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MONTANA BOARD OF OIL &  
GAS CONSERVATION • BILLINGS

**State of Montana**  
**Board of Oil and Gas Conservation**

**Docket No:** \_\_\_\_\_

Underground Injection Control  
Application

**Pearl 9-H SWD**  
**Sec. 09 T28N R58E**

**HYDRA Services LLC**

945 Bunker Hill Road, Suite 1200, Houston, TX 77024  
(713) 360-7705, fax (713) 360-7712

# Underground Injection Control (UIC) Permit Application Wildcat, Roosevelt Field

The following is submitted in support of our application to permit the drilling and completion of the Pearl 9-H SWD well for the purposes of water injection into the Dakota Group and related rocks within the proposed Wildcat, Roosevelt Field, as required by Rule 36.22.1403 of the Rules and Regulations of the Montana Board of Oil & Gas Conservation.

**1(a) Well Locations:**

The Pearl 9-H SWD well has been proposed for drilling and completion of a water injection within the Wildcat, Roosevelt Field in Roosevelt County, Montana as described below. Appendix I, depicts the surface location and a quarter ¼-mile radius representing the area of review (AOR) for this well at the SHL, along the wellbore and the BHL.

Pearl 9-H SWD  
1665' FNL, 345' FWL  
SWNW Sec. 09-T28N-R58E

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

There are currently no wells within the 1/4-mile AOR. The Northern XL multi-well pad (Benson 5-6-1 #4H, Wolfenberger 4-3-2-1 #14H, Cutlass 8-7-12 #1H, & Siren 9-10-11-12 #11H) is located within ¼-mile AOR. The Northern XL pad wells, targeting the Middle Bakken, are expected to be drilled and completed after the Pearl 9-H SWD is completed. Cement tops will be submitted to the Commission upon drilling of these wells.

There are no plugged and abandoned vertical wells within the 1/4-mile AOR.

**1(c) Location of All Pipelines:**

The Pearl 9-H SWD surface facilities will be constructed on the same pad as the Bluejay XL wells. Surface facilities for the Pearl 9-H SWD will be constructed on the same pad as the injection well.

Injection fluids will come from multiple oil wells in the area. The Pearl 9-H SWD will be tied into Hydra's existing Leviathan saltwater gathering line with the possibility of expansion in the future.

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

The Middle Bakken is the formation that will be producing within the quarter mile AOR of T28N R58E in Roosevelt County, MT. The Middle Bakken is anticipated to produce between 10,264'-29,500' within the ¼ mile area of review.

Fresh water well/monitoring data was obtained from the Montana Department of Natural Resources and Conservation, Water Resources, Division. There is one freshwater wells which produces within the ¼-Mile AOR of the proposed injector, but some monitoring wells are also within the ¼ AOR

<u>Location</u>	<u>S-T-R</u>	<u>Well ID</u>	<u>Well Name</u>	<u>Depth</u>
NW	8-28N-58E	130370	HANSEN RICHARD	120
SWSWNWNW	8-28N-58E	182268	MSCA -DICK HANSEN *RO-47 WELL #1	48

NENESWNW	8-28N-58E	182269	MSCA -DICK HANSEN *RO-47 WELL #5	18
NWSWSWNW	8-28N-58E	182270	SCA -DICK HANSEN *RO-47 WELL #2	13
NWSESENW	8-28N-58E	182271	MSCA -DICK HANSEN *RO-47 WELL #6	18
NWNENWSW	8-28N-58E	182272	MSCA -DICK HANSEN *RO-47 WELL #4	18

½ mile buffer of water wells

<u>Location</u>	<u>S-T-R</u>	<u>Well ID</u>	<u>Well Name</u>	<u>Depth</u>
SESWSESE	5-28N-58E	3478	KNUDSON WAYNE * IRRIGATION WELL #1	49
SESE	5-28N-58E	704626	C JOHNSON	35
SWSWSWSW	4-28N-58E	3477	THORNESS RICK	49
SWSW	4-28N-58E	704623	C CALDWELL	36
NWSWNWSW	8-28N-58E	182273	MSCA -DICK HANSEN *RO-47 WELL #3	38

Any potential USWDs are protected from the proposed injection zone by surface casing to set at 1,920' cemented to the surface. The production string, tubing and an injection packer will result in further isolation of fresh USWDs from injected fluids.

**1(e) Name and Geological Description of Injection Zone:**

The Lower Cretaceous Inyan Kara within the Dakota Group is roughly 451' thick in this area based on grid tops for the Inyan Kara and the lower confining Swift formation. The Inyan Kara consists of a sequence of alternating fluvial and deltaic sands, silts, and shales. It unconformably overlies the Swift formation. There are several prospective porosity intervals for injection from - - 3,099' SSTVD to 3,202' TVD and from -3,308' SSTVD to -3,346' SSTVD with sand packages ranging from 30' to 35' in thickness. The anticipated formation top for the Dakota (estimated KBTVD is 4614') and anticipated formation top for first Dakota perforation (estimated KBTVD is 5073'). 4. Zone or formation into which injection will occur, including depth: DAKOTA from 4614' - 5505'

The Cretaceous Mowry formation is the overlying confining formation for the Inyan Kara. The Mowry is estimated to be approximately 442' thick and comprised of black to gray, siliceous, fissile shales and siltstones containing bentonite layers.

The Jurassic Swift formation is the lower confining formation for the Inyan Kara. It is predominantly a transgressive-regressive, clastic, shallow marine deposit composed of dark-gray to greenish shales, and slightly calcareous, glauconitic siltstones and sandstones. The basal 150' to 200' are predominantly beds of slightly calcareous, dark-gray to greenish, waxy shales, commonly interbedded with glauconitic siltstones and sandstones with occasional carbonate units consisting of sand-sized skeletal packstones and grainstones. The upper half of the Swift is mostly shaly, glauconitic siltstones and sandstones with associated shales. The Swift formation is approximately 534' thick in this area.

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

There are no current active wells in the AOR. The Northern XL pad wells, targeting the Middle Bakken, are expected to be drilled and completed after the Pearl 9-H SWD is completed. Cement tops will be submitted to the Commission upon drilling of these wells.

**1(g) Open Hole Logs:**

The Pearl 9-H SWD will be a new drill SWD. The logging program will consist of a CBL/CCL/GR log ran from TD to Surface during the completion of the well. Any logs and test data run on the Pearl 9-H 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 and directional plans for the Pearl 9-H SWD. Perforations will be selected after logs will be run. Appendix VI, illustrates the plan for completion of the subject well. The Dakota Group perforations will be acidized with 12,000 gallons of 15% HCL using rock salt for diversion with a maximum allowable treating pressure of 5,000 PSIG at the wellhead during stimulation.

The 7-5/8" Intermediate section will be drilled to approximately 5,599' at which point we will drill the curve section at 10°/100 ft to LP and drill lateral section to approximately 10,585' MD. 4.5" casing will be ran to TD, TVD will be at 5,495'.

**1(i) Description of Injection Fluid:**

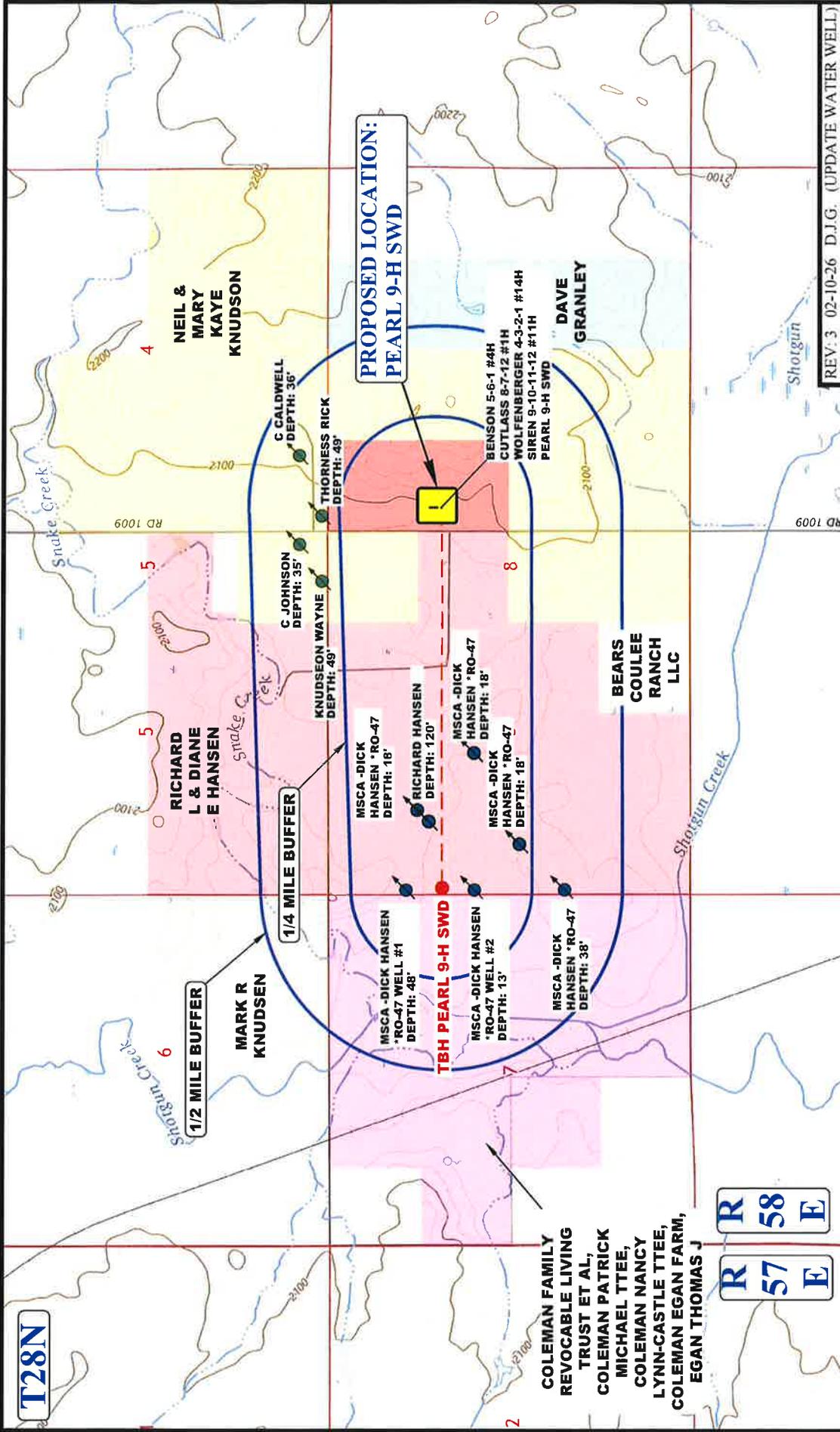
The Pearl 9-H SWD will primarily be used to inject produced water from wells producing from the Bakken formation in the surrounding area. Water from the Red River, Madison and other producing intervals of the Williston Basin may also be disposed of in the Pearl 9-H SWD , depending on future development plans. Appendix VII, depicts a representative water analyses from a Bakken well in the area well that will be injected at the Pearl 9-H SWD . The Dakota formation has been the most prevalent disposal domain throughout Eastern Montana and North Dakota.

**1(j) Names of Owners of Record:**

The surface owners and mineral owners within the AOR are presented in Appendix VIII. Hydra Services LLC MT, LLC has notified the current operators, surface owners and lease owners in accordance with 36.22.1410 1) notification requirements for an underground injection permit. Appendix IX is an affidavit attesting to the fact that notices have been mailed.

**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/Directional Plans
- VI Proposed Completion Procedure
- VII Water Analysis – Source Waters
- VIII List of Surface Owners/Mineral Owners in ¼-Mile 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 & Roundup



REV.3 02-10-26 D.J.G. (UPDATE WATER WELL)

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

**LEGEND:**

WATER WELLS



**HYDRA SERVICES, LLC**

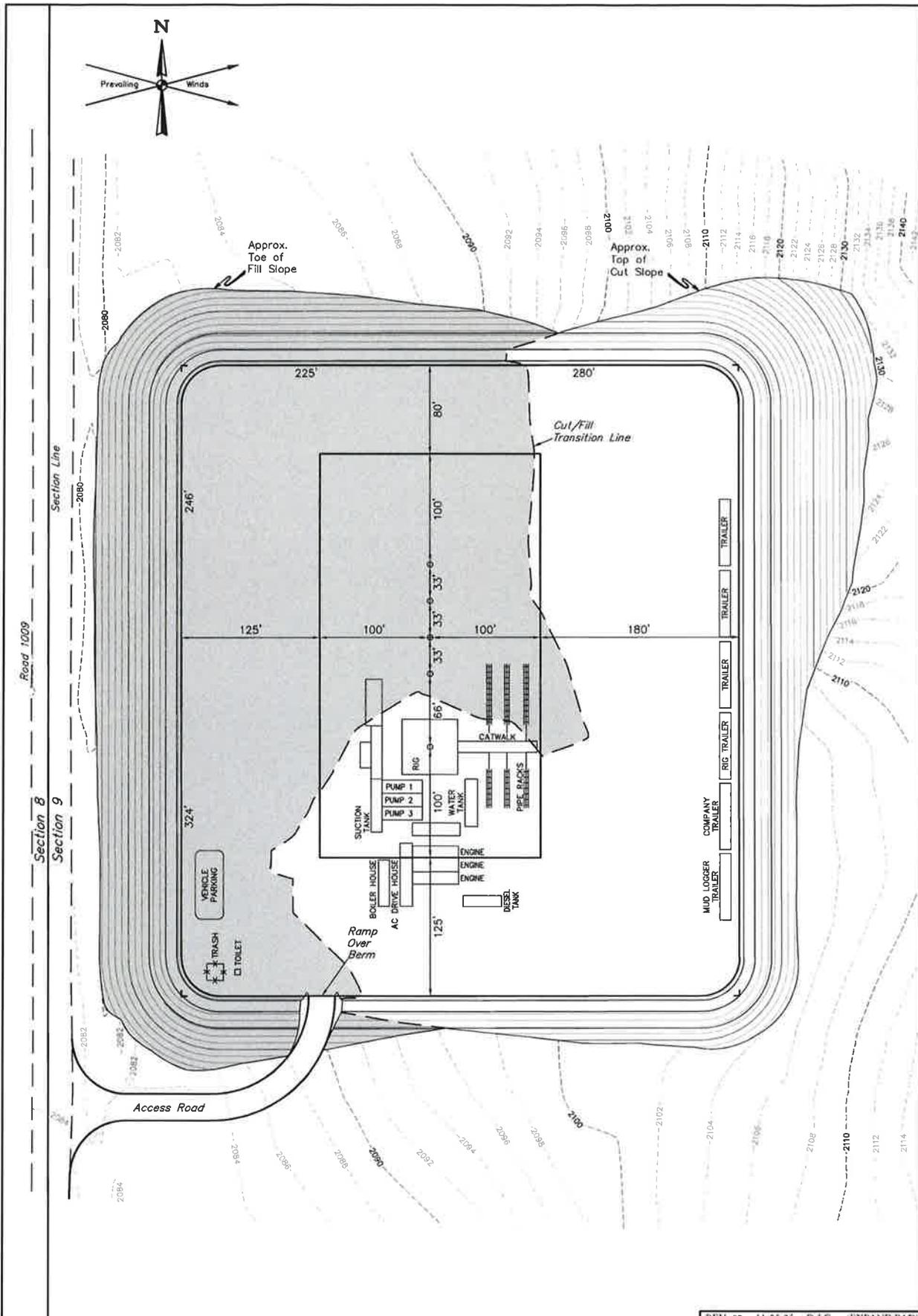
PEARL 9-H SWD  
 SW 1/4 NW 1/4, SECTION 9, T28N, R58E, P.M.M.  
 ROOSEVELT COUNTY, MONTANA

SURVEYED BY	D.L., T.B.	07-23-25	SCALE
DRAWN BY	K.C.	09-12-25	1" = 24,000'

**WELL PROXIMITY MAP TOPO C**

UELS, LLC  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017





REV 02 11-25-25 D.J.G. (EXPAND PAD)

- NOTES:**
- Flare stack is to be located a min. of 100' from the wellhead
  - Contours shown at 2' intervals



**UELS, LLC**  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017

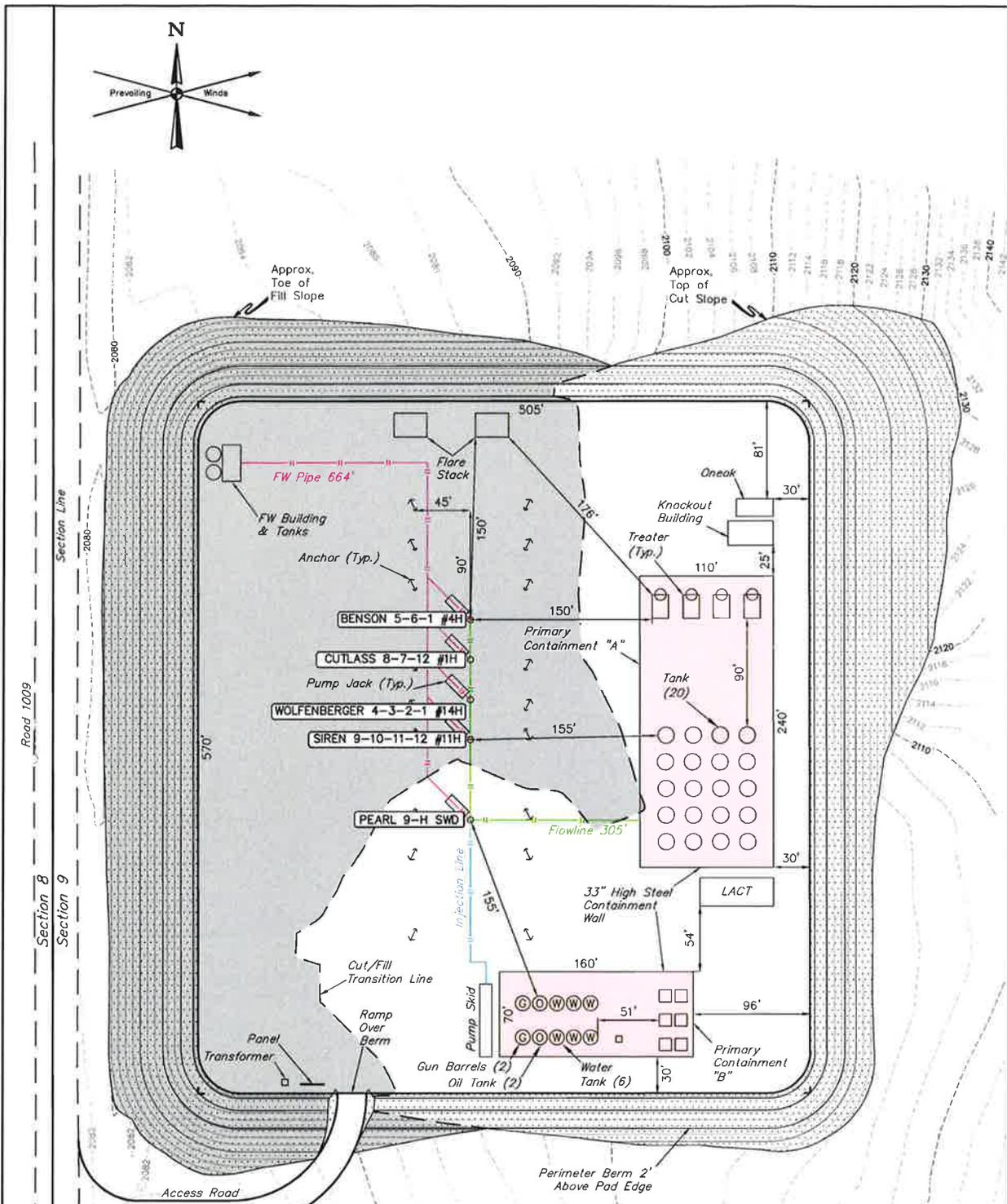
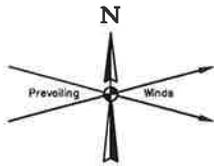


**HYDRA SERVICES, LLC**

PEARL 9-H SWD  
 SW 1/4 NW 1/4, SECTION 9, T28N, R58E, P.M.M.  
 ROOSEVELT COUNTY, MONTANA

SURVEYED BY	D.L., T.B.	07-23-25	SCALE
DRAWN BY	K.C.	09-12-25	1" = 80'

**TYPICAL RIG LAYOUT**



<p><b>PRIMARY CONTAINMENT "A" VOLUME EVALUATION</b></p> <ul style="list-style-type: none"> <li>TOTAL CONTAINMENT VOLUME WITHIN THE STEEL CONTAINMENT WALL = 12931 BBLS</li> <li>VOLUME USED BY INTACT TANKS IF LARGEST TANK FAILS = 1331 BBLS</li> </ul>
<p><b>PRIMARY CONTAINMENT "B" VOLUME EVALUATION</b></p> <ul style="list-style-type: none"> <li>TOTAL CONTAINMENT VOLUME WITHIN THE STEEL CONTAINMENT WALL = 5485 BBLS</li> <li>VOLUME USED BY INTACT TANKS IF LARGEST TANK FAILS = 498 BBLS</li> </ul>
<p><b>SECONDARY CONTAINMENT VOLUME EVALUATION</b></p> <ul style="list-style-type: none"> <li>PAD CONTAINMENT WITH EARTHEN BERM = 90964 BBLS</li> </ul>

**NOTES:**

- Contours shown at 2' intervals

TANK VOLUMES		
<p><b>WATER TANK</b> DIA: 12'</p>	<p><b>OIL TANK</b> DIA: 12'</p>	<p><b>TANK</b> DIA: 13.5'</p>

LEGEND:	
	Reclaimed Area
	Synthetic Liner

REV: 03 11-25-25 D.J.G.  
(EXPAND PAD)

APPROXIMATE PRODUCTION PAD ACREAGE = +6.584 ACRES  
APPROXIMATE RECLAIMED AREA ACREAGE = +3.592 ACRES  
TOTAL ACREAGE = +10.176 ACRES



**UELS, LLC**  
Corporate Office \* 85 South 200 East  
Vernal, UT 84478 \* (435) 789-1017



**HYDRA SERVICES, LLC**

PEARL 9-H SWD  
SW 1/4 NW 1/4, SECTION 9, T28N, R58E, P.M.M.  
ROOSEVELT COUNTY, MONTANA

SURVEYED BY	D.L. T.B.	07-23-25	SCALE
DRAWN BY	K.C.	09-12-25	1" = 80'

**INTERIM RECLAMATION PLAN**

# Kraken Resources, LLC

## Representative Log

Bercier #10-9

250852167300

Sec 9, T28N R58E

Horizontal Scale = 0.1  
Vertical Scale = 20.0  
Vertical Exaggeration = 0.0x

### LOG CURVES

0 170 GR (GAPI) Calibrated Gamma-Ray (F12.3)  
0 6 RLA4 (OHMM) HRLT Borehole Corrected Resistivity 4 (F)  
0 6 RLA5 (OHMM) HRLT Borehole Corrected Resistivity 5 (F)

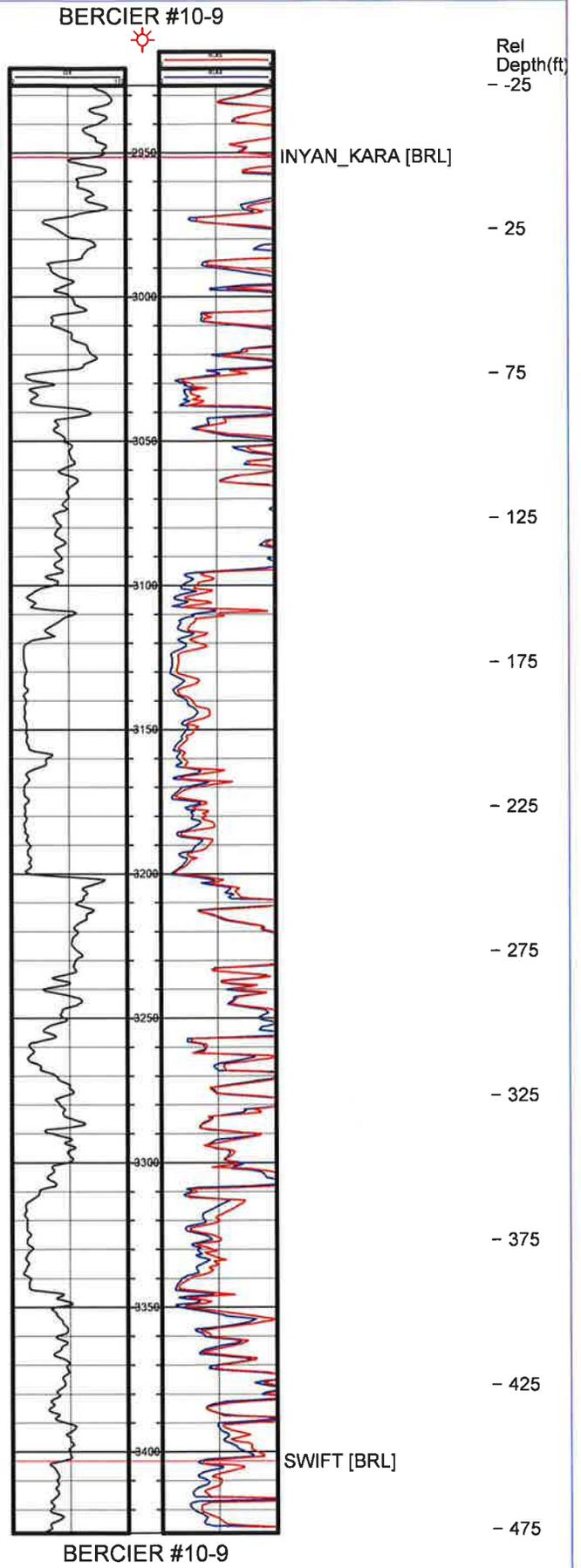
### TOPS AND MARKERS

— INYAN\_KARA BRL  
— SWIFT BRL

Well Label



Rel  
Depth(ft)  
-25 -  
25 -  
75 -  
125 -  
175 -  
225 -  
275 -  
325 -  
375 -  
425 -  
475 -



# Hydra Services, LLC

Well Name: Pearl 9-H SWD  
 Legals: SWNW Sec. 9 T28N-R58E  
 County, State: Roosevelt Co., Montana  
 Date: 1/29/2026  
 G.L. 2,094 K.B. 26

Proposed Installation					
Installation	Set Depth	Length	Description	OD	ID
	80.00	80.00	<u>Casing Description:</u> Conductor- 65# H-40	16.000	15.250
	1,920.00	1,920.00	Surface Casing- 36# J-55 BTC	9.625	8.921
	5,599.00	5,599.00	Production Casing- 29.70# P-110 BTC	7.625	6.875
	10,585.00	5,086.00	Production Liner- 13.5# P-110 BTC	4.500	3.921
			<u>Cement:</u> <u>Surface CSG:</u> Lead: 297sx 12.1# Varicem CMT, 2.40 ft3/sx Tail: 135sx 14.2# Varicem CMT, 1.63 ft3/sx TOC: Surface		
			<u>Production CSG:</u> Lead: 160sx 11.5# NeoCem CMT, 2.32 ft3/sx TOC: Est. 1920'		
			<u>Liner CSG:</u> Lead: Uncemented		
			<u>WellHead:</u> 11" 5M		
			<u>Peforations:</u> 1 SPF		
			<u>Completion:</u> 7 5/8" Nickel Plated AS1-X PKR		
		<u>Stimulation:</u> 12,000 Gal of 15% HCL Est. 6,000#'s Rock Salt Diversion Est. Treat Rate- 10 BPM Est. Treat Max Press- 5,000 PSIG			
	5,300.00				
	10,000.00				
	5,250.00				
			TD @ 10,585' MD 5,495' TVD		

**WELL DETAILS: PEARL 9-H SWD  
PLAN #1**

**+N/-S** 0.00    **+E/-W** 0.00    **GL Elev (ft):** 2094.00    **Latitude** 48.1965400    **Longitude** -104.2452130  
**Northing** 1481736.84    **Easting** 3248688.30

**Hydra Services, LLC**



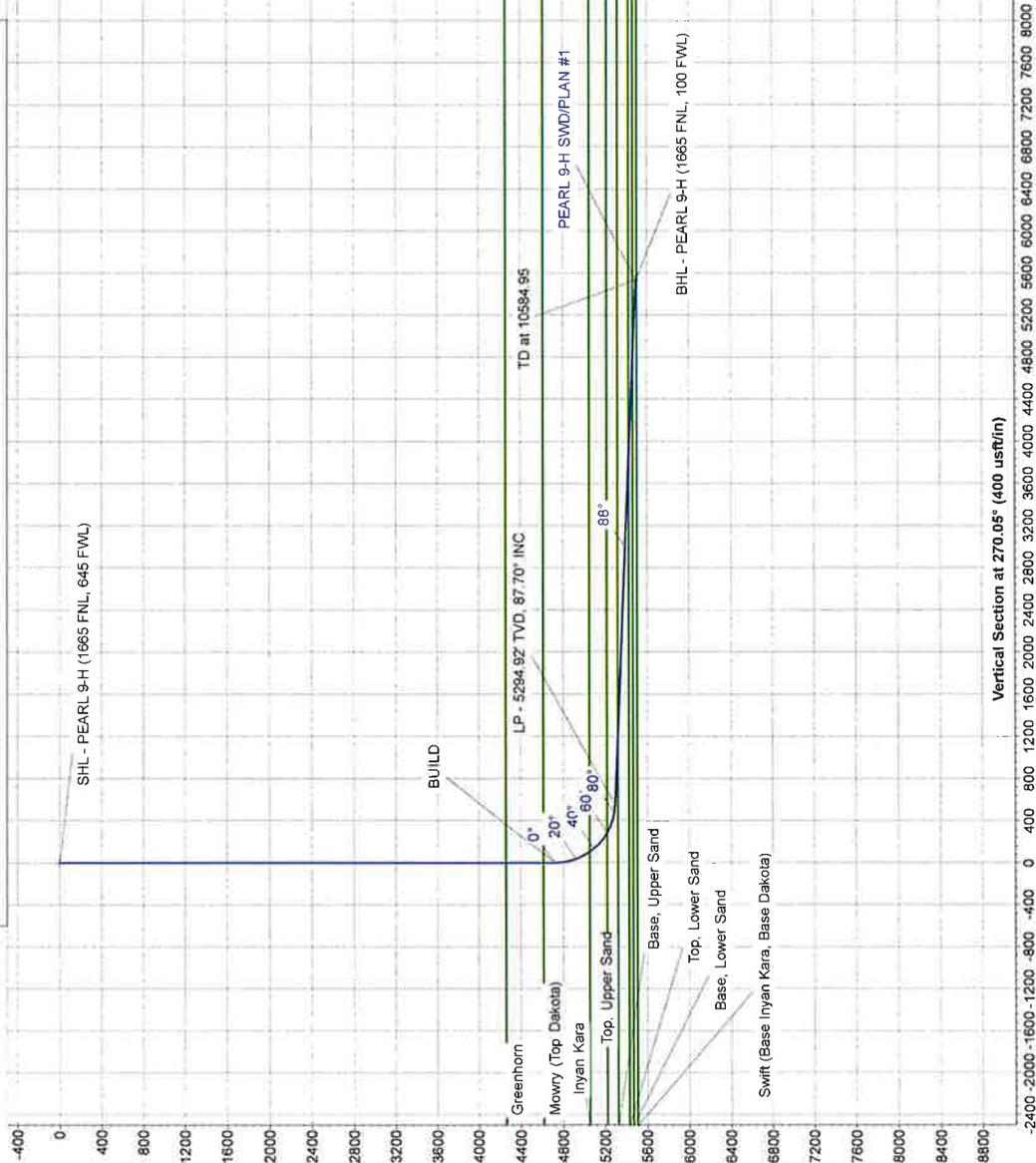
**T M** Azimuths to True North  
 Magnetic North: 7.95°  
 Magnetic Field Strength: 54989.4nT  
 Dip Angle: 72.30°  
 Date: 1/27/2026  
 Model: HDGM2026

**DESIGN TARGET DETAILS**

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL - PEARL 9-H (1665 FNL, 645 FWL)	0.00	0.00	1481736.84	3248688.30	48.1965400	-104.2452130
BHL - PEARL 9-H (1665 FNL, 100 FWL)	4.45	-5531.47	1481370.46	3243168.97	48.1965500	-104.2679010

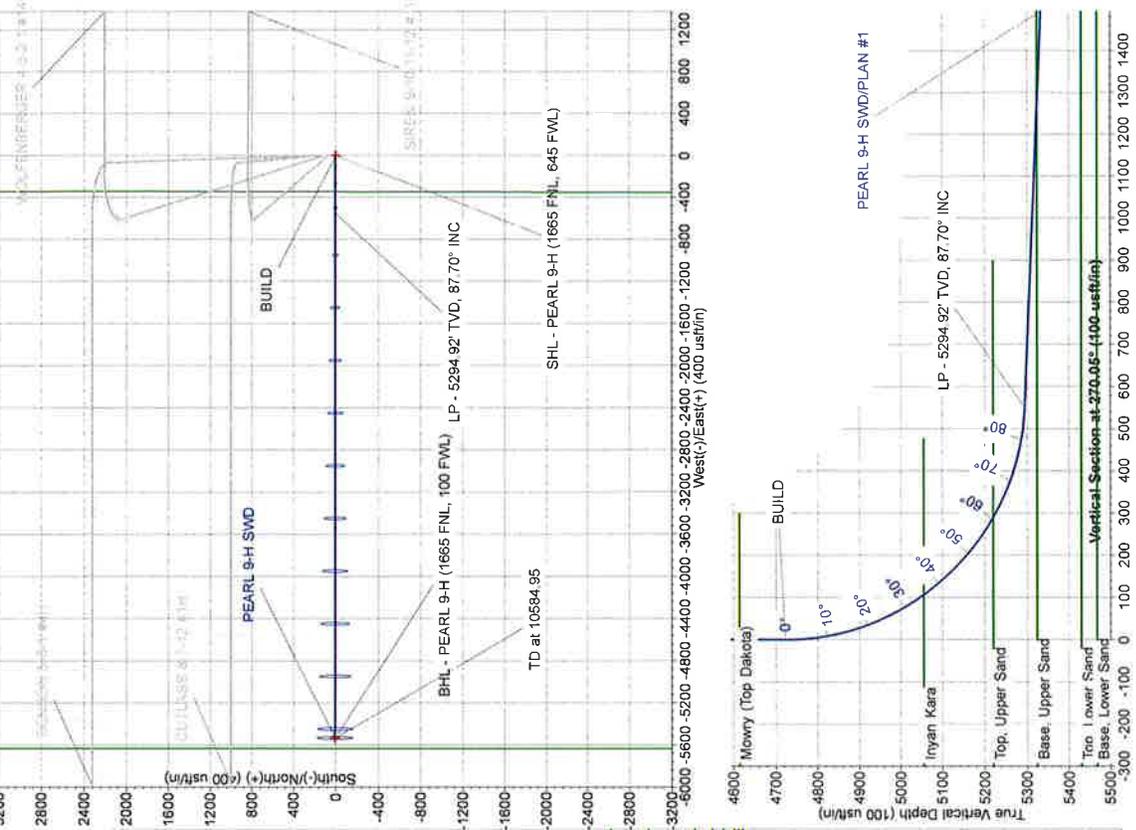
**SECTION DETAILS**

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	BUILD
4722.43	0.00	0.00	4722.43	0.00	0.00	0.00	0.00	0.00	BUILD
5599.43	87.70	270.05	5294.92	0.44	-549.96	10.00	270.05	549.96	LP - 5294.92 TVD, 87.70° INC
10584.95	87.70	270.05	5495.00	4.45	-5531.47	0.00	0.00	5531.47	TD at 10584.95



**Project:** Roosevelt County, MT  
**Site:** S9-T28N-R58E (Pearl)  
**Well:** PEARL 9-H SWD  
**Wellbore:** OH  
**Design:** PLAN #1

Sec. 8-T28N-R58E  
 Sec. 9-T28N-R58E  
 S9-T28N-R58E (Pearl)



Vertical Section at 370.05° (100 usft/in)  
 Vertical Section at 270.05° (400 usft/in)

# Hydra Services, LLC

Roosevelt County, MT

S9-T28N-R58E (Pearl)

PEARL 9-H SWD

OH

Plan: PLAN #1



## Standard Plan Report

27 January, 2026

*Total Report Version 1.80*

*COMPASS 5000.16 Build 97*

### **ATTENTION**

All annotation callouts related to distances are uncertified and are approximated footages using available software and measurement tools. They should not be mistaken as an official record, which can only be obtained via a certified land surveyor.

Planned Survey Report

<b>Company:</b>	Hydra Services, LLC	<b>Local Co-ordinate Reference:</b>	Well PEARL 9-H SWD
<b>Project:</b>	Roosevelt County, MT	<b>TVD Reference:</b>	26' KB @ 2120.00usft
<b>Site:</b>	S9-T28N-R58E (Pearl)	<b>MD Reference:</b>	26' KB @ 2120.00usft
<b>Well:</b>	PEARL 9-H SWD	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	PLAN #1	<b>Database:</b>	Total Directional Production DB

<b>Project</b>	Roosevelt County, MT		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Montana		

<b>Site</b>	S9-T28N-R58E (Pearl)		
<b>Site Position:</b>		<b>Northing:</b>	1,481,736.84 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,248,688.30 usft
		<b>Longitude:</b>	-104.2452130
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "

<b>Well</b>	PEARL 9-H SWD		
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b> 1,481,736.84 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b> 3,248,688.30 usft
			<b>Latitude:</b> 48.1965400
			<b>Longitude:</b> -104.2452130
<b>Position Uncertainty</b>	0.00 usft	<b>Wellhead Elevation:</b>	usft
<b>Grid Convergence:</b>	3.84 °	<b>Ground Level:</b>	2,094.00 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
	HDGM2026	1/27/2026	(°) 7.95	(°) 72.30	(nT) 54,989.40000000

<b>Design</b>	PLAN #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	270.05	

<b>Survey Tool Program</b>	<b>Date</b>	1/27/2026			
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
(usft)	(usft)				
0.00	10,584.95	PLAN #1 (OH)	MWD+HRGM+FDIR	ISCWSA MWD+HRGM+FDIR	

<b>Plan Summary</b>										
<b>Measured</b>			<b>Vertical</b>			<b>Dogleg</b>	<b>Build</b>	<b>Turn</b>		
<b>Depth</b>	<b>Inclination</b>	<b>Azimuth</b>	<b>Depth</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Rate</b>	<b>Rate</b>	<b>Rate</b>	<b>TFO</b>	<b>Target</b>
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,722.43	0.00	0.00	4,722.43	0.00	0.00	0.00	0.00	0.00	0.00	
5,599.43	87.70	270.05	5,294.92	0.44	-549.96	10.00	10.00	0.00	270.05	
10,584.95	87.70	270.05	5,495.00	4.45	-5,531.47	0.00	0.00	0.00	0.00	BHL - PEARL 9-H (16)

Planned Survey Report

<b>Company:</b>	Hydra Services, LLC	<b>Local Co-ordinate Reference:</b>	Well PEARL 9-H SWD
<b>Project:</b>	Roosevelt County, MT	<b>TVD Reference:</b>	26' KB @ 2120.00usft
<b>Site:</b>	S9-T28N-R58E (Pearl)	<b>MD Reference:</b>	26' KB @ 2120.00usft
<b>Well:</b>	PEARL 9-H SWD	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	PLAN #1	<b>Database:</b>	Total Directional Production DB

Planned Survey													
Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)				
0.00	0.00	0.00	0.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00

Planned Survey Report

<b>Company:</b>	Hydra Services, LLC	<b>Local Co-ordinate Reference:</b>	Well PEARL 9-H SWD
<b>Project:</b>	Roosevelt County, MT	<b>TVD Reference:</b>	26' KB @ 2120.00usft
<b>Site:</b>	S9-T28N-R58E (Pearl)	<b>MD Reference:</b>	26' KB @ 2120.00usft
<b>Well:</b>	PEARL 9-H SWD	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	PLAN #1	<b>Database:</b>	Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)				
3,700.00	0.00	0.00	3,700.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
4,260.00	0.00	0.00	4,260.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
<b>Greenhorn</b>													
4,300.00	0.00	0.00	4,300.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
4,614.00	0.00	0.00	4,614.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
<b>Mowry (Top Dakota)</b>													
4,700.00	0.00	0.00	4,700.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
4,722.43	0.00	0.00	4,722.43	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130	0.00	0.00	0.00	0.00
<b>BUILD</b>													
4,800.00	7.76	270.05	4,799.76	0.00	-5.24	1,481,736.49	3,248,683.06	48.1965400	-104.2452345	5.24	10.00	10.00	0.00
4,900.00	17.76	270.05	4,897.17	0.02	-27.30	1,481,735.03	3,248,661.06	48.1965401	-104.2453249	27.30	10.00	10.00	0.00
5,000.00	27.76	270.05	4,989.27	0.05	-65.93	1,481,732.47	3,248,622.51	48.1965402	-104.2454834	65.93	10.00	10.00	0.00
5,078.48	35.61	270.05	5,056.00	0.09	-107.12	1,481,729.74	3,248,581.42	48.1965403	-104.2456523	107.12	10.00	10.00	0.00
<b>Inyan Kara</b>													
5,100.00	37.76	270.05	5,073.26	0.10	-119.97	1,481,728.89	3,248,568.59	48.1965403	-104.2457051	119.97	10.00	10.00	0.00
5,200.00	47.76	270.05	5,146.59	0.15	-187.77	1,481,724.40	3,248,500.93	48.1965404	-104.2459832	187.78	10.00	10.00	0.00
5,300.00	57.76	270.05	5,207.03	0.22	-267.28	1,481,719.14	3,248,421.60	48.1965406	-104.2463093	267.28	10.00	10.00	0.00
5,327.22	60.48	270.05	5,221.00	0.23	-290.64	1,481,717.59	3,248,398.30	48.1965407	-104.2464051	290.64	10.00	10.00	0.00
<b>Top, Upper Sand</b>													
5,400.00	67.76	270.05	5,252.75	0.29	-356.08	1,481,713.25	3,248,333.00	48.1965408	-104.2466735	356.08	10.00	10.00	0.00
5,500.00	77.76	270.05	5,282.35	0.36	-451.46	1,481,706.94	3,248,237.83	48.1965410	-104.2470647	451.46	10.00	10.00	0.00
5,599.43	87.70	270.05	5,294.92	0.44	-549.96	1,481,700.41	3,248,139.54	48.1965412	-104.2474687	549.96	10.00	10.00	0.00
<b>LP - 5294.92' TVD, 87.70° INC</b>													
5,600.00	87.70	270.05	5,294.95	0.44	-550.54	1,481,700.37	3,248,138.97	48.1965412	-104.2474711	550.54	0.00	0.00	0.00
5,700.00	87.70	270.05	5,298.96	0.52	-650.46	1,481,693.76	3,248,039.27	48.1965414	-104.2478809	650.46	0.00	0.00	0.00
5,800.00	87.70	270.05	5,302.97	0.60	-750.38	1,481,687.14	3,247,939.57	48.1965416	-104.2482907	750.38	0.00	0.00	0.00
5,900.00	87.70	270.05	5,306.98	0.68	-850.30	1,481,680.52	3,247,839.87	48.1965419	-104.2487006	850.30	0.00	0.00	0.00
6,000.00	87.70	270.05	5,311.00	0.76	-950.22	1,481,673.90	3,247,740.17	48.1965421	-104.2491104	950.22	0.00	0.00	0.00
6,100.00	87.70	270.05	5,315.01	0.84	-1,050.13	1,481,667.28	3,247,640.47	48.1965423	-104.2495202	1,050.14	0.00	0.00	0.00
6,200.00	87.70	270.05	5,319.02	0.93	-1,150.05	1,481,660.67	3,247,540.77	48.1965425	-104.2499301	1,150.05	0.00	0.00	0.00
6,300.00	87.70	270.05	5,323.04	1.01	-1,249.97	1,481,654.05	3,247,441.07	48.1965427	-104.2503399	1,249.97	0.00	0.00	0.00

Planned Survey Report

<b>Company:</b>	Hydra Services, LLC	<b>Local Co-ordinate Reference:</b>	Well PEARL 9-H SWD
<b>Project:</b>	Roosevelt County, MT	<b>TVD Reference:</b>	26' KB @ 2120.00usft
<b>Site:</b>	S9-T28N-R58E (Pearl)	<b>MD Reference:</b>	26' KB @ 2120.00usft
<b>Well:</b>	PEARL 9-H SWD	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	PLAN #1	<b>Database:</b>	Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)				
6,323.99	87.70	270.05	5,324.00	1.02	-1,273.94	1,481,652.46	3,247,417.15	48.1965427	-104.2504382	1,273.95	0.00	0.00	0.00
<b>Base, Upper Sand</b>													
6,400.00	87.70	270.05	5,327.05	1.09	-1,349.89	1,481,647.43	3,247,341.37	48.1965429	-104.2507497	1,349.89	0.00	0.00	0.00
6,500.00	87.70	270.05	5,331.06	1.17	-1,449.81	1,481,640.81	3,247,241.67	48.1965431	-104.2511586	1,449.81	0.00	0.00	0.00
6,600.00	87.70	270.05	5,335.08	1.25	-1,549.73	1,481,634.19	3,247,141.97	48.1965433	-104.2515694	1,549.73	0.00	0.00	0.00
6,700.00	87.70	270.05	5,339.09	1.33	-1,649.65	1,481,627.57	3,247,042.27	48.1965435	-104.2519792	1,649.65	0.00	0.00	0.00
6,800.00	87.70	270.05	5,343.10	1.41	-1,749.57	1,481,620.96	3,246,942.57	48.1965437	-104.2523891	1,749.57	0.00	0.00	0.00
6,900.00	87.70	270.05	5,347.12	1.49	-1,849.49	1,481,614.34	3,246,842.87	48.1965439	-104.2527989	1,849.49	0.00	0.00	0.00
7,000.00	87.70	270.05	5,351.13	1.57	-1,949.41	1,481,607.72	3,246,743.17	48.1965441	-104.2532087	1,949.41	0.00	0.00	0.00
7,100.00	87.70	270.05	5,355.14	1.65	-2,049.33	1,481,601.10	3,246,643.47	48.1965442	-104.2536186	2,049.33	0.00	0.00	0.00
7,200.00	87.70	270.05	5,359.16	1.73	-2,149.25	1,481,594.48	3,246,543.77	48.1965444	-104.2540284	2,149.25	0.00	0.00	0.00
7,300.00	87.70	270.05	5,363.17	1.81	-2,249.17	1,481,587.86	3,246,444.07	48.1965446	-104.2544382	2,249.17	0.00	0.00	0.00
7,400.00	87.70	270.05	5,367.18	1.89	-2,349.09	1,481,581.25	3,246,344.37	48.1965448	-104.2548480	2,349.09	0.00	0.00	0.00
7,500.00	87.70	270.05	5,371.20	1.97	-2,449.01	1,481,574.63	3,246,244.67	48.1965450	-104.2552579	2,449.01	0.00	0.00	0.00
7,600.00	87.70	270.05	5,375.21	2.05	-2,548.93	1,481,568.01	3,246,144.97	48.1965452	-104.2556677	2,548.93	0.00	0.00	0.00
7,700.00	87.70	270.05	5,379.22	2.13	-2,648.85	1,481,561.39	3,246,045.27	48.1965454	-104.2560775	2,648.85	0.00	0.00	0.00
7,800.00	87.70	270.05	5,383.24	2.21	-2,748.76	1,481,554.77	3,245,945.57	48.1965455	-104.2564874	2,748.77	0.00	0.00	0.00
7,900.00	87.70	270.05	5,387.25	2.29	-2,848.68	1,481,548.16	3,245,845.87	48.1965457	-104.2568972	2,848.68	0.00	0.00	0.00
8,000.00	87.70	270.05	5,391.26	2.37	-2,948.60	1,481,541.54	3,245,746.17	48.1965459	-104.2573070	2,948.60	0.00	0.00	0.00
8,100.00	87.70	270.05	5,395.27	2.45	-3,048.52	1,481,534.92	3,245,646.47	48.1965461	-104.2577169	3,048.52	0.00	0.00	0.00
8,200.00	87.70	270.05	5,399.29	2.53	-3,148.44	1,481,528.30	3,245,546.77	48.1965463	-104.2581267	3,148.44	0.00	0.00	0.00
8,300.00	87.70	270.05	5,403.30	2.61	-3,248.36	1,481,521.68	3,245,447.07	48.1965464	-104.2585365	3,248.36	0.00	0.00	0.00
8,400.00	87.70	270.05	5,407.31	2.69	-3,348.28	1,481,515.06	3,245,347.37	48.1965466	-104.2589464	3,348.28	0.00	0.00	0.00
8,500.00	87.70	270.05	5,411.33	2.77	-3,448.20	1,481,508.45	3,245,247.67	48.1965468	-104.2593562	3,448.20	0.00	0.00	0.00
8,600.00	87.70	270.05	5,415.34	2.85	-3,548.12	1,481,501.83	3,245,147.97	48.1965469	-104.2597660	3,548.12	0.00	0.00	0.00
8,700.00	87.70	270.05	5,419.35	2.93	-3,648.04	1,481,495.21	3,245,048.27	48.1965471	-104.2601759	3,648.04	0.00	0.00	0.00
8,800.00	87.70	270.05	5,423.37	3.01	-3,747.96	1,481,488.59	3,244,948.57	48.1965473	-104.2605857	3,747.96	0.00	0.00	0.00
8,900.00	87.70	270.05	5,427.38	3.10	-3,847.88	1,481,481.97	3,244,848.87	48.1965475	-104.2609955	3,847.88	0.00	0.00	0.00
8,965.29	87.70	270.05	5,430.00	3.15	-3,913.11	1,481,477.65	3,244,783.78	48.1965476	-104.2612631	3,913.11	0.00	0.00	0.00
<b>Top, Lower Sand</b>													
9,000.00	87.70	270.05	5,431.39	3.18	-3,947.80	1,481,475.35	3,244,749.17	48.1965476	-104.2614053	3,947.80	0.00	0.00	0.00
9,100.00	87.70	270.05	5,435.41	3.26	-4,047.72	1,481,468.74	3,244,649.47	48.1965478	-104.2618152	4,047.72	0.00	0.00	0.00
9,200.00	87.70	270.05	5,439.42	3.34	-4,147.64	1,481,462.12	3,244,549.77	48.1965479	-104.2622250	4,147.64	0.00	0.00	0.00
9,300.00	87.70	270.05	5,443.43	3.42	-4,247.56	1,481,455.50	3,244,450.07	48.1965481	-104.2626348	4,247.56	0.00	0.00	0.00
9,400.00	87.70	270.05	5,447.45	3.50	-4,347.48	1,481,448.88	3,244,350.37	48.1965483	-104.2630447	4,347.48	0.00	0.00	0.00
9,500.00	87.70	270.05	5,451.46	3.58	-4,447.39	1,481,442.26	3,244,250.67	48.1965484	-104.2634545	4,447.40	0.00	0.00	0.00
9,600.00	87.70	270.05	5,455.47	3.66	-4,547.31	1,481,435.65	3,244,150.97	48.1965486	-104.2638643	4,547.32	0.00	0.00	0.00

## Planned Survey Report

<b>Company:</b> Hydra Services, LLC	<b>Local Co-ordinate Reference:</b> Well PEARL 9-H SWD
<b>Project:</b> Roosevelt County, MT	<b>TVD Reference:</b> 26' KB @ 2120.00usft
<b>Site:</b> S9-T28N-R58E (Pearl)	<b>MD Reference:</b> 26' KB @ 2120.00usft
<b>Well:</b> PEARL 9-H SWD	<b>North Reference:</b> True
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> PLAN #1	<b>Database:</b> Total Directional Production DB

### Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)				
9,700.00	87.70	270.05	5,459.49	3.74	-4,647.23	1,481,429.03	3,244,051.27	48.1965487	-104.2642742	4,647.23	0.00	0.00	0.00
9,800.00	87.70	270.05	5,463.50	3.82	-4,747.15	1,481,422.41	3,243,951.57	48.1965489	-104.2646840	4,747.15	0.00	0.00	0.00
9,900.00	87.70	270.05	5,467.51	3.90	-4,847.07	1,481,415.79	3,243,851.87	48.1965490	-104.2650938	4,847.07	0.00	0.00	0.00
9,912.17	87.70	270.05	5,468.00	3.91	-4,859.23	1,481,414.99	3,243,839.74	48.1965491	-104.2651437	4,859.23	0.00	0.00	0.00
<b>Base, Lower Sand</b>													
10,000.00	87.70	270.05	5,471.52	3.98	-4,946.99	1,481,409.17	3,243,752.17	48.1965492	-104.2655037	4,946.99	0.00	0.00	0.00
10,100.00	87.70	270.05	5,475.54	4.06	-5,046.91	1,481,402.55	3,243,652.47	48.1965493	-104.2659135	5,046.91	0.00	0.00	0.00
10,200.00	87.70	270.05	5,479.55	4.14	-5,146.83	1,481,395.94	3,243,552.77	48.1965495	-104.2663233	5,146.83	0.00	0.00	0.00
10,300.00	87.70	270.05	5,483.56	4.22	-5,246.75	1,481,389.32	3,243,453.07	48.1965496	-104.2667332	5,246.75	0.00	0.00	0.00
10,400.00	87.70	270.05	5,487.58	4.30	-5,346.67	1,481,382.70	3,243,353.37	48.1965498	-104.2671430	5,346.67	0.00	0.00	0.00
10,500.00	87.70	270.05	5,491.59	4.38	-5,446.59	1,481,376.08	3,243,253.67	48.1965499	-104.2675528	5,446.59	0.00	0.00	0.00
10,584.95	87.70	270.05	5,495.00	4.45	-5,531.47	1,481,370.46	3,243,168.97	48.1965500	-104.2679010	5,531.47	0.00	0.00	0.00
<b>TD at 10584.95</b>													

### Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL - PEARL 9-H (1665 - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	1,481,736.84	3,248,688.30	48.1965400	-104.2452130
BHL - PEARL 9-H (1665 - plan hits target center - Point	0.00	0.00	5,495.00	4.45	-5,531.47	1,481,370.46	3,243,168.97	48.1965500	-104.2679010

### Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,260.00	4,260.00	Greenhorn			
4,614.00	4,614.00	Mowry (Top Dakota)			
5,078.48	5,056.00	Inyan Kara			
5,327.22	5,221.00	Top, Upper Sand			
6,323.99	5,324.00	Base, Upper Sand			
8,965.29	5,430.00	Top, Lower Sand			
9,912.17	5,468.00	Base, Lower Sand			

Planned Survey Report

<b>Company:</b>	Hydra Services, LLC	<b>Local Co-ordinate Reference:</b>	Well PEARL 9-H SWD
<b>Project:</b>	Roosevelt County, MT	<b>TVD Reference:</b>	26' KB @ 2120.00usft
<b>Site:</b>	S9-T28N-R58E (Pearl)	<b>MD Reference:</b>	26' KB @ 2120.00usft
<b>Well:</b>	PEARL 9-H SWD	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	PLAN #1	<b>Database:</b>	Total Directional Production DB

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4722	4722	0	0	BUILD
5599	5295	0	-550	LP - 5294.92' TVD, 87.70° INC
10,585	5495	4	-5531	TD at 10584.95

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

**Appendix VI: Completion Procedure**  
Montana Board of Oil & Gas Commission  
Underground Injection Control – Permit Application

**Hydra Services, LLC**  
**Pearl 9-H SWD**  
**Roosevelt County, MT**

**API No:** \_\_\_\_\_

**COMPLETION PROCEDURE**

**January 29, 2026**

**Pearl 9-H SWD  
Roosevelt Co., MT**

**COMPLETON OVERVIEW**

**WELL DATA:**

Total Well Depth            10,585' MD, 5,495' TVD  
GL                                2,094'  
RKB                               26'

**Casing**

<u>OD</u>	<u>WT</u>	<u>GRADE</u>	<u>CONN</u>	<u>ID</u>	<u>DRIFT</u>	<u>INTERVAL</u>	<u>BURST</u>	<u>COLLAPSE</u>
9-5/8"	40#	J-55	BTC	8.921	8.765	0 – 1,920'	3950	2570
7-5/8"	29.7#	P-110	BTC	6.875	6.75	0 – 5,599'	9470	5340
4.5"	13.5#	P-110	BTC	3.921	3.795	5,499 – 10,585'	12410	10670

**Tubing (PROPOSED)**

<u>OD</u>	<u>WT</u>	<u>GRADE</u>	<u>CONN</u>	<u>ID</u>	<u>DRIFT</u>	<u>INTERVAL</u>	<u>BURST</u>	<u>COLLAPSE</u>
5.5"	20#	P-110 IPC	BTC	4.888	4.653	0 – 5,250'	12640	11080

**Objective:**

**A. OPERATIONAL REQUIREMENTS**

1. Prior to each major operation, hold a pre-job safety/ planning meeting (**PJSM**) with all personnel involved in the operation. Discuss the upcoming operation and safety concerns and solicit feedback from all personnel involved.
2. Keep track of daily activities on your Daily Report.
3. Inspect any tanks prior to filling.
4. Physically caliper, measure, and photograph ALL tools that enter the well bore.

**B. COMPLETE THE WELL FOR INJECTION**

1. Contact MBOGC within 24 hours of commencement.
2. Set and test workover rig anchors.
3. Move in and rig up workover rig, mud pump, mud tank, power swivel, pipe racks, catwalk, and 2-400 bbl tanks.

**Pearl 9-H SWD  
Roosevelt Co., MT**

4. Move in and unload 11,000' 2-7/8" PH6 work string on pipe racks.
  - a. Visually inspect before use.
5. Install a 7-1/16" 5000 psi BOP with 2-7/8" pipe rams/blind rams and a 5000 psi Washington Head.
6. Pick up and go in hole with a used 3.5" rock bit w/ 2-7/8" work string.
7. Trip in hole to Float Collar at est. depth of 10,540'.
8. Circulate hole w/10# brine.
9. TOOH. LD first 400'. Stand back rest of string.
10. Rig up Wireline and Run CBL to verify cement across and above the Dakota.
11. RU Coil Tubing to Perforate the Dakota (all perms = 1 spf, 72 degree phasing). Pump proppant to jet cut perforations in 4.5" casing. Determine shot depths based off of CBL.
12. Trip in hole with 7-5/8" packer on 2-7/8" work string and set packer 5,250' to acidize the perms.
13. Acidize perms with:
  - a. 12,000 gal 15% HCL containing mud cleanout surfactants and 1 ppg rock salt pumped per attached procedure. Ramp treatment pressure up to 10 BPM. Do not exceed tubular burst strength during treatment.
  - b. Follow acid with 400 bbl fresh water at 10 BPM. Displace fresh water with tbg volume of salt water.
  - c. Record ISIP, 5 minute, and 10 minute shut-in pressures. Pump test injection zone at 2- 10 BPM. Record injection pressures during injectivity test.
14. Release packer and trip out of hole with 2-7/8" work string. Lay down work string and packer.
15. Trip in hole with 7-5/8" Arrowset 1-X Nickel coated packer and 7" tubing. Set packer at 5,250' and displace annulus with 10 ppg brine treated with packer fluid chemical.
16. ND BOP/ NU injection wellhead. Test casing-tubing annulus to 1,000 psi with MBOGC inspector as witness. Install permanent pressure gauge on casing-tubing annulus to monitor pressure.
17. Rig down and move out workover rig.

# ASTRO-CHEM LAB, INC.

4102 2nd Ave. W.

Williston, North Dakota 58802-0972  
Phone: (701) 572-7355

P.O. Box 972

## WATER ANALYSIS REPORT

Sample Number: 20-00973

Date of Analysis: 3/11/2020

Company: Kraken Operating, LLC.

City: Houston

State: TX

Well Number: Taylor 14-23-1H

Sample Source: Test Separator

Date Received: 3/10/2020

Date Sampled: 3/4/2020

Formation:

Depth:

Location:

Section:

Twp:

Rng:

County:

Distribution: Distribution List

Resistivity @ 77 °F 0.044 Ohm-Meters

pH 5.93

Specific Gravity @ 77 °F 1.180

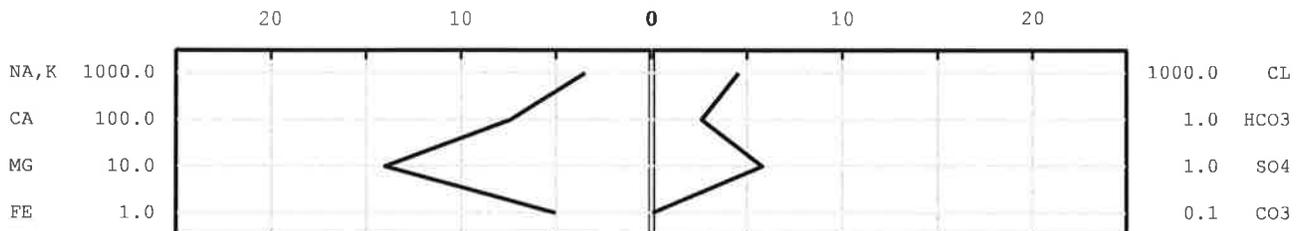
H<sub>2</sub>S Negative

Total Dissolved Solids (Calculated) 264737 mg/L 224353 ppm

Sodium Chloride (Calculated) 265426 mg/L 224937 ppm

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	740.0	14830	CHLORIDE	4540.2	160964
MAGNESIUM	140.0	1701	CARBONATE	0.0	0
SODIUM	3497.2	80400	BICARBONATE	2.6	159
IRON	5.0	93.9	SULFATE	5.8	278
CHROMIUM	0.1	0.9	NITRATE	0.0	0
BARIUM	0.6	40.9			
POTASSIUM	142.5	5570			
STRONTIUM	15.5	680.0			
ZINC	0.6	19.5			

### WATER ANALYSIS PATTERN



Remarks: Sampled by Ben Borg

Analyzed By: C. Jungels

# ASTRO-CHEM LAB, INC.

4102 2nd Ave. W.

Williston, North Dakota 58802-0972  
Phone: (701) 572-7355

P.O. Box 972

## WATER ANALYSIS REPORT

Sample Number: 20-00976

Date of Analysis: 3/11/2020

Company: Kraken Operating, LLC.

City: Houston

State: TX

Well Number: Taylor 14-23-2H

Sample Source: Test Separator

Date Received: 3/10/2020

Date Sampled: 3/8/2020

Formation:

Depth:

Location:

Section:

Twp:

Rng:

County:

Distribution: Distribution List

Resistivity @ 77 °F    0.042 Ohm-Meters

pH    5.90

Specific Gravity @ 77 °F    1.190

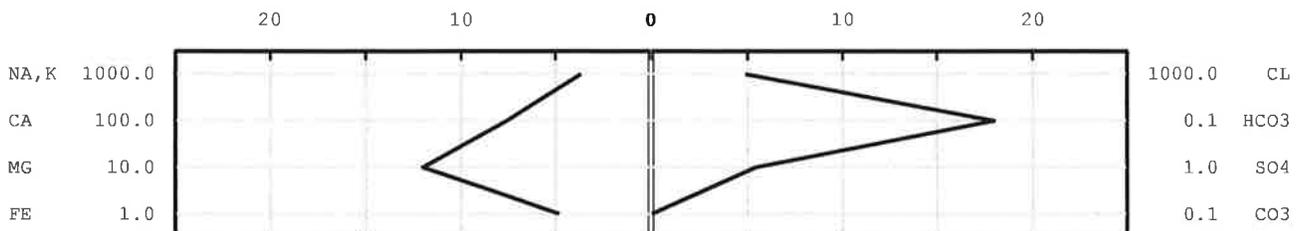
H<sub>2</sub>S    Negative

Total Dissolved Solids (Calculated)    280474 mg/L    235693 ppm

Sodium Chloride (Calculated)    285209 mg/L    239672 ppm

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	760.0	15230	CHLORIDE	4878.6	172961
MAGNESIUM	120.0	1458	CARBONATE	0.0	0
SODIUM	3653.8	84000	BICARBONATE	1.8	110
IRON	4.8	89.7	SULFATE	5.4	260
CHROMIUM	0.1	0.9	NITRATE	0.0	0
BARIUM	0.6	44.6			
POTASSIUM	143.5	5610			
STRONTIUM	15.7	690.0			
ZINC	0.6	20.4			

### WATER ANALYSIS PATTERN



Remarks: Sampled by Ben Borg

Analyzed By: C. Jungels

# **Underground Injection Control (UIC) Permit**

## **List of Surface Ownership**

### **T28N-R58E: Section 7 E2, NENW, S2NW, NESW**

The Coleman Property Group, LLC  
812 Eastwood Ln.  
Anoka, MN 55303

### **T28N-R58E: Section 8 NENE, E2SE**

Neil & Mary Kaye Knudsen  
5501 Road 1009  
Bainville, MT 59212

### **T28N-R58E: Section 8 W2, W2NE, SENE, NESE**

Richard L. & E. Diane Hansen  
c/o Christopher & Brandy Hansen  
PO Box 14  
Bainville, MT 59212

### **T28N-R58E: Section 9 W2NW**

Richard L. & E. Diane Hansen  
c/o Christopher & Brandy Hansen  
PO Box 14  
Bainville, MT 59212

### **T28N-R58E: Section 9 NENW, SENW, SW**

Neil & Mary Kaye Knudsen  
5501 Road 1009  
Bainville, MT 59212

**List of Unleased Mineral Ownership / Working Interest Owners**

**T28N-R58E: Section 7 E2, NENW, S2NW, NESW**

Northern Oil and Gas, Inc.  
4350 Baker Rd., Ste. 400  
Minnetonka, MN 55343

**T28N-R58E: Section 8 NENE, E2SE**

Northern Oil and Gas, Inc.  
4350 Baker Rd., Ste. 400  
Minnetonka, MN 55343

Davis Exploration, LLC  
3330 Cumberland Blvd. SE, Ste. 425  
Atlanta, GA 30339

Flare Energy Corp.  
410 17th St., Ste. 1750  
Denver, CO 80202

States Petroleum Production Inc.  
1445 Ross Ave. #234  
Dallas, TX 75202

Hillcorp Energy Company  
1000 Louisiana, Ste. 3760  
Houston, TX 77002

Prize Energy Resources LP  
20 E. 5th St., Ste. 1400  
Tulsa, OK 74103

T2 Rockies Oil & Gas LLC  
1800 Wazee St., Ste. 318  
Denver, CO 80202

Conoco Phillips  
PO Box 2197  
Houston, TX 77252

Kent Production Company, LLC  
PO Box 131524  
Houston, TX 77219

White Rock Oil & Gas GPI, LLC  
5810 Tennyson Pkwy., Ste. 500  
Plano, TX 75024

White Rock Oil & Gas Partners I-B, LP  
5810 Tennyson Pkwy., Ste. 500  
Plano, TX 75024

Phoenix Energy One, LLC  
18575 Jamboree Rd., Ste. 830  
Irvine, CA 92612

**T28N-R58E: Section 9 W2NW, NENW, SENW, SW**

Northern Oil and Gas, Inc.  
4350 Baker Rd., Ste. 400  
Minnetonka, MN 55343

Wichita River Oil Corporation  
555 17th St., Ste. 3300  
Denver, CO 80202

Oasis Petroleum North America LLC  
1001 Fannin St., Ste. 1500  
Houston, TX 77002

Sarah Rhinehart  
1131 Cypress Ave.  
Hermosa Beach, CA 90254

Laura Rinehart Raymond  
1131 Cypress Ave.  
Hermosa Beach, CA 90254

Anna Rinehart Liberty  
2202 Glen Helen Circle  
Carrollton, TX 75007

Ricks Exploration II, LP  
c/o Chesapeake Energy & Expand Energy  
PO Box 18496  
Oklahoma City, OK 73118

ST Holdings, LLC  
1660 Lincoln St., Ste. 2100  
Denver, CO 80264

Whittington Energy International, LLC  
1690 S. Washington St.  
Denver, CO 80210

White Rock Oil & Gas GPI, LLC  
5810 Tennyson Pkwy., Ste. 500  
Plano, TX 75024

White Rock Oil & Gas Partners I-B, LP  
5810 Tennyson Pkwy., Ste. 500  
Plano, TX 75024

Big Bend MHMWI Investments, LLC  
8604 Turtle Creek Blvd., Unit 12408  
Dallas, TX 75225

Larry S. Glazer  
5555 Windhaven Pkwy. #5141  
Plano, TX 75024

Kenneth Z. Scott  
13540 Red Fern Ln.  
Dallas, TX 75240

Nortex Corporation  
3009 Post Oak Blvd., Ste. 1212  
Houston, TX 77056

Kent Production Company, LLC  
PO Box 131524  
Houston, TX 77219

Okie Crude Company  
401 S. Boston Ave., Ste. 715  
Tulsa, OK 74103

Penroc Oil Corporation  
PO Box 2769  
Hobbs, NM 88241

Mark L. Shidler, Inc.  
1313 Campbell Rd., Ste. D  
Houston, TX 77055

Energy Production, LLC  
3620 Valley Rd.  
Casper, WY 82604

Merland Oil & Gas, Inc.  
One Denver Place  
999 18th St., Ste. 3300  
Denver, CO 80202

Petrogaard LLC  
PO Box 101382  
Denver, CO 80250

Front Toward Enemy LLC  
PO Box 357  
Sheridan, WY 82801

Making Tracks, LLC  
1001 S. Main St., Ste. 49  
Kalispell, MT 59901

La Yapa Minerals, LLC  
PO Box 414  
Sheridan, WY 82801

Banner Oil & Gas Ltd.  
555 17th St., Ste. 3465  
Denver, CO 80202

The Petram Group, LLC  
999 18th St., Ste. 1650S  
Denver, CO 80202

Roger Lynn Magnusson  
2826 8th St. N, #4  
Fargo, ND 58102

Margaret Blake  
PO Box 104  
Bainville, MT 59212

Duane Weitman  
1176 Chemawa Loop NE  
Keizer, OR 97303

Eileen D. Martin  
1815 N. Johnson Dr.  
Newberg, OR 97132

Jean B. Koenig  
3892 Vernon Rd.  
Willard, OH 44890

Marie Banker  
30145 Carmel Rd.  
Sun City, CA 92586

# NOTICE

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February 23, 2026

Anna Rinehart Liberty  
2202 Glen Helen Circle3  
Carrollton, TX 75007

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

Please be advised that Hydra Services, LLC (Hydra) has applied to the Montana Board Oil and Gas Conservation (MBOGC) to drill a saltwater disposal well and construct an associated facility at the above detailed location. Hydra will be seeking a final approval from the MBOGC on April 9, 2026, at a hearing in Billings, MT at the MBOGC Hearing Room at 2535 St. John's Ave, Billings, MT, beginning at 9:00 am.

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

Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Banner Oil & Gas Ltd.  
555 17th St., Ste. 34653  
Denver, CO 80202

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

Big Bend MHMWI Investments, LLC  
8604 Turtle Creek Blvd., Unit 124083  
Dallas, TX 75225

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

Please be advised that Hydra Services, LLC (Hydra) has applied to the Montana Board Oil and Gas Conservation (MBOGC) to drill a saltwater disposal well and construct an associated facility at the above detailed location. Hydra will be seeking a final approval from the MBOGC on April 9, 2026, at a hearing in Billings, MT at the MBOGC Hearing Room at 2535 St. John's Ave, Billings, MT, beginning at 9:00 am.

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Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

Conoco Phillips  
PO Box 21973  
Houston, TX 77252

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

Please be advised that Hydra Services, LLC (Hydra) has applied to the Montana Board Oil and Gas Conservation (MBOGC) to drill a saltwater disposal well and construct an associated facility at the above detailed location. Hydra will be seeking a final approval from the MBOGC on April 9, 2026, at a hearing in Billings, MT at the MBOGC Hearing Room at 2535 St. John's Ave, Billings, MT, beginning at 9:00 am.

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Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

Davis Exploration, LLC  
3330 Cumberland Blvd. SE, Ste. 4253  
Atlanta, GA 30339

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

Please be advised that Hydra Services, LLC (Hydra) has applied to the Montana Board Oil and Gas Conservation (MBOGC) to drill a saltwater disposal well and construct an associated facility at the above detailed location. Hydra will be seeking a final approval from the MBOGC on April 9, 2026, at a hearing in Billings, MT at the MBOGC Hearing Room at 2535 St. John's Ave, Billings, MT, beginning at 9:00 am.

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

Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

Duane Weitman  
1176 Chemawa Loop NE3  
Keizer, OR 97303

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

Please be advised that Hydra Services, LLC (Hydra) has applied to the Montana Board Oil and Gas Conservation (MBOGC) to drill a saltwater disposal well and construct an associated facility at the above detailed location. Hydra will be seeking a final approval from the MBOGC on April 9, 2026, at a hearing in Billings, MT at the MBOGC Hearing Room at 2535 St. John's Ave, Billings, MT, beginning at 9:00 am.

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

Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

Eileen D. Martin  
1815 N. Johnson Dr.3  
Newberg, OR 97132

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Respectfully,

*Justin L. Payne*

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Energy Production, LLC  
3620 Valley Rd.3  
Casper, WY 82604

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Respectfully,

*Justin L. Payne*

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Energy Production, LLC  
PO Box 9073  
Mills, WY 82644

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Respectfully,

*Justin L. Payne*

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Flare Energy Corp.  
410 17th St., Ste. 17503  
Denver, CO 80202

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Front Toward Enemy LLC  
PO Box 3573  
Sheridan, WY 82801

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Hillcorp Energy Company  
1000 Louisiana, Ste. 37603  
Houston, TX 77002

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Jean B. Koenig  
3892 Vernon Rd.3  
Willard, OH 44890

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Kenneth Z. Scott  
13540 Red Fern Ln.3  
Dallas, TX 75240

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Respectfully,

*Justin L. Payne*

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Kent Production Company, LLC  
PO Box 1315243  
Houston, TX 77219

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

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*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

La Yapa Minerals, LLC  
PO Box 4143  
Sheridan, WY 82801

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Larry S. Glazer  
5555 Windhaven Pkwy. #51413  
Plano, TX 75024

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Laura Rinehart Raymond  
1131 Cypress Ave.3  
Hermosa Beach, CA 90254

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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346-739-8339

# NOTICE

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February 23, 2026

Making Tracks, LLC  
1001 S. Main St., Ste. 493  
Kalispell, MT 59901

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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*Justin L. Payne*

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Margaret Blake  
PO Box 1043  
Bainville, MT 59212

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Marie Banker  
30145 Carmel Rd.3  
Sun City, CA 92586

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

Mark L. Shidler, Inc.  
1313 Campbell Rd., Ste. D3  
Houston, TX 77055

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Merland Oil & Gas, Inc.  
One Denver Place  
999 18th St., Ste. 33003  
Denver, CO 80202

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Neil & Mary Kaye Knudsen  
5501 Road 10093  
Bainville, MT 59212

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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346-739-8339

# NOTICE

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February 23, 2026

Nortex Corporation  
3009 Post Oak Blvd., Ste. 12123  
Houston, TX 77056

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Northern Oil and Gas, Inc.  
4350 Baker Rd., Ste. 4003  
Minnetonka, MN 55343

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Respectfully,

*Justin L. Payne*

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Oasis Petroleum North America LLC  
1001 Fannin St., Ste. 15003  
Houston, TX 77002

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Okie Crude Company  
401 S. Boston Ave., Ste. 7153  
Tulsa, OK 74103

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Penroc Oil Corporation  
PO Box 27693  
Hobbs, NM 88241

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Petrogaard LLC  
PO Box 1013823  
Denver, CO 80250

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Phoenix Energy One, LLC  
18575 Jamboree Rd., Ste. 8303  
Irvine, CA 92612

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

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*Justin L. Payne*

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Prize Energy Resources LP  
20 E. 5th St., Ste. 14003  
Tulsa, OK 74103

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

Richard L. & E. Diane Hansen  
c/o Christopher & Brandy Hansen  
PO Box 143  
Bainville, MT 59212

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

Please be advised that Hydra Services, LLC (Hydra) has applied to the Montana Board Oil and Gas Conservation (MBOGC) to drill a saltwater disposal well and construct an associated facility at the above detailed location. Hydra will be seeking a final approval from the MBOGC on April 9, 2026, at a hearing in Billings, MT at the MBOGC Hearing Room at 2535 St. John's Ave, Billings, MT, beginning at 9:00 am.

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

Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

Ricks Exploration II, LP  
c/o Chesapeake Energy & Expand Energy  
PO Box 184963  
Oklahoma City, OK 73118

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Respectfully,



Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

Roger Lynn Magnusson  
2826 8th St. N, #43  
Fargo, ND 58102

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

Sarah Rhinehart  
1131 Cypress Ave.3  
Hermosa Beach, CA 90254

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

ST Holdings, LLC  
1660 Lincoln St., Ste. 21003  
Denver, CO 80264

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

States Petroleum Production Inc.  
1445 Ross Ave. #2343  
Dallas, TX 75202

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

T2 Rockies Oil & Gas LLC  
1800 Wazee St., Ste. 3183  
Denver, CO 80202

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Respectfully,



Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

The Coleman Property Group, LLC  
812 Eastwood Ln.3  
Anoka, MN 55303

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

The Petram Group, LLC  
999 18th St., Ste. 1650S3  
Denver, CO 80202

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Respectfully,



Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

White Rock Oil & Gas GP I, LLC  
5810 Tennyson Pkwy., Ste. 5003  
Plano, TX 75024

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

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February 23, 2026

White Rock Oil & Gas Partners I-B, LP  
5810 Tennyson Pkwy., Ste. 5003  
Plano, TX 75024

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Respectfully,



Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

Whittington Energy International, LLC  
1690 S. Washington St.3  
Denver, CO 80210

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

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Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

Wichita River Oil Corporation  
555 17th St., Ste. 33003  
Denver, CO 80202

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

SW4NW4, Section 9, Township 28N Range 58E, Roosevelt County, MT

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Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

# NOTICE

---

February 23, 2026

Wichita River Oil Corporation  
7400 E. Orchard Rd., Ste. 2553  
Englewood, CO 80111

From: Hydra Services, LLC  
945 Bunker Hill Rd., Ste. 1200  
Houston, TX 77024

Re: Proposed Private Saltwater Disposal Well

**Location of proposed Disposal Well and Facility (Pearl 9-H SWD)**

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Respectfully,

*Justin L. Payne*

Justin L. Payne  
Hydra Services, LLC  
346-739-8339

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

IN THE MATTER OF THE APPLICATION OF HYDRA MT LLC FOR THE HEARING OF ITS REQUEST FOR A UIC PERMIT FOR THE PEARL 9-H SWD WELL, 1,665' FNL, 345' FWL, SECTION 9, TOWNSHIP 28 NORTH, RANGE 58 EAST, M.P.M., ROOSEVELT COUNTY, MONTANA, FOR THE PURPOSE OF WATER INJECTION

AFFIDAVIT OF NOTIFICATION

DATE: February 23, 2026

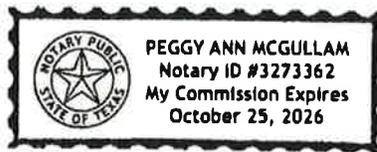
State of Montana  
County of Roosevelt

Justin Payne, being first duly sworn, deposes and says:

That Notice advising of Hydra Services LLC's application for UIC permit in the captioned matter, in the form attached as Exhibit "A", was mailed to each current operator, surface owner and lease owner within the area of review at the addresses shown in the exhibit attached to the Notice, by mailing a true copy thereof this 23<sup>rd</sup> day of February, 2026, postage prepaid, First-Class Mail. This affidavit is given as evidence of compliance with A.R.M. 36.22.1410.

  
Justin Payne

Subscribed and sworn to before me this 23 day of February, 2026.



  
Notary Public for the State of Texas  
Residing at Harris County  
My Commission Expires 10-25-26

(SEAL)

February 16, 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,  
Pearl 9-H SWD in SWNW of Sec. 09-T28N-R58E, Roosevelt, County, MT**

Dear Mr. Gizicki:

Hydra Services, LLC. respectfully requests approval of an Underground Injection Control (UIC) permit for the referenced location and as described in the attached application. Hydra 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 April 9, 2026.

If you have any questions concerning the enclosed application, please contact myself at (713) 360-7705.

Sincerely,

A handwritten signature in black ink, appearing to read "Pete Larsen", with a stylized flourish at the end.

Pete Larsen  
VP - Midstream  
Hydra Services, LLC

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

In the matter of the application of ) NOTICE OF INTENTION TO APPLY  
) FOR A CLASS II INJECTION WELL  
) PERMIT  
)

**HYDRA Services LLC** )

For a Class II injection well permit

1. Name and address of applicant  
**HYDRA Services LLC**  
**945 Bunker Hill RD, Suite 1200**  
**Houston, TX 77024**
2. Well (or project) name, county, location  
**Pearl 9-H SWD located:**  
**SHL: SWNW Section 9, T28N, R58E, Roosevelt County, MT.**  
**Footages: 1665' FNL & 345' FWL E1: 2094'**  
**BHL: SWNW Section 8, T28N, R58E, Roosevelt County, MT.**  
**Footages: 1665' FNL & 100' FWL**
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 from 4614' - 5505'**
5. An Aquifer Exemption will be requested as part of the application since the proposed injection zone contains water with less than 10,000 ppm total dissolved solids.

Pursuant to Rule 36.22.1409, Administrative Rules of Montana, the Montana Board of Oil and Gas Conservation will hold a public hearing upon the application of Hydra MT 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 am on Thursday, **(April 09, 2026)**.