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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Chord Energy

1001 Fannin Street, Suite 1500
Houston, TX 77002
O 281.404.9500
F 281.404.9501

October 30, 2026

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

Attn: Mr. John Gizicki
UIC Program Director

Re: Application for UIC Permit and Authorization to Drill a Class II Injection Well, Seminole 2557 SWD Well, located 663' FSL and 496' FEL SE ¼ SE ¼ of Section 27, T25N, R57E Richland County, MT

Dear Mr. Gizicki

Tangent Midstream LLC respectfully requests approval of an Underground Injection Control (UIC) permit for the referenced location and as described in the attached application. Chord has provided notice to appropriate parties within the 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 for December 10, 2026.

If you have any questions concerning the enclosed application, please contact me at 281-404-9671.

Sincerely,

Alex Wall
Senior Vice President, Asset Management
Chord Energy Corporation

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State of Montana

Board of Oil and Gas Conservation

Docket No: **TBD**

Underground Injection Control Application

Seminole 2557 SWD

27-25N-57E

Tangent Midstream LLC

1001 Fannin Street, Suite 1500

Houston, TX, 77002

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The following is submitted in support of our application to permit the drilling and completion of the **Seminole 2557 SWD** well for the purposes of water injection into the **Dakota** group and related rocks within the proposed **Wildcat, Richland** Field, **Richland** County, Montana, as required by **Rule Number, e.g. 36.22.1403** of the Rules and Regulations of the Montana Board of Oil & Gas Conservation.

1(a) Well Locations:

The **Seminole 2557 SWD** well has been proposed for drilling and completion of a water injection well within the Wildcat Richland Field in **Richland** County, Montana as described below. Appendix I depicts the surface location and a quarter ¼-mile radius representing the area of review for this well at the SHL

Seminole 2557 SWD

SHL: 663' FSL, 496' FEL SESE 27-25N-57E
BHL: 2565' FSL, 2575' FEL NWSE 27-25N-57E

1(b) Wells Located within the ¼-mile Area of Review (AOR):

There is one well that falls within the AOR, Sorteberg 27-34-1H. This well is not of concern.

There are no plugged and abandoned wells within the ¼ mile AOR

1(c) Location of All Pipelines:

The Seminole 2557 SWD surface facilities will be constructed on the same pad as the injection well.

Injection fluids will come from multiple oil wells located on the same pad, as well as potentially other BKN/TFKS oil wells in the nearby region.

The Seminole 2557 SWD may be tied into a pipeline system in the future.

1(d) Area Producing Formations, Fresh Water Aquifers and Water Well Information:

Location	S-T-R	Well ID	Well Name	Depth
34175 State HWY 201 Fairview, MT 59221-9439	S34 T25N R5 7E	38097	REHBEIN	60 feet
13854 Highway 16, Fairview, MT 59221	S23 T25N R5 7E	38080	TUEIT-13854	1945 feet
13805 Highway 16, Fairview, MT 59221	S26 T25N R5 7E	168704	TUEIT-13805	265 feet

Any potential USDWs are protected from the proposed injection zone by surface casing to be set at approximately 2000' MD and cemented to surface. The production string, tubing, and injection packer will result in further isolation of fresh USDWs from injected fluid.

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1(e) Name and Geologic Description of Injection Zone:

Upper Confining Zone: Mowry Shale

Lower Confining Zone: Swift Formation

The proposed primary injection zone is the Inyan Kara Formation of the Lower Cretaceous Dakota Group. Based on nearby well control, interpreted formation tops, and mapped structure and isopach grids, the prospective injection interval is estimated to extend from approximately 5,481 ft to 5,891 ft TVD at the proposed Seminole SWD location. This represents a gross prospective injection interval approximately 420 ft thick.

The Inyan Kara consists of multiple sandstone bodies interbedded with siltstone and shale. These sediments were deposited in marginal-marine to nonmarine environments and form a vertically discontinuous, multi-lobed sandstone system rather than a single continuous sandstone bed. A net-sand isopach calculated using a 30-API gamma-ray cutoff indicates approximately 65–85 ft of interpreted net Inyan Kara sandstone at the proposed Seminole SWD location. These sandstone packages constitute the principal prospective injection intervals. Final net-sand thickness, porosity, fluid saturation, and completion intervals will be confirmed using open-hole logs acquired in the Seminole SWD.

The Mowry Shale, together with the underlying Skull Creek shale interval, forms the principal upper confining system above the Inyan Kara injection zone. The top of the Mowry is estimated at approximately 4,968 ft TVD, while the top of the Inyan Kara is estimated at approximately 5,471 ft TVD, providing approximately 503 ft of gross stratigraphic separation between the top of the Mowry and the top of the injection zone. The Mowry interval is approximately 170 ft thick, measured from the Mowry top to the Newcastle top. The upper confining succession consists predominantly of dense, laterally persistent, low-permeability marine shale and mudstone. The Newcastle sandstone occurs within the broader interval between the Mowry and Inyan Kara and should not be included as impermeable shale.

The Swift Formation forms the lower confining interval beneath the proposed Inyan Kara injection zone. The top of the Swift is estimated at approximately 5,918 ft TVD, and the top of the underlying Rierdon Formation is estimated at approximately 6,484 ft TVD. The Swift is therefore approximately 566 ft thick in this area. It consists predominantly of marine shale and siltstone with subordinate sandstone. Its thick, predominantly fine-grained succession provides substantial vertical separation between the proposed injection zone and deeper formations.

The mapped base of the prospective injection zone at approximately 5,891 ft TVD is approximately 27 ft above the top of the Swift Formation. This intervening basal interval is not presently included in the estimated 65–85 ft of net injection sandstone. The final permitted injection and perforation intervals will be selected using the completed well's log suite and will be confined to sandstone intervals demonstrating suitable porosity, permeability, fluid saturation, and injectivity characteristics.

1(f) Additional Information on Producing Wells in the AOR:

Location	S-T-R	Well ID	**Well Name**	Depth
47.8956323, -104.334544	S27 T25N R5 7E	UNK	**SORTEBERG 27-34-1H**	19750
47.868804, -104.322743	S35 T25N R5 7E	UNK	**SALSBURY 35N**	20540

The Sorteberg 27A is the only well considered within the AOR, the Salsbury 35N was included as the other nearby well but it is outside of the AOR.

1(g) Open Hole Logs:

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The SEMINOLE 2557 SWD will be a new drill SWD. The logging program will consist of logging program, e.g. CBL/CCL/GR ran from TD to Surface, during execution of the well. Any logs and test data run on the SEMINOLE 2557 SWD will be supplied to the MBOGC.

1(h) Description of Wellbore Construction:

Appendix IV, attached to this document, is the MBOGC's Form 2 requesting drilling and completing the subject well as an SWD. Appendix V depicts the proposed wellbore configuration for the SEMINOLE 2557 SWD. Perforations will be selected based the plan below, but confirmed after logs are ran. Appendix VI illustrates the plan for completion of the subject well. Perforations will be acidized with 15% HCL. The final diversion method hasn't been solidified yet, but a plan that follows all guidelines for injection wells will be honored, i.e. rock salt or similar. Maximum allowable surface injection pressure is shown on the bottom of this section.

The 9 5/8" casing will be set at approximately 2000' and then cemented to surface. 7" casing will then be set from surface and ran the entirety of the well, ~7793 ft MD. Inside the 7" casing we will run a 4.5" string tied into a packer at a depth of around 5000 ft.

MASIP = ([Top Perf(TVD) x Frac Gradient] – [Water Gradient x SG Injectate])x[Top Perf (TVD)] + FL

Depth of Top Perf (TVD)	5481
Fracture Gradient (psi/ft)	0.733
Freshwater Gradient (psi/ft)	0.433
Specific Gravity Injected Fluid	1.20
	1170 psi

	Hazen Williams Friction Loss Calculation (FL)		
FL (psi/ft)	ΔP/L (psi/ft) = 4.52 × Q^1.852 / (C^1.852 × d^4.8704)		
Q	Flowrate (GPM)	350	
C	Hazen-Williams roughness coefficient	150	
d	Tubing ID (In)	3.815	
4.52	Unit constant for gpm, inches and psi/ft	4.52	
	Injection String Length (Ft)	5000	
		0.03195	PSI/ft
	0.3195 x Injection String Length = FL	**160**	PSI

MASIP = 1170psi + 160psi

MASIP = 1329 psi

1(i) Description of Injection Fluid:

The SEMINOLE 2557 SWD will initially be used to inject produced water from wells producing from the Bakken formation from the same Seminole Pad location. As of now pipelines have not been discussed in depth, however, this may be something that is discussed in further detail later down the road.

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1(j) Names of Owners of Record:

The surface owners and lease owners within the AOR are presented in the Appendix below. Tangent Midstream LLC, has notified the current operators, surface owners and lease owners in accordance with 35.22.1410 1) notification requirements for an underground injection permit.

1(k) List of Appendices:

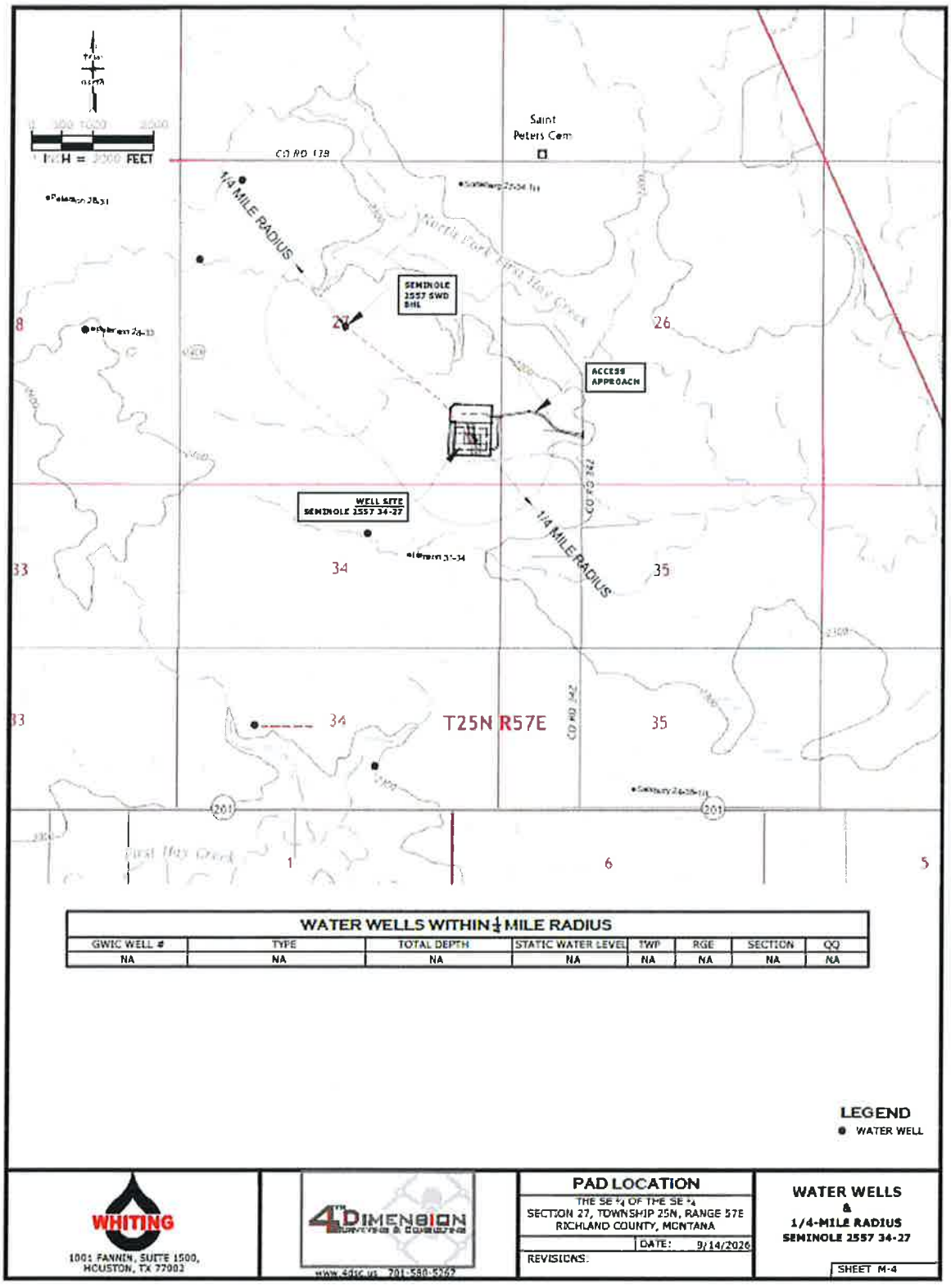
- **I** ¼ Mile Area of Review Map
- **II** Plat of SWD Location
- **III** Representative Log
- **IV** Sundry Notices
- **V** Proposed Wellbore Schematic
- **VI** Proposed Completion Procedure
- **VII** Water Analysis
- **VIII** List of Owners within AOR
- **IX** Affidavit of Notification to Landowners
- **X** Example of Landowner Notifications of Application for Injection
- **XI** Notice of Intention to Apply for a Class II Well
- **XII** Affidavits of Publication – Helena & Sidney Herald

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Appendix I — ¼ - Mile Area of Review Map

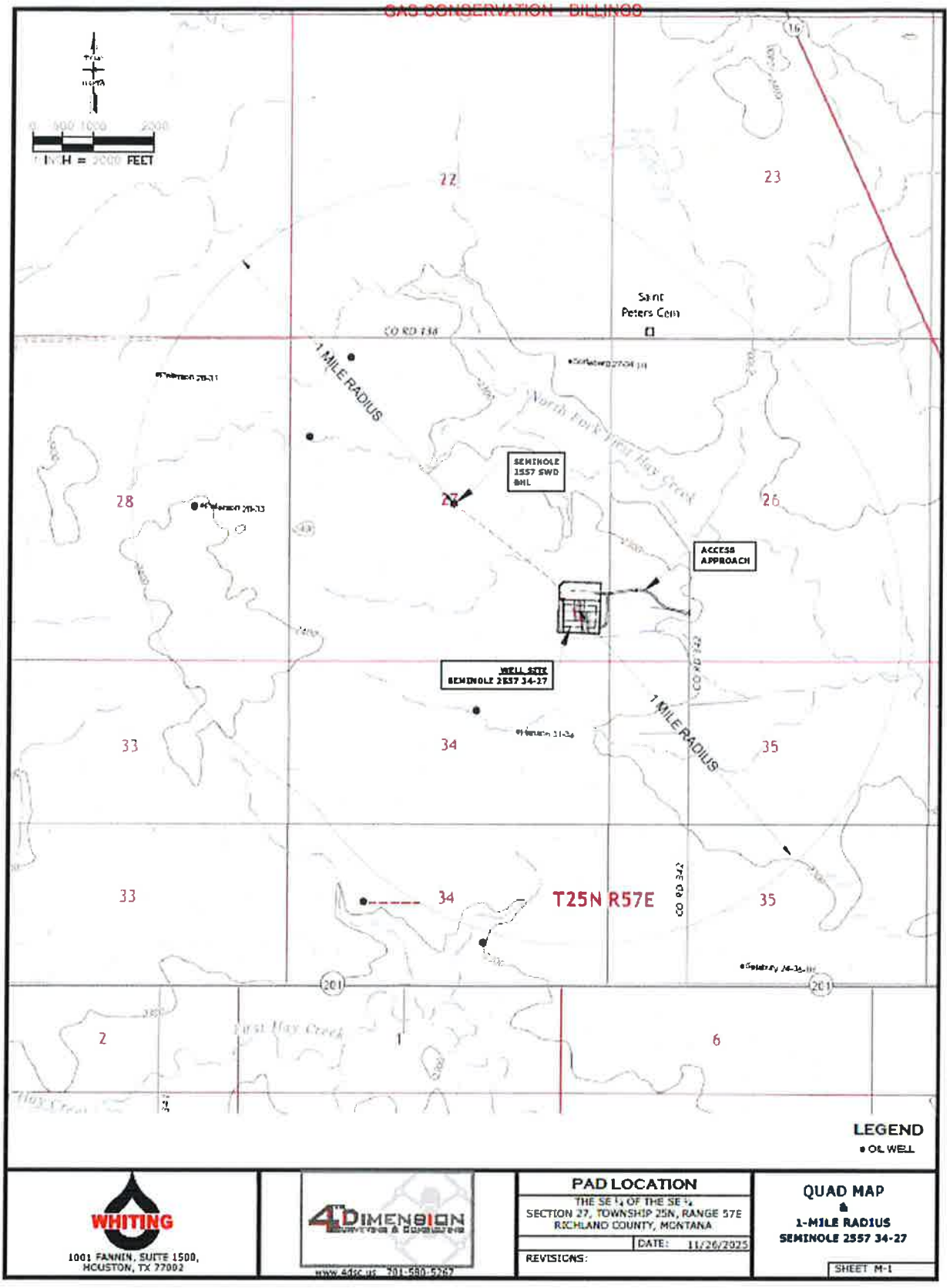


No water wells located within ¼ mile radius of the projected SWD well.

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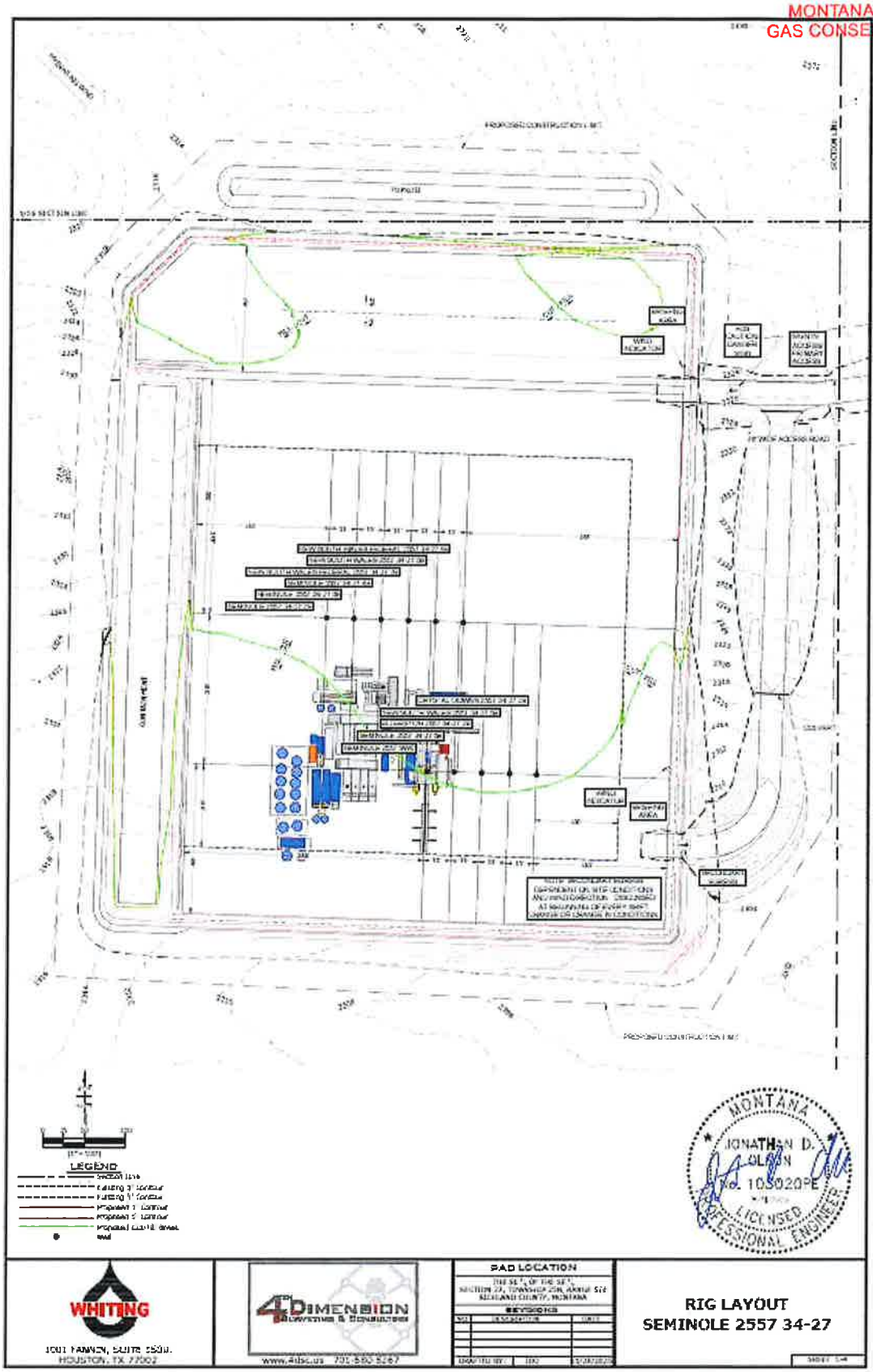


Appendix II — Plat of SWD Location

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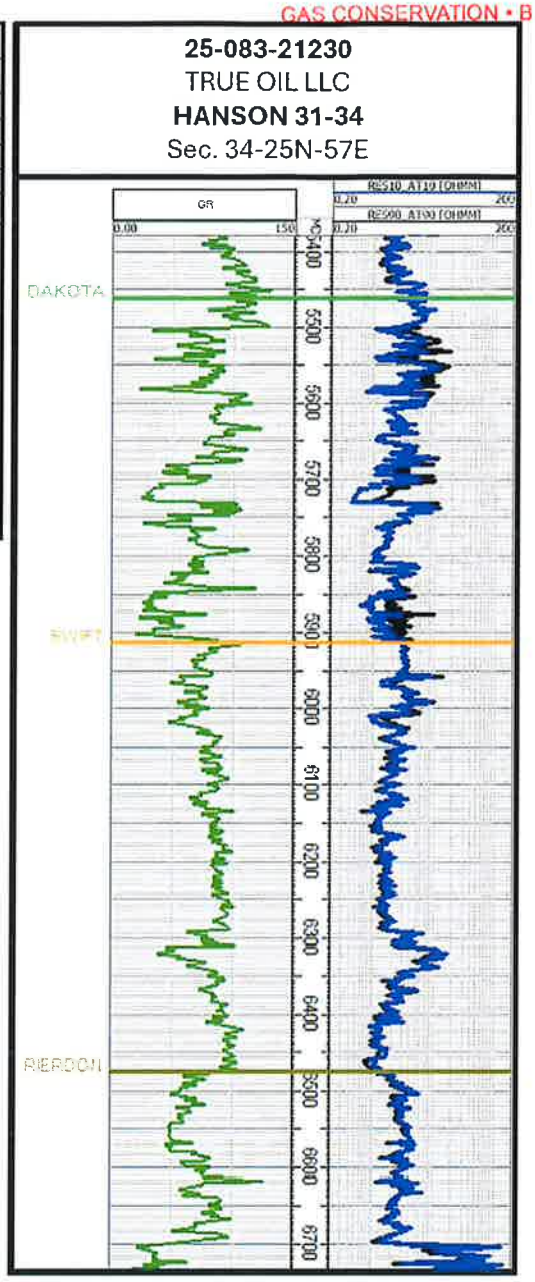
Appendix III — Representative Log

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Tangent Midstream Services LLC		
Representative Log		
HANSON 31-34		
25-083-21230		
Sec. 34-25N-57E		
Vertical Scale = 20		
LOG CURVES		
0	150	GR (API) Calibrated Gamma Ray
0.20	200	RES10_AT10 (ohm-m)
0.20	200	RES90_AT90 (ohm-m)
FORMATION MARKERS		
Dakota		
Swift		
Rierdon		
9/10/2026		



Appendix IV — Sundry

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FORM NO. 2 R 10/09

ARM 36.22.307, 601, 605, 1003, 1004, 1011, 1013, 1103, 1222, 1240, 1301, 1306, 1309, and 1417

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 TANGENT MIDSTREAM LLC

Address 1001 FANNIN STREET SUITE 1500

City HOUSTON State TX Zip Code 77002

Telephone 281-404-9500 Fax 281-404-9501

Location of well (1/4-1/4 section and footage measurements):
SHL: SE 1/4 SE 1/4 OF SECTION 27 - T25N - R57E (663' FSL, 496' FEL)
BHL: NW 1/4 SE 1/4 OF SECTION 27 - T25N - R57E (2565' FSL, 2575' FEL)

API Number: 25 | | | (State County Well)

Well Type (oil, gas, injection, other): INJECTION

Lease Name: SEMINOLE

Type (Private/State/Federal/Tribal/Allotted): PRIVATE

Well Number: SEMINOLE 2557 SWD

Unit Agreement Name: SEMINOLE

Field Name or Wildcat: WILDCAT

Township, Range, and Section: T25N, R57E, SEC 27

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) INTENT TO DRILL AND COMPLETE A CLASS II INJECTION WELL	✓	Subsequent Report of Gas Analysis (ARM 36.22.1222)	☐

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.

BOARD USE ONLY

Approved _____
Date

Name Title

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

10/28/26
Date Signed (Agent)

Alex Wall
Print Name and Title

Telephone: 281-404-9500

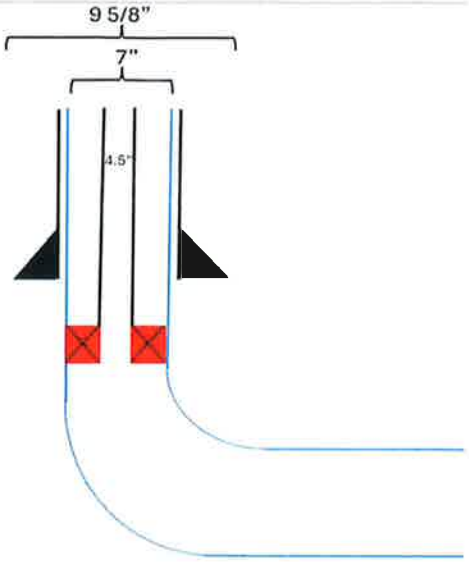
Appendix V — Proposed Wellbore Schematic

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Tangent Midstream LLC				
Seminole 2557 SWD				
Sec 27 T25N R57E				
663' FSL & 496' FEL				
Richland County, MT				
RKB:	2350'			
Hole Sizes (Proposed Installation)				
13-1/2" Hole, 8-3/4" Hole				
Casing Detail				
Description	**OD**	**ID**	**Set Depth**	**Length**
Conductor	16	15.25	80'	80'
Surface Casing - 36# J-55 LTC	9.625	8.92	2000'	2000'
Intermediate Casing - 32# P-110	7	6.276	7791'	7791'
Injection Liner - 4.5" L80 IPC	4.5	4	~5000	~5000
Cement Detail				
Surface Casing:				
Lead	485 sx 12.5 ppg Class C 2.08 ft3/sck			
Tail	235 sx 14.2 ppg Class C 1.46 ft3/sck			
TOC	Surface			
Intermediate Casing:				
Lead	24 sx 12.5 ppg Class G 2.74 ft3/sck			
Tail	464 sx 14.00 ppg Class G 1.62 ft3/sck			
TOC	Surface			



Appendix VI — Proposed Completion Procedure

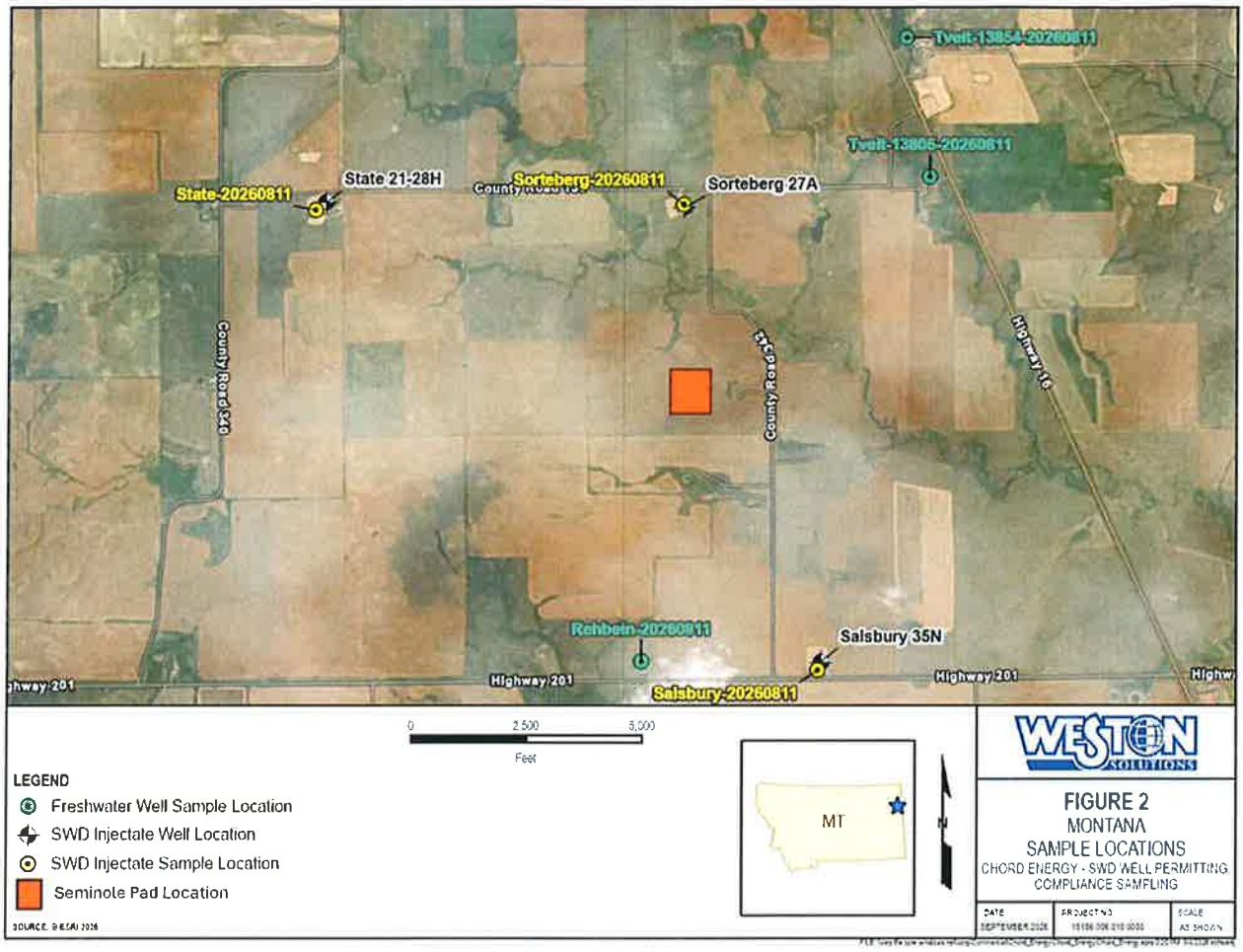
1. Contact MBOGC within 24 hours of commencement.
2. Move in rig, test anchors, and unload work string on pipe racks. Visually inspect before use.
3. Install BOPS with pipe rams/blind rams.
4. Trip in hole to Float Collar.
5. Circulate hole, run CBL (if not already done) to verify cement, and perforate per plan.
6. Cut perfs at respective depths. Record ISIP, 5-minute, and 10-minute shut-in pressures. Pump test injection zone and record injection pressures during the injectivity test.
7. Trip in hole with Baker Nickel Coated 7" Packer and 4.5" tubing. Set packer at appropriate depth that abides by upper confining zone and displace annulus with packer fluid.
8. ND BOP/NU injection wellhead. Test casing-tubing annulus to 300-800 psi with MBOGC inspector as witness. Install permanent pressure gauge on casing-tubing annulus.
9. Rig down and move out completion equipment

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Appendix VII — Water Analysis – Source Waters



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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Compliance Sampling Support-MT
Pace Project No.: 10783692

Sample: STATE-20260811 **Lab ID: 10783692001** Collected: 08/11/26 10:25 Received: 08/13/26 08:40 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	77000	ug/L	500	10	08/19/26 06:05	08/21/26 15:26	7440-39-3	
Calcium	14500000	ug/L	25000	10	08/19/26 06:05	08/21/26 15:26	7440-70-2	
Chromium	526	ug/L	500	10	08/19/26 06:05	08/21/26 15:26	7440-47-3	
Iron	331000	ug/L	2500	10	08/19/26 06:05	08/21/26 15:26	7439-89-6	
Magnesium	1130000	ug/L	25000	10	08/19/26 06:05	08/21/26 15:26	7439-95-4	
Potassium	7130000	ug/L	125000	10	08/19/26 06:05	08/21/26 15:26	7440-09-7	
Sodium	80100000	ug/L	500000	100	08/19/26 06:05	08/23/26 11:06	7440-23-5	
Strontium	1170000	ug/L	2500	100	08/19/26 06:05	08/23/26 11:06	7440-24-6	
Zinc	30000	ug/L	1000	10	08/19/26 06:05	08/21/26 15:26	7440-66-6	
120.1 Specific Conductance	Analytical Method: EPA 120.1 Pace Analytical Services - Minneapolis							
Specific Conductance	218000	umhos/cm	5.0	1		08/19/26 00:57		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis							
Alkalinity, Total as CaCO3	174	mg/L	5.0	1		08/14/26 14:36		
Alkalinity,Bicarbonate (CaCO3)	174	mg/L	5.0	1		08/14/26 14:36		N2
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		08/14/26 14:36		N2
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	324000	mg/L	2500	1		08/18/26 10:10		PP
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Minneapolis							
pH at 25 Degrees C	5.6	Std. Units	0.10	1		08/20/26 21:25		H6
SM2510 Specific Conductance	Analytical Method: SM 2510 Pace Analytical Services - Minneapolis							
Specific Conductance	210000	umhos/cm	5.0	1		08/20/26 01:39		
Specific Gravity	Analytical Method: ASTM D5057 Pace Analytical Services - Minneapolis							
Specific Gravity	1.20			1		08/21/26 14:12		N2
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Bromide	614	mg/L	40.0	500		08/18/26 22:33	24959-67-9	D3
Chloride	181000	mg/L	600	500		08/18/26 22:33	16887-00-6	D3
Fluoride	ND	mg/L	25.0	500		08/18/26 22:33	16984-48-8	D3
Sulfate	ND	mg/L	600	500		08/18/26 22:33	14808-79-8	D3
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis							

REPORT OF LABORATORY ANALYSIS

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Date: 08/24/2026 01:07 PM

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Compliance Sampling Support-MT
Pace Project No.: 10783692

Sample: SORTEBERY-20260811 **Lab ID: 10783692002** Collected: 08/11/26 11:00 Received: 08/13/26 08:40 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	**25600**	ug/L	500	10	08/19/26 06:05	08/21/26 15:27	7440-39-3	
Calcium	**15700000**	ug/L	25000	10	08/19/26 06:05	08/21/26 15:27	7440-70-2	
Chromium	ND	ug/L	500	10	08/19/26 06:05	08/21/26 15:27	7440-47-3	D3
Iron	**199000**	ug/L	2500	10	08/19/26 06:05	08/21/26 15:27	7439-89-6	
Magnesium	**1240000**	ug/L	25000	10	08/19/26 06:05	08/21/26 15:27	7439-95-4	
Potassium	**7740000**	ug/L	125000	10	08/19/26 06:05	08/21/26 15:27	7440-09-7	
Sodium	**75100000**	ug/L	500000	100	08/19/26 06:05	08/23/26 11:08	7440-23-5	
Strontium	**1110000**	ug/L	2500	100	08/19/26 06:05	08/23/26 11:08	7440-24-6	
Zinc	**22900**	ug/L	1000	10	08/19/26 06:05	08/21/26 15:27	7440-66-6	
120.1 Specific Conductance	Analytical Method: EPA 120.1 Pace Analytical Services - Minneapolis							
Specific Conductance	**260000**	umhos/cm	5.0	1		08/19/26 00:59		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis							
Alkalinity, Total as CaCO3	**177**	mg/L	5.0	1		08/14/26 14:49		
Alkalinity,Bicarbonate (CaCO3)	**177**	mg/L	5.0	1		08/14/26 14:49		N2
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		08/14/26 14:49		N2
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	**336000**	mg/L	2500	1		08/18/26 10:10		PP
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Minneapolis							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		08/20/26 21:28		H6
SM2510 Specific Conductance	Analytical Method: SM 2510 Pace Analytical Services - Minneapolis							
Specific Conductance	**213000**	umhos/cm	5.0	1		08/20/26 01:41		
Specific Gravity	Analytical Method: ASTM D5057 Pace Analytical Services - Minneapolis							
Specific Gravity	**1.22**			1		08/21/26 14:16		N2
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Bromide	**749**	mg/L	20.0	250		08/18/26 23:43	24959-67-9	D3
Chloride	**204000**	mg/L	1200	1000		08/19/26 06:07	16887-00-6	
Fluoride	ND	mg/L	12.5	250		08/18/26 23:43	16984-48-8	D3
Sulfate	ND	mg/L	300	250		08/18/26 23:43	14808-79-8	D3
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis							

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Compliance Sampling Support-MT
Pace Project No.: 10783892

Sample: SALSBURY-20260811 **Lab ID: 10783692003** Collected: 08/11/26 11:20 Received: 08/13/26 08:40 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	**75100**	ug/L	500	10	08/19/26 06:05	08/21/26 15:29	7440-39-3	
Calcium	**13900000**	ug/L	25000	10	08/19/26 06:05	08/21/26 15:29	7440-70-2	
Chromium	ND	ug/L	500	10	08/19/26 06:05	08/21/26 15:29	7440-47-3	D3
Iron	**315000**	ug/L	2500	10	08/19/26 06:05	08/21/26 15:29	7439-89-6	
Magnesium	**1080000**	ug/L	25000	10	08/19/26 06:05	08/21/26 15:29	7439-95-4	
Potassium	**6800000**	ug/L	125000	10	08/19/26 06:05	08/21/26 15:29	7440-09-7	
Sodium	**68100000**	ug/L	500000	100	08/19/26 06:05	08/23/26 11:10	7440-23-5	
Strontium	**989000**	ug/L	2500	100	08/19/26 06:05	08/23/26 11:10	7440-24-6	
Zinc	**28700**	ug/L	1000	10	08/19/26 06:05	08/21/26 15:29	7440-66-6	
120.1 Specific Conductance	Analytical Method: EPA 120.1 Pace Analytical Services - Minneapolis							
Specific Conductance	**296000**	umhos/cm	5.0	1		08/19/26 01:02		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis							
Alkalinity, Total as CaCO3	**385**	mg/L	5.0	1		08/14/26 14:58		
Alkalinity,Bicarbonate (CaCO3)	**385**	mg/L	5.0	1		08/14/26 14:58		N2
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		08/14/26 14:58		N2
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	**313000**	mg/L	2500	1		08/18/26 10:10		PP
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Minneapolis							
pH at 25 Degrees C	**5.6**	Std. Units	0.10	1		08/20/26 21:32		H6
SM2510 Specific Conductance	Analytical Method: SM 2510 Pace Analytical Services - Minneapolis							
Specific Conductance	**213000**	umhos/cm	5.0	1		08/20/26 01:43		
Specific Gravity	Analytical Method: ASTM D5057 Pace Analytical Services - Minneapolis							
Specific Gravity	**1.20**			1		08/21/26 14:19		N2
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Bromide	**642**	mg/L	16.0	200		08/18/26 23:57	24959-67-9	D3
Chloride	**179000**	mg/L	1200	1000		08/19/26 06:21	16887-00-6	
Fluoride	ND	mg/L	10.0	200		08/18/26 23:57	16984-48-8	D3
Sulfate	ND	mg/L	240	200		08/18/26 23:57	14808-79-8	D3
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis							

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Compliance Sampling Support-MT
Pace Project No.: 10783692

Sample: REHBEIN-20260811 Lab ID: 10783692004 Collected: 08/11/26 12:05 Received: 08/13/26 08:40 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	ND	ug/L	10.0	1	08/19/26 06:05	08/21/26 15:20	7440-39-3	
Calcium	156000	ug/L	500	1	08/19/26 06:05	08/21/26 15:20	7440-70-2	
Chromium	ND	ug/L	10.0	1	08/19/26 06:05	08/21/26 15:20	7440-47-3	
Iron	2610	ug/L	50.0	1	08/19/26 06:05	08/21/26 15:20	7439-89-6	
Magnesium	96900	ug/L	500	1	08/19/26 06:05	08/21/26 15:20	7439-95-4	
Potassium	10600	ug/L	2500	1	08/19/26 06:05	08/21/26 15:20	7440-09-7	
Sodium	145000	ug/L	1000	1	08/19/26 06:05	08/21/26 15:20	7440-23-5	
Strontium	3140	ug/L	5.0	1	08/19/26 06:05	08/21/26 15:20	7440-24-6	
Zinc	ND	ug/L	20.0	1	08/19/26 06:05	08/21/26 15:20	7440-66-6	
120.1 Specific Conductance	Analytical Method: EPA 120.1 Pace Analytical Services - Minneapolis							
Specific Conductance	1920	umhos/cm	5.0	1		08/19/26 00:35		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis							
Alkalinity, Total as CaCO3	497	mg/L	5.0	1		08/14/26 15:39		
Alkalinity,Bicarbonate (CaCO3)	497	mg/L	5.0	1		08/14/26 15:39		N2
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		08/14/26 15:39		N2
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	1630	mg/L	25.0	1		08/18/26 10:11		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Minneapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		08/20/26 20:31		H6
SM2510 Specific Conductance	Analytical Method: SM 2510 Pace Analytical Services - Minneapolis							
Specific Conductance	1790	umhos/cm	5.0	1		08/20/26 02:23		
Specific Gravity	Analytical Method: ASTM D5057 Pace Analytical Services - Minneapolis							
Specific Gravity	1.01			1		08/21/26 14:23		N2
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Bromide	ND	mg/L	0.40	5		08/19/26 00:12	24959-67-9	D3
Chloride	ND	mg/L	6.0	5		08/19/26 00:12	16887-00-6	D3
Fluoride	ND	mg/L	0.25	5		08/19/26 00:12	16984-48-8	D3
Sulfate	756	mg/L	6.0	5		08/19/26 00:12	14808-79-8	D3
353.2 Nitrate + Nitrite	Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis							

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Appendix VIII — List of Surface Owners and Lease Owners within AOR

USPS Tracking	Delivered	Landowner/Lessee	Address	City	State	Zip	Operator	Short Name	New Well Name	Location	County
9407 1118 9876 5590 3405 31		Terrence L. Johnson, Attorney-in-Fact for Mary Jeane Johnson	3016 HWY 85 SW	Belfield	ND	58622	Tangent Midstream LLC	Tangent	Seminole 2257 SWD	SESE of Section 27, T25N-R57E	Richland County, Montana
9407 1118 9876 5590 3482 54		Rodney Lynn Gorder, Trustee of the Rev	517 Redd Hills Parkway	Mesquite	NV	89027	Tangent Midstream LLC	Tangent	Seminole 2257 SWD	SESE of Section 27, T25N-R57E	Richland County, Montana
9407 1118 9876 5590 3482 23		Dianne Karen Gorder, Trustee of the Rev	517 Redd Hills Parkway	Mesquite	NV	89027	Tangent Midstream LLC	Tangent	Seminole 2257 SWD	SESE of Section 27, T25N-R57E	Richland County, Montana
9407 1118 9876 5590 3482 85		Sorteberg Peterson Family Trust	34124 County Road 130	Fairview	MT	59221	Tangent Midstream LLC	Tangent	Seminole 2257 SWD	SESE of Section 27, T25N-R57E	Richland County, Montana
9407 1118 9876 5590 3488 10		Kraken Oil & Gas, IV, LLC	945 Bunker Hill Rd, Ste 1200	Houston	TX	77002	Tangent Midstream LLC	Tangent	Seminole 2257 SWD	SESE of Section 27, T25N-R57E	Richland County, Montana
9407 1118 9876 5590 3488 65	Delivered	MBI Oil & Gas, LLC	103 5th St SE	Dickinson	ND	58601	Tangent Midstream LLC	Tangent	Seminole 2257 SWD	SESE of Section 27, T25N-R57E	Richland County, Montana
9407 1118 9876 5590 3488 03		Continental Resources, Inc.	PO Box 269091	Oklahoma City	OK	73126	Tangent Midstream LLC	Tangent	Seminole 2257 SWD	SESE of Section 27, T25N-R57E	Richland County, Montana

CHORD ENERGY
ALLIE NAGEL
4499 HIGHWAY 8
NEW TOWN ND 58763-9605

USPS CERTIFIED MAIL
9407 1118 9876 5590 3488 03
Continental Resources, Inc.
PO BOX 269091
OKLAHOMA CITY OK 73126-9091

$7.24 US POSTAGE FIRST-CLASS
endicia

CHORD ENERGY
ALLIE NAGEL
4499 HIGHWAY 8
NEW TOWN ND 58763-9605

USPS CERTIFIED MAIL
9407 1118 9876 5590 3405 31
Terrence L. Johnson
3016 HIGHWAY 85 SW
BELFIELD ND 58622-9507

$7.24 US POSTAGE FIRST-CLASS
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CHORD ENERGY
ALLIE NAGEL
4499 HIGHWAY 8
NEW TOWN ND 58763-9605

USPS CERTIFIED MAIL
9407 1118 9876 5590 3482 54
Rodney Lynn Gorder
517 REDD HILLS PKWY
MESQUITE NV 89027-3746

$7.24 US POSTAGE FIRST-CLASS
endicia

CHORD ENERGY
ALLIE NAGEL
4499 HIGHWAY 8
NEW TOWN ND 58763-9605

USPS CERTIFIED MAIL
9407 1118 9876 5590 3482 85
Sorteberg Peterson Family Trust
34124 COUNTY ROAD 130
FAIRVIEW MT 59221

$7.24 US POSTAGE FIRST-CLASS
endicia

CHORD ENERGY
ALLIE NAGEL
4499 HIGHWAY 8
NEW TOWN ND 58763-9605

USPS CERTIFIED MAIL
9407 1118 9876 5590 3482 23
Dianne Karen Gorder
517 REDD HILLS PKWY
MESQUITE NV 89027-3746

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CHORD ENERGY
ALLIE NAGEL
4499 HIGHWAY 8
NEW TOWN ND 58763-9605

USPS CERTIFIED MAIL
9407 1118 9876 5590 3488 10
Kraken Oil & Gas, IV, LLC
945 BUNKER HILL RD STE 1200
HOUSTON TX 77024-1593

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endicia

CHORD ENERGY
ALLIE NAGEL
4499 HIGHWAY 8
NEW TOWN ND 58763-9605

USPS CERTIFIED MAIL
9407 1118 9876 5590 3488 65
MBI Oil & Gas, LLC
103 5TH ST SE
DICKINSON ND 58601-6022

$7.24 US POSTAGE FIRST-CLASS
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Appendix IX — Affidavit of Notification to Landowners

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

IN THE MATTER OF THE APPLICATION OF TANGENT MIDSTREAM LLC FOR A UIC PERMIT FOR THE SEMINOLE 2257 SWD WELL, LOCATED 663 FEET FSL AND 496 FEET FEL IN THE SESE OF SECTION 27, T25N-R57E, RICHLAND COUNTY, MONTANA, FOR SALTWATER DISPOSAL INTO THE DAKOTA FORMATION

AFFIDAVIT OF NOTIFICATION

DATE: October 14, 2026

STATE OF NORTH DAKOTA)
) §
COUNTY OF WILLIAMS)

James DeMorrett, being first duly sworn, deposes and says:

That on October 14, 2026, I caused true and correct copies of the Notice advising of Tangent Midstream LLC's application for an underground injection control permit for the Seminole 2257 SWD well mailed by United States Postal Service Certified Mail, postage prepaid, to each lease owner and surface owner within the area of review. Copies of the Notices are attached as Exhibit A, and the certified-mail receipts and tracking information are attached as Exhibit B. This Affidavit is given as evidence of compliance with ARM 36.22.1410.

Affiant: James DeMorrett

By: James DeMorrett
Surface Land Manager

NOTARY

STATE OF NORTH DAKOTA §
§
COUNTY OF WILLIAMS §

On this 14th day of October, in the year 2026, before me personally appeared James DeMorrett known to me to be the person who is described in and who executed the within and foregoing instrument, and acknowledged to me that he executed the same.

(Seal)

ALLISEN C NAGEL
Notary Public
State of North Dakota
Commission Expiration Date: September 29, 2030

Allisen C. Nagel
Notary Public

Appendix X — Example of Landowner Notifications of Application for Injection

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NOTICE

October 14, 2026

To: Terrence L. Johnson,
Attorney-in-Fact for Mary Jeane Johnson
3016 HWY 85 SW
Belfield, ND 58622

From: Tangent Midstream LLC
1001 Fannin Street, Suite 1500
Houston, TX 77002

RE: Proposed Private Saltwater Disposal Well
Seminole 2257 SWD
SESE of Section 27, T25N-R57E

Please be advised that **Tangent Midstream LLC** ("**Tangent**") has applied to the Montana Board of Oil and Gas Conservation (MBOGC) to drill a saltwater disposal well and construct an associated facility at the above-described location. **Tangent** will be seeking final approval from the MBOGC on **Thursday, December 10, 2026** at a hearing in Billings, MT at the MBOGC Hearing Room at 2535 St. John's Avenue, Billings, Montana 59102, beginning at **9:00 am MT**.

Pursuant to the requirements of project application and regulations of the MBOGC, you are hereby notified of this project.

Respectfully,

James DeMorrett

James DeMorrett
Surface Land Manager
719-351-5677
james.demorrett@chordenergy.com

Appendix XI — Notice of Intention to Apply for a Class II Well

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BEFORE THE BOARD OF OIL AND GAS CONSERVATION

OF THE STATE OF MONTANA

In the matter of the Application of Tangent Midstream LLC

NOTICE OF INTENTION TO APPLY FOR A CLASS II INJECTION WELL PERMIT

For a Class II injection well permit

1. Name and address of applicant

Tangent Midstream LLC, 1001 Fannin Street Suite 1500, Houston, TX 77002

2. Well (or project) name, county, location

Seminole 2557 SWD located 663' FSL and 496' FEL SE ¼ SE ¼ of Section 27, T25N, R57E Richland County, MT

BHL Data: 2565' FSL, 2575' FEL 27-25N-57E NW¼ SE¼ of Section 27, T25N, R57E.

3. Source of fluids to be injected

Produced water from nearby Bakken wells

4. Zone or formation into which injection will occur, including depth

Dakota: 5481' – 5891' (TVD)

5. Aquifer Exemption request (if applicable)

An aquifer exemption will be requested as there is a potential that the TDS of the injection zone is less than 10,000 ppm.

Pursuant to Rule Number, e.g. 36.22.1409, Administrative Rules of Montana, the Montana Board of Oil and Gas Conservation will hold a public hearing upon the application of Tangent Midstream LLC for a Class II underground injection permit for the well or project set forth above. Said hearing will be held at the Montana Board of Oil and Gas Hearing Room at 2535 St. John's Ave., Billings, Montana, beginning at 9:00 a.m. on Thursday, December 10th, 2026.

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Appendix XII – Affidavits of Publication – Helena & Sidney Herald

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NOTICE	PUBLICATION DATE	CONFIRMATION	PAYMENT	AFFIDAVIT	AD DEADLINE	ACTIONS
Seminole Helena 10.28.2026 Helena Independent Record	10/31/26	Confirmed	Invoice Paid	Awaiting Publication	10/28/2026 3:00 PM	
Seminole SWD SH 10.28.20226 Sidney Herald	10/31/26	Confirmed	Invoice Paid	Awaiting Publication	10/29/2026 11:00 AM	

Application for Aquifer Exemption: Seminole 2557 SWD, Tangent Midstream LLC

Tangent Midstream LLC. SE¼ SE¼ Sec. 27, T25N R57E, Richland County, Montana. Proposed exempted aquifer: Inyan Kara (Dakota). Submitted to the Montana Board of Oil and Gas Conservation for forwarding to EPA Region VIII under 40 CFR 144.7 and 146.4.

Exhibit index

Exhibit	Title	Checklist requirement	Page
1	Plat map of the proposed exempted area	Item 1	3
1-A	Surveyed plat: water wells and ¼-mile radius (4th Dimension, Sheet M-4)	Item 1	4–5
2	Wells, water wells, wellhead protection areas, and public water supplies	Item 1; Justification A	6
3	Stratigraphy, confining zones, type log, and well construction	Item 2	7
Suppl.	Cross-section A–A′: wire-line logs through the Inyan Kara and confining zones	Item 2	8
4	Thickness, area, porosity, and pore volume	Item 3	9
5	Injection forecast versus the pore-volume limit	Item 3	10
6	Water quality of the Inyan Kara: sampling plan	Item 4	11
7	Current and alternative water sources: depths, water quality, and distances	Justification C-1, C-2	12
8	Cost of an Inyan Kara water-supply well versus a shallow alternative	Justification C-3	13
9	Perforation and total-depth plan	Item 2	14
10	Wells penetrating the Inyan Kara in the review area: cement and plugging	Item 1 / Area of review	15
10-A	Hanson 31-34 plugging record (MBOGC well file)	Item 1 / Area of review	16–18

Justification

A. The Inyan Kara does not currently serve as a source of drinking water within the exempted area (Exhibit 2). C. It is at a depth and location that make recovery of drinking water economically impractical (Exhibits 7 and 8; 40 CFR 146.4(b)(2)).

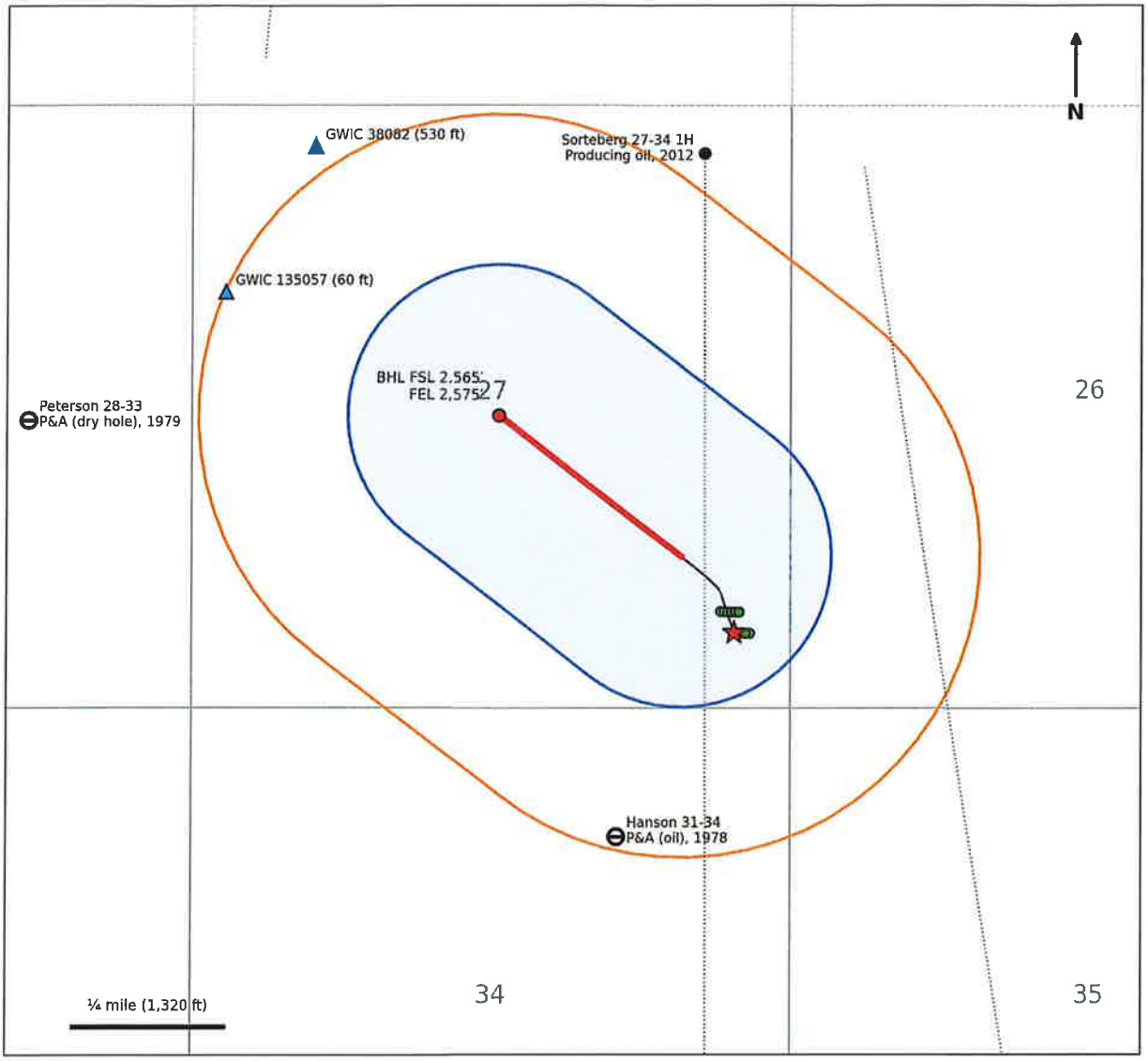
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Proposed exempted area: Inyan Kara (Dakota) aquifer



- Review area: exempted area + ¼ mile (2,640 ft, 749.0 ac)
- Proposed exempted area (1,320 ft around injection interval, 248.9 ac)
- Seminole 2557 SWD well path (Plan 3)
- Injection interval: Inyan Kara (Dakota) 5,714–7,792 ft MD
- SWD surface location (FSL 663', FEL 496')
- Planned Bakken wells, Seminole 2557 34-27 pad (10; cross Dakota inside area)
- Bakken laterals (~10,500 ft TVD, below the Inyan Kara)
- Producing oil well (Dakota penetration)
- Plugged & abandoned well
- GWIC water well (60–530 ft deep)

No wellhead or source water protection areas within the review area (MT DEQ Source Water Protection Viewer, 10/28/2026).
Nearest public water supply: North Drive MHC Well 2 (GWIC 274674), Sidney, ~12.7 mi SE.
Sources: plat S-1 to S-4 (4th Dimension), Plan 3 (10/28/2026), Enverus/MBOGC, MBMG GWIC. Water-well locations are GWIC tract centroids (approximate).

TANGENT **MIDSTREAM LLC** 1001 Fannin St, Suite 1500 Houston, TX 77002	**EXHIBIT 1** Plat map of the proposed exempted area, with oil and gas wells, water wells, and the area ¼ mile beyond	**Application for Aquifer Exemption** Item 1: Plat map Montana Board of Oil and Gas Conservation; forwarded to EPA Region VIII	**Tangent Midstream LLC** Seminole 2557 SWD SE¼ SE¼ Sec. 27, T25N R57E Richland County, Montana October 2026

Surveyed plat: water wells and ¼-mile radius

The following sheet (Sheet M-4, dated September 14, 2026) was prepared by 4th Dimension Surveying & Consulting as part of the final survey plat for the Seminole 2557 SWD. It shows the surveyed surface location, the planned wellbore path to the bottom-hole location, and the water wells and oil and gas wells in the surrounding sections. It supplements Exhibit 1.

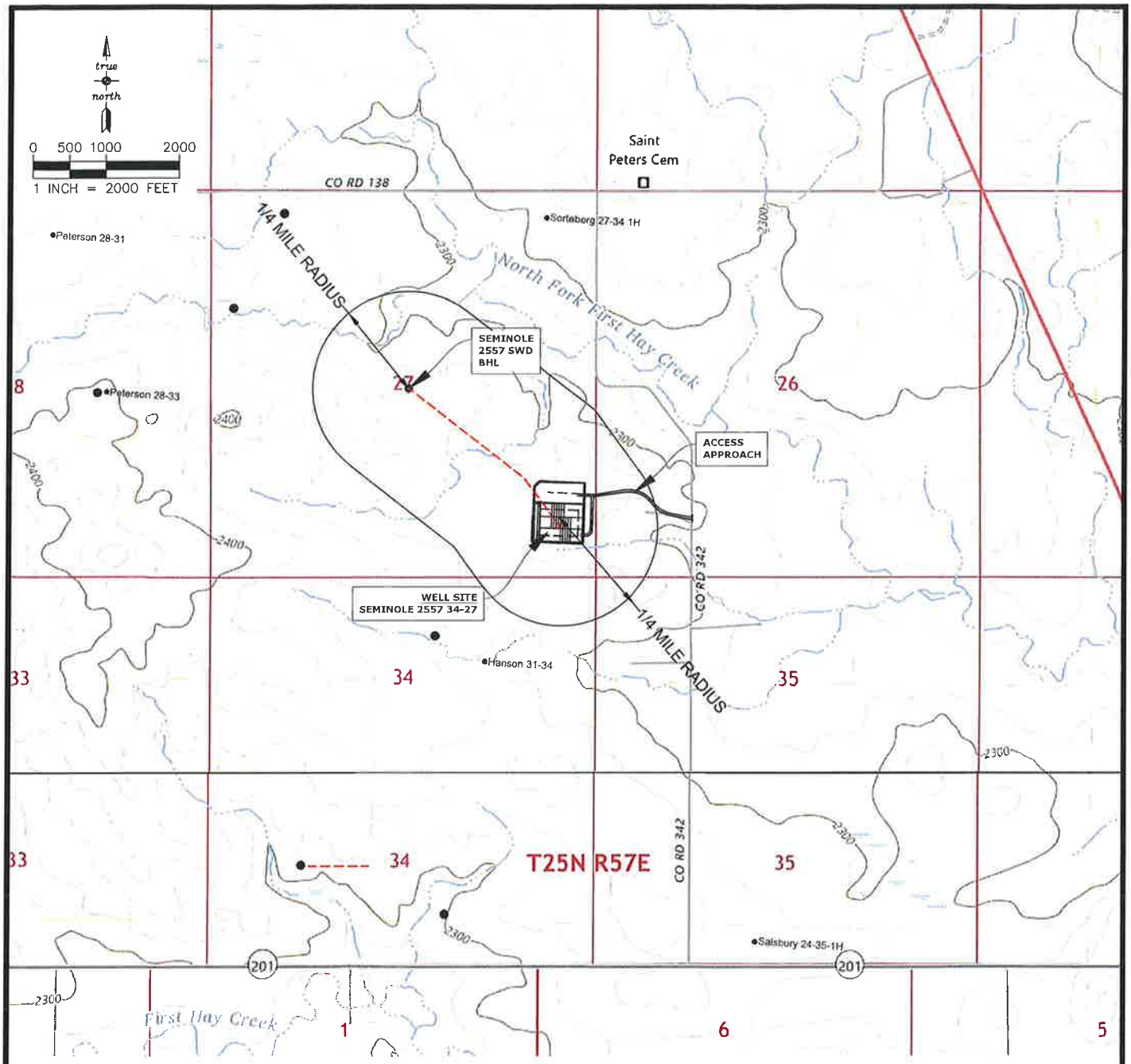
Notes for reading the plat

Item	Note
¼-mile radius	The surveyor's ¼-mile radius is drawn around the full wellbore, from the surface location to the bottom-hole location. The proposed exempted area is the ¼-mile (1,320 ft) area around the injection interval only (5,714–7,792 ft MD), as defined in Exhibits 1 and 4. The pore-volume limit is based on the exempted area.
Water wells within ¼ mile	The plat's table lists no water wells within the ¼-mile radius, consistent with Exhibit 2.
Well symbols	The plat shows sites from the MBMG Ground Water Information Center (GWIC). The symbol in the NE¼ of Sec. 34, north of Hanson 31-34, is GWIC 905827, the GWIC record for the Hanson 31-34 oil well (site type: petroleum well), plotted at its quarter-quarter location. It is not a water well.
Water wells shown	GWIC 38082 and 135057 (Peterson) in the NW¼ of Sec. 27, 2,634–2,861 ft from the injection interval (Exhibit 2). The wells in the S½ of Sec. 34 (GWIC 282891, 288798, 38097) are about 6,000 ft away, outside the review area.
Title block	The plat's title block shows Whiting Petroleum Corp. The operator of the Seminole 2557 SWD is Tangent Midstream LLC.

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WATER WELLS WITHIN $\frac{1}{4}$ MILE RADIUS							
GWIC WELL #	TYPE	TOTAL DEPTH	STATIC WATER LEVEL	TWP	RGE	SECTION	QQ
NA	NA	NA	NA	NA	NA	NA	NA

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LEGEND
● WATER WELL

WHITING
1001 FANNIN, SUITE 1500,
HOUSTON, TX 77002

4TH DIMENSION SURVEYING & CONSULTING
www.4dsc.us 701-580-5267

PAD LOCATION
THE SE ¼ OF THE SE ¼
SECTION 27, TOWNSHIP 25N, RANGE 57E
RICHLAND COUNTY, MONTANA

DATE: 9/14/2026
REVISIONS:

WATER WELLS
&
1/4-MILE RADIUS
SEMINOLE 2557 34-27

SHEET M-4

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A. Oil, gas, and plugged and abandoned wells within the exempted area

Well	API	Operator	Status	Distance to injection interval (ft)
Seminole 2557 34-27 2B	Pending	Whiting Petroleum Corp.	Planned	591
Seminole 2557 34-27 3B	Pending	Whiting Petroleum Corp.	Planned	611
Seminole 2557 34-27 4B	Pending	Whiting Petroleum Corp.	Planned	633
New South Wales Fed 2557 34-27 2B	Pending	Whiting Petroleum Corp.	Planned	656
New South Wales 2557 34-27 3B	Pending	Whiting Petroleum Corp.	Planned	679
New South Wales Fed 2557 34-27 4B	Pending	Whiting Petroleum Corp.	Planned	703
Seminole 2557 34-27 5B	25-083-23566	Whiting Petroleum Corp.	Permitted	832
Ellerston 2557 34-27 2B	25-083-23567	Whiting Petroleum Corp.	Permitted	853
New South Wales 2557 34-27 5B	25-083-23568	Whiting Petroleum Corp.	Permitted	874
Crystal Downs 2557 34-27 2B	25-083-23565	Whiting Petroleum Corp.	Permitted	897

All ten are planned Bakken horizontal wells on the Seminole 2557 34-27 pad. Each will penetrate the Inyan Kara near its surface location. No existing oil, gas, injection, or plugged and abandoned wells are within the exempted area.

B. Other oil and gas wells near the review area (exempted area plus ¼ mile)

Well	API	Status	Distance (ft)	Note
Hanson 31-34	25-083-21230	Plugged and abandoned (1980)	2,515	Within the review area; vertical well
Sorteberg 27-34 1H	25-083-22858	Producing oil (2012)	2,922	Outside the review area; vertical through the Inyan Kara at its surface location. Bakken lateral passes beneath the exempted area at ~10,500 ft TVD

C. Water wells within the exempted area and ¼ mile beyond

GWIC ID	Owner	Location	Total depth (ft)	Static water level (ft)	Completed	Distance (ft)
135057	Peterson Andrew & Emma	Sec. 27 BCB, T25N R57E	60	28	1993	2,634
38082	Peterson Andrew	Sec. 27 BBA, T25N R57E	530	280	1969	2,861

Source: Montana Bureau of Mines and Geology, Ground Water Information Center (GWIC). No water wells are within the exempted area. GWIC 135057 plots at the edge of the ¼-mile review area and GWIC 38082 just beyond it; both are shown because GWIC locations are tract centroids. All water wells within 1.2 miles are 60–530 ft deep, completed in shallow aquifers about 4,940 ft above the Inyan Kara.

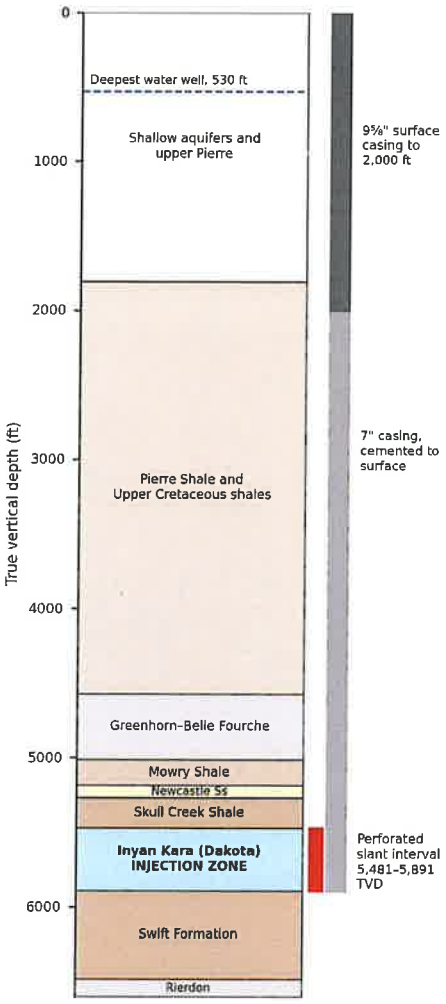
D. Wellhead protection areas, water samples, and public water supplies

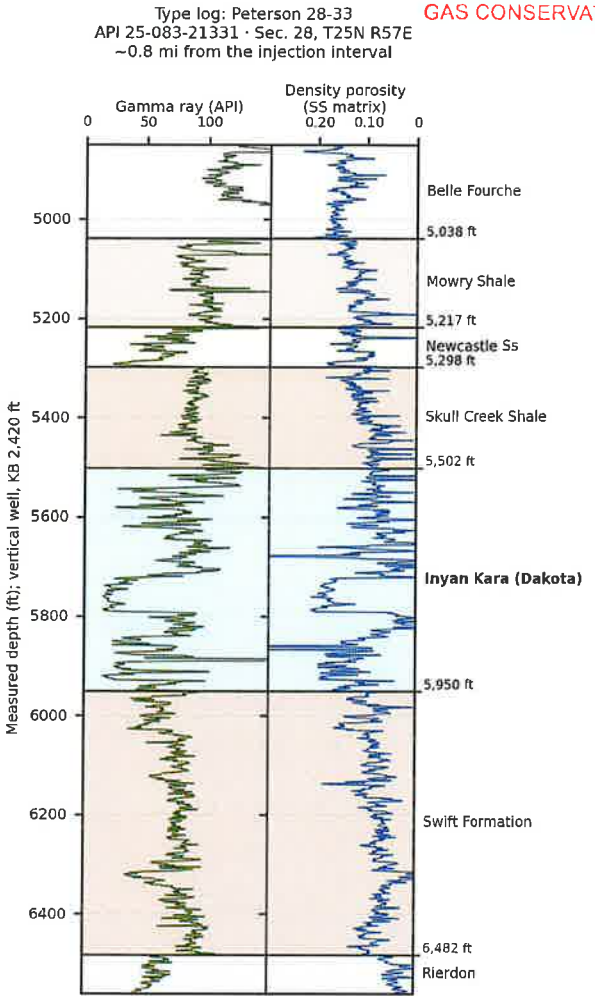
No wellhead or source water protection areas are delineated within the exempted area or ¼ mile beyond (Montana DEQ Source Water Protection Viewer, accessed October 28, 2026). No water samples have been collected within the review area; the Inyan Kara will be sampled after completion (Item 4). The Inyan Kara does not currently serve as a source of drinking water within the exempted area.

Nearest public water supplies	Facility	Distance from SWD	Direction
North Drive Mobile Home Ct (Sidney)	Well 2, GWIC 274674	12.7 mi	SE
Town of Fairview	Storage tank 2	13.1 mi	E
Redwood Park Work Camp Phase 1 (Dore)	Treatment plant	13.3 mi	E
Town of Bainville	Storage facility	17.7 mi	NNE
Lambert Sewer and Water Assn (Fox Lake)	Well 3, GWIC 214587	18.4 mi	SW

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Stratigraphy and confinement at the Seminole 2557 SWD





Formation. Inyan Kara Group (Lower Cretaceous; locally "Dakota"): interbedded sandstone, siltstone, and shale of the Fall River and Lakota intervals, from the top of the Dakota to the top of the Jurassic Swift Formation.

Depth and thickness. At the Seminole 2557 SWD, about 5,470 ft TVD (–3,120 ft subsea) at the Inyan Kara entry point to about 5,890 ft TVD (–3,540 ft subsea) at TD. Gross thickness at the SWD is about 445 ft (Exhibit 4).

Exempted area. The Inyan Kara within 1,320 ft (¼ mile) of the injection interval, 5,714–7,792 ft MD along a 78° slant toward 307°: 248.9 acres in Sections 27 and 26.

Confinement. The Skull Creek and Mowry shales and more than 3,000 ft of Upper Cretaceous marine shale separate the Inyan Kara from the shallow aquifers, which are isolated behind surface casing at 2,000 ft. The Swift Formation provides lower confinement. Production casing is cemented from TD to surface.

Unit	Top (MD, ft)	Thickness (ft)	Role
Mowry Shale	5,038	178	Upper confining
Newcastle (Muddy) Ss	5,217	81	Saline sandstone
Skull Creek Shale	5,298	204	Upper confining
Inyan Kara (Dakota)	5,502	448	Exempted aquifer
Swift Formation	5,950	532	Lower confining

Tops and thicknesses from the Peterson 28-33 type log. Depths above the Mowry at the SWD from the Plan 3 directional plan (October 28, 2026).

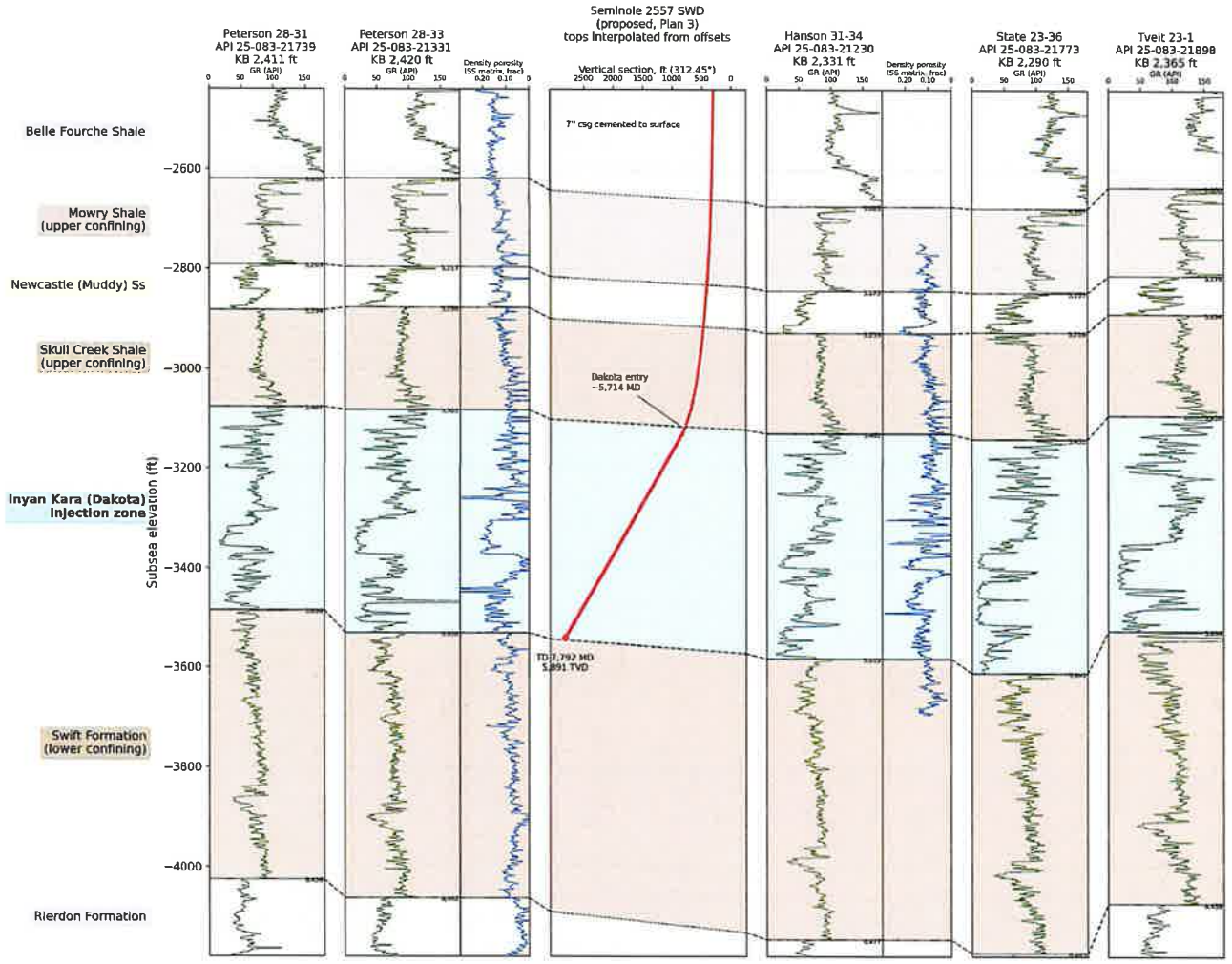
TANGENT
MIDSTREAM LLC
1001 Fannin St, Suite 1500
Houston, TX 77002

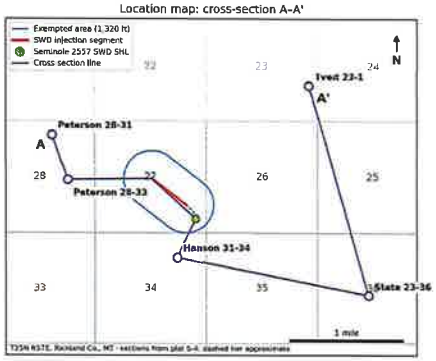
EXHIBIT 3
Stratigraphy, confining zones, type log, and well construction at the Seminole 2557 SWD

Application for Aquifer Exemption
Item 2: Narrative and type log
Montana Board of Oil and Gas Conservation; forwarded to EPA Region VIII

Tangent Midstream LLC
Seminole 2557 SWD
SE¼ SE¼ Sec. 27, T25N R57E
Richland County, Montana
October 2026

Cross-section A–A′ · Inyan Kara (Dakota) injection zone and confining units · datum: subsea · depths at unit tops are measured depth (ft)





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SUPPLEMENTAL EXHIBIT

Cross-section A–A′: wire-line logs through the Inyan Kara and confining zones in five offset wells, with the projected Seminole 2557 SWD path

Application for Aquifer Exemption

Item 2: Supporting wire-line logs

Montana Board of Oil and Gas Conservation; forwarded to EPA Region VIII

Tangent Midstream LLC

Seminole 2557 SWD
SE¼ SE¼ Sec. 27, T25N R57E
Richland County, Montana
October 2026

Pore volume of the proposed exempted aquifer

The exempted area is a ¼-mile (1,320 ft) radius around the full length of the injection interval: a circle of radius R stretched along the interval length L. The MBOGC formula is applied with that area.

$$\text{Pore Volume (bbl)} = (P \times R \times R + 2 \times R \times L) \times H \times F / 5.63$$

Term	Value	Source
P	3.14	MBOGC formula
R, radius of exempted area	1,320 ft	¼ mile
L, length of injection interval (map view)	2,034.4 ft	Plan 3: Dakota top (5,714 ft MD; 664.9 N, 466.1 W) to TD (7,792 ft MD; 1,903.1 N, 2,080.2 W)
Area = P × R × R + 2 × R × L	10,841,952 ft² (248.9 acres)	3.14 × 1,320 × 1,320 + 2 × 1,320 × 2,034.4
H, average thickness of the aquifer	444.6 ft	Gross Inyan Kara, Dakota top to Swift top (Table B)
F, average porosity	0.106	Density porosity over the gross interval (Table B)
Pore volume	90,755,804 bbl (90.8 million bbl)	10,841,952 × 444.6 × 0.106 / 5.63

Table B. Thickness and porosity from offset well logs

Well	API	Dakota top (ft)	Swift top (ft)	Gross H (ft)	Porosity F	Distance to interval midpoint (ft)
Hanson 31-34	25-083-21230	5,461	5,913	451	0.108	3,079
Peterson 28-33	25-083-21331	5,502	5,950	448	0.103	4,885
Peterson 28-31	25-083-21739	5,487	5,896	409	–	6,211
State 23-36	25-083-21773	5,431	5,901	469	–	10,623
Tveit 23-1	25-083-21898	5,458	5,890	432	–	8,319
Seminole 2557 SWD	Proposed			444.6	0.106	Weighted by inverse distance squared

Notes

1. Formation tops picked on gamma-ray logs. All five wells are vertical through the Inyan Kara, so measured depth equals true vertical depth.
2. Porosity F = (2.65 – bulk density) / (2.65 – 1.0), sandstone matrix, averaged over the full Dakota-to-Swift interval, excluding intervals of poor borehole quality. Only Hanson 31-34 and Peterson 28-33 have density logs through the Inyan Kara.
3. H and F at the SWD are averages of the offset wells weighted by the inverse square of their distance to the midpoint of the injection interval.
4. H is the gross thickness because the Inyan Kara will be perforated across the full slant section.
5. Per MBOGC guidance, the pore volume is made part of the UIC permit; the permit terminates when cumulative injection reaches 90.8 million barrels.

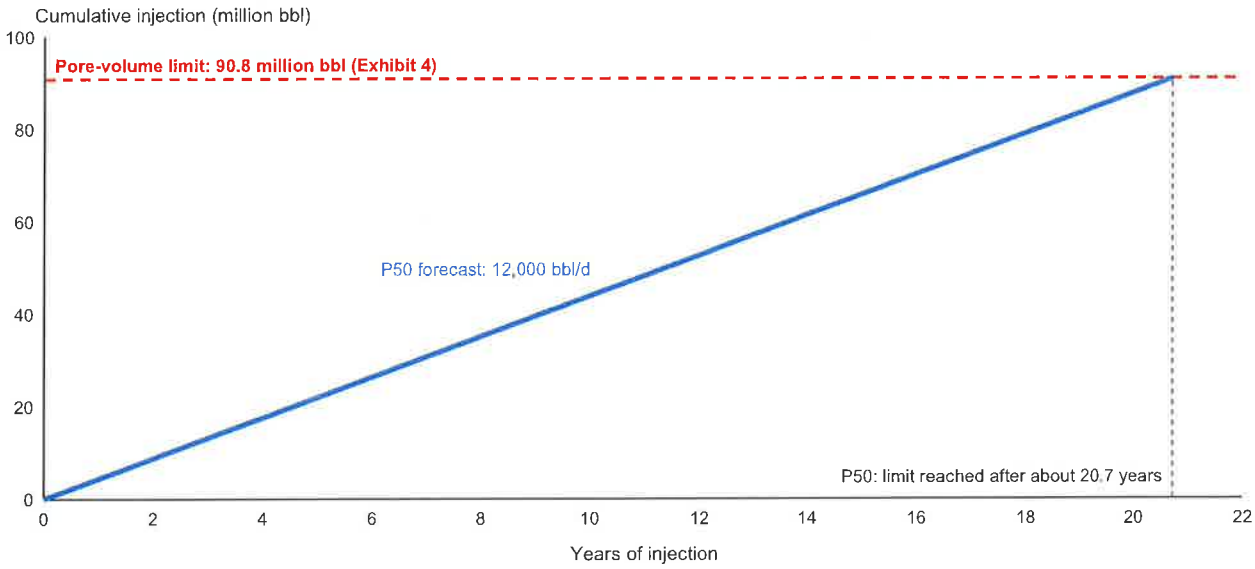
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Injection forecast versus the pore-volume limit

The P50 (median) injection forecast is an average of 12,000 bbl/d (4.38 million bbl per year). At the P50 rate, cumulative injection reaches the 90,755,804 bbl pore-volume limit of the exempted area (Exhibit 4) after about 20.7 years. Injection will stop when cumulative volume reaches the limit. This forecast is built on estimates and calculations. Injection rates will not be established until the well has been drilled and its injectivity has been tested.



Year	Annual (bbl)	Cumulative (bbl)	Remaining to limit (bbl)	Year	Annual (bbl)	Cumulative (bbl)	Remaining to limit (bbl)
1	4,380,000	4,380,000	86,375,804	12	4,380,000	52,560,000	38,195,804
2	4,380,000	8,760,000	81,995,804	13	4,380,000	56,940,000	33,815,804
3	4,380,000	13,140,000	77,615,804	14	4,380,000	61,320,000	29,435,804
4	4,380,000	17,520,000	73,235,804	15	4,380,000	65,700,000	25,055,804
5	4,380,000	21,900,000	68,855,804	16	4,380,000	70,080,000	20,675,804
6	4,380,000	26,280,000	64,475,804	17	4,380,000	74,460,000	16,295,804
7	4,380,000	30,660,000	60,095,804	18	4,380,000	78,840,000	11,915,804
8	4,380,000	35,040,000	55,715,804	19	4,380,000	83,220,000	7,535,804
9	4,380,000	39,420,000	51,335,804	20	4,380,000	87,600,000	3,155,804
10	4,380,000	43,800,000	46,955,804	21	3,155,804	90,755,804	0
11	4,380,000	48,180,000	42,575,804				

Year 21 is a partial year (about 263 days). The P50 rate is an estimated average planning case, not a measured rate; actual rates will be set after drilling and injectivity testing and will vary over the life of the well. Cumulative injection will be tracked and reported to the MBOGC.

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Water quality of the Inyan Kara: sampling plan

No water samples have been collected from the Inyan Kara within the exempted area. The operator will sample the Inyan Kara at the Seminole 2557 SWD after completion and submit the results to the MBOGC.

Element	Plan
Sampling method	Formation water will be recovered from the perforated Inyan Kara by swabbing or flowing back the well, and sampled once the returns are representative of formation water.
Sample location	Seminole 2557 SWD, perforated Inyan Kara (Dakota) interval.
Number of samples	One or more representative samples.
Sample volume	As required by the analytical laboratory.
Sample containers	Laboratory-supplied containers, sealed and labeled.
Sample handling	Handled and delivered to the laboratory under chain of custody, following the laboratory's requirements.
Analyses	Total dissolved solids, sodium, and chloride, by a certified laboratory.

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A. Water wells near the exempted area: depths, aquifers, and distances

Well	Location (T25N R57E)	Total depth (ft)	Aquifer	Distance to injection interval	Distance from exempted-area boundary	Water-quality record
GWIC 135057 (Peterson)	Sec. 27 BCB	60	Not recorded	2,634 ft	1,314 ft	None in NWIS
GWIC 38082 (Peterson); USGS 25N57E27BBA 01	Sec. 27 BBA	530	Fort Union Fm.	2,861 ft	1,541 ft	Field measurements only (1969)
USGS 25N57E26AAAB01	Sec. 26 AAAB	65	Tongue River Mbr., Fort Union	~1.3 mi	~1.0 mi	None
USGS 25N57E29AAAD01	Sec. 29 AAAD	818	Fort Union Fm.	~1.6 mi	~1.4 mi	1 sample, Sept. 6, 1978 (28 constituents)
USGS 25N57E09BBDA01	Sec. 9 BBDA	90	Tongue River Mbr., Fort Union	~3.6 mi	~3.3 mi	1 sample, Sept. 4, 1980 (44 constituents)
USGS 25N57E08AAC 01	Sec. 8 AAC	385	Fort Union Fm.	~3.7 mi	~3.5 mi	None
USGS 25N57E02BDDC01	Sec. 2 BDDC	142	Tongue River Mbr., Fort Union	~4.1 mi	~3.9 mi	None

Distances for the two GWIC wells are from Exhibit 2; distance from the boundary = distance to the injection interval minus 1,320 ft. USGS distances are computed from NWIS coordinates (approximate, ±0.1 mi). GWIC 38082 and USGS 25N57E27BBA 01 are the same well (same tract, 530 ft, 1969). Of the USGS-listed wells within about 4 miles, none is deeper than 818 ft; all GWIC wells within 1.2 miles are 60–530 ft deep (Exhibit 2).

B. Current and alternative water supply sources: depths and water quality

Source	Depth at the SWD (ft)	Total dissolved solids (mg/L)	Chloride (mg/L)	Sodium (mg/L)	Basis
USGS 25N57E29AAAD01, Fort Union Fm., 818 ft (~1.6 mi from the SWD)	–	~1,400 (calculated*)	4.5	600	USGS NWIS; sampled Sept. 6, 1978, analyzed by MBMG
USGS 25N57E09BBDA01, Tongue River Mbr., 90 ft (~3.6 mi from the SWD)	–	359	4.8	22	USGS NWIS; sampled Sept. 4, 1980, analyzed by MBMG
Upper Fort Union Fm., incl. Tongue River Mbr. (current domestic and stock supply)	Surface to ~820	371–3,590 (median 1,135)	1.7–162 (median 9.6)	Sodium-bicarbonate water	30 random domestic wells, Bakken area of MT and ND, sampled 2013 (1)
Fox Hills–Hell Creek (deepest fresh-water alternative)	Above ~1,800 (Exhibit 3)	~800–2,000	Not reported	Na >90% of cations	Western North Dakota (2)
Inyan Kara (Dakota): proposed exempted aquifer	**5,470–5,890 TVD**	**4,800–26,900 (Williston Basin range)**	**Site sample after completion (Item 4)**	**Site sample after completion (Item 4)**	**Basin-wide mapping (3); site value from swab samples**
Public water supplies	–	Meet MCLs	–	–	Nearest is 12.7 mi SE (Exhibit 2)

*No TDS was reported for the 1978 sample. The value is the sum of the reported major ions (bicarbonate converted to carbonate equivalent; sulfate not reported) and agrees with the specific conductance of 2,250 microsiemens/cm. Both samples are sodium or calcium bicarbonate water with low chloride.

C. Adequacy of current sources and distances to potential users (Part C-1 and C-2)

All current water use near the SWD is from wells 60–818 ft deep in the Fort Union Formation and shallower deposits, more than 4,600 ft above the Inyan Kara. These wells supply the area's rural domestic and stock needs. Regionally this water ranges from about 370 to 3,600 mg/L TDS (median 1,135), so it may need softening or point-of-use treatment but no desalination. The nearest well to the exempted area is GWIC 135057, about 1,314 ft outside the boundary. No wellhead or source water protection area lies within the review area. The nearest public water supply is 12.7 mi away (Exhibit 2). The Inyan Kara at the SWD is about 5,470 ft deep, and its water is expected to be much more saline than the shallow aquifers; a cost comparison is in Exhibit 8.

Sources: (1) McMahon, P.B., Caldwell, R.R., Galloway, J.M., Valder, J.F., and Hunt, A.G., 2015, Quality and age of shallow groundwater in the Bakken Formation production area, Williston Basin, Montana and North Dakota: Groundwater, v. 53, no. S1, p. 81–94, doi:10.1111/gwat.12296. (2) Horak, W.F., and Crosby, O.A., 1985, Geohydrologic reconnaissance of the Avoca lignite deposit area near Williston, northwestern North Dakota: USGS Water-Resources Investigations Report 85-4024. (3) Stephens, M.J., Hoogenboom, B.E., Ball, L.B., and Chang, W., 2026, Deep groundwater total dissolved solids mapping in the Dakota Group, Williston Basin, USA: Groundwater, v. 64, no. 3, p. 335–349, doi:10.1111/gwat.70066. Well data: USGS National Water Information System (accessed Oct. 29, 2026); Montana Bureau of Mines and Geology, Ground Water Information Center (GWIC).

Cost to develop drinking water from the Inyan Kara versus a shallow alternative

The comparison is for one rural household supply, the only kind of water use near the SWD (Exhibit 7). Costs are 2026 planning estimates. A drinking-water well in the Inyan Kara needs an oilfield rig and deep casing, and its water must be desalinated by reverse osmosis (RO) to meet the MCLs and the 500 mg/L secondary standard for TDS. RO also leaves a brine stream that must be hauled to disposal.

A. Inyan Kara (Dakota) water-supply well at the SWD

Item	Low ($)	High ($)	Basis
Drill and complete a ~5,950 ft vertical well: surface casing to ~2,000 ft, 7 in. casing cemented through the Inyan Kara, perforate	2,000,000	2,500,000	Operator estimate (Tangent Midstream) to drill and complete the Seminole 2557 SWD, used as the cost of a Dakota supply well of the same construction. For comparison, Big Bend 1-5 SWD, Inyan Kara, 5,444 ft TD: $1,085,900 actual (2014) (1).
Submersible pump, power supply, and wellhead	75,000	150,000	Planning estimate; pump set 1,000–2,000 ft
Pretreatment (iron, hydrogen sulfide) and brackish RO unit, household size (~500 gal/day)	25,000	60,000	Planning estimate; vendor quote needed
Brine storage tank and hauling setup	10,000	20,000	Planning estimate
Total capital	**2,110,000**	**2,730,000**	
Annual operating cost: power, membranes, chemicals, brine hauling and disposal	15,000	40,000	Planning estimate

B. Alternative: shallow Fort Union domestic well (530 ft, like GWIC 38082)

Item	Low ($)	High ($)	Basis
Drill and case 530 ft at $25–$65/ft	13,250	34,450	Montana drilling rates, 2026 (2)
Submersible pump and pressure tank	1,600	4,700	Montana installed costs, 2026 (2)
Water softener or point-of-use RO for ~1,100 mg/L TDS	1,300	4,500	Montana installed costs, 2026 (2)
Total capital	**16,150**	**43,650**	
Annual operating cost	200	600	Treatment maintenance (2)

C. Comparison

	Inyan Kara well	Shallow Fort Union well	Ratio
Depth to water-bearing zone	~5,470 ft	60–818 ft	~7–90×
Capital cost	$2.11–$2.73 million	$16,000–$44,000	~50–170×
Annual operating cost	$15,000–$40,000	$200–$600	~25–200×
Treatment needed	Desalination (RO) plus brine disposal	Softening or point-of-use	

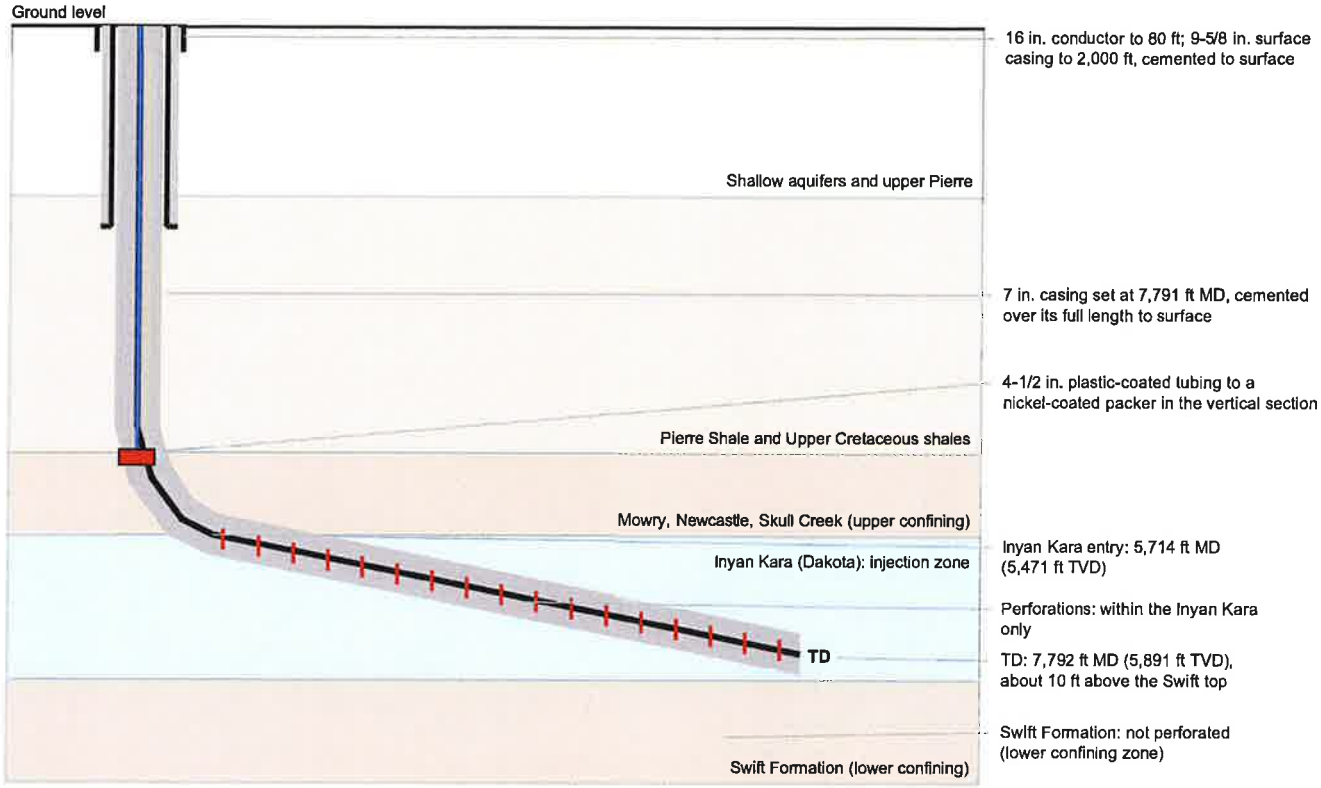
Even at the low end, an Inyan Kara supply would cost about 50 times more to build than a shallow well, and it would carry ongoing brine disposal. Shallow Fort Union water is already in use throughout the area (Exhibit 7). EPA Region 8 has reviewed similar comparisons: Big Bend 1-5 SWD, Inyan Kara, Mountrail Co., ND ($1,085,900 versus $40,000–$280,000 for shallow wells) (1), and MOGO Jody Field 34-2 in Pondera County, Montana ($1,000,000+ to drill plus more than $5,000,000 for treatment, versus less than $10,000 for a shallow domestic well; approved 2023) (3). For a small public system the gap is wider: brackish RO plants of 0.4–2.5 million gal/day cost $2.25–$8.44 per gallon/day of capacity to build (4). The Inyan Kara at this location is therefore at a depth and location that makes recovery for drinking water economically impractical (40 CFR 146.4(b)(2)).

Sources: (1) Slawson Exploration Co., Big Bend 1-5 SWD aquifer exemption request, Mountrail Co., ND, EPA Region 8, 2014. (2) AskDoss, How much does a well water system cost in Montana in 2026. (3) EPA Region 8, Record of decision, MOGO Jody Field 34-2 aquifer exemption expansion, permit MT52439-12514, 2023. (4) Texas Water Development Board, Cost of desalination in Texas, 2012 (2011 dollars).

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Perforation and total-depth plan

The Seminole 2557 SWD enters the Inyan Kara at a slant of about 78° toward 307° and reaches TD near the base of the Inyan Kara. Injection will be confined to the Inyan Kara.



Schematic, not to scale. Construction from the Seminole 2557 SWD wellbore diagram; depths from the Plan 3 directional plan (Oct. 28, 2026).

Element	Plan
Injection interval	Inyan Kara (Dakota), 5,481–5,891 ft TVD, along the slant section to TD at 7,792 ft MD (Exhibits 1 and 3).
Perforations	Placed only within the Inyan Kara, picked on the gamma-ray log. Final perforated interval, shot density, and phasing will be set at completion.
Total depth	7,792 ft MD (5,891 ft TVD), planned about 10 ft above the estimated Swift top. Swift tops near the SWD are estimated from sparse offset logs.
Lower confinement	No perforations will be placed in the Swift Formation, the lower confining zone, whether or not the well reaches it.
Well construction	16 in. conductor to 80 ft. 9-5/8 in. 36# J-55 surface casing to 2,000 ft in 13-1/2 in. hole, cemented to surface. 7 in. 32# P-110 casing set at 7,791 ft MD in 8-3/4 in. hole, cemented over its full length to surface. Injection through 4-1/2 in. internally plastic-coated tubing and a nickel-coated packer set in the vertical section above the build. Because this is a directional well, the packer is not set in the curved or slant section, where setting it is operationally impractical.
Upper confinement	Skull Creek and Mowry shales above the Inyan Kara, with the 7 in. casing cemented through them to surface.

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Wells penetrating the Inyan Kara in the review area

Eleven wells other than the SWD penetrate, or will penetrate, the Inyan Kara within the review area (exempted area plus ¼ mile; Exhibits 1 and 2): ten planned Bakken wells on the Seminole 2557 34-27 pad and one plugged and abandoned well.

A. Planned wells on the Seminole 2557 34-27 pad (not yet drilled)

Well	API	Status	Distance to injection interval (ft)	Casing and cement
Seminole 2557 34-27 2B	Pending	Planned	591	7 in. vertical, 4-1/2 in. horizontal; cemented TD to surface
Seminole 2557 34-27 3B	Pending	Planned	611	7 in. vertical, 4-1/2 in. horizontal; cemented TD to surface
Seminole 2557 34-27 4B	Pending	Planned	633	7 in. vertical, 4-1/2 in. horizontal; cemented TD to surface
New South Wales Fed 2557 34-27 2B	Pending	Planned	656	7 in. vertical, 4-1/2 in. horizontal; cemented TD to surface
New South Wales 2557 34-27 3B	Pending	Planned	679	7 in. vertical, 4-1/2 in. horizontal; cemented TD to surface
New South Wales Fed 2557 34-27 4B	Pending	Planned	703	7 in. vertical, 4-1/2 in. horizontal; cemented TD to surface
Seminole 2557 34-27 5B	25-083-23566	Permitted	832	7 in. vertical, 4-1/2 in. horizontal; cemented TD to surface
Ellerston 2557 34-27 2B	25-083-23567	Permitted	853	7 in. vertical, 4-1/2 in. horizontal; cemented TD to surface
New South Wales 2557 34-27 5B	25-083-23568	Permitted	874	7 in. vertical, 4-1/2 in. horizontal; cemented TD to surface
Crystal Downs 2557 34-27 2B	25-083-23565	Permitted	897	7 in. vertical, 4-1/2 in. horizontal; cemented TD to surface

None of the pad wells has been drilled. Each will penetrate the Inyan Kara near its surface location. Each will be cased with 7 in. casing in the vertical section and 4-1/2 in. casing in the horizontal section, cemented from total depth (MD and TVD) to surface. Cement will therefore cover the Inyan Kara and its upper and lower confining zones in every well.

B. Plugged and abandoned wells

Well	API	Status	Distance to injection interval (ft)	Isolation of the Inyan Kara
Hanson 31-34 (True Oil Co.)	25-083-21230	Drilled 1978; plugged and abandoned 1980	2,515	5-1/2 in. casing, cemented, left in hole from 4,753 to 9,370 ft across the Inyan Kara (5,461–5,913 ft). Cement plug at the casing stub (4,753 ft). Plugging record in Exhibit 10-A.

No existing oil, gas, injection, or plugged and abandoned wells are inside the exempted area itself (Exhibit 2). Sorteberg 27-34 1H (25-083-22858) is outside the review area.

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