Class II
Injection Well permit since the proposed injection zone contains
water with less than 10,000 ppm total dissolved solids.

Notice is hereby given that an application for permit to drill and
permit a Class II underground injection well at the surface location
set forth above to the depth as stated will be filed with the Montana
Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601,
36.22.604, and 36.22.1409 Administrative Rules of Montana, an in-
terested party may demand an opportunity to be heard by the Mon-
tana Board of Oil and Gas Conservation concerning the application.
A hearing will be held at the Montana Board of Oil & Gas Conserva-
tion Hearing Room (at the below address) on Thursday, October 15,
2026, at 09:00 am MT. SUCH DEMAND FOR HEARING MUST BE
RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CON-
SERVATION AT THE ADDRESS SET FORTH NO LATER THAN
TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS
NOTICE, OR THE APPLICATION WILL BE ACTED UPON BY
THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING.
A DEMAND MUST: (1) SET FORTH THE NAME, ADDRESS AND
TELEPHONE NUMBER OF EACH INTERESTED PARTY, THEIR
OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE
PROPOSED WELL, AND THE REASONS WHY THE HEARING
IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY
MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH
ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. John's Avenue
Billings, Montana 59102
Phone Number: (406) 656-0040
FAX Number: (406) 652-5305

Date: August 29, 2026
SHM000955



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

August 24, 2026

To: Surface Owner
Address
City, State Zip

From: Continental Resources, Inc.
20 N. Broadway
OKC, OK 73102

Re: Proposed Private Saltwater Disposal Well – Bitterroot #1 SWD
Surface Hole: 682' FNL & 568' FEL
SESE Section 21, T26N, R56E MPM, Richland County, MT
Bottom Hole: 1444' FNL & 568' FEL
SENE Section 28, T26N, R56E MPM, Richland County, MT

This letter is to advise you that Continental Resources, Inc. (Continental) plans to drill and complete the Bitterroot #1 SWD well as a Class II saltwater disposal well, into the Dakota formation, for the purpose of disposal operations.

In accordance with the rules and regulations of the Montana Board of Oil & Gas Conservation (MBOGC), Continental is required to give notice that it is submitting an application to perform this work, to surface owners within a one-quarter mile radius of the injection site. The MBOGC will conduct a hearing regarding this application on October 15, 2026. For hearing details, please contact the MBOGC by phone at (406) 656-0040, or visit their website at dnrc.mt.gov/BOGC. Your comments or objections regarding this application may be directed to the MBOGC at that time.

Written comments or objections may be submitted prior to the hearing at the following address:

Montana Board of Oil & Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Please direct any and all your communication regarding this proposed project to Mr. John Gizicki with MBOGC at (406) 656-0040 or to Chance Bland with Continental at (405) 234-9560.

Respectfully,

Katelyn Clark
Regulatory Compliance Specialist – Continental Resources, Inc.



AFFIDAVIT OF MAILING

Bitterroot #1 SWD

I, Kate Henderson, hereby certify that I placed the Certification of Notification in the United States mail properly addressed to the surface owners, as shown on the attached Exhibit A, who lie within $\frac{1}{4}$ mile of the well locations. The attached exhibit includes the surface owner information, the certified tracking numbers and the dates on which the notifications were mailed.

Further Affiant saith not.

Kate Henderson, RL

(Individual Acknowledgement)

STATE OF Oklahoma)

COUNTY OF Oklahoma)

Before me, the undersigned, a Notary Public, in and for said County and State, on this 2nd day of September, 2026, personally appeared Kate Henderson to me known to be the identical person(s) who executed the within and forgoing instrument, and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and seal day and year last above written.

My Commission Expires: 5-17-2030

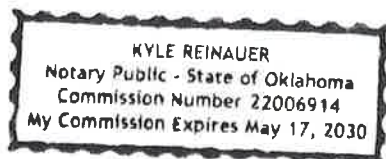

Kyle Reinauer, Notary Public

Exhibit "A"

	A	B	C	D	E	F	G	H
1	Surface Owner	C/O, Attn	Mailing Address	City	State	Zip Code	Date Letter Mailed	USPS Mail Tracking #
2	Palmer Lee Inc.		33548 County Road 144	Culbertson	MT	59218	8/27/2026	9489 0090 0027 6717 6448 30
3	Red Wing Ranch	Attn: Roger Baxter	P.O. Box 389	Chinook	MT	59523	8/27/2026	9489 0090 0027 6717 6448 54
4	USDI Bureau of Land Management	Montana State Office	5001 Southgate Drive	Billings	MT	59101	8/27/2026	9489 0090 0027 6717 6448 47

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Tracking Number:

Remove X

9489009000276717644830

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Latest Update

Your item was delivered to an individual at
the address at 11:45 am on August 31,
2026 in CULBERTSON, MT 59218.

Delivered

Delivered, Left with Individual

CULBERTSON, MT 59218
August 31, 2026 11:45 AM

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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

August 27, 2026

To: Palmer Lee Inc.
33548 County Road 144
Culbertson, MT 59218-9423

9489 0090 0027 6717 6448 30

From: Continental Resources, Inc.
20 N. Broadway
OKC, OK 73102

Re: Proposed Private Saltwater Disposal Well - Bitterroot #1 SWD
Surface Hole: 682' FNL & 568' FEL
SESE Section 21, T26N, R56E MPM, Richland County, MT
Bottom Hole: 1444' FNL & 568' FEL
SENE Section 28, T26N, R56E MPM, Richland County, MT

This letter is to advise you that Continental Resources, Inc. (Continental) plans to drill and complete the Bitterroot #1 SWD well as a Class II saltwater disposal well, into the Dakota formation, for the purpose of disposal operations.

In accordance with the rules and regulations of the Montana Board of Oil & Gas Conservation (MBOGC), Continental is required to give notice that it is submitting an application to perform this work, to surface owners within a one-quarter mile radius of the injection site. The MBOGC will conduct a hearing regarding this application on October 15, 2026. For hearing details, please contact the MBOGC by phone at (406) 656-0040, or visit their website at dnrc.mt.gov/BOGC. Your comments or objections regarding this application may be directed to the MBOGC at that time.

Written comments or objections may be submitted prior to the hearing at the following address:

Montana Board of Oil & Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Please direct any and all your communication regarding this proposed project to Mr. John Gizicki with MBOGC at (406) 656-0040 or to Chance Bland with Continental at (405) 234-9560.

Respectfully,

Katelyn Clark
Regulatory Compliance Specialist -- Continental Resources, Inc.

Confirmation Services	Package ID: 3489009605276717644830	Electronic Return Receipt
	Destination ZIP: 59218	First Class Letter
	Customer Reference:	
	Recipient Address:	PBP Account #: 50870112 Serial #: 8033300 AUG 27 2026 12:06 PM

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9489009000276717644854

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Latest Update

Your item was picked up at the post office
at 2:35 pm on August 31, 2026 in
CHINOOK, MT 59523.

Delivered

Delivered, Individual Picked Up at Post Office
CHINOOK, MT 59523
August 31, 2026 2:35 PM

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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

August 27, 2026

To: Red Wing Ranch
Attn: Roger Baxter
P.O. Box 399
Chinook, MT 59523-0399

9489 0090 0027 6717 6448 54

From: Continental Resources, Inc.
20 N. Broadway
OKC, OK 73102

Re: Proposed Private Saltwater Disposal Well - Bitterroot #1 SWD
Surface Hole: 682' FNL & 568' FEL
SESE Section 21, T26N, R56E MPM, Richland County, MT
Bottom Hole: 1444' FNL & 568' FEL
SENE Section 28, T26N, R56E MPM, Richland County, MT

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Written comments or objections may be submitted prior to the hearing at the following address:

Montana Board of Oil & Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Please direct any and all your communication regarding this proposed project to Mr. John Gizicki with MBOGC at (406) 656-0040 or to Chance Bland with Continental at (405) 234-9560.

Respectfully,

Katelyn Clark

Confirmation Services	Package ID: 9489009000276717644854	Electronic Return Receipt
	Destination ZIP Code: 59523	First Class Letter
	Customer Reference	
	Recipient	PHF Account #: 50870112
	Address	Serial #: 8093300
		AUG 27 2026 12:07 PM

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Tracking Number:

Remove X

9489009000276717644847

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Add to Informed Delivery

Latest Update

Your item was delivered to an individual at
the address at 11:29 am on August 31,
2026 in BILLINGS, MT 59101.

Delivered

Delivered, Left with Individual

BILLINGS, MT 59101
August 31, 2026 11:29 AM

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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

August 27, 2026

To: USDI Bureau of Land Management
Montana State Office
5001 Southgate Drive
Billings, MT 59101-4669

9489 0090 0027 6717 6448 47

From: Continental Resources, Inc.
20 N. Broadway
OKC, OK 73102

Re: Proposed Private Saltwater Disposal Well – Bitterroot #1 SWD
Surface Hole: 682' FNL & 568' FEL
SESE Section 21, T26N, R56E MPM, Richland County, MT
Bottom Hole: 1444' FNL & 568' FEL
SENE Section 28, T26N, R56E MPM, Richland County, MT

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2535 St. Johns Avenue
Billings, MT 59102

Please direct any and all your communication regarding this proposed project to Mr. John Gizicki with MBOGC at (406) 656-0040 or to Chance Bland with Continental at (405) 234-9560.

Respectfully,

Katelyn Clark

Confirmation Services	Package ID: 9489009000276717644847	Electronic Return Receipt
	Destination ZIP Code: 59101	(First Class Letter)
	Customer Reference	
	Recipient Address	
		FBI Account #: 50870112
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