

RECEIVED

APR 03 2026

MONTANA BOARD OF OIL &
GAS CONSERVATION - BILLINGS

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

Docket No: _____
Underground Injection Control
Application

**Lyda 31-1H SWD
Sec. 31 T28N R57E**

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 Lyda 31-1H 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 Lyda 31-1H 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.

Lyda 31-1H SWD
314' FSL, 374' FWL
Lot 4 Sec. 31-T28N-R57E

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

There are currently no wells within the 1/4-mile AOR. The Bluejay XL multi-well pad (Bluejay 2757-6-19 #14H, Hutch 2756-1-24 #11H, Scottsman 2857-31-18 #4H, & Christopher 2856-36-13 #2H) is located within ¼-mile AOR. The Bluejay XL pad wells, targeting the Middle Bakken, are expected to be drilled and completed after the Lyda 31-1H 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 Lyda 31-1H SWD surface facilities will be constructed on the same pad as the Bluejay XL wells. Surface facilities for the Lyda 31-1H SWD will be constructed on the same pad as the injection well.

The Lyda 31-1H SWD's injection fluids will come from the Bluejay XL pad wells, as well neighboring development 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 R57E in Roosevelt County, MT. The Middle Bakken is anticipated to produce between 10,005'-10,036' TVD (-7878' - -7909' SSTVD) 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>
SW	31-28N-57E	40290	BOWKER ROBERT	157

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>
NENE	1-27N-56E	704234	A C PETERSEN	15
NE¼	1-27N-56E	39423	PETERSON RAYMOND	16
NWSW	31-28N- 57E	704611	A C PETERSON	15
NWNWSW	31-28N- 57E	176791	BOWKER ALLEN	250
NWNWNWSW	31-28N- 57E	196657	BAWKER ALLEN	280
NENWNWSW	8-28N-58E	40291	PETERSON RAYMOND 02	176

Any offset water wells are protected from the proposed injection zone by surface casing to set at 1,880' and 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 481' 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 - - - 3,073 ' SSTVD to -3,238 ' SSTVD, and from -3,283 ' SSTVD to -3,358 ' SSTVD with sand packages ranging from 30' to 35' in thickness. The anticipated formation top for the Dakota (estimated KBTVD is 4630') and anticipated formation top for first Dakota perforation (estimated KBTVD is 5072'). 4. Zone or formation into which injection will occur, including depth: DAKOTA from 4630' – 5540'

The Cretaceous Mowry formation is the overlying confining formation for the Inyan Kara. The Mowry is estimated to be approximately 431' 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 547' thick in this area.

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

There are no current active wells in the AOR. The Bluejay XL pad wells, targeting the Middle Bakken, are expected to be drilled and completed after the Lyda 31-1H SWD is completed. Cement tops will be submitted to the Commission upon drilling of these wells.

1(g) Open Hole Logs:

The Lyda 31-1H 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 Lyda 31-1H 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 Lyda 31-1H 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 Intermediate section will be drilled to approximately 5,583' at which point we will drill the curve section at 10°/100 ft to LP at which point 7-5/8" casing will be run & cemented. The lateral section will be drilled to approximately 9,685' MD. 4.5" casing will be ran to TD, TVD will be at 5,540'.

1(i) Description of Injection Fluid:

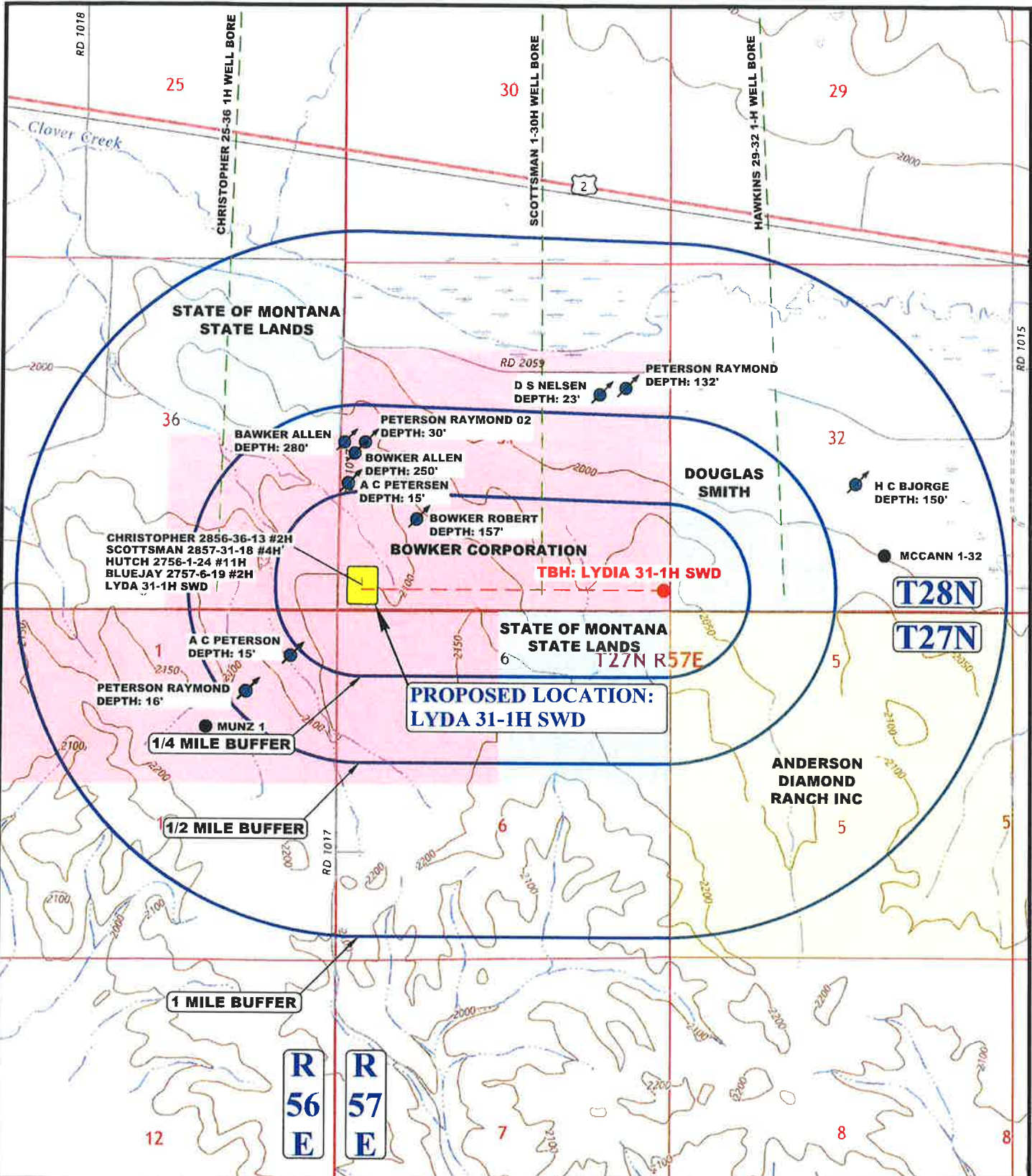
The Lyda 31-1H SWD will primarily be used to inject produced water from wells producing from the Bakken formation in the surrounding area. Water from the Red River, Madison and other producing intervals of the Williston Basin may also be disposed of in the Lyda 31-1H SWD , depending on future development plans. Appendix VII, depicts a representative water analyses from a Bakken well in the area well that will be injected at the Lyda 31-1H 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 & Northern Plains



LEGEND:

- WATER WELLS
- EXISTING WELL BORE



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



HYDRA MT, LLC

LYDA 31-1H SWD
 LOT 4, SECTION 31, T28N, R57E, P.M.M.
 ROOSEVELT COUNTY, MONTANA

SURVEYED BY	D.L.	06-18-25	SCALE
DRAWN BY	Q.S.J.	09-15-25	1 : 24,000
WELL PROXIMITY MAP			TOPO C

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

Notice of Application For Permit to Drill

Date: April 1, 2026
Well Names: Lyda 31-1H SWD
Surface Location: Lot 4 of Section 31, Township 28 North, Range 57 East
County: Roosevelt County, MT
Permit No.: Pending

An occupied structure was found within ¼ mile of the Lyda 31-1H SWD. The owners of record of the occupied structure were given notice of the location of the proposed SWD and application for permit to drill new wells according to the requirements in 36:22:620.

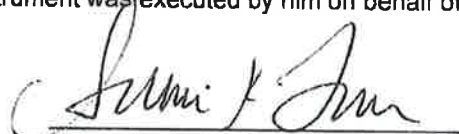

Brian Popp
Landman

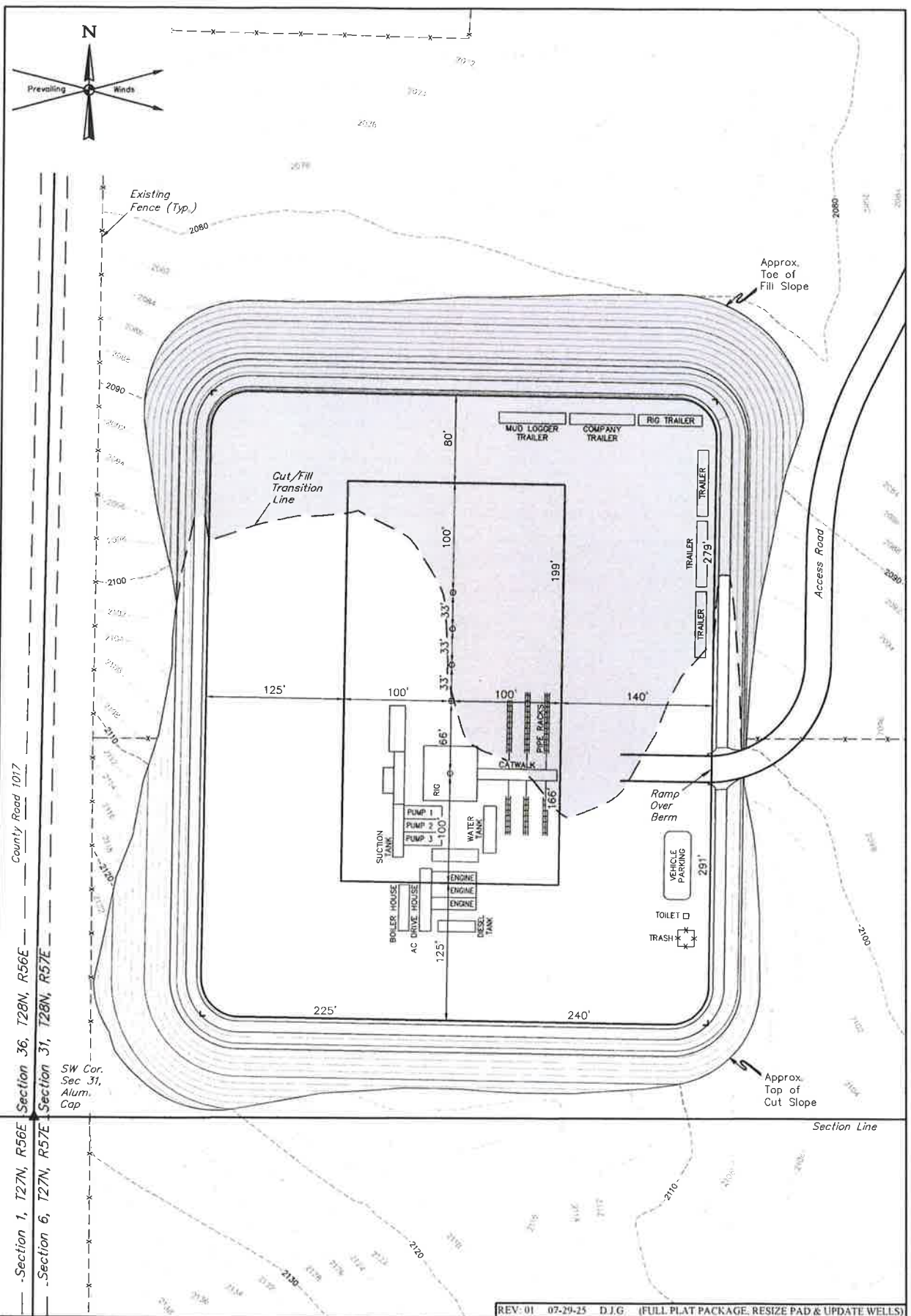
ACKNOWLEDGMENT

STATE OF TEXAS)
) ss
COUNTY OF HARRIS)

On this 1st Day of April, 2026, before me personally appeared Brian Popp, known to me to be the Landman of Hydra Services, LLC, and that the foregoing instrument was executed by him on behalf of said company as its free act and deed.




Notary Public
My Commission Expires: 3/28/2030



NOTES:

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

REV-01 07-29-25 D.J.G. (FULL PLAT PACKAGE, RESIZE PAD & UPDATE WELLS)



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

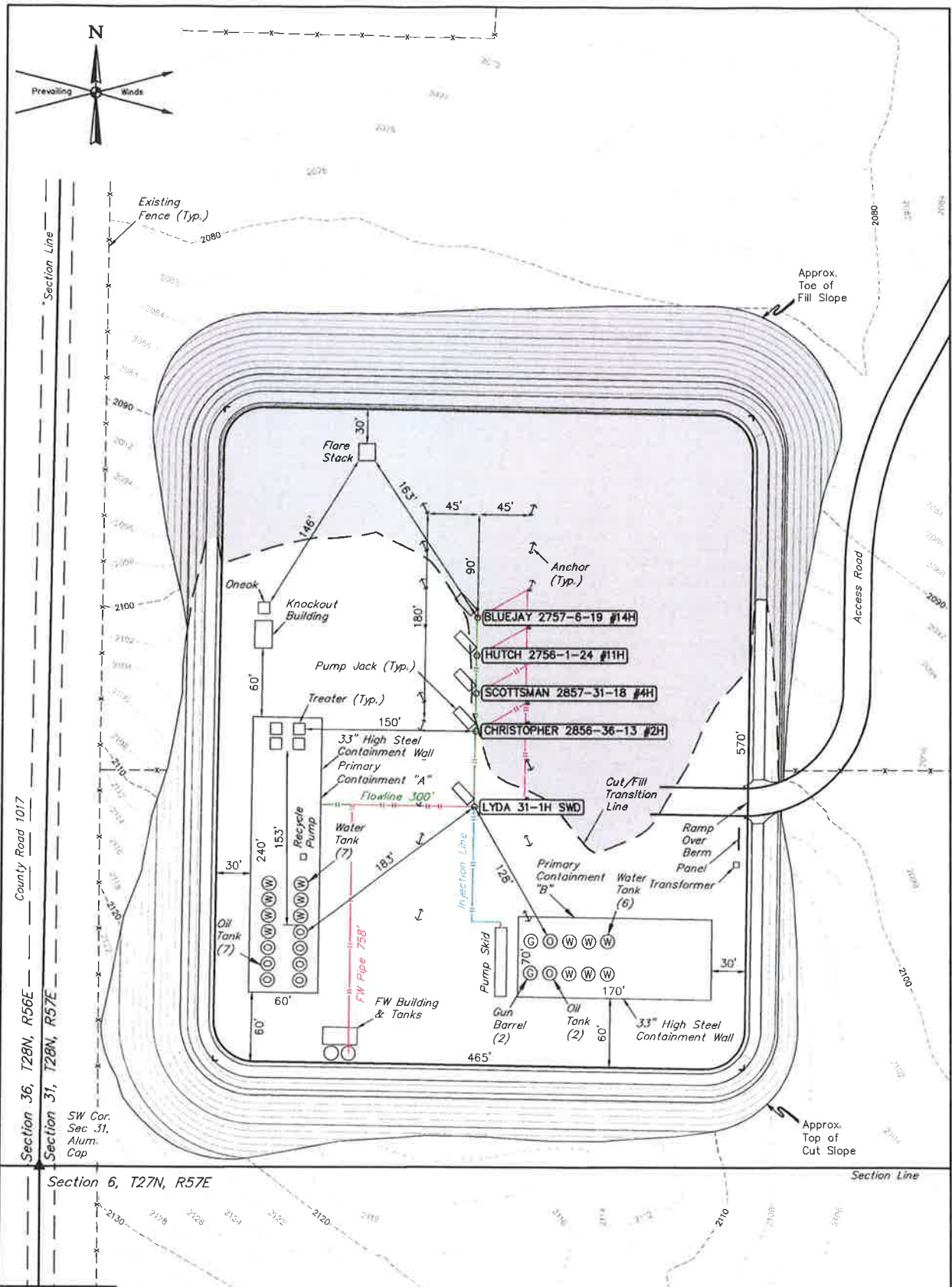
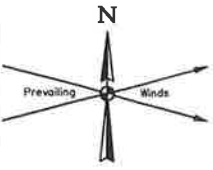


KRAKEN OPERATING, LLC

BLUEJAY WEST XL PAD
LOT 4, SECTION 31, T28N, R57E, P.M.M.
ROOSEVELT COUNTY, MONTANA

SURVEYED BY	D.L.	06-18-25	SCALE
DRAWN BY	N.R.	06-20-25	1" = 80'

TYPICAL RIG LAYOUT



LEGEND:
 Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±6.061 ACRES
 APPROXIMATE RECLAIMED AREA ACREAGE = ±3.357 ACRES
 TOTAL ACREAGE = ±9.418 ACRES

NOTES:
 • Contours shown at 2' intervals.

REV: 02 11-14-25 C.S.C.
 (UPDATE FACILITIES)



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



KRAKEN OPERATING, LLC

BLUEJAY WEST XL PAD
 LOT 4, SECTION 31, T28N, R57E, P.M.M.
 ROOSEVELT COUNTY, MONTANA

SURVEYED BY	D.L.	06-18-25	SCALE
DRAWN BY	N.R.	06-20-25	1" = 80'
INTERIM RECLAMATION PLAN			

Kraken Resources, LLC

Representative Log

Munz #1

250852123900

Sec 1, T27N R56E

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

LOG CURVES

0 170 GR (GAPI) Calibrated Gamma-Ray (F12.3)
0.2 2,000 LLS (ohmm) LLS
0.2 2,000 LLD (ohmm) LLD

TOPS AND MARKERS

— INYAN_KARA BRL
— SWIFT BRL

Well Label



Rel
Depth(ft)
-40 -

10 -

60 -

110 -

160 -

210 -

260 -

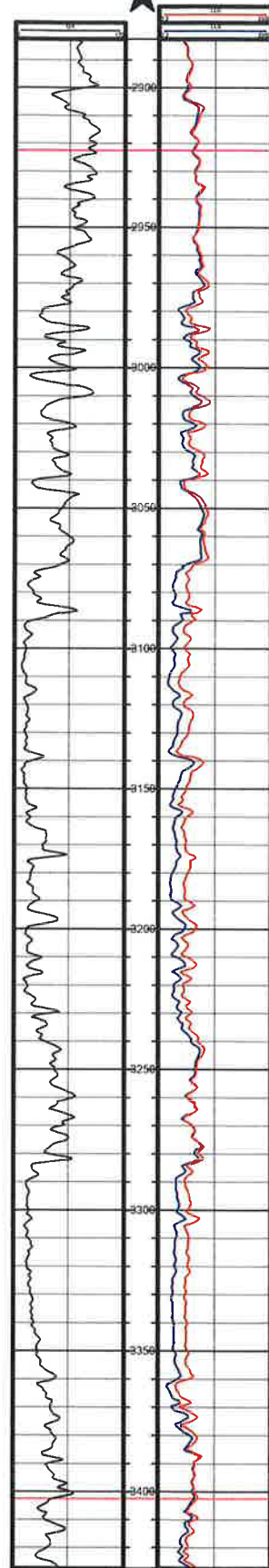
310 -

360 -

410 -

460 -

MUNZ #1



Rel
Depth(ft)
-40 -

10 -

60 -

110 -

160 -

210 -

260 -

310 -

360 -

410 -

460 -

INYAN_KARA [BRL]

SWIFT [BRL]

MUNZ #1

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 Hydra Services LLC		Lease Name: Lyda
Address 945 Bunker Hill Road, Suite 1200		Type (Private/State/Federal/Tribal/Allotted): Private
City Houston	State TX	Zip Code 77024
Telephone 713-360-7705	Fax 713-360-7712	Well Number: 31-1H SWD
Location of well (1/4-1/4 section and footage measurements): 314' FSL, 374' FWL Lot 4 Section 31, T28N, R57E		Unit Agreement Name:
		Field Name or Wildcat: Wildcat, Roosevelt
API Number: 25		Township, Range, and Section: 31-T28N-R57E
Well Type (oil, gas, injection, other): Injection		County: Roosevelt
State	County	Well

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) Intent to Drill & Complete a Class II Injection Well	<input checked="" type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

Describe Proposed or Completed Operations:

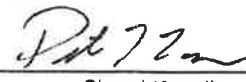
Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Hydra Services LLC respectfully requests approval to drill and complete a disposal well at the referenced location for injection of Class II E&P waste. Notice has been provided to parties within the 1/4 mile area of review of the proposed location. An application for hearing on the Montana Board of Oil and Gas Conservation docket has been requested for June 11, 2026.

Hydra Services LLC requests variance to not run open hole logs on the subject well.

BOARD USE ONLY	
Approved _____	Date _____
_____	_____
Name	Title

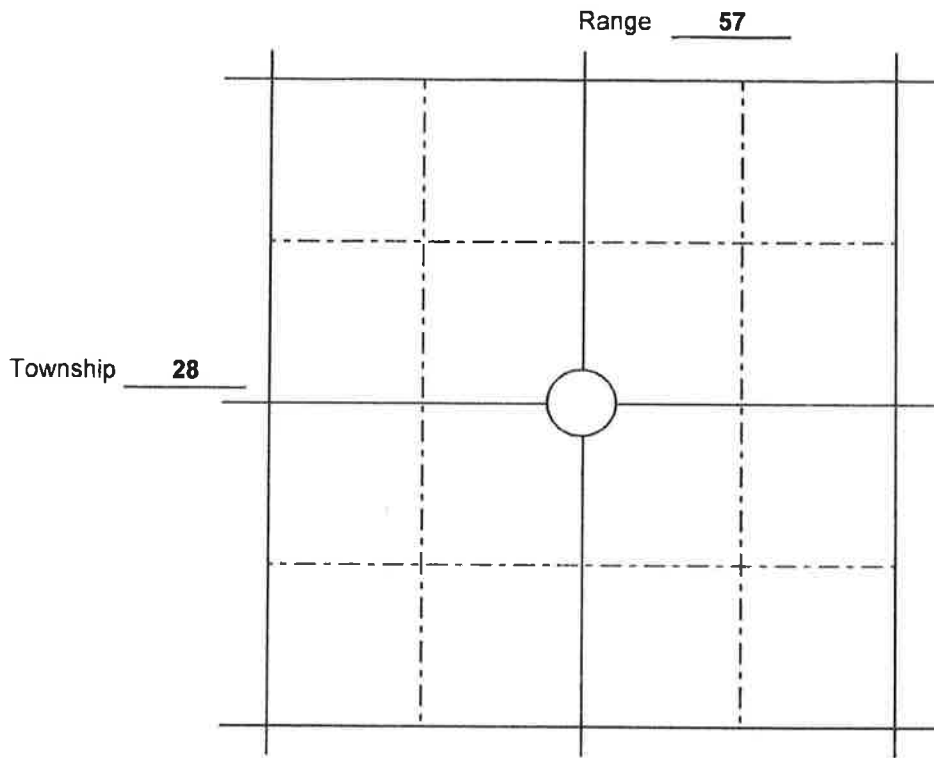
The undersigned hereby certifies that the information contained on this application is true and correct:

3/11/26	
Date	Signed (Agent)
Peter Larsen, VP - Midstream	
Print Name and Title	
Telephone: _____	713-360-7705

SUPPLEMENTAL INFORMATION

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

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



BOARD USE ONLY

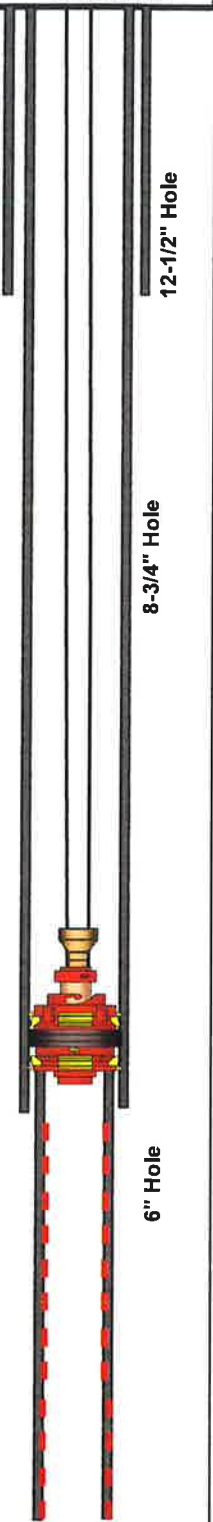
CONDITIONS OF APPROVAL

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

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

Hydra Services, LLC

Well Name: Lyda 31-1H SWD
 Legals: Lot 4 Sec. 31 T28N-R57E
 County, State: Roosevelt Co., Montana
 Date: 10/10/2025
 G.L. 2,101 K.B. 26

Proposed Installation					
Installation	Set Depth	Length	Description	OD	ID
	80.00	80.00	Casing Description:		
	1,880.00	1,880.00	Conductor- 65# H-40	16.000	15.250
	5,583.00	5,583.00	Surface Casing- 36# J-55 BTC	9.625	8.921
	9,685.00	4,202.00	Production Casing- 29.70# P-110 BTC	7.625	6.875
			Production Liner- 13.5# P-110 BTC	4.500	3.921
			Cement:		
			Surface CSG:		
			Lead: 290sx 12.1# Varicem CMT, 2.40 ft3/sx		
			Tail: 135sx 14.2# Varicem CMT, 1.63 ft3/sx		
			TOC: Surface		
			Production CSG:		
			Lead: 163sx 11.5# NeoCem CMT, 2.32 ft3/sx		
			TOC: Est. 1880'		
			Liner CSG:		
			Lead: Uncemented		
			WellHead:		
			11" 5M		
			Peforations:		
	5,300.00		1 SPF		
	9,600.00				
			Completion:		
	5,250.00		7 5/8" Nickel Plated AS1-X PKR		
			Stimulation:		
			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		
			TD @ 9,685' MD 5,540' TVD		

**WELL DETAILS: LYDA 31-1H SWD
PLAN #1**

+N/-S 0.00 **+E/W** 0.00 **GL Elev (ft):** 2101.00 **Longitude** -104.4151010
Northing 3208947.73 **Latitude** 48.1293730

Hydra Services, LLC



Project: Roosevelt County, MT
Site: S31-T28N-R57E
Well: LYDA 31-1H SWD
Wellbore: OH
Design: PLAN #1

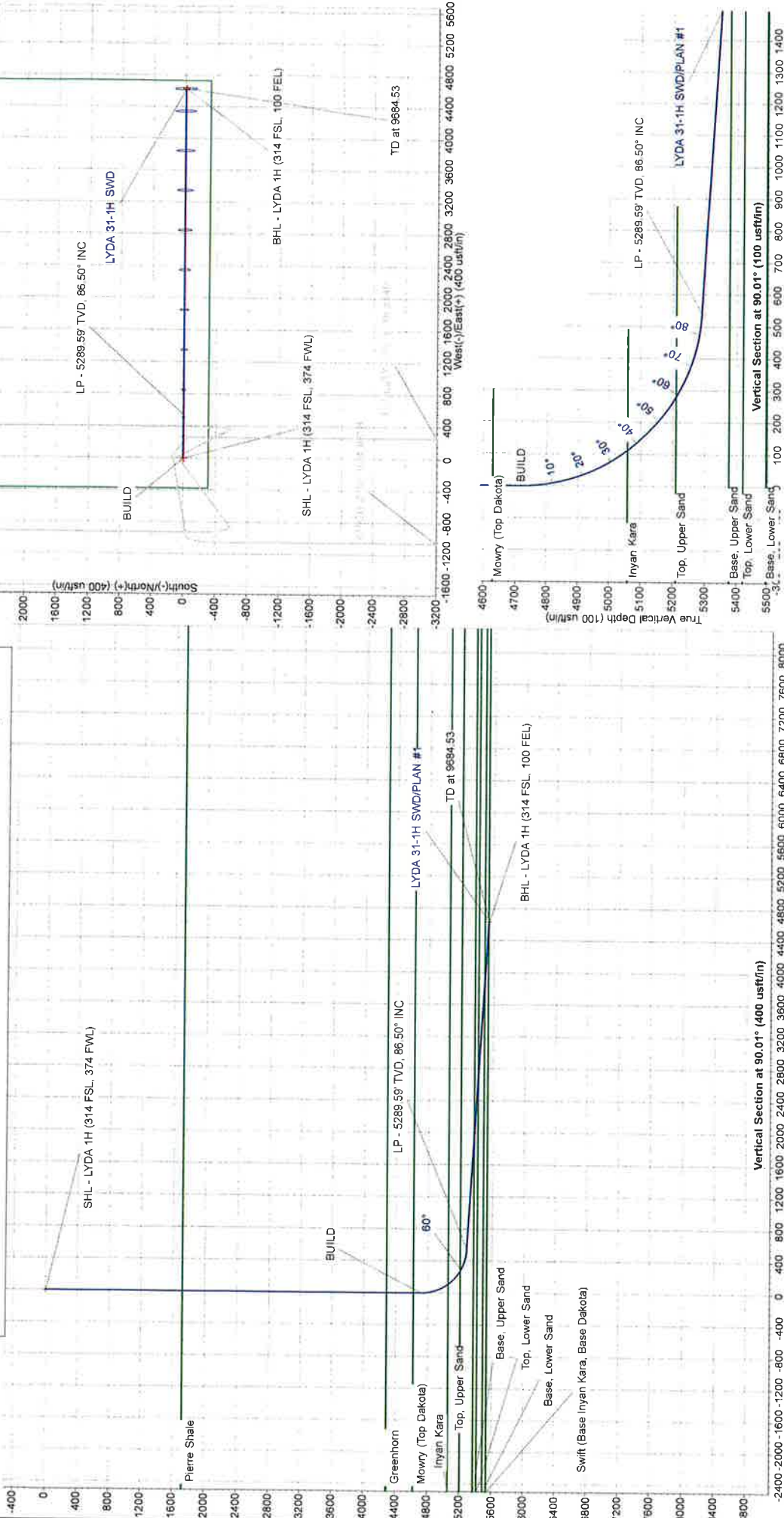
Magnetic North: 7.95°
Magnetic Field Strength: 55020.7 nT
Dip Angle: 72.30°
Date: 10/6/2025
Model: HDGM2025

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/W	Northing	Easting	Latitude	Longitude
SHL - LYDA 1H (314 FSL, 374 FWL)	0.00	0.00	0.00	1454563.46	3208947.73	48.1293730	-104.4151010
BHL - LYDA 1H (314 FSL, 100 FEL)	5840.00	-0.90	4632.15	1454863.07	3213570.19	48.1293690	-104.3961280

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	BUILD
4717.70	0.00	0.00	4717.70	0.00	0.00	0.00	0.00	0.00	BUILD
5583.70	86.50	90.01	5289.59	-0.10	537.98	10.00	90.01	537.98	LP - 5289.59' TVD, 86.50° INC
9684.53	86.50	90.01	5540.00	-0.30	4632.15	0.00	0.00	4632.15	TD at 9684.53



Vertical Section at 90.01° (400 usft/m)

Vertical Section at 90.01° (100 usft/m)

Hydra Services, LLC

Roosevelt County, MT

S31-T28N-R57E

LYDA 31-1H SWD

OH

Plan: PLAN #1



Standard Plan Report

06 October, 2025

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

Company:	Hydra Services, LLC	Local Co-ordinate Reference:	Well LYDA 31-1H SWD
Project:	Roosevelt County, MT	TVD Reference:	26' KB @ 2127.00usft
Site:	S31-T28N-R57E	MD Reference:	26' KB @ 2127.00usft
Well:	LYDA 31-1H SWD	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	.Total Directional Production DB

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

Site	S31-T28N-R57E				
Site Position:		Northing:	1,454,563.46 usft	Latitude:	48.1293730
From:	Lat/Long	Easting:	3,208,947.73 usft	Longitude:	-104.4151010
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	LYDA 31-1H SWD					
Well Position	+N/-S	0.00 usft	Northing:	1,454,563.46 usft	Latitude:	48.1293730
	+E/-W	0.00 usft	Easting:	3,208,947.73 usft	Longitude:	-104.4151010
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	2,101.00 usft
Grid Convergence:	3.72 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	10/6/2025	7.95	72.30	55,020.70000000

Design	PLAN #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	90.01	

Survey Tool Program	Date	10/6/2025			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	9,684.53	PLAN #1 (OH)	MWD+HRGM+FDIR	ISCWSA MWD+HRGM+FDIR	

Plan Summary										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,717.70	0.00	0.00	4,717.70	0.00	0.00	0.00	0.00	0.00	0.00	
5,582.70	86.50	90.01	5,289.59	-0.10	537.98	10.00	10.00	0.00	90.01	
9,684.53	86.50	90.01	5,540.00	-0.90	4,632.15	0.00	0.00	0.00	0.00	BHL - LYDA 1H (314 f

Planned Survey Report

Company: Hydra Services, LLC	Local Co-ordinate Reference: Well LYDA 31-1H SWD
Project: Roosevelt County, MT	TVD Reference: 26' KB @ 2127.00usft
Site: S31-T28N-R57E	MD Reference: 26' KB @ 2127.00usft
Well: LYDA 31-1H SWD	North Reference: True
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: PLAN #1	Database: 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	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
1,727.00	0.00	0.00	1,727.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
Pierre Shale													
1,800.00	0.00	0.00	1,800.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00

Planned Survey Report

Company:	Hydra Services, LLC	Local Co-ordinate Reference:	Well LYDA 31-1H SWD
Project:	Roosevelt County, MT	TVD Reference:	26' KB @ 2127.00usft
Site:	S31-T28N-R57E	MD Reference:	26' KB @ 2127.00usft
Well:	LYDA 31-1H SWD	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	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 (°)				
3,500.00	0.00	0.00	3,500.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
4,294.00	0.00	0.00	4,294.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
Greenhorn													
4,300.00	0.00	0.00	4,300.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
4,630.00	0.00	0.00	4,630.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
Mowry (Top Dakota)													
4,700.00	0.00	0.00	4,700.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
4,717.70	0.00	0.00	4,717.70	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010	0.00	0.00	0.00	0.00
BUILD													
4,800.00	8.23	90.01	4,799.72	0.00	5.90	1,454,563.84	3,208,953.62	48.1293730	-104.4150768	5.90	10.00	10.00	0.00
4,900.00	18.23	90.01	4,896.94	-0.01	28.76	1,454,565.32	3,208,976.43	48.1293730	-104.4149832	28.76	10.00	10.00	0.00
5,000.00	28.23	90.01	4,988.72	-0.01	68.15	1,454,567.86	3,209,015.74	48.1293730	-104.4148218	68.15	10.00	10.00	0.00
5,085.81	36.81	90.01	5,061.00	-0.02	114.24	1,454,570.84	3,209,061.73	48.1293730	-104.4146330	114.24	10.00	10.00	0.00
Inyan Kara													
5,100.00	38.23	90.01	5,072.26	-0.02	122.88	1,454,571.40	3,209,070.36	48.1293730	-104.4145976	122.88	10.00	10.00	0.00
5,200.00	48.23	90.01	5,145.03	-0.04	191.29	1,454,575.83	3,209,138.62	48.1293729	-104.4143174	191.29	10.00	10.00	0.00
5,300.00	58.23	90.01	5,204.81	-0.05	271.29	1,454,581.00	3,209,218.45	48.1293729	-104.4139897	271.29	10.00	10.00	0.00
5,313.93	59.62	90.01	5,212.00	-0.05	283.22	1,454,581.77	3,209,230.36	48.1293729	-104.4139408	283.22	10.00	10.00	0.00
Top, Upper Sand													
5,400.00	68.23	90.01	5,249.79	-0.07	360.46	1,454,586.77	3,209,307.44	48.1293728	-104.4136244	360.46	10.00	10.00	0.00
5,500.00	78.23	90.01	5,278.61	-0.09	456.08	1,454,592.96	3,209,402.86	48.1293728	-104.4132327	456.08	10.00	10.00	0.00
5,582.70	86.50	90.01	5,289.59	-0.10	537.98	1,454,598.25	3,209,484.59	48.1293727	-104.4128972	537.98	10.00	10.00	0.00
LP - 5289.59' TVD, 86.50° INC													
5,600.00	86.50	90.01	5,290.65	-0.11	555.25	1,454,599.37	3,209,501.82	48.1293727	-104.4128265	555.25	0.00	0.00	0.00
5,700.00	86.50	90.01	5,296.75	-0.13	655.06	1,454,605.83	3,209,601.42	48.1293726	-104.4124176	655.06	0.00	0.00	0.00
5,800.00	86.50	90.01	5,302.86	-0.15	754.87	1,454,612.28	3,209,701.03	48.1293726	-104.4120087	754.87	0.00	0.00	0.00
5,900.00	86.50	90.01	5,308.96	-0.17	854.69	1,454,618.74	3,209,800.63	48.1293725	-104.4115999	854.69	0.00	0.00	0.00
6,000.00	86.50	90.01	5,315.07	-0.18	954.50	1,454,625.19	3,209,900.23	48.1293725	-104.4111910	954.50	0.00	0.00	0.00
6,100.00	86.50	90.01	5,321.17	-0.20	1,054.31	1,454,631.65	3,209,999.84	48.1293724	-104.4107821	1,054.31	0.00	0.00	0.00

Planned Survey Report

Company:	Hydra Services, LLC	Local Co-ordinate Reference:	Well LYDA 31-1H SWD
Project:	Roosevelt County, MT	TVD Reference:	26' KB @ 2127.00usft
Site:	S31-T28N-R57E	MD Reference:	26' KB @ 2127.00usft
Well:	LYDA 31-1H SWD	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	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 (°)				
6,200.00	86.50	90.01	5,327.27	-0.22	1,154.13	1,454,638.11	3,210,099.44	48.1293723	-104.4103733	1,154.13	0.00	0.00	0.00
6,300.00	86.50	90.01	5,333.38	-0.24	1,253.94	1,454,644.56	3,210,199.05	48.1293722	-104.4099644	1,253.94	0.00	0.00	0.00
6,400.00	86.50	90.01	5,339.48	-0.26	1,353.75	1,454,651.02	3,210,298.65	48.1293722	-104.4095555	1,353.75	0.00	0.00	0.00
6,500.00	86.50	90.01	5,345.59	-0.28	1,453.57	1,454,657.47	3,210,398.26	48.1293721	-104.4091466	1,453.57	0.00	0.00	0.00
6,600.00	86.50	90.01	5,351.69	-0.30	1,553.38	1,454,663.93	3,210,497.86	48.1293720	-104.4087378	1,553.38	0.00	0.00	0.00
6,700.00	86.50	90.01	5,357.80	-0.32	1,653.20	1,454,670.39	3,210,597.47	48.1293720	-104.4083289	1,653.20	0.00	0.00	0.00
6,800.00	86.50	90.01	5,363.90	-0.34	1,753.01	1,454,676.84	3,210,697.07	48.1293719	-104.4079200	1,753.01	0.00	0.00	0.00
6,900.00	86.50	90.01	5,370.01	-0.36	1,852.82	1,454,683.30	3,210,796.67	48.1293718	-104.4075111	1,852.82	0.00	0.00	0.00
7,000.00	86.50	90.01	5,376.11	-0.38	1,952.64	1,454,689.75	3,210,896.28	48.1293717	-104.4071023	1,952.64	0.00	0.00	0.00
7,014.52	86.50	90.01	5,377.00	-0.38	1,967.13	1,454,690.69	3,210,910.74	48.1293717	-104.4070429	1,967.13	0.00	0.00	0.00
Base, Upper Sand													
7,100.00	86.50	90.01	5,382.22	-0.40	2,052.45	1,454,696.21	3,210,995.88	48.1293716	-104.4066934	2,052.45	0.00	0.00	0.00
7,200.00	86.50	90.01	5,388.32	-0.42	2,152.26	1,454,702.67	3,211,095.49	48.1293716	-104.4062845	2,152.26	0.00	0.00	0.00
7,300.00	86.50	90.01	5,394.43	-0.44	2,252.08	1,454,709.12	3,211,195.09	48.1293715	-104.4058757	2,252.08	0.00	0.00	0.00
7,400.00	86.50	90.01	5,400.53	-0.45	2,351.89	1,454,715.58	3,211,294.70	48.1293714	-104.4054668	2,351.89	0.00	0.00	0.00
7,500.00	86.50	90.01	5,406.64	-0.47	2,451.70	1,454,722.03	3,211,394.30	48.1293713	-104.4050579	2,451.70	0.00	0.00	0.00
7,600.00	86.50	90.01	5,412.74	-0.49	2,551.52	1,454,728.49	3,211,493.91	48.1293712	-104.4046490	2,551.52	0.00	0.00	0.00
7,700.00	86.50	90.01	5,418.85	-0.51	2,651.33	1,454,734.95	3,211,593.51	48.1293711	-104.4042402	2,651.33	0.00	0.00	0.00
7,751.64	86.50	90.01	5,422.00	-0.52	2,702.87	1,454,738.28	3,211,644.94	48.1293711	-104.4040290	2,702.87	0.00	0.00	0.00
Top, Lower Sand													
7,800.00	86.50	90.01	5,424.95	-0.53	2,751.14	1,454,741.40	3,211,693.11	48.1293710	-104.4038313	2,751.14	0.00	0.00	0.00
7,900.00	86.50	90.01	5,431.06	-0.55	2,850.96	1,454,747.86	3,211,792.72	48.1293709	-104.4034224	2,850.96	0.00	0.00	0.00
8,000.00	86.50	90.01	5,437.16	-0.57	2,950.77	1,454,754.31	3,211,892.32	48.1293708	-104.4030135	2,950.77	0.00	0.00	0.00
8,100.00	86.50	90.01	5,443.27	-0.59	3,050.58	1,454,760.77	3,211,991.93	48.1293707	-104.4026047	3,050.58	0.00	0.00	0.00
8,200.00	86.50	90.01	5,449.37	-0.61	3,150.40	1,454,767.23	3,212,091.53	48.1293706	-104.4021958	3,150.40	0.00	0.00	0.00
8,300.00	86.50	90.01	5,455.48	-0.63	3,250.21	1,454,773.68	3,212,191.14	48.1293705	-104.4017869	3,250.21	0.00	0.00	0.00
8,400.00	86.50	90.01	5,461.58	-0.65	3,350.02	1,454,780.14	3,212,290.74	48.1293704	-104.4013781	3,350.02	0.00	0.00	0.00
8,500.00	86.50	90.01	5,467.69	-0.67	3,449.84	1,454,786.60	3,212,390.35	48.1293703	-104.4009692	3,449.84	0.00	0.00	0.00
8,600.00	86.50	90.01	5,473.79	-0.69	3,549.65	1,454,793.05	3,212,489.95	48.1293702	-104.4005603	3,549.65	0.00	0.00	0.00
8,700.00	86.50	90.01	5,479.90	-0.71	3,649.46	1,454,799.51	3,212,589.55	48.1293701	-104.4001514	3,649.46	0.00	0.00	0.00
8,800.00	86.50	90.01	5,486.00	-0.72	3,749.28	1,454,805.96	3,212,689.16	48.1293700	-104.3997426	3,749.28	0.00	0.00	0.00
8,900.00	86.50	90.01	5,492.11	-0.74	3,849.09	1,454,812.42	3,212,788.76	48.1293699	-104.3993337	3,849.09	0.00	0.00	0.00
8,980.17	86.50	90.01	5,497.00	-0.76	3,929.11	1,454,817.60	3,212,868.62	48.1293698	-104.3990059	3,929.11	0.00	0.00	0.00
Base, Lower Sand													
9,000.00	86.50	90.01	5,498.21	-0.76	3,948.91	1,454,818.88	3,212,888.37	48.1293698	-104.3989248	3,948.91	0.00	0.00	0.00
9,100.00	86.50	90.01	5,504.32	-0.78	4,048.72	1,454,825.33	3,212,987.97	48.1293697	-104.3985159	4,048.72	0.00	0.00	0.00
9,200.00	86.50	90.01	5,510.42	-0.80	4,148.53	1,454,831.79	3,213,087.58	48.1293696	-104.3981071	4,148.53	0.00	0.00	0.00
9,300.00	86.50	90.01	5,516.53	-0.82	4,248.35	1,454,838.24	3,213,187.18	48.1293695	-104.3976982	4,248.35	0.00	0.00	0.00

Planned Survey Report

Company:	Hydra Services, LLC	Local Co-ordinate Reference:	Well LYDA 31-1H SWD
Project:	Roosevelt County, MT	TVD Reference:	26' KB @ 2127.00usft
Site:	S31-T28N-R57E	MD Reference:	26' KB @ 2127.00usft
Well:	LYDA 31-1H SWD	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	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 (°)				
9,400.00	86.50	90.01	5,522.63	-0.84	4,348.16	1,454,844.70	3,213,286.79	48.1293694	-104.3972893	4,348.16	0.00	0.00	0.00
9,500.00	86.50	90.01	5,528.74	-0.86	4,447.97	1,454,851.16	3,213,386.39	48.1293693	-104.3968805	4,447.97	0.00	0.00	0.00
9,600.00	86.50	90.01	5,534.84	-0.88	4,547.79	1,454,857.61	3,213,486.00	48.1293691	-104.3964716	4,547.79	0.00	0.00	0.00
9,684.53	86.50	90.01	5,540.00	-0.90	4,632.15	1,454,863.07	3,213,570.19	48.1293690	-104.3961280	4,632.15	0.00	0.00	0.00

TD at 9684.53

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL - LYDA 1H (314 FSI) - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	1,454,563.46	3,208,947.73	48.1293730	-104.4151010
BHL - LYDA 1H (314 FSI) - plan hits target center - Point	0.00	0.00	5,540.00	-0.90	4,632.15	1,454,863.07	3,213,570.19	48.1293690	-104.3961260

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,727.00	1,727.00	Pierre Shale			
4,294.00	4,294.00	Greenhorn			
4,630.00	4,630.00	Mowry (Top Dakota)			
5,085.81	5,061.00	Inyan Kara			
5,313.93	5,212.00	Top, Upper Sand			
7,014.52	5,377.00	Base, Upper Sand			
7,751.64	5,422.00	Top, Lower Sand			
8,980.17	5,497.00	Base, Lower Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4718	4718	0	0	BUILD
5583	5290	0	538	LP - 5289.59' TVD, 86.50° INC
9685	5540	-1	4632	TD at 9684.53

Checked By: _____ Approved By: _____ Date: _____

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

Hydra Services, LLC
Lyda 31-1H SWD
Roosevelt County, MT

API No: _____

COMPLETION PROCEDURE

October 13, 2025

**Lyda 31-1H SWD
Roosevelt Co., MT**

COMPLETON OVERVIEW

WELL DATA:

Total Well Depth 9,685' MD, 5,540' TVD
GL 2,101'
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 – 1,880'	3950	2570
7-5/8"	29.7#	P-110	BTC	6.875	6.75	0 – 5,583'	9470	5340
4.5"	13.5#	P-110	BTC	3.921	3.795	5,483 – 9,685'	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.

**Lyda 31-1H 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 9,640'.
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

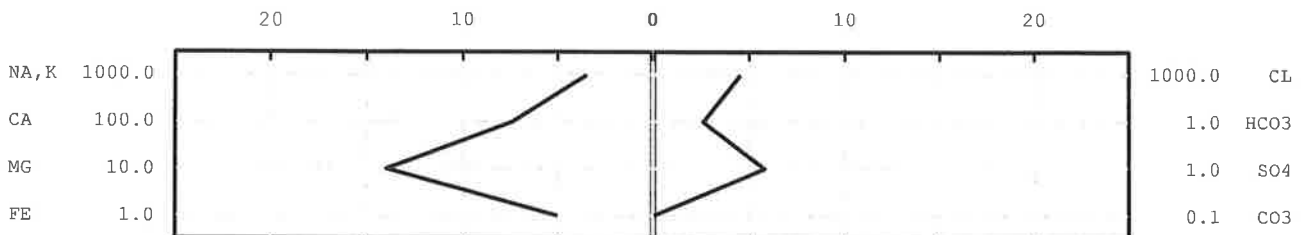
H₂S Negative

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

P.O. Box 972

Phone: (701) 572-7355

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

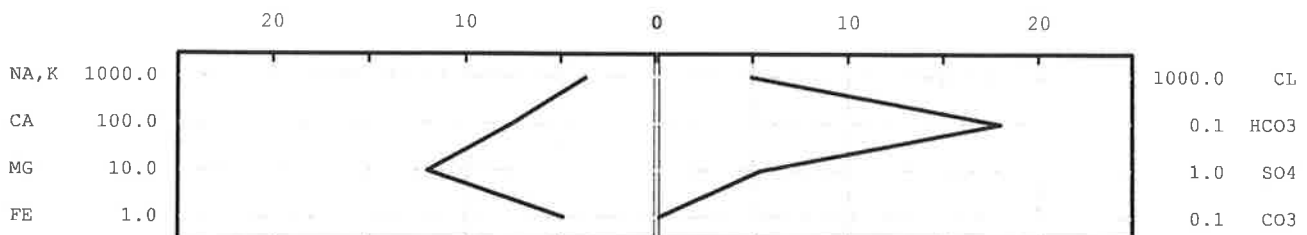
H₂S Negative

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-R56E-Section 36: E2SE

Bowker Corporation
c/o Allen Bowker
5957 Road 1017
Culbertson, MT 59218

T28N-R57E-Section 31: S2

Bowker Corporation
c/o Allen Bowker
5957 Road 1017
Culbertson, MT 59218

T28N-R57E-Section 32: W2SW

Douglas Smith
196 US Hwy. 2
Bainville, MT 59212

T27N-R56E-Section 1 : NENE

Bowker Corporation
c/o Allen Bowker
5957 Road 1017
Culbertson, MT 59218

T27N-R57E-Section 6 : N2N2

Bowker Corporation
c/o Allen Bowker
5957 Road 1017
Culbertson, MT 59218

State of Montana DNRC
PO Box 201601
Helena, MT 59620

T27N-R57E-Section 5 : NWNW

Anderson Diamond Ranch, Inc.
6224 Road 1017
Culbertson, MT 59218

List of Unleased Mineral Ownership / Working Interest Owners

T28N-R56E-Section 36: E2SE

Kraken Oil & Gas LLC
945 Bunker Hill Rd., Ste. 1200
Houston, TX 77024

T28N-R57E-Section 31: S2

Kraken Oil & Gas LLC
945 Bunker Hill Rd., Ste. 1200
Houston, TX 77024

Heirs or Devises of William James Donnell
6420 66th Pl. NE
Marysville, WA 98270

T28N-R57E-Section 32: W2SW

Kraken Oil & Gas LLC
945 Bunker Hill Rd., Ste. 1200
Houston, TX 77024

T27N-R56E-Section 1 : NENE

Kraken Oil & Gas LLC
945 Bunker Hill Rd., Ste. 1200
Houston, TX 77024

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

Houck Energy Resources, LLC
PO Box 119
Wibaux, MT 59353
Incline Bakken III, LLC
4645 N. Central Expressway, Ste. 100
Dallas, TX 75205

D.J. Stuber Land & Royalty Trust
PO Box 1414
Dickinson, ND 58602

Grayson Mill Royalty Holdings II, LLC
840 W. Sam Houston Pkwy. N, Ste. 300
Houston, TX 77024

Pitchblack Oil, LLC
PO Box 1404
Dickinson, ND 58602

Charlie Lyndes
PO Box 324
Hysham, MT 59038

Billie M. Goggin
6329 Ridge Stone Dr. N
Billings, MT 59106

Cory L. Thompson
756 Melody Lane
Fergus Falls, MN 56537

Kurt A. & Marcia K. VonBokern
1721 11th St. SW
Minot, ND 58701

T27N-R57E-Section 6 : N2N2

Kraken Oil & Gas LLC
945 Bunker Hill Rd., Ste. 1200
Houston, TX 77024

T27N-R57E-Section 5 : NWNW

Kraken Oil & Gas LLC
945 Bunker Hill Rd., Ste. 1200
Houston, TX 77024

NOTICE

March 30, 2026

To: Anderson Diamond Ranch, Inc.
6224 Road 1017
Culbertson, MT 59218

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 (Lyda 31-1H SWD)

Lot 4, Section 31, Township 28N Range 57E, 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 June 11, 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

March 30, 2026

To: Billie M. Goggin
6329 Ridge Stone Dr. N
Billings, MT 59106

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 (Lyda 31-1H SWD)

Lot 4, Section 31, Township 28N Range 57E, Roosevelt County, MT

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Respectfully,

Justin L. Payne

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

NOTICE

March 30, 2026

To: Bowker Corporation
c/o Allen Bowker
5957 Road 1017
Culbertson, MT 59218

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 (Lyda 31-1H SWD)

Lot 4, Section 31, Township 28N Range 57E, Roosevelt County, MT

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Respectfully,

Justin L. Payne

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

NOTICE

March 30, 2026

To: Charlie Lyndes
PO Box 324
Hysham, MT 59038

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 (Lyda 31-1H SWD)

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Respectfully,

Justin L. Payne

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

NOTICE

March 30, 2026

To: Cory L. Thompson
756 Melody Lane
Fergus Falls, MN 56537

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 (Lyda 31-1H SWD)

Lot 4, Section 31, Township 28N Range 57E, Roosevelt County, MT

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Respectfully,

Justin L. Payne

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

NOTICE

March 30, 2026

To: D.J. Stuber Land & Royalty Trust
PO Box 1414
Dickinson, ND 58602

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 (Lyda 31-1H SWD)

Lot 4, Section 31, Township 28N Range 57E, Roosevelt County, MT

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Respectfully,

Justin L. Payne

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

NOTICE

March 30, 2026

To: Douglas Smith
196 US Hwy. 2
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 (Lyda 31-1H SWD)

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Respectfully,

Justin L. Payne

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

NOTICE

March 30, 2026

To: Grayson Mill Royalty Holdings II, LLC
840 W. Sam Houston Pkwy. N, Ste. 300
Houston, TX 77024

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 (Lyda 31-1H SWD)

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Respectfully,

Justin L. Payne

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

NOTICE

March 30, 2026

To: Heirs and Devisees of William James Donnell
6420 66th Pl. NE
Marysville, WA 98270

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 (Lyda 31-1H SWD)

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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 June 11, 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

March 30, 2026

To: Houck Energy Resources, LLC
PO Box 119
Wibaux, MT 59353

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 (Lyda 31-1H SWD)

Lot 4, Section 31, Township 28N Range 57E, Roosevelt County, MT

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Respectfully,

Justin L. Payne

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

NOTICE

March 30, 2026

To: Incline Bakken III, LLC
4645 N. Central Expressway, Ste. 100
Dallas, TX 75205

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 (Lyda 31-1H SWD)

Lot 4, Section 31, Township 28N Range 57E, Roosevelt County, MT

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Respectfully,

Justin L. Payne

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

NOTICE

March 30, 2026

To: Kurt A. & Marcia K. VonBokern
1721 11th St. SW
Minot, ND 58701

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 (Lyda 31-1H SWD)

Lot 4, Section 31, Township 28N Range 57E, 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 June 11, 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

March 30, 2026

To: Phoenix Energy One, LLC
18575 Jamboree Rd., Ste. 830
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 (Lyda 31-1H SWD)

Lot 4, Section 31, Township 28N Range 57E, 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 June 11, 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

March 30, 2026

To: Pitchblack Oil, LLC
PO Box 1404
Dickinson, ND 58602

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 (Lyda 31-1H SWD)

Lot 4, Section 31, Township 28N Range 57E, 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 June 11, 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

March 30, 2026

To: State of Montana
Attn: Oil & Gas
PO Box 201601
Helena, MT 59620

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 (Lyda 31-1H SWD)

Lot 4, Section 31, Township 28N Range 57E, 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 June 11, 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

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

IN THE MATTER OF THE APPLICATION OF HYDRA SERVICES LLC FOR THE HEARING OF ITS REQUEST FOR A UIC PERMIT FOR THE LYDA 31-1H SWD WELL, 314'FSL, 374'FWL, SECTION 31, TOWNSHIP 28 NORTH, RANGE 57 EAST, M.P.M., ROOSEVELT COUNTY, MONTANA, FOR THE PURPOSE OF WATER INJECTION

AFFIDAVIT OF NOTIFICATION

DATE: March 30, 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 30th day of March, 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 30th day of March, 2026.




Notary Public for the State of Texas
Residing at Harris County
My Commission Expires 3/28/30

(SEAL)

March 11, 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,
Lyda 31-1H SWD in Lot 4 of Sec. 31-T28N-R57E, 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 June 11, 2026.

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

Sincerely,



Pete Larsen
VP - Midstream
Hydra Services, LLC

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

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

In the Matter of the application of **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:

Lyda 31-H SWD located:

SHL: Lot 4 Section 31, T28N, R57E, Roosevelt County, MT. Footages: 314' FSL & 374' FWL EI: 2101'

BHL: SESE Section 31, T28N, R57E, Roosevelt County, MT. Footages: 314' FSL & 100' FEL

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 4630' – 5540'

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 Services 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, **(June 11, 2026)**.