

State of Montana
Board of Oil and Gas Conservation

Docket No: _____
Underground Injection Control
Application

Salty Dog III 20-1H SWD
Sec. 20 T26N 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, Richland Field

The following is submitted in support of our application to permit the drilling and completion of the Salty Dog III 20-1H SWD well for the purposes of water injection into the Dakota Group and related rocks within the proposed Wildcat, Richland 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 Salty Dog III 20-1H SWD well has been proposed for drilling and completion of a water injection within the Wildcat, Richland Field in Richland County, Montana as described below. Appendix I, depicts the surface location and a quarter ¼-mile radius representing the area of review (AOR) for this well at the SHL, along the wellbore and the BHL.

Salty Dog III 20-1H SWD
260' FNL, 646' FEL
NENE Section 20, T26N, R57E

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

There are currently no wells within the 1/4-mile AOR. Future wells targeting the Middle Bakken, are expected to be drilled and completed after the Salty Dog III 20-1H 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:

Surface facilities for the Salty Dog III 20-1H SWD will be constructed on the same pad as the injection well.

The Salty Dog III 20-1H SWD's injection fluids will come from neighboring development in the future. Produced water from additional wells may be trucked or pipelined into this location in the future but there are no definitive plans at this time.

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

There are no active producing wells within the AOR. The Bakken and Red River are formations that are producing or have produced within T26N R57E in Richland County, MT. The Middle Bakken Formation produces between 9,915' and 10,110'.

Fresh water well/monitoring data was obtained from the Montana Department of Natural Resources and Conservation, Water Resources, Division. There are no existing freshwater wells in the AOR. There are no freshwater wells which produces within the ¼-Mile AOR of the proposed injector, but there are two water wells within a half mile of the proposed injector.

<u>Location</u>	<u>S-T-R</u>	<u>Well ID</u>	<u>Well Name</u>	<u>Depth</u>
NA	NA	NA	NA	NA

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>
NENENE	21-26N-58E	38697	SOWLE BROS.	60
SENWNW	22-26N-57E	38687	O'CONNER BROS. INC.	30

Any offset water wells are protected from the proposed injection zone by surface casing to set at 2,250' 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 781' 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 - - - -3,428' SSTVD through -3,610' SSTVD with sand packages varying in thickness. The anticipated formation top for the Dakota (estimated KBTVD is 5030') and anticipated formation top for first Dakota perforation (estimated KBTVD is 5503'). 4. Zone or formation into which injection will occur, including depth: DAKOTA from 5503' – 6033'

The Cretaceous Mowry formation is the overlying confining formation for the Inyan Kara. The Mowry is estimated to be approximately 181' 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 524' thick in this area.

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

There are no current active wells in the AOR. Future wells targeting the Middle Bakken, are expected to be drilled and completed after the Salty Dog III 20-1H SWD is completed. Cement tops will be submitted to the Commission upon drilling of these wells.

1(g) Open Hole Logs:

The Salty Dog III 20-1H 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 Salty Dog III 20-1H 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 Salty Dog III 20-1H 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 5,007' 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 11,599' MD. 4.5" casing will be ran to TD, TVD will be at 6,033'.

1(i) Description of Injection Fluid:

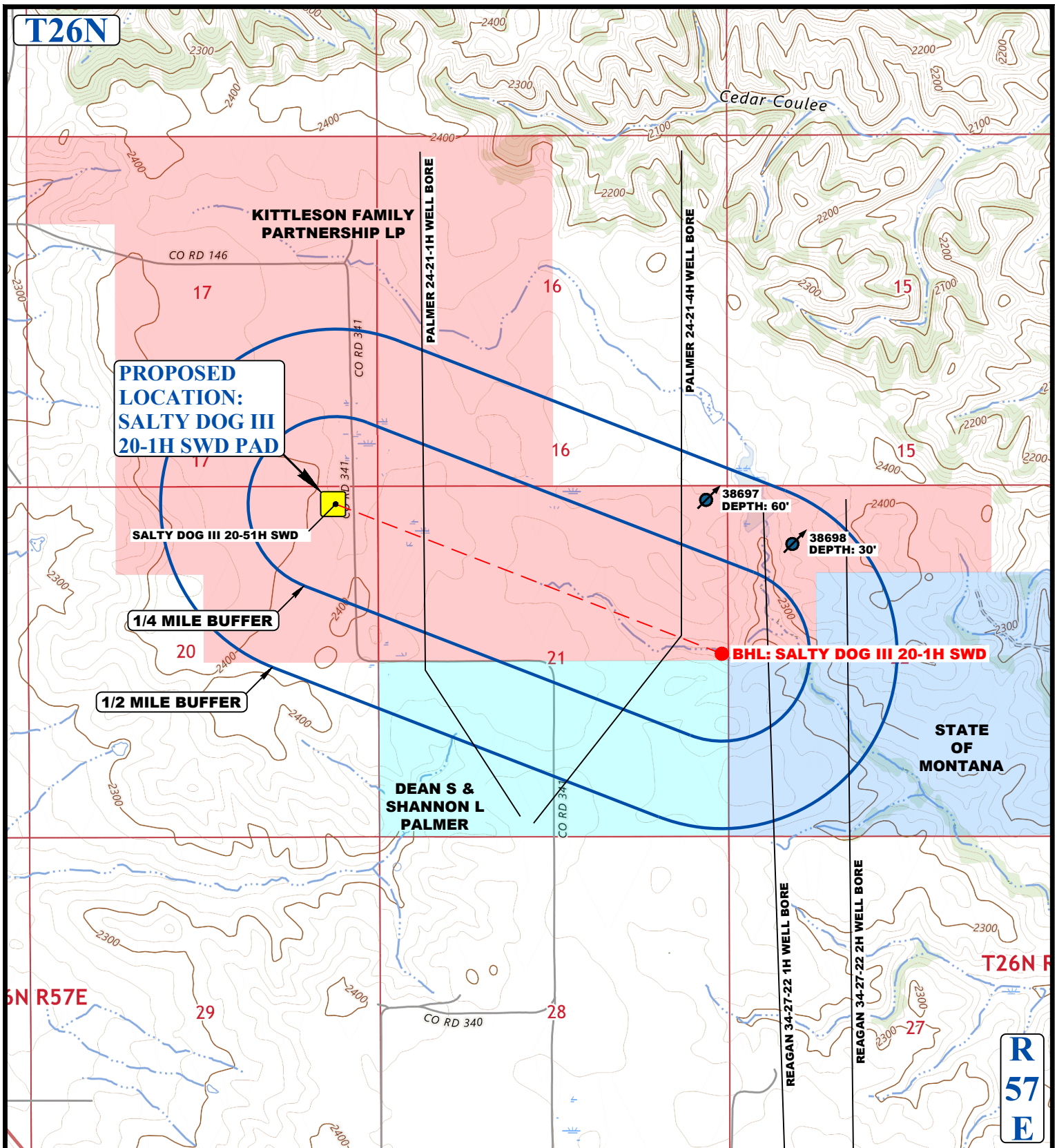
The Salty Dog III 20-1H SWD will primarily be used to inject produced water from wells producing from the Bakken formation in the surrounding area. Water from the Red River, Madison and other producing intervals of the Williston Basin may also be disposed of in the Salty Dog III 20-1H SWD depending on future development plans. Appendix VII, depicts a representative water analyses from a Bakken well in the area well that will be injected at the Salty Dog III 20-1H 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 & Roundup |



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 UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- OIL/GAS WELLS
- ⚓ WATER WELLS



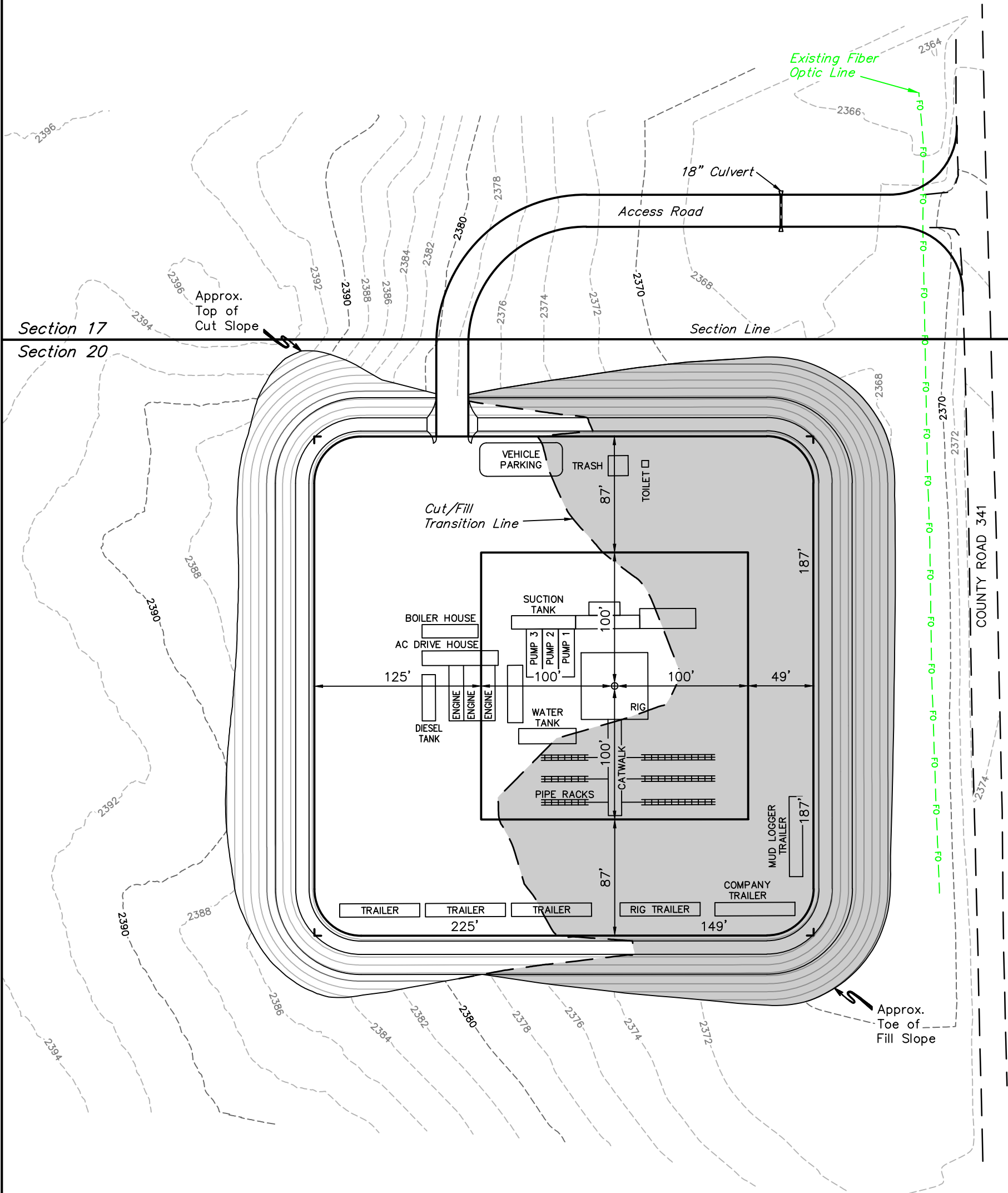
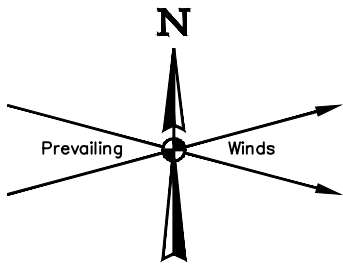
HYDRA SERVICES, LLC

SALTY DOG III 20-1H SWD PAD
NE 1/4 NE 1/4, SECTION 20, T26N, R57E, P.M.M.
RICHLAND COUNTY, MONTANA

SURVEYED BY	D.L., I.W.	06-30-26	SCALE
DRAWN BY	S.L.T.	07-29-26	1 : 24,000
WELL PROXIMITY MAP			TOPO C



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



NOTES:

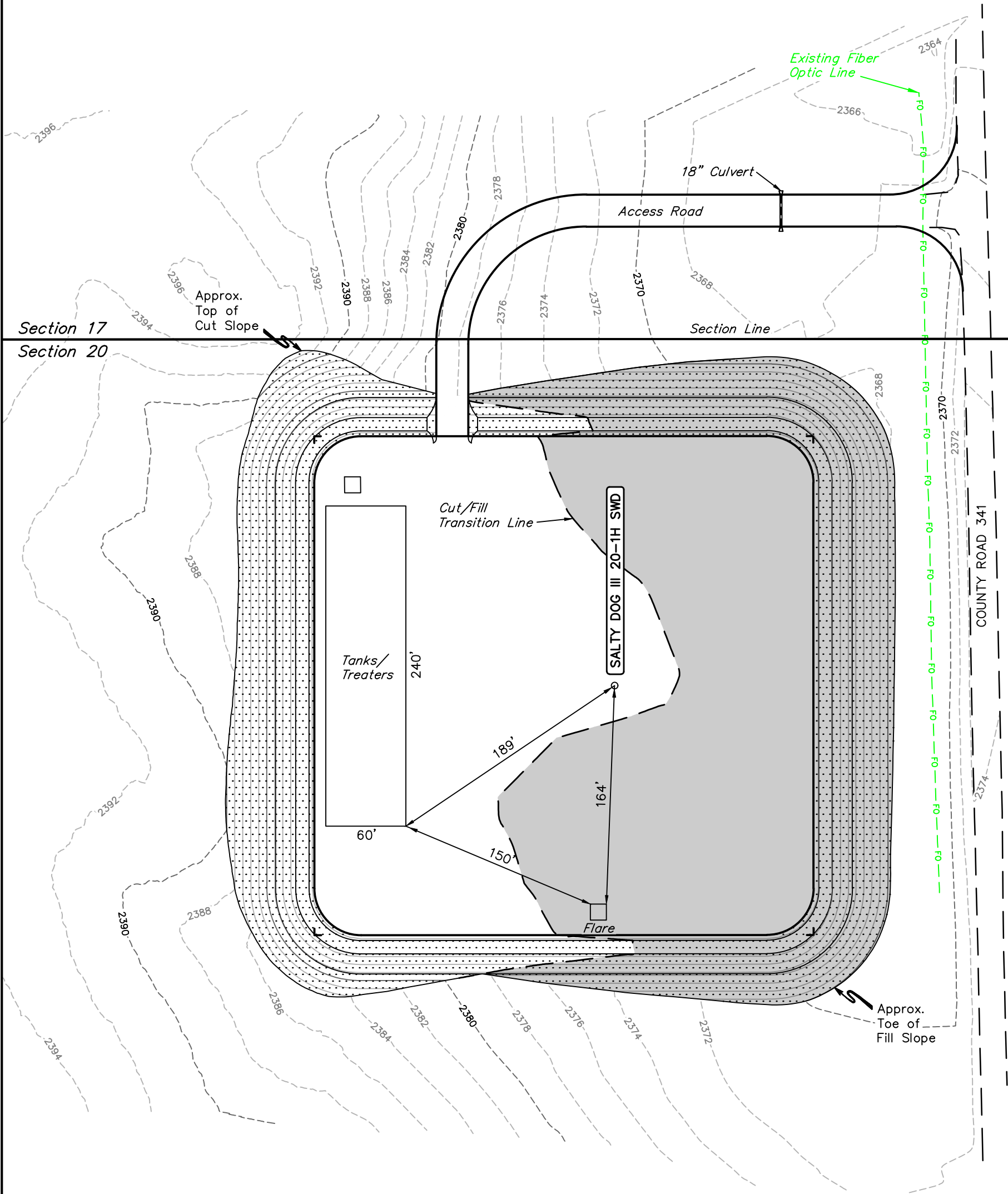
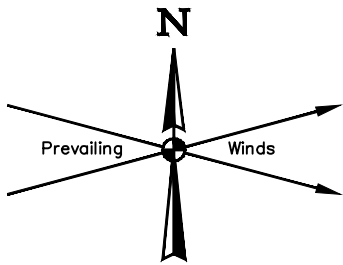
- Contours shown at 2' intervals.



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



HYDRA SERVICES, LLC			
SALTY DOG III 20-1H SWD PAD			
260' FNL 646' FEL			
NE 1/4 NE 1/4, SECTION 20, T26N, R57E, P.M.M.			
RICHLAND COUNTY, MONTANA			
SURVEYED BY	D.L., I.W.	06-30-26	SCALE
DRAWN BY	K.A.E.	07-28-26	1" = 80'
TYPICAL RIG LAYOUT			



LEGEND:	
	Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±3.187 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±1.977 ACRES
TOTAL ACREAGE = ±5.164 ACRES

NOTES:

- Contours shown at 2' intervals.



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Vernal, UT 84078 * (435) 789-1017



HYDRA SERVICES, LLC			
SALTY DOG III 20-1H SWD PAD			
260' FNL 646' FEL			
NE 1/4 NE 1/4, SECTION 20, T26N, R57E, P.M.M.			
RICHLAND COUNTY, MONTANA			
SURVEYED BY	D.L., I.W.	06-30-26	SCALE
DRAWN BY	K.A.E.	07-28-26	1" = 80'
INTERIM RECLAMATION PLAN			

Kraken Resources, LLC

Representative Log

Sundheim #A-28
250832160100
Sec 28, T26N R57E

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

LOG CURVES

0170

GR (GAPI) Calibrated Gamma-Ray {F12.3}

0.5500

LLS (ohmm) LLS

0.5500

LLD (ohmm) LLD

-0.070.2

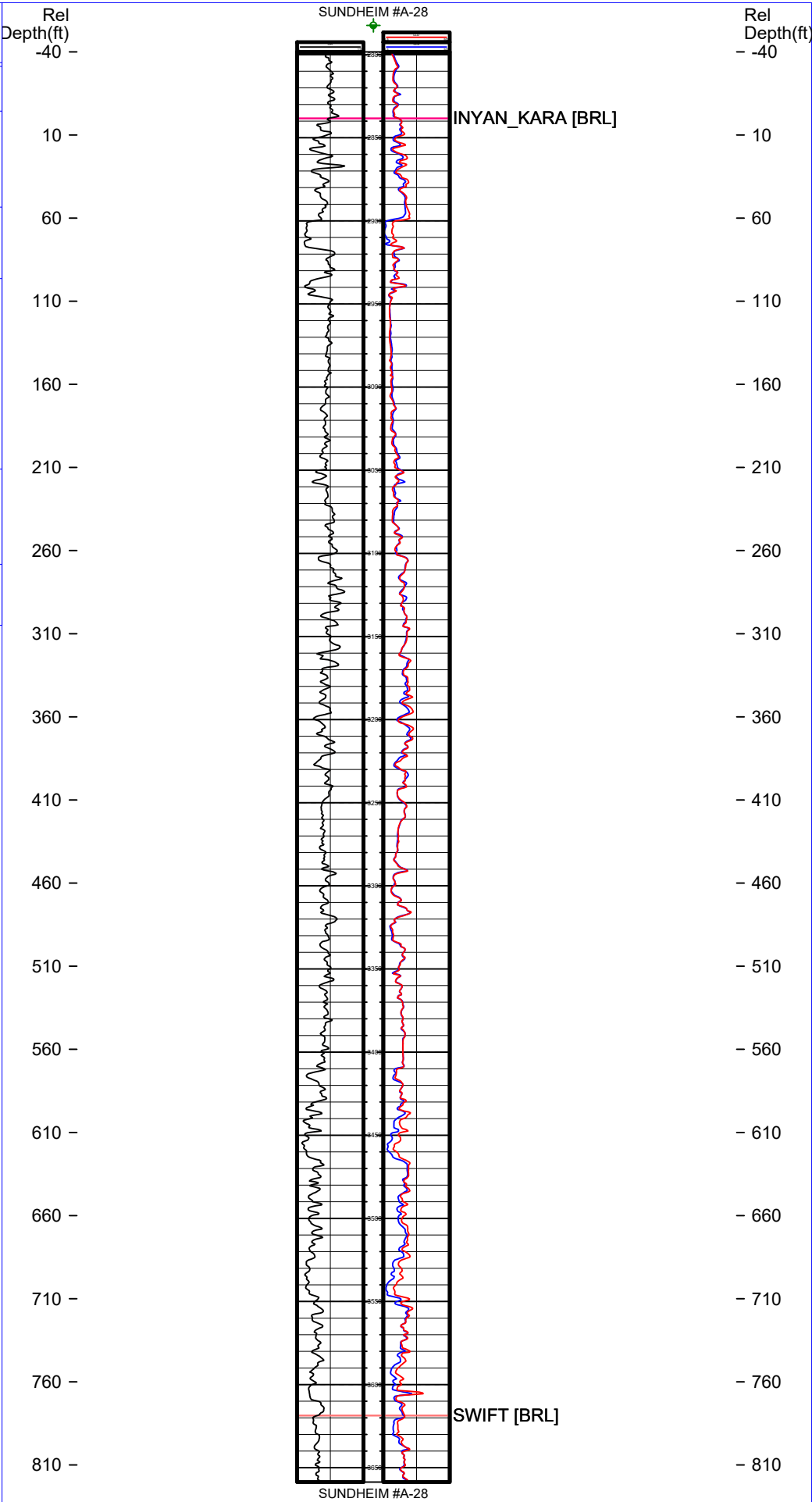
DRHO (G/C3) DENSITY CORRECTION

TOPS AND MARKERS

INYAN_KARA BRL

SWIFT BRL

Well Label



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: Salty Dog III
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: 20-1H SWD
Location of well (1/4-1/4 section and footage measurements): 260' FNL, 646' FEL NENE Section 20, T26N, R57E		Unit Agreement Name:
		Field Name or Wildcat: Wildcat, Richland
		Township, Range, and Section: 20-T26N-R57E
API Number: 25	Well Type (oil, gas, injection, other): Injection	County: Richland
State _____	County _____	Well _____

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

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

Describe Proposed or Completed Operations:

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

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 October 15, 2026.

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

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

8-26-26

Date



Signed (Agent)

Peter Larsen, VP - Midstream

Print Name and Title

Telephone: 713-360-7705

BOARD USE ONLY

Approved _____
Date _____

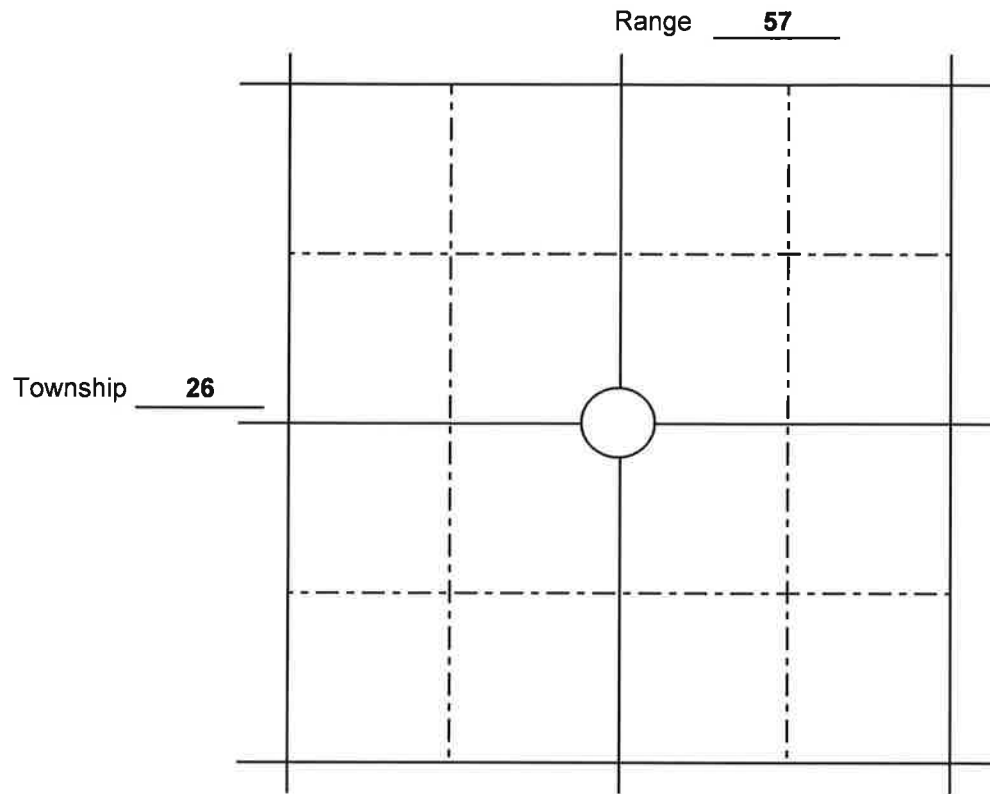
Name

Title

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:

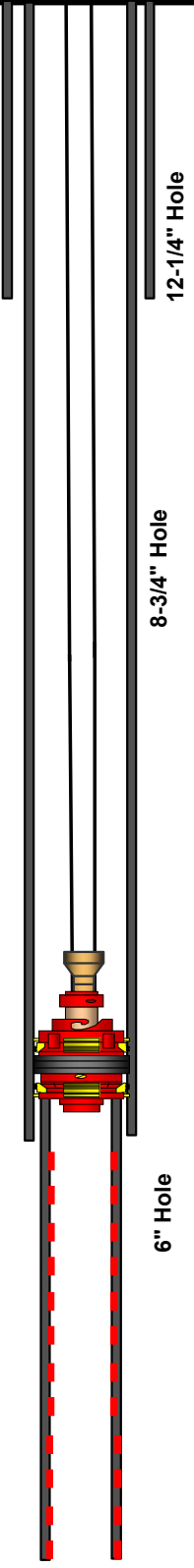
Failure to comply with the conditions of approval may void this permit.

Hydra Services, LLC

Well Name: Salty Dog III 20-1H SWD
 Legals: NENE Sec. 20 T26N-R57E
 County, State: Richland Co., Montana

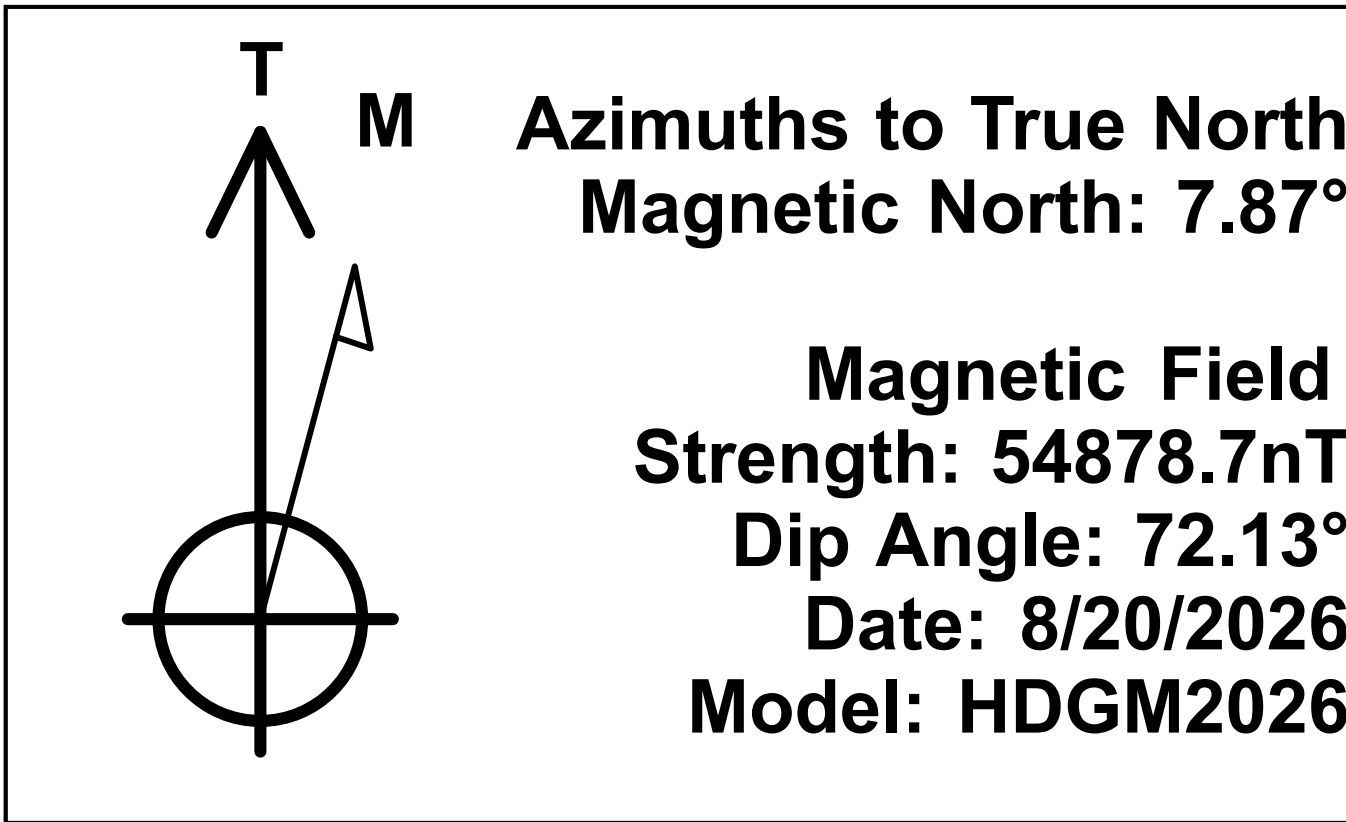
Date: 8/27/2026

G.L. 2,377 K.B. 26

Proposed Installation					
Installation	Set Depth	Length	Description	OD	ID
	80.00	80.00	Casing Description:		
	2,250.00	2,250.00	Conductor- 65# H-40	16.000	15.250
	2,861.00	5,861.00	Surface Casing- 36# J-55 BTC	9.625	8.921
			Production Casing- 29.70# P-110 BTC	7.625	6.875
	11,599.00	5,869.00	Production Liner- 13.5# P-110 BTC	4.500	3.921
			Cement:		
			Surface CSG:		
			Lead: 368sx 12.1# Varicem CMT, 2.40 ft3/sx		
			Tail: 135sx 14.2# Varicem CMT, 1.63 ft3/sx		
			TOC: Surface		
			Production CSG:		
			Lead: 158sx 11.5# NeoCem CMT, 2.32 ft3/sx		
			TOC: Est. 2,250'		
			Liner CSG:		
			Lead: Uncemented		
			WellHead:		
			11" 5M		
			Peforations:		
			1 SPF		
			Completion:		
			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 @ 11,599' MD 6,033' TVD		

SALTY DOG III 20-1H SWD

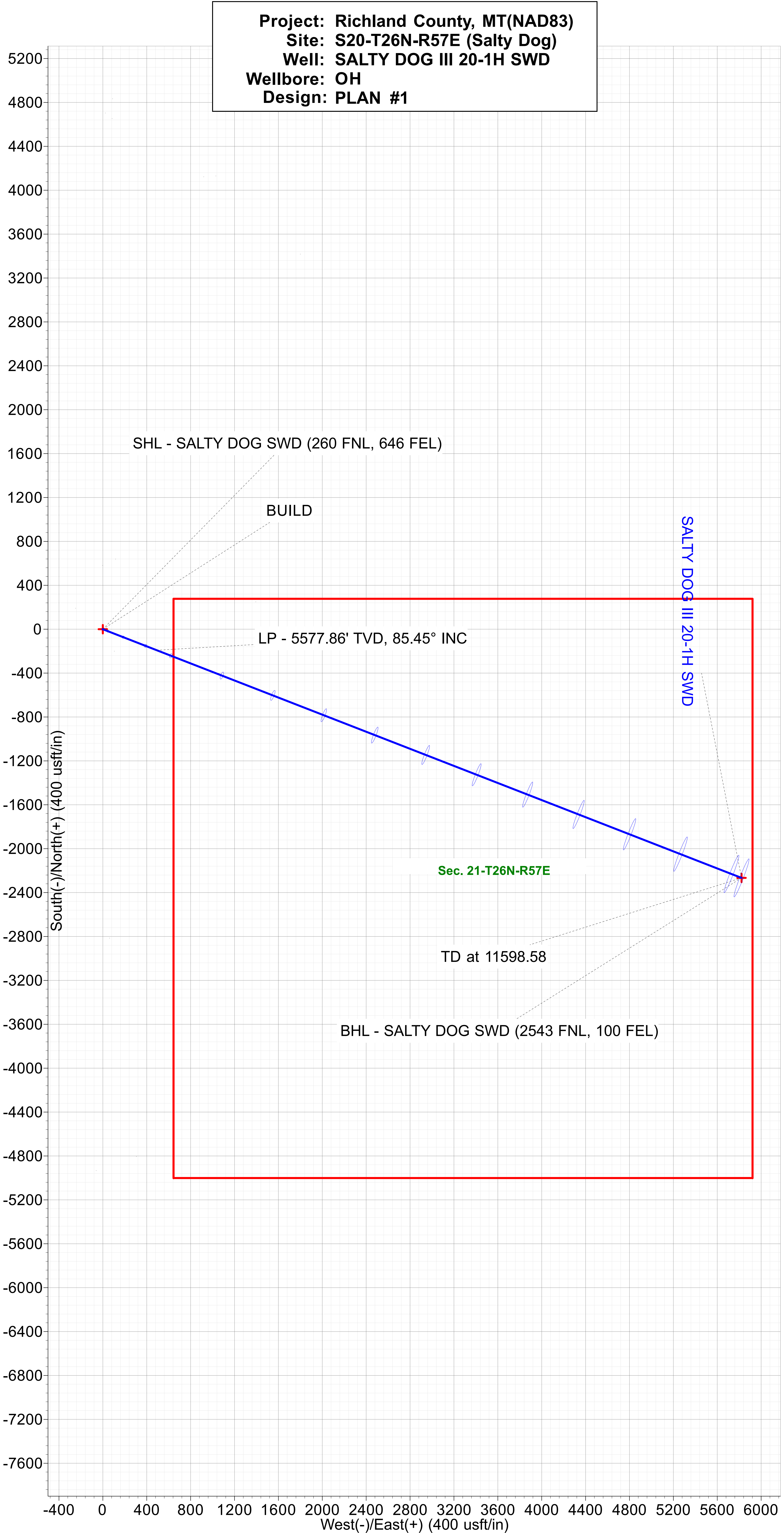
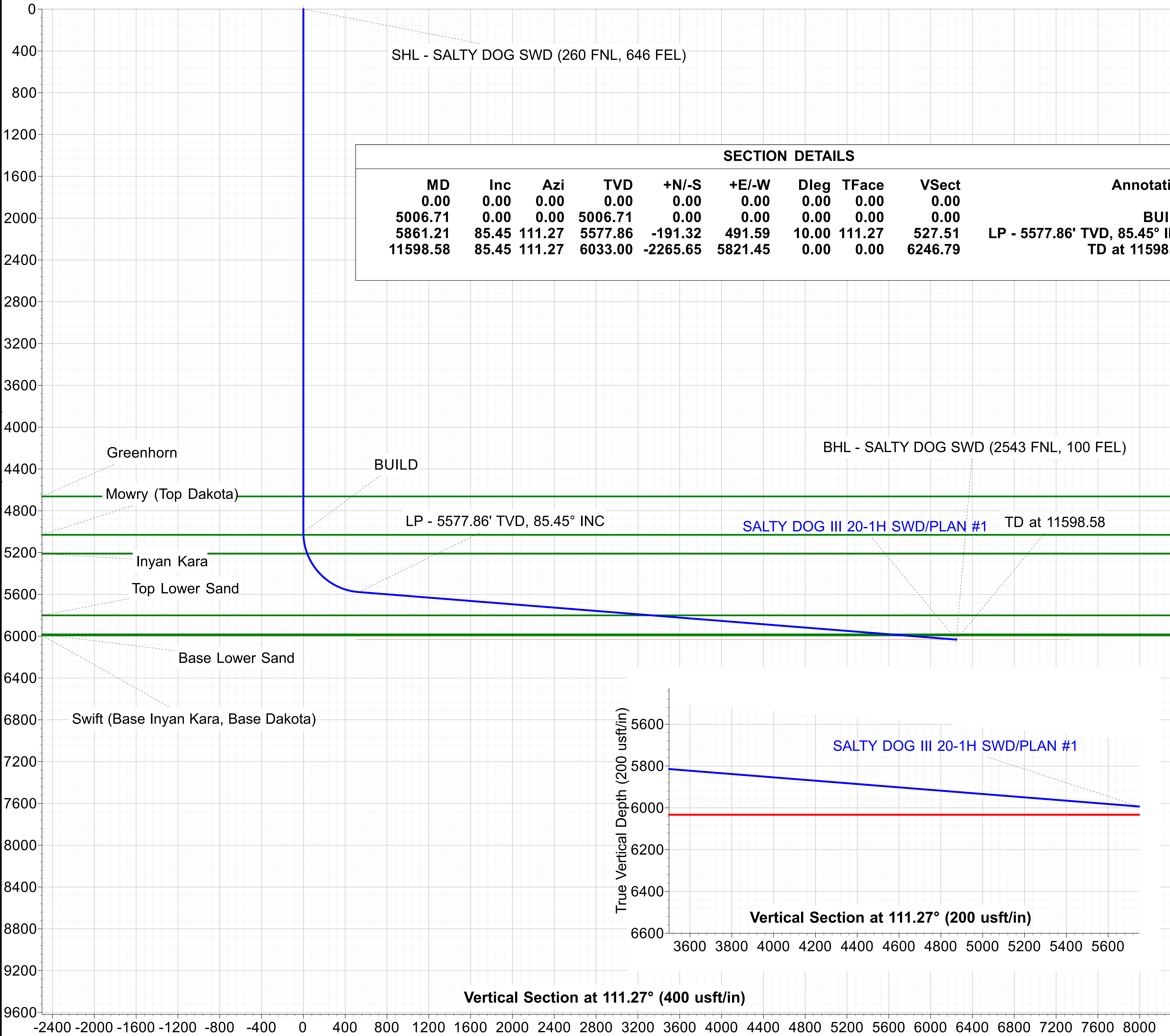
Hydra Services, LLC



WELL DETAILS: SALTY DOG III 20-1H SWD PLAN #1					
		GL Elev (ft):	2376.70		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1407039.62	3221078.73	47.9971530	-104.3782350

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL - SALTY DOG SWD (260 FNL, 646 FEL)	0.00	0.00	0.00	1407039.62	3221078.73	47.9971530	-104.3782350
BHL - SALTY DOG SWD (2543 FNL, 100 FEL)	6033.00	-2265.65	5821.45	1405159.22	3227035.78	47.9909370	-104.3544510

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	
5006.71	0.00	0.00	5006.71	0.00	0.00	0.00	0.00	0.00	BUILD
5861.21	85.45	111.27	5577.86	-191.32	491.59	10.00	111.27	527.51	LP - 5577.86' TVD, 85.45° INC
11598.58	85.45	111.27	6033.00	-2265.65	5821.45	0.00	0.00	6246.79	TD at 11598.58



Hydra Services, LLC

Richland County, MT(NAD83)

S20-T26N-R57E (Salty Dog)

SALTY DOG III 20-1H SWD

OH

Plan: PLAN #1



Standard Plan Report

20 August, 2026

Total Report Version 1.10

COMPASS 5000.18 Build 04

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 SALTY DOG III 20-1H SWD
Project:	Richland County, MT(NAD83)	TVD Reference:	26' KB @ 2402.70usft (B22)
Site:	S20-T26N-R57E (Salty Dog)	MD Reference:	26' KB @ 2402.70usft (B22)
Well:	SALTY DOG III 20-1H SWD	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	1. Total Production Database

Project	Richland County, MT(NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Montana		

Site						S20-T26N-R57E (Salty Dog)					
Site Position:				Northing:		1,407,039.63 usft		Latitude:		47.9971530	
From:		Lat/Long		Easting:		3,221,078.73 usft		Longitude:		-104.3782350	
Position Uncertainty:		0.00 usft		Slot Radius:		13-3/16 "					

Well	SALTY DOG III 20-1H SWD					
Well Position	+N/-S	0.00 usft	Northing:	1,407,039.63 usft	Latitude:	47.9971530
	+E/-W	0.00 usft	Easting:	3,221,078.73 usft	Longitude:	-104.3782350
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,376.70 usft
Grid Convergence:		3.75 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM2026	8/20/2026	7.87	72.13	54,878.70000000

Design	PLAN #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	111.27	

Survey Tool Program	Date	8/20/2026			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
0.00	11,598.58	PLAN #1 (OH)	MWD+HRGM+FDIR	ISCWSA MWD+HRGM+FDIR	

Plan Summary										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(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	
5,006.71	0.00	0.00	5,006.71	0.00	0.00	0.00	0.00	0.00	0.00	
5,861.21	85.45	111.27	5,577.86	-191.32	491.59	10.00	10.00	0.00	111.27	
11,598.58	85.45	111.27	6,033.00	-2,265.65	5,821.45	0.00	0.00	0.00	0.00	BHL - SALTY DOG SI

Planned Survey Report

Company:	Hydra Services, LLC	Local Co-ordinate Reference:	Well SALT Y DOG III 20-1H SWD
Project:	Richland County, MT(NAD83)	TVD Reference:	26' KB @ 2402.70usft (B22)
Site:	S20-T26N-R57E (Salty Dog)	MD Reference:	26' KB @ 2402.70usft (B22)
Well:	SALT Y DOG III 20-1H SWD	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	1. Total Production Database

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 (°)	Longituge (°)				
0.00	0.00	0.00	0.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
SHL - SALT Y DOG SWD (260 FNL, 646 FEL)													
100.00	0.00	0.00	100.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00

Planned Survey Report

Company:	Hydra Services, LLC	Local Co-ordinate Reference:	Well SALT Y DOG III 20-1H SWD
Project:	Richland County, MT(NAD83)	TVD Reference:	26' KB @ 2402.70usft (B22)
Site:	S20-T26N-R57E (Salty Dog)	MD Reference:	26' KB @ 2402.70usft (B22)
Well:	SALT Y DOG III 20-1H SWD	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	1. Total Production Database

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,600.00	0.00	0.00	3,600.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
4,663.00	0.00	0.00	4,663.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
Greenhorn													
4,700.00	0.00	0.00	4,700.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
5,006.71	0.00	0.00	5,006.71	0.00	0.00	1,407,039.62	3,221,078.73	47.9971530	-104.3782350	0.00	0.00	0.00	0.00
BUILD													
5,030.01	2.33	111.27	5,030.00	-0.17	0.44	1,407,039.48	3,221,079.18	47.9971526	-104.3782332	0.47	10.00	10.00	0.00
Mowry (Top Dakota)													
5,100.00	9.33	111.27	5,099.59	-2.75	7.06	1,407,037.34	3,221,085.96	47.9971455	-104.3782061	7.58	10.00	10.00	0.00
5,200.00	19.33	111.27	5,196.35	-11.71	30.10	1,407,029.90	3,221,109.53	47.9971209	-104.3781120	32.30	10.00	10.00	0.00
5,215.60	20.89	111.27	5,211.00	-13.66	35.09	1,407,028.29	3,221,114.64	47.9971156	-104.3780916	37.66	10.00	10.00	0.00
Inyan Kara													
5,300.00	29.33	111.27	5,287.36	-26.64	68.44	1,407,017.52	3,221,148.76	47.9970800	-104.3779553	73.44	10.00	10.00	0.00
5,400.00	39.33	111.27	5,369.83	-47.06	120.93	1,407,000.56	3,221,202.48	47.9970240	-104.3777409	129.77	10.00	10.00	0.00
5,500.00	49.33	111.27	5,441.28	-72.38	185.97	1,406,979.55	3,221,269.03	47.9969545	-104.3774751	199.55	10.00	10.00	0.00
5,600.00	59.33	111.27	5,499.52	-101.80	261.58	1,406,955.13	3,221,346.40	47.9968738	-104.3771662	280.69	10.00	10.00	0.00
5,700.00	69.33	111.27	5,542.78	-134.45	345.46	1,406,928.03	3,221,432.24	47.9967843	-104.3768234	370.70	10.00	10.00	0.00
5,800.00	79.33	111.27	5,569.76	-169.33	435.08	1,406,899.09	3,221,523.94	47.9966886	-104.3764572	466.87	10.00	10.00	0.00
5,861.21	85.45	111.27	5,577.86	-191.32	491.59	1,406,880.83	3,221,581.77	47.9966283	-104.3762263	527.51	10.00	10.00	0.00
LP - 5577.86' TVD, 85.45° INC													
5,900.00	85.45	111.27	5,580.94	-205.35	527.62	1,406,869.19	3,221,618.64	47.9965898	-104.3760791	566.18	0.00	0.00	0.00
6,000.00	85.45	111.27	5,588.87	-241.50	620.52	1,406,839.19	3,221,713.71	47.9964907	-104.3756995	665.86	0.00	0.00	0.00
6,100.00	85.45	111.27	5,596.80	-277.66	713.42	1,406,809.18	3,221,808.77	47.9963915	-104.3753199	765.55	0.00	0.00	0.00
6,200.00	85.45	111.27	5,604.74	-313.81	806.32	1,406,779.17	3,221,903.83	47.9962924	-104.3749404	865.23	0.00	0.00	0.00
6,300.00	85.45	111.27	5,612.67	-349.96	899.21	1,406,749.17	3,221,998.89	47.9961932	-104.3745608	964.91	0.00	0.00	0.00
6,400.00	85.45	111.27	5,620.60	-386.12	992.11	1,406,719.16	3,222,093.95	47.9960940	-104.3741812	1,064.60	0.00	0.00	0.00

Planned Survey Report

Company:	Hydra Services, LLC	Local Co-ordinate Reference:	Well SALT Y DOG III 20-1H SWD
Project:	Richland County, MT(NAD83)	TVD Reference:	26' KB @ 2402.70usft (B22)
Site:	S20-T26N-R57E (Salty Dog)	MD Reference:	26' KB @ 2402.70usft (B22)
Well:	SALT Y DOG III 20-1H SWD	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	1. Total Production Database

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,500.00	85.45	111.27	5,628.53	-422.27	1,085.01	1,406,689.15	3,222,189.01	47.9959949	-104.3738017	1,164.28	0.00	0.00	0.00
6,600.00	85.45	111.27	5,636.47	-458.43	1,177.91	1,406,659.14	3,222,284.07	47.9958957	-104.3734221	1,263.97	0.00	0.00	0.00
6,700.00	85.45	111.27	5,644.40	-494.58	1,270.80	1,406,629.14	3,222,379.13	47.9957965	-104.3730425	1,363.65	0.00	0.00	0.00
6,800.00	85.45	111.27	5,652.33	-530.74	1,363.70	1,406,599.13	3,222,474.20	47.9956973	-104.3726630	1,463.34	0.00	0.00	0.00
6,900.00	85.45	111.27	5,660.27	-566.89	1,456.60	1,406,569.12	3,222,569.26	47.9955982	-104.3722834	1,563.02	0.00	0.00	0.00
7,000.00	85.45	111.27	5,668.20	-603.05	1,549.50	1,406,539.12	3,222,664.32	47.9954990	-104.3719038	1,662.71	0.00	0.00	0.00
7,100.00	85.45	111.27	5,676.13	-639.20	1,642.39	1,406,509.11	3,222,759.38	47.9953998	-104.3715243	1,762.39	0.00	0.00	0.00
7,200.00	85.45	111.27	5,684.07	-675.36	1,735.29	1,406,479.10	3,222,854.44	47.9953006	-104.3711447	1,862.08	0.00	0.00	0.00
7,300.00	85.45	111.27	5,692.00	-711.51	1,828.19	1,406,449.09	3,222,949.50	47.9952015	-104.3707652	1,961.76	0.00	0.00	0.00
7,400.00	85.45	111.27	5,699.93	-747.67	1,921.08	1,406,419.09	3,223,044.56	47.9951023	-104.3703856	2,061.45	0.00	0.00	0.00
7,500.00	85.45	111.27	5,707.86	-783.82	2,013.98	1,406,389.08	3,223,139.62	47.9950031	-104.3700061	2,161.13	0.00	0.00	0.00
7,600.00	85.45	111.27	5,715.80	-819.97	2,106.88	1,406,359.07	3,223,234.69	47.9949039	-104.3696265	2,260.82	0.00	0.00	0.00
7,700.00	85.45	111.27	5,723.73	-856.13	2,199.78	1,406,329.07	3,223,329.75	47.9948047	-104.3692470	2,360.50	0.00	0.00	0.00
7,800.00	85.45	111.27	5,731.66	-892.28	2,292.67	1,406,299.06	3,223,424.81	47.9947056	-104.3688674	2,460.19	0.00	0.00	0.00
7,900.00	85.45	111.27	5,739.60	-928.44	2,385.57	1,406,269.05	3,223,519.87	47.9946064	-104.3684879	2,559.87	0.00	0.00	0.00
8,000.00	85.45	111.27	5,747.53	-964.59	2,478.47	1,406,239.04	3,223,614.93	47.9945072	-104.3681083	2,659.56	0.00	0.00	0.00
8,100.00	85.45	111.27	5,755.46	-1,000.75	2,571.37	1,406,209.04	3,223,709.99	47.9944080	-104.3677288	2,759.24	0.00	0.00	0.00
8,200.00	85.45	111.27	5,763.39	-1,036.90	2,664.26	1,406,179.03	3,223,805.05	47.9943088	-104.3673492	2,858.93	0.00	0.00	0.00
8,300.00	85.45	111.27	5,771.33	-1,073.06	2,757.16	1,406,149.02	3,223,900.11	47.9942096	-104.3669697	2,958.61	0.00	0.00	0.00
8,400.00	85.45	111.27	5,779.26	-1,109.21	2,850.06	1,406,119.02	3,223,995.18	47.9941104	-104.3665901	3,058.30	0.00	0.00	0.00
8,500.00	85.45	111.27	5,787.19	-1,145.37	2,942.95	1,406,089.01	3,224,090.24	47.9940112	-104.3662106	3,157.98	0.00	0.00	0.00
8,600.00	85.45	111.27	5,795.13	-1,181.52	3,035.85	1,406,059.00	3,224,185.30	47.9939120	-104.3658311	3,257.67	0.00	0.00	0.00
8,674.05	85.45	111.27	5,801.00	-1,208.29	3,104.64	1,406,036.78	3,224,255.69	47.9938386	-104.3655500	3,331.48	0.00	0.00	0.00
Top Lower Sand													
8,700.00	85.45	111.27	5,803.06	-1,217.68	3,128.75	1,406,028.99	3,224,280.36	47.9938128	-104.3654515	3,357.35	0.00	0.00	0.00
8,800.00	85.45	111.27	5,810.99	-1,253.83	3,221.65	1,405,998.99	3,224,375.42	47.9937136	-104.3650720	3,457.04	0.00	0.00	0.00
8,900.00	85.45	111.27	5,818.92	-1,289.98	3,314.54	1,405,968.98	3,224,470.48	47.9936144	-104.3646925	3,556.72	0.00	0.00	0.00
9,000.00	85.45	111.27	5,826.86	-1,326.14	3,407.44	1,405,938.97	3,224,565.54	47.9935152	-104.3643129	3,656.41	0.00	0.00	0.00
9,100.00	85.45	111.27	5,834.79	-1,362.29	3,500.34	1,405,908.97	3,224,660.60	47.9934160	-104.3639334	3,756.09	0.00	0.00	0.00
9,200.00	85.45	111.27	5,842.72	-1,398.45	3,593.24	1,405,878.96	3,224,755.67	47.9933168	-104.3635539	3,855.78	0.00	0.00	0.00
9,300.00	85.45	111.27	5,850.66	-1,434.60	3,686.13	1,405,848.95	3,224,850.73	47.9932176	-104.3631743	3,955.46	0.00	0.00	0.00
9,400.00	85.45	111.27	5,858.59	-1,470.76	3,779.03	1,405,818.95	3,224,945.79	47.9931184	-104.3627948	4,055.15	0.00	0.00	0.00
9,500.00	85.45	111.27	5,866.52	-1,506.91	3,871.93	1,405,788.94	3,225,040.85	47.9930192	-104.3624153	4,154.83	0.00	0.00	0.00
9,600.00	85.45	111.27	5,874.45	-1,543.07	3,964.83	1,405,758.93	3,225,135.91	47.9929200	-104.3620358	4,254.51	0.00	0.00	0.00
9,700.00	85.45	111.27	5,882.39	-1,579.22	4,057.72	1,405,728.92	3,225,230.97	47.9928208	-104.3616562	4,354.20	0.00	0.00	0.00
9,800.00	85.45	111.27	5,890.32	-1,615.38	4,150.62	1,405,698.92	3,225,326.03	47.9927216	-104.3612767	4,453.88	0.00	0.00	0.00
9,900.00	85.45	111.27	5,898.25	-1,651.53	4,243.52	1,405,668.91	3,225,421.09	47.9926224	-104.3608972	4,553.57	0.00	0.00	0.00

Planned Survey Report

Company:	Hydra Services, LLC	Local Co-ordinate Reference:	Well SALT Y DOG III 20-1H SWD
Project:	Richland County, MT(NAD83)	TVD Reference:	26' KB @ 2402.70usft (B22)
Site:	S20-T26N-R57E (Salty Dog)	MD Reference:	26' KB @ 2402.70usft (B22)
Well:	SALT Y DOG III 20-1H SWD	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	1. Total Production Database

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.00	85.45	111.27	5,906.19	-1,687.69	4,336.41	1,405,638.90	3,225,516.16	47.9925232	-104.3605177	4,653.25	0.00	0.00	0.00
10,100.00	85.45	111.27	5,914.12	-1,723.84	4,429.31	1,405,608.90	3,225,611.22	47.9924240	-104.3601382	4,752.94	0.00	0.00	0.00
10,200.00	85.45	111.27	5,922.05	-1,760.00	4,522.21	1,405,578.89	3,225,706.28	47.9923248	-104.3597586	4,852.62	0.00	0.00	0.00
10,300.00	85.45	111.27	5,929.99	-1,796.15	4,615.11	1,405,548.88	3,225,801.34	47.9922255	-104.3593791	4,952.31	0.00	0.00	0.00
10,400.00	85.45	111.27	5,937.92	-1,832.30	4,708.00	1,405,518.87	3,225,896.40	47.9921263	-104.3589996	5,051.99	0.00	0.00	0.00
10,500.00	85.45	111.27	5,945.85	-1,868.46	4,800.90	1,405,488.87	3,225,991.46	47.9920271	-104.3586201	5,151.68	0.00	0.00	0.00
10,600.00	85.45	111.27	5,953.78	-1,904.61	4,893.80	1,405,458.86	3,226,086.52	47.9919279	-104.3582406	5,251.36	0.00	0.00	0.00
10,700.00	85.45	111.27	5,961.72	-1,940.77	4,986.70	1,405,428.85	3,226,181.58	47.9918287	-104.3578611	5,351.05	0.00	0.00	0.00
10,800.00	85.45	111.27	5,969.65	-1,976.92	5,079.59	1,405,398.85	3,226,276.65	47.9917294	-104.3574816	5,450.73	0.00	0.00	0.00
10,900.00	85.45	111.27	5,977.58	-2,013.08	5,172.49	1,405,368.84	3,226,371.71	47.9916302	-104.3571021	5,550.42	0.00	0.00	0.00
10,968.29	85.45	111.27	5,983.00	-2,037.77	5,235.93	1,405,348.35	3,226,436.63	47.9915625	-104.3568429	5,618.49	0.00	0.00	0.00
Base Lower Sand													
11,000.00	85.45	111.27	5,985.52	-2,049.23	5,265.39	1,405,338.83	3,226,466.77	47.9915310	-104.3567226	5,650.10	0.00	0.00	0.00
11,081.74	85.45	111.27	5,992.00	-2,078.79	5,341.32	1,405,314.30	3,226,544.47	47.9914499	-104.3564124	5,731.59	0.00	0.00	0.00
Swift (Base Inyan Kara, Base Dakota)													
11,100.00	85.45	111.27	5,993.45	-2,085.39	5,358.29	1,405,308.82	3,226,561.83	47.9914318	-104.3563431	5,749.79	0.00	0.00	0.00
11,200.00	85.45	111.27	6,001.38	-2,121.54	5,451.18	1,405,278.82	3,226,656.89	47.9913325	-104.3559636	5,849.47	0.00	0.00	0.00
11,300.00	85.45	111.27	6,009.31	-2,157.70	5,544.08	1,405,248.81	3,226,751.95	47.9912333	-104.3555841	5,949.16	0.00	0.00	0.00
11,400.00	85.45	111.27	6,017.25	-2,193.85	5,636.98	1,405,218.80	3,226,847.01	47.9911341	-104.3552046	6,048.84	0.00	0.00	0.00
11,500.00	85.45	111.27	6,025.18	-2,230.01	5,729.87	1,405,188.80	3,226,942.07	47.9910349	-104.3548251	6,148.53	0.00	0.00	0.00
11,598.58	85.45	111.27	6,033.00	-2,265.65	5,821.45	1,405,159.22	3,227,035.78	47.9909370	-104.3544510	6,246.79	0.00	0.00	0.00
TD at 11598.58 - BHL - SALT Y DOG SWD (2543 FNL, 100 FEL)													

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL - SALT Y DOG SWE - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	1,407,039.63	3,221,078.73	47.9971530	-104.3782350
BHL - SALT Y DOG SWE - plan hits target center - Polygon	0.00	0.00	6,033.00	-2,265.65	5,821.45	1,405,159.22	3,227,035.79	47.9909370	-104.3544510
Point 1			6,033.00	2,543.00	100.00	1,407,703.32	3,226,969.40		
Point 2			6,033.00	2,543.00	-5,177.40	1,407,358.47	3,221,703.28		
Point 3			6,033.00	-2,735.00	-5,177.40	1,402,091.75	3,222,048.16		
Point 4			6,033.00	-2,735.00	100.00	1,402,436.60	3,227,314.29		

Planned Survey Report

Company:	Hydra Services, LLC	Local Co-ordinate Reference:	Well SALTY DOG III 20-1H SWD
Project:	Richland County, MT(NAD83)	TVD Reference:	26' KB @ 2402.70usft (B22)
Site:	S20-T26N-R57E (Salty Dog)	MD Reference:	26' KB @ 2402.70usft (B22)
Well:	SALTY DOG III 20-1H SWD	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	1. Total Production Database

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,663.00	4,663.00	Greenhorn			
5,030.01	5,030.00	Mowry (Top Dakota)			
5,215.60	5,211.00	Inyan Kara			
8,674.05	5,801.00	Top Lower Sand			
10,968.29	5,983.00	Base Lower Sand			
11,081.74	5,992.00	Swift (Base Inyan Kara, Base Dakota)			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5007	5007	0	0	BUILD
5861	5578	-191	492	LP - 5577.86' TVD, 85.45° INC
11,599	6033	-2266	5821	TD at 11598.58

Checked By: _____	Approved By: _____	Date: _____
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Appendix VI: Completion Procedure

Montana Board of Oil & Gas Commission

Underground Injection Control – Permit Application

**Hydra Services, LLC
Salty Dog III 20-1H SWD
Richland County, MT**

API No: _____

COMPLETION PROCEDURE

August 31, 2026

**Salty Dog III 20-1H SWD
Richland Co., MT**

COMPLETON OVERVIEW

WELL DATA:

Total Well Depth 11,599' MD, 5,738' TVD
GL 2,377'
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 – 2,250'	3950	2570
7-5/8"	29.7#	P-110	BTC	6.875	6.75	0 – 5,861'	9470	5340
4.5"	13.5#	P-110	BTC	3.921	3.795	5,730 – 11,599'	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 – 5,500'	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.

Riptide 33-1H SWD
Richland 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 5k 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 11,560'.
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 perfs = 1 spf, 72 degree phasing). Pump proppant to jet cut perforations in 4.5" casing. Determine shot depths based off CBL.
12. Trip in hole with 7-5/8" packer on work string and set packer 5,500' to acidize the perfs.
13. Acidize perfs 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 work string. Lay down work string and packer.
15. Trip in hole with 7-5/8" Arrowset 1-X Nickel coated packer and 5.5" tubing. Set packer at 5,500' 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.

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

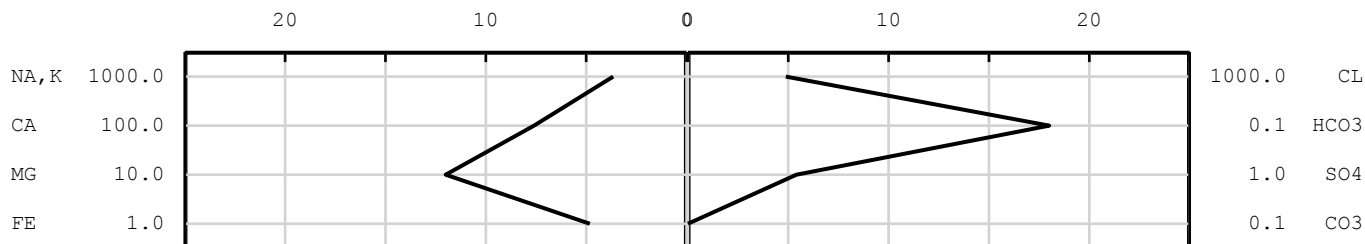
H₂S Negative

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

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 SALTY DOG III 20-1H SWD WELL,
260'FNL, 646'FEL, THE NE4NE4 OF SECTION 20, TOWNSHIP
26 NORTH, RANGE 57 EAST, M.P.M., RICHLAND COUNTY,
MONTANA, FOR THE PURPOSE OF WATER INJECTION

AFFIDAVIT OF NOTIFICATION

DATE: August 28, 2026

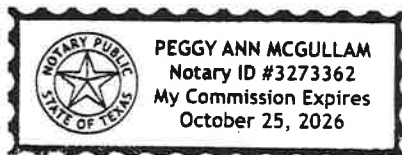
State of Montana
County of Richland

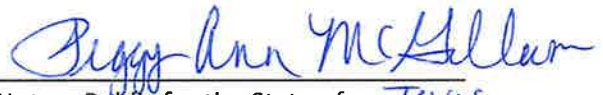
Justin Payne, being first duly sworn, deposes and says:

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 28TH day of August, 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 28th day of August, 2026.




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

(SEAL)

Underground Injection Control (UIC) Permit

List of Surface Ownership

T26N-R57E-Section 16: SW

Kittleson Family Partnership, LP
13908 CR 350
Fairview, MT 59221

T26N-R57E-Section 17: SE

Kittleson Family Partnership, LP
13908 CR 350
Fairview, MT 59221

T26N-R57E-Section 20: NE

Kittleson Family Partnership, LP
13908 CR 350
Fairview, MT 59221

T26N-R57E-Section 21: N2

Kittleson Family Partnership, LP
13908 CR 350
Fairview, MT 59221

T26N-R57E-Section 21: S2

Dean S. Palmer & Shannon L. Palmer
33584 CR 144
Culbertson, MT 59218

T26N-R57E-Section 22: W2NW

Kittleson Family Partnership, LP
13908 CR 350
Fairview, MT 59221

T26N-R57E-Section 22: W2SW

State of Montana DNRC
PO Box 201601
Helena, MT 59620

List of Working Interest Owners / Unleased Mineral Ownership

T26N-R57E-Section 16: SW

Whiting Oil & Gas Corp.
c/o Chord Energy
1001 Fannin St., Ste. 1500
Houston, TX 77002

T26N-R57E-Section 17: SE

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

T26N-R57E-Section 20: NE

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

T26N-R57E-Section 21: N2, S2

Whiting Oil & Gas Corp.
c/o Chord Energy
1001 Fannin St., Ste. 1500
Houston, TX 77002

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

T26N-R57E-Section 22: W2W2

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

NOTICE

August 28, 2026

To: Dean S. & Shannon L. Palmer
33584 CR 144
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 (Salty Dog III 20-1H SWD)

NENE, Section 20, Township 26N Range 57E, Richland 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 October 15, 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

August 28, 2026

To: Kittleson Family Partnership, LP
13908 CR 350
Fairview, MT 59221

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 (Salty Dog III 20-1H SWD)

NENE, Section 20, Township 26N Range 57E, Richland 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 October 15, 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

August 28, 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 (Salty Dog III 20-1H SWD)

NENE, Section 20, Township 26N Range 57E, Richland County, MT

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Respectfully,

Justin L. Payne

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

NOTICE

August 28, 2026

To: Whiting Oil and Gas Corp.
c/o Chord Energy
1001 Fannin St., Ste. 1500
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 (Salty Dog III 20-1H SWD)

NENE, Section 20, Township 26N Range 57E, Richland 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 October 15, 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

August 26, 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,
Salty Dog III 20-1H SWD in NENE Section 20, T26N, R57E, Richland, 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 October 15, 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:

Salty Dog III 20-1H SWD located:

SHL: NENE Section 20, T26N, R57E, Richland County, MT. Footages: 260' FNL & 646' FEL El: 2377'

BHL: SENE Section 21, T26N, R57E, Richland County, MT. Footages: 2543' FNL & 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 5503' – 6033'

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, **(October 15, 2026)**.