



August 24, 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 and Authorization to Drill a Class II Injection well, Brigade 1-2
SWD in NWNW (Lot 4) Section 2, T26N, R59E, Roosevelt County, MT**

Mr. Gizicki,

Slawson Exploration Company, Inc. requests approval of an Underground Injection Control (UIC) permit for the referenced location and as described in the attached application. Slawson has provided notice to the appropriate parties within the $\frac{1}{4}$ 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 (303) 396-2494.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Eric Sundberg', with a long horizontal flourish extending to the right.

Eric Sundberg
VP - Environmental & Regulatory Affairs
Slawson Exploration Company, Inc.

Rocky Mountain Division

1675 Broadway, Suite 1600
Denver, Colorado 80202
(303) 592-8880 - FAX (303) 592-8881

Underground Injection Control (UIC) Permit Application Rip Rap Coulee Field, Roosevelt County

The following is submitted in support of our application to permit the drilling and completion of the Brigade 1-2 SWD well for the purposes of water injection into the Dakota Group and related rocks within the Rip Rap Coulee Field, Roosevelt County, 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 Brigade 1-2 SWD well has been proposed for drilling and completion for water injection within the Rip Rap Coulee 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.

Brigade 1-2 SWD
537' FNL, 561' FWL
NWNW (Lot 4) Sec. 2, T26N, R59E

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

There are currently no producing or plugged & abandoned wells within the ¼-mile AOR.

1(c) Location of All Pipelines:

The Brigade 1-2 SWD surface facilities will be constructed on the same pad as the following proposed Slawson Exploration Company, Inc. (injection fluid source wells) targeting the Middle Bakken interval.

Brigade Federal 1H (API# 25-085-22113)
Brigade Federal 2H (API# 25-085-22114)
Brigade Federal 3H (API# 25-085-22115)
Brigade Federal 4H (API# 25-085-22116)
Brigade Federal 5H (API# 25-085-22117)
Outpost Federal 1H (API# 25-085-22106)
Outpost Federal 2H (API# 25-085-22107)
Outpost Federal 3H (API# 25-085-22108)
Outpost Federal 4H (API# 25-085-22109)

Outpost Federal 5H (API# 25-085-22110)

Outpost Federal 6H (API# 25-085-22111)

Outpost Federal 7H (API# 25-085-22112)

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

There are currently no producing wells within the ¼-mile AOR.

Fresh water well data was obtained from the Montana Department of Natural Resources and Conservation, Water Resources Division. There are no freshwater wells within the ¼-mile AOR of the proposed injection well.

Any potential USDWs are protected from the proposed injection zone by surface casing set to a depth of 2,082' and cemented to surface. The production string, tubing and injection packer will result in further isolation of USDWs from injection fluids.

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

Appendix III is a representative log for the Brigade 1-2 SWD location. The proposed injection zone is the Lower Cretaceous Inyan Kara Formation within the Dakota Group. The formation is expected to be encountered at approximately 5,316' TVD with a total thickness of about 587'. The Inyan Kara consists of a sequence of alternating fluvial and deltaic sands, silts, and shales. At the Brigade 1-2 SWD location, several prospective porosity intervals for injection are expected from 5,400' to 5,800' TVD. Locally, there is approximately 110' of net sand from several sand bodies with porosity ranging from 21 to 27%. Area logs show a deep invasion profile, mud cake, and density crossover, strongly suggesting the sand bodies will accept brine injection.

The Cretaceous Mowry Formation is the overlying confining formation for the Inyan Kara injection zone. The Mowry is estimated to be approximately 160' thick and comprises 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 injection zone. It is predominately a transgressive-regressive, clastic, shallow marine deposit composed of dark gray to greenish shales, and slightly calcareous, glauconitic siltstones and sandstones. The Swift formation is approximately 422' thick in this area.

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

N/A

1(g) Open Hole Logs:

The Brigade 1-2 SWD will be a new drill SWD. The logging program will consist of CBL/CCL/GR logs ran from TD to Surface during the completion of the well. Any logs and test data run on the Brigade 1-2 SWD will be submitted 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 drill plans for the Brigade 1-2 SWD. Perforations will be selected after logs have been run. Appendix VI illustrates the plan for completion of the subject well. Perforation within the Dakota Group will be acidized with 12,000 gallons of 15% HCL using rock salt for diversion with maximum allowable treating pressure of 5,000 PSIG at the wellhead during stimulation.

The surface hole will be drilled to approximately 2,082' MD, then 10 3/4" casing will be run and cement to surface. The intermediate section will be drilled to approximately 6,053' MD, and 7 5/8" casing will be run and cemented to surface.

1(i) Description and Analysis of Injection Fluid:

The intended injection fluids will be produced water from 12 planned wells to be drilled in the Bakken Formation on the temporary spacing units authorized by the Board of Oil and Gas Conservation of the State of Montana in Orders 142-2025, 143-2025, 247-2025, and 248-2025. These wells are planned to be operated by Slawson Exploration Company, Inc. and co-located on a shared surface location with the injection well. The planned wells are designated as: Brigade Federal #1H, 25-085-22113; Brigade Federal #2H, 25-085-22114; Brigade Federal #3H, 25-085-22115; Brigade Federal #6H, 25-085-22113; Brigade Federal #5H, 25-085-22117; Outpost Federal #1H, 25-085-22106; Outpost Federal #2H, 25-085-22107; Outpost Federal #3H, 25-085-22108; Outpost Federal #4H, 25-085-22109; Outpost Federal #5H, 25-085-22110; Outpost Federal #6H, 25-085-22111; and Outpost Federal #7H, 25-085-22112. It is expected that the produced water from these wells will have a total dissolved solids concentration of at least 200,000 mg/L. Since these wells have not yet been drilled, a direct water analysis is not available from them; however, a water analysis from a nearby well producing from the same target formation is included

as Appendix VII. It should be approximately representative of the water chemistry expected in the source wells intended for disposal here.

The expected maximum initial injection rate is expected at 25,000 barrels per day with an expected average over the first year of operation of 13,100 barrels per day.

MAIP calculation does not account for friction.

- Upper Confining Zone Frac Pressure at 0.8 PSI/FT = 4,253 PSI
- Specific Gravity of Injection Fluid = 1.2 (10#/gal)
- Hydrostatic of Injection Fluid = 2,764 PSI
- Surface Pressure needed to reach Frac Pressure = 1,489 PSI

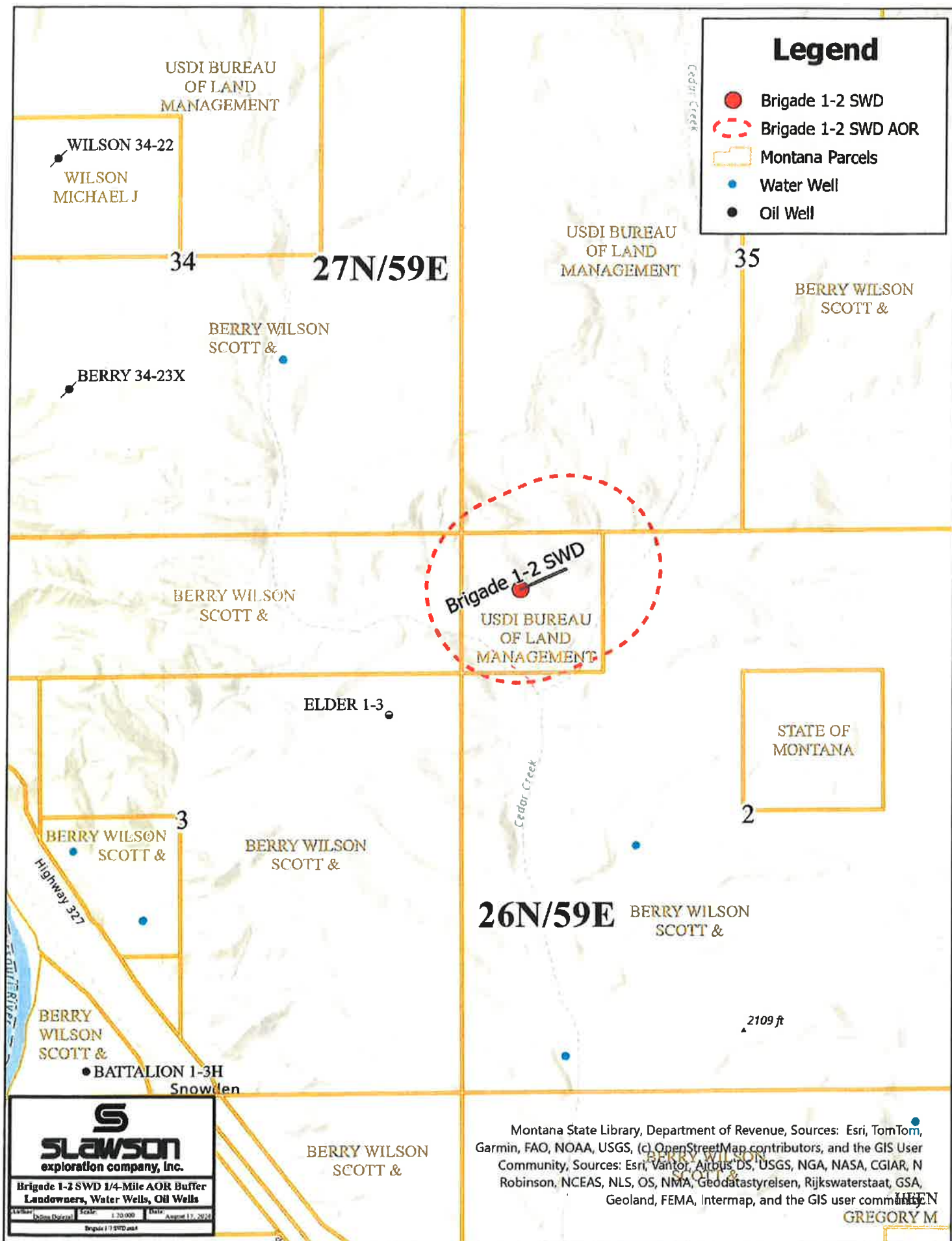
Requested MAIP: 1,350 PSI

1(j) Names of Owners of Record:

The surface owners and mineral owners within the AOR are listed in Appendix VIII. Slawson Exploration Company, Inc. 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 the 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 – Representative of Source Wells |
| 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 |



WELL LOCATION PLAT

Slawson Exploration Company, Inc.
1675 Broadway, Suite 1600, Denver, Colorado 80202

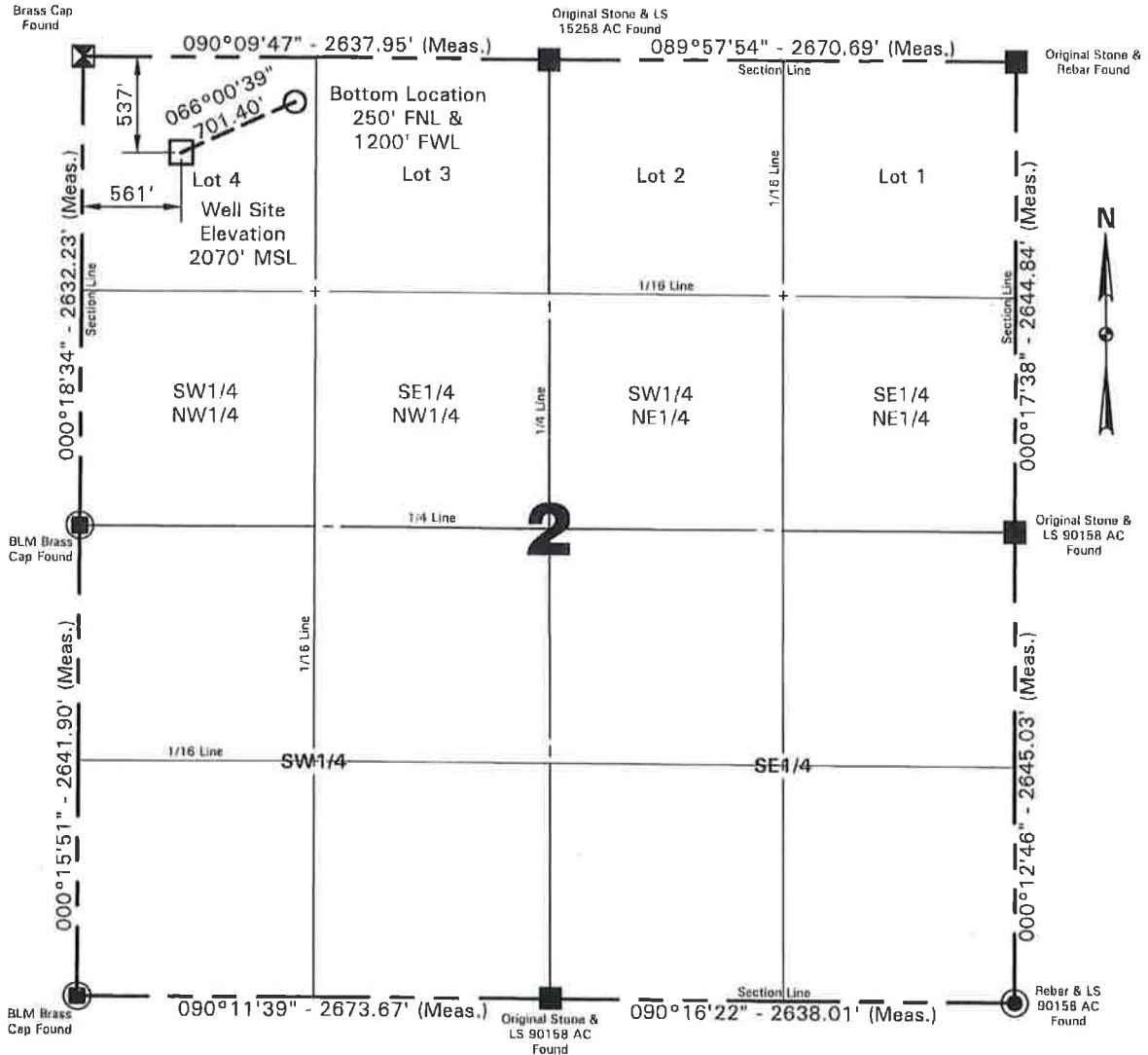
Brigade 1-2 SWD

537 feet from the north line and 561 feet from the west line (surface location)
250 feet from the north line and 1200 feet from the west line (bottom location)

Section 2, T. 26 N., R. 59 E., P.M.M.

Roosevelt County, Montana Surface owner @ well site - BLM
Latitude 48°02'23.938" (48.0399828° DD) North; Longitude 104°04'18.590" (104.0718307° DD) West (surface location)
Latitude 48°02'26.754" (48.0407649° DD) North; Longitude 104°04'09.162" (104.0692118° DD) West (bottom location)
[Derived from OPUS Solution NAD-83(2011)]

Confidentiality Notice: The information contained on this plat is legally privileged and confidential information intended only for the use of recipients. If you are not the intended recipients, you are hereby notified that any use, dissemination, distribution or copying of this information is strictly prohibited.



NOTE:

All corners described on this plat were found in the field as shown hereon. Distances to all others are calculated. The azimuths shown on this plat are grid, based upon Geodetic North derived from GPS measurements at the center of the project origin located at the East Quarter Corner of Section 14, located a distance of 7930.18' on azimuth of 180°28'59" from the SE corner of Section 2, Latitude 48°00'18.754" North; Longitude 104°03'10.015" West. Azimuths represent the calculated value from the central meridian using the forward bearing. The well location shown hereon is not an as-built location.

Scale 1" = 1000'

I, Michael J. Ries, Professional Land Surveyor, MT No. 17794, do hereby certify that the survey plat shown hereon was made by me, or under my direction, from notes made in the field, and the same is true and correct to the best of my knowledge and belief.

Derek Uran

5/21/2025

Surveyed By

Date

Vertical Control Datum Used
North American Vertical Datum 1988 (NAVD 88)

Based upon Trimble VRS Now US control point
PRS359947412261 having a Latitude of 47°43'03.219"
North, a Longitude of 104°11'05.017" West (NAD 83) and an
Elevation of 1992.72' at MSL.

Project No. 2507-00821

Revised: 9/18/2025

Book OW-415

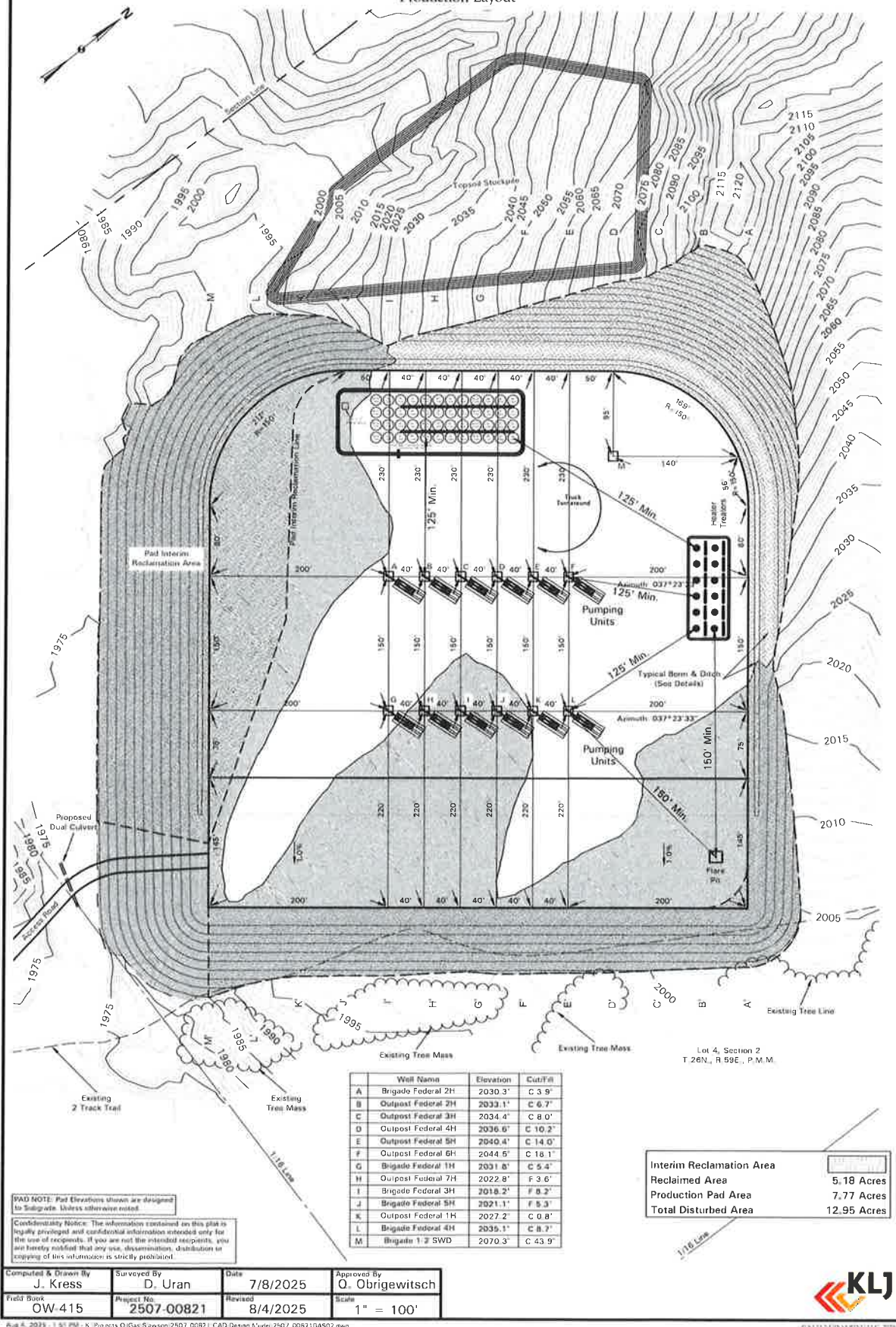
Pg. 40-51

Staking

Professional Consulting Engineers
and Surveyors
Registered in
North Dakota, South Dakota
Montana, Wyoming & Minnesota
Tele-Fax No. 856-288-8055
Bus. Phone No. 701-483-1284
677 27th Avenue East
Dickinson, North Dakota 58601
Certificate of Authorization #C-061



Brigade Federal 2H, Outpost Federal 2H, Outpost Federal 3H, Outpost Federal 4H, Outpost Federal 5H,
Outpost Federal 6H, Brigade Federal 1H, Outpost Federal 7H, Brigade Federal 3H, Brigade Federal 5H,
Outpost Federal 1H, Brigade Federal 4H, Brigade 1-2 SWD
Production Layout



Brigade 1-2 SWD Type Log

BULLION 13-1-2H
API: 25-085-22027
PRIMA EXPLORATION INC
250' FSL & 895' FWL, SECTION 36, T27N R59E

Listed depths are the estimated depths to be encountered at the Brigade 1-2 SWD location.

Lowermost USDW is the Fox Hills which is estimated from 1,630' to 1,746' TVD.

Mowry: 4,910' – 5,070' TVD
Upper Confinement

Mowry, Cretaceous: Shale, medium to dark gray, soft, flakey, traces of light-blue-gray bentonitic clay; top is marked by radioactive zone.

Newcastle

Skull Creek

Inyan Kara: 5,316' – 5,903' TVD
Injection Formation

Inyan Kara, Cretaceous: Upper part: Sandstone; light gray; quartzose; fine-grained to coarse-grained. Shale: gray; silty; lumpy. Marine to nonmarine. Lower part: Sandstone; gray; quartzose; medium-grained to coarse-grained; angular to subrounded; occasional lenses of shale; gray; bentonitic; contains manganese and siderite spheres.

Locally, there is approximately 110' of net sand from several sand bodies with porosity ranging from 21 to 27%. Area logs show a deep invasion profile, mud cake, and density crossover, strongly suggesting the sand will accept brine injection.

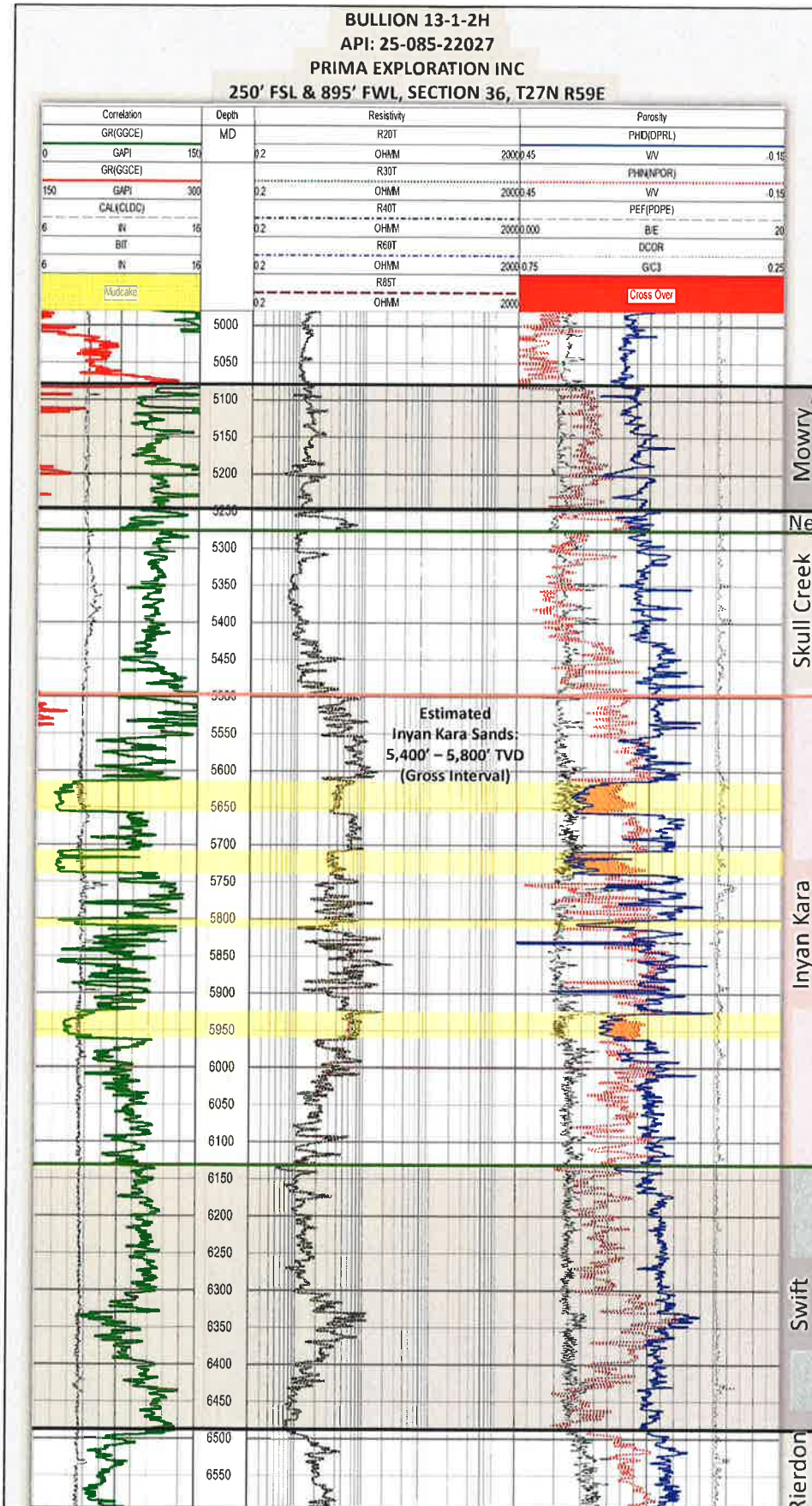
Swift: 5,903' – 6,325' TVD
Lower Confinement

Swift, Jurassic: Shale; dark gray to greenish gray; interbedded with siltstone and sandstone; calcareous; fissile; waxy. Can contain grayish green; glauconitic sandstone. Lower third can contain limestone; light gray to pinkish gray; carbonate bioclasts; fine to coarse grained; well-rounded; laminated.

Reirdon, Jurassic: Shale, varicolored shades of gray, green, and red, calcareous; some limestone.

References:

- Murphy, Edward C., Nordeng, Stephan H., Juenker, Bruce J., and Hogganson, John W., 2009. "North Dakota Stratigraphic Column", North Dakota Geological Survey Miscellaneous Series 91.



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 Slawson Exploration Company, Inc.		Lease Name: Brigade
Address 1675 Broadway, #1600		Type (Private/State/Federal/Tribal/Allotted): Federal
City Denver	State CO	Zip Code 80202
Telephone (303) 592-8880		Fax
Location of well (1/4-1/4 section and footage measurements): 537' FNL & 561' FWL Lot 4, Sec. 2, T26N R59E		Well Number: 1-2 SWD
		Unit Agreement Name: N/A
		Field Name or Wildcat: Rip Rap Coulee
		Township, Range, and Section: 02-T26N-R59E
API Number: 25 State County Well	Well Type (oil, gas, injection, other): Injection	County: Roosevelt

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

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

Describe Proposed or Completed Operations:

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

Slawson Exploration Company, Inc. 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.

Slawson Exploration Company, Inc. 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:

8-29-26

Date

Signed (Agent)

Eric Sundberg, VP Environmental & Regulatory Affairs

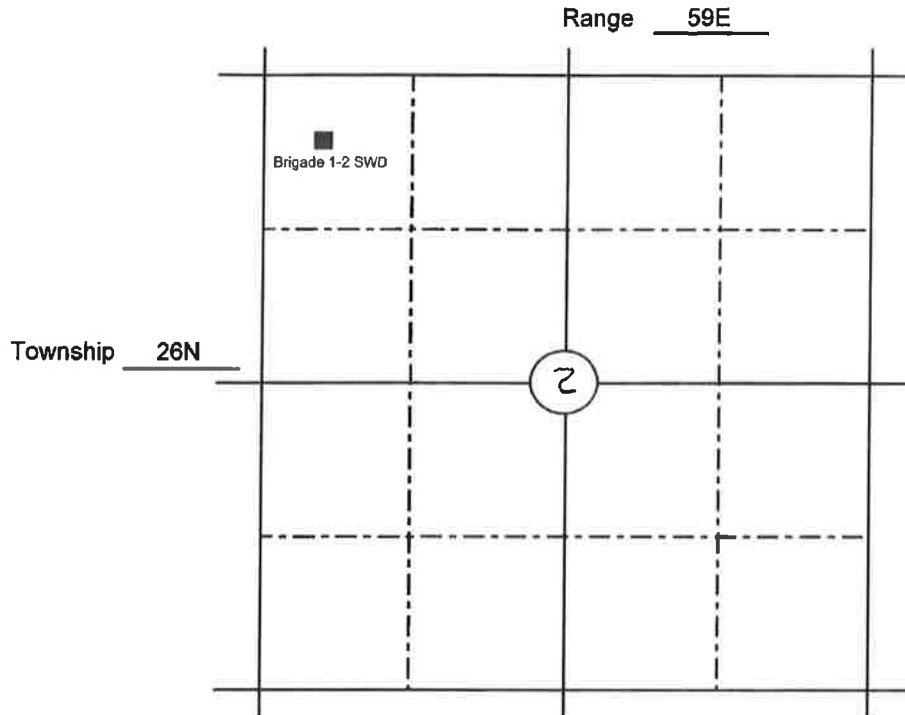
Print Name and Title

Telephone: (720) 420-6975

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

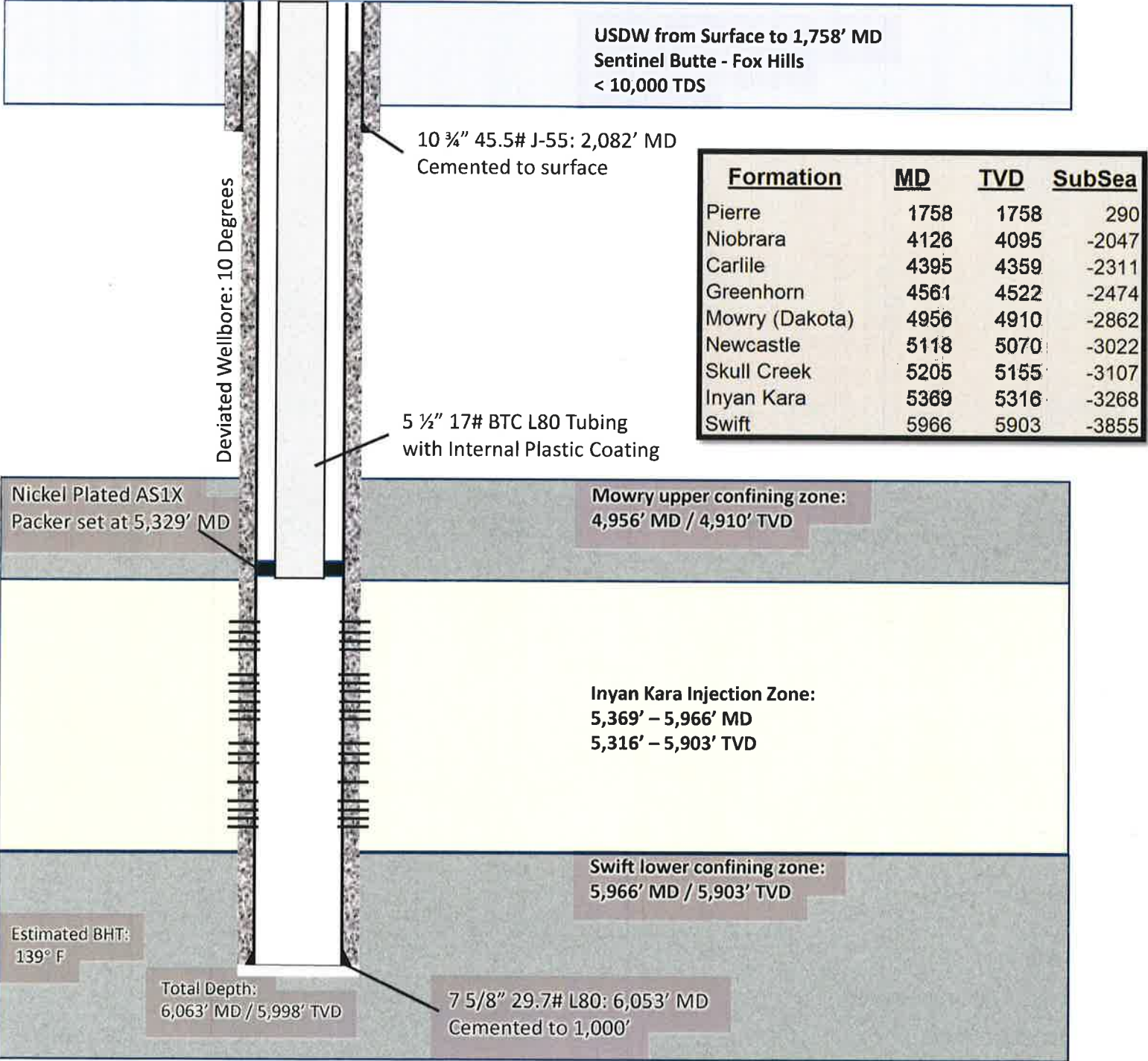
The operator must comply with the following condition(s) of approval:

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

Brigade 1-2 SWD Wellbore Diagram

SHL: 537' FNL and 561' FWL,
Lot 4 (NWNW), Section 2 T26N R59E
Roosevelt County, Montana
Pad Elevation: 2,026'
KB Elevation: 2,048'

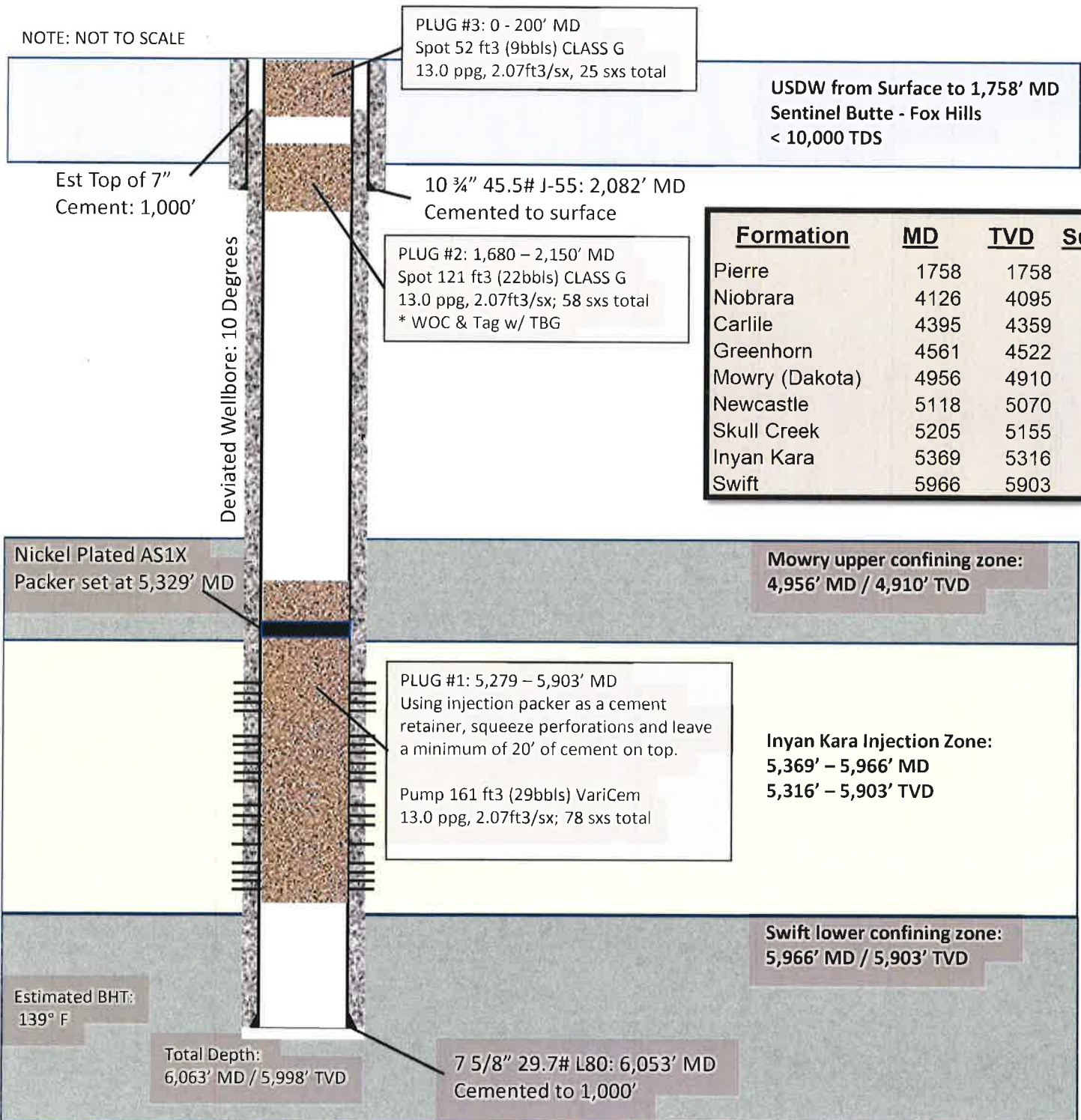
NOTE: NOT TO SCALE



Brigade 1-2 SWD P&A Wellbore Diagram

SHL: 537' FNL and 561' FWL,
Lot 4 (NWNW), Section 2 T26N R59E
Roosevelt County, Montana
Pad Elevation: 2,026'
KB Elevation: 2,048'

NOTE: NOT TO SCALE



1675 Broadway, Suite 1600
Denver, CO 80202
303-592-8880

Brigade 1-2 SWD

Drilling Prognosis



GENERAL WELL INFORMATION

Well:	Brigade 1-2 SWD	Lat:	48° 02' 23.938" N
Footages:	537' FNL & 561' FWL	Long:	104° 04' 18.590" W
Location:	Lot 4 (NWNW), Section 2, T26N R59E	Pad Elevation:	2,026'
County/State:	Roosevelt County, MT	KB Elevation (22' KB):	2,048'
Target Formation:	Inyan Kara	Field:	Wildcat Roosevelt
Proposed BHL:	250' FNL & 1200' FWL, NWNW, Section 2, T26N R59E	Lateral Length:	0'

SECTION DETAIL

COMMENT	MD	INCL	AZIM GN	TVD	N / S	E / W	CLOSURE	LR ANGL	TVDSS	VS	DLS	VS Azi	65.81°
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,048.40	0.00	0.0		
Surface Csg	2,082.00	0.00	0.00	2,082.00	0.00	0.00	0.00	0.00	-33.60	0.00	0.0		
Build	2,192.64	0.00	0.00	2,192.64	0.00	0.00	0.00	0.00	-144.24	0.00	0.0		
Hold	2,407.18	10.73	65.81	2,405.93	8.20	18.27	20.02	65.81	-357.53	20.02	5.0		
BHL	6,063.14	10.73	65.81	5,998.00	287.00	639.00	700.49	65.81	-3,949.60	700.49	0.0		

GEOLOGIC MARKERS

Marker	MD	TVD	SS	Marker	MD	TVD	SS	Marker	MD	TVD	SS
Pierre	1,758	1,758	290	Greenhorn	4,561	4,522	-2,474	Skull Creek	5,205	5,155	-3,107
Niobrara	4,126	4,095	-2,047	Mowry (Dakota)	4,956	4,910	-2,862	Inyan Kara	5,369	5,316	-3,268
Carlile	4,395	4,359	-2,311	Newcastle	5,118	5,070	-3,022	Swift	5,966	5,903	-3,855

LOGGING PROGRAM

Open Hole Logs:	Run Triple Combo from TD to casing shoe, continue GR to the surface	Mudlog/Geologic Interpretation not needed
Cased Hole Logs:	CBL/GR/CCL/CIL	

WELLBORE INFORMATION

Wellbore	Hole Size	Top MD	Btm (MD)	Btm (TVD)	Feature	Top MD	Btm MD	OD (in)	Weight	Grade
Surface Hole	13 1/2	0'	2,082'	2,082'	Surface Casing	0'	2,082'	10 3/4	45.5#	J-55
Directional	9 7/8	2,082'	6,063'	5,998'	Production Casing	0'	6,053'	7 5/8	29.7#	L-80
					Injection Tubing	0'	5,329'	5 1/2	17#	L-80

CEMENT PROGRAM

Surface Casing	10 3/4	OD	x	13 1/2	Hole	Notes							
	<u>Top</u>	<u>Bottom</u>		<u>Weight</u>	<u>SX</u>	<u>Yield</u>	<u>CuFt</u>	<u>BBLS</u>	<u>Type</u>	Volumes calculated from 10.75 OD and 13.5 Hole. May use up to 60% excess. Lead: Type III; 2% Cal-Seal; 2% econolite; 6% salt; .125#/sk LCM. Compressive strength: 434 psi in 24hrs; 500 psi in 40hrs. Tail: Type III; 2% Cal-Seal; 2% econolite; 6% salt; .125#/sk LCM; Compressive strength: 500 psi in 5hrs; 1550 psi in 24hrs; 1800 psi in 72hrs.			
Lead	0'	1,582'		12	237	2.43	575	102	Class G				
Tail	1,582'	2,082'		13	95	1.91	182	32	Class C				
Production Casing	7 5/8	OD	x	9 7/8	Hole	Notes							
	<u>Top</u>	<u>Bottom</u>		<u>Weight</u>	<u>SX</u>	<u>Yield</u>	<u>CuFt</u>	<u>BBLS</u>	<u>Type</u>	Volumes calculated from 7.625 OD and 9.875 Hole. May use up to 30% excess. Lead: 600' above top of Inyan Kara to 1,000' MD; 70bbl of 12#/gal spacer; 75/25 Type III cement/poz plus flyash; 7% silicate; 5% bentonite; 2% salt; .2% fluid loss; Compressive strength: 420 psi 24hrs; 840 psi in 72hrs. Tail: Class G; 35% silica flour; 10% welllife; 5% bentonite; compressive strength: 1450 psi in 24hrs; 2,000 psi in 72hrs.			
Lead	1,000'	4,769'		12	476	1.7	809	144	Type III				
Tail	4,769'	6,053'		14	232	1.19	276	49	Glass G				

GENERAL NOTES

Estimated BHST:	138°	Estimated BHP:	2,807 psi	BOPs to be tested to 5,000 psi
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CONTACTS

Engineer	Ned Shiflett	Office: 720-457-9822	Home: 303-674-8313	Cell: 303-570-1903
Geologist	Dillon Dolezal	Office: 720-259-6403	Home: 701-260-2016	Cell: 701-260-2016

Brigade 1-2 SWD

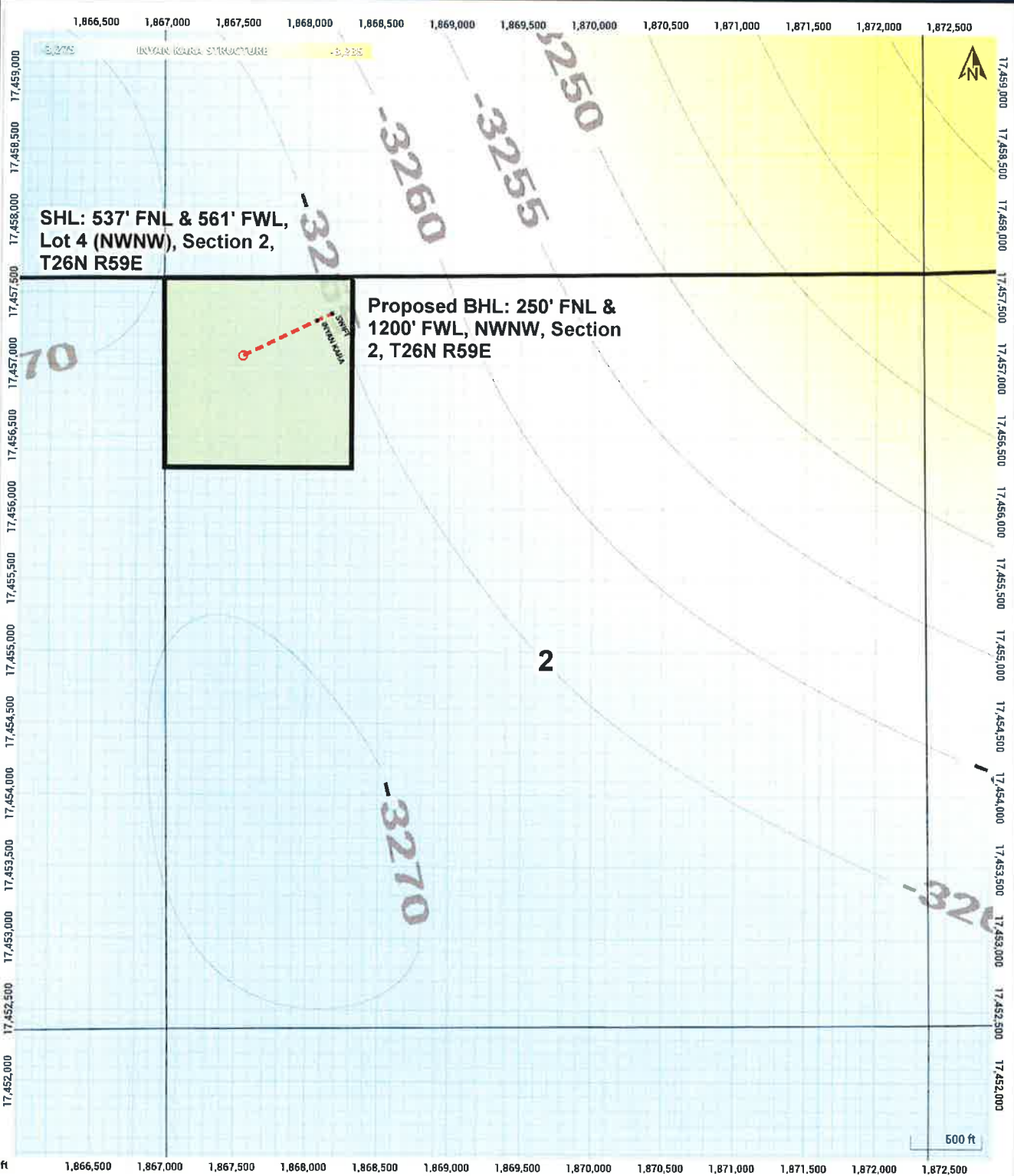


Datum Elevation: 2048.4' KB (2026.4' GL + 22' KB)

Map View

SHL: 537' FNL & 561' FWL, Lot 4 (NWNW), Section 2, T26N R59E, Roosevelt County, MT

VS Azi = 65.81°



Brigade 1-2 SWD



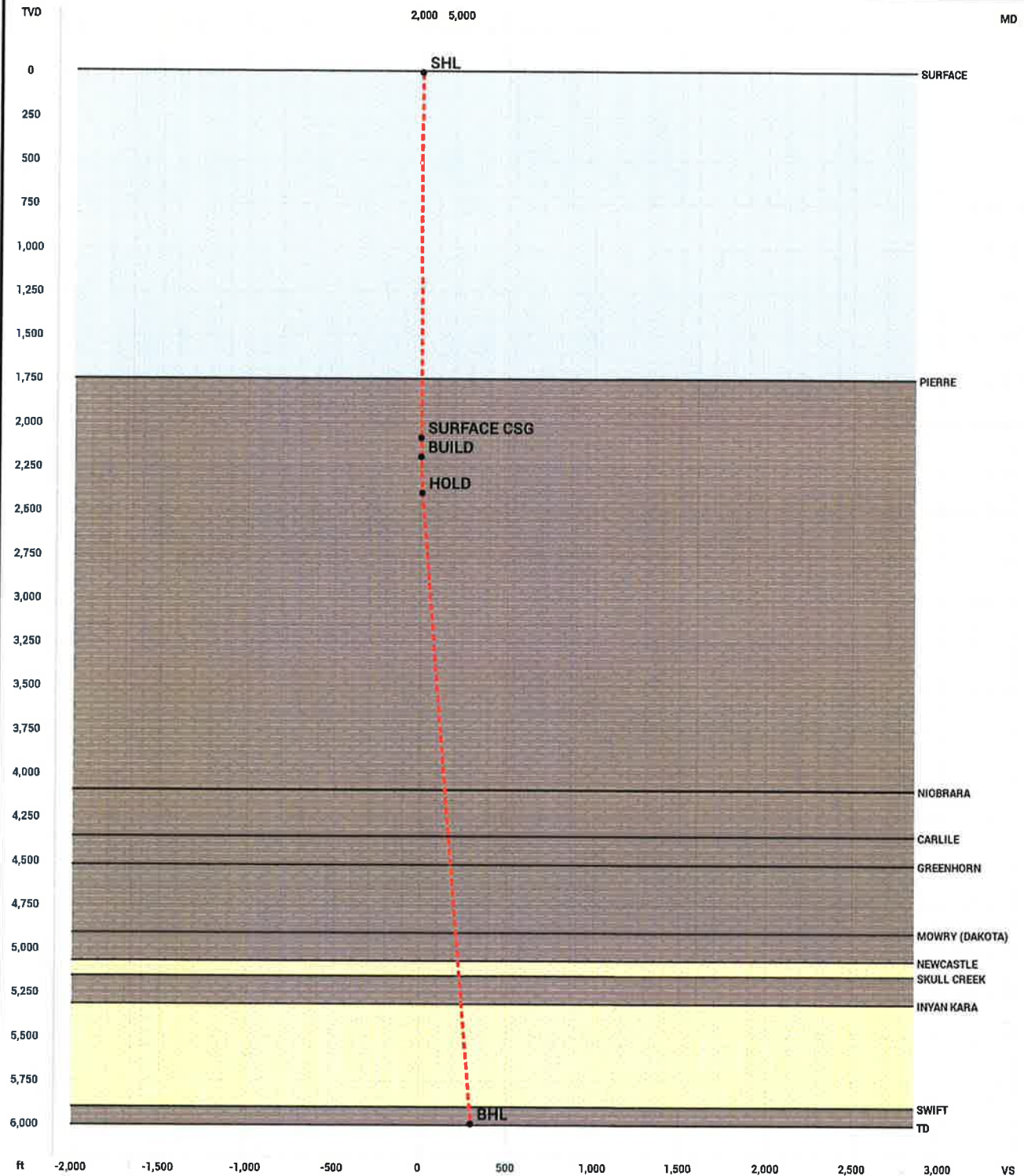
Datum Elevation: 2048.4' KB (2026.4' GL + 22' KB)

Cross Section View

SHL: 537' FNL & 561' FWL, Lot 4 (NWNW), Section 2, T26N R69E, Roosevelt County, MT

VS Azi = 65.81°

MD



Brigade 1-2 SWD



Datum Elevation: 2048.4' KB (2026.4' GL + 22' KB)

Planned Survey Report

SHL: 537' FNL & 561' FWL, Lot 4 (NWNW), Section 2, T26N R59E, Roosevelt County, MT

VS Azi 65.81°

Comment	MD	INCL	AZIM GN	TVD	N / S	E / W	Closure	CL Angle	TVDSS	VS	DLS
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00°	2048.40	0.00	0.0
Surface Csg	2082.00	0.00	0.00	2082.00	0.00	0.00	0.00	0.00°	-33.60	0.00	0.0
	2182.00	0.00	0.00	2182.00	0.00	0.00	0.00	0.00°	-133.60	0.00	0.0
Build	2192.64	0.00	0.00	2192.64	0.00	0.00	0.00	0.00°	-144.24	0.00	0.0
	2200.00	0.37	65.81	2200.00	0.01	0.02	0.02	65.81°	-151.60	0.02	5.0
	2250.00	2.87	65.81	2249.98	0.59	1.31	1.44	65.81°	-201.58	1.44	5.0
	2300.00	5.37	65.81	2299.84	2.06	4.58	5.03	65.81°	-251.44	5.03	5.0
	2350.00	7.87	65.81	2349.51	4.42	9.84	10.79	65.81°	-301.11	10.79	5.0
	2400.00	10.37	65.81	2398.87	7.67	17.07	18.71	65.81°	-350.47	18.71	5.0
Hold	2407.18	10.73	65.81	2405.93	8.20	18.27	20.02	65.81°	-357.53	20.02	5.0
	2500.00	10.73	65.81	2497.13	15.28	34.03	37.30	65.81°	-448.73	37.30	0.0
	2600.00	10.73	65.81	2595.38	22.91	51.00	55.91	65.81°	-546.98	55.91	0.0
	2700.00	10.73	65.81	2693.63	30.53	67.98	74.53	65.81°	-645.23	74.53	0.0
	2800.00	10.73	65.81	2791.88	38.16	84.96	93.14	65.81°	-743.48	93.14	0.0
	2900.00	10.73	65.81	2890.14	45.79	101.94	111.75	65.81°	-841.74	111.75	0.0
	3000.00	10.73	65.81	2988.39	53.41	118.92	130.36	65.81°	-939.99	130.36	0.0
	3100.00	10.73	65.81	3086.64	61.04	135.90	148.98	65.81°	-1038.24	148.98	0.0
	3200.00	10.73	65.81	3184.90	68.66	152.88	167.59	65.81°	-1136.50	167.59	0.0
	3300.00	10.73	65.81	3283.15	76.29	169.86	186.20	65.81°	-1234.75	186.20	0.0
	3400.00	10.73	65.81	3381.40	83.91	186.83	204.81	65.81°	-1333.00	204.81	0.0
	3500.00	10.73	65.81	3479.65	91.54	203.81	223.43	65.81°	-1431.25	223.43	0.0
	3600.00	10.73	65.81	3577.91	99.17	220.79	242.04	65.81°	-1529.51	242.04	0.0
	3700.00	10.73	65.81	3676.16	106.79	237.77	260.65	65.81°	-1627.76	260.65	0.0
	3800.00	10.73	65.81	3774.41	114.42	254.75	279.26	65.81°	-1726.01	279.26	0.0
	3900.00	10.73	65.81	3872.66	122.04	271.73	297.88	65.81°	-1824.26	297.88	0.0
	4000.00	10.73	65.81	3970.92	129.67	288.71	316.49	65.81°	-1922.52	316.49	0.0
	4100.00	10.73	65.81	4069.17	137.30	305.69	335.10	65.81°	-2020.77	335.10	0.0
	4200.00	10.73	65.81	4167.42	144.92	322.66	353.71	65.81°	-2119.02	353.71	0.0
	4300.00	10.73	65.81	4265.67	152.55	339.64	372.33	65.81°	-2217.27	372.33	0.0
	4400.00	10.73	65.81	4363.93	160.17	356.62	390.94	65.81°	-2315.53	390.94	0.0
	4500.00	10.73	65.81	4462.18	167.80	373.60	409.55	65.81°	-2413.78	409.55	0.0
	4600.00	10.73	65.81	4560.43	175.42	390.58	428.17	65.81°	-2512.03	428.17	0.0
	4700.00	10.73	65.81	4658.68	183.05	407.56	446.78	65.81°	-2610.28	446.78	0.0
	4800.00	10.73	65.81	4756.94	190.68	424.54	465.39	65.81°	-2708.54	465.39	0.0
	4900.00	10.73	65.81	4855.19	198.30	441.51	484.00	65.81°	-2806.79	484.00	0.0
	5000.00	10.73	65.81	4953.44	205.93	458.49	502.62	65.81°	-2905.04	502.62	0.0
	5100.00	10.73	65.81	5051.69	213.55	475.47	521.23	65.81°	-3003.29	521.23	0.0
	5200.00	10.73	65.81	5149.95	221.18	492.45	539.84	65.81°	-3101.55	539.84	0.0
	5300.00	10.73	65.81	5248.20	228.80	509.43	558.45	65.81°	-3199.80	558.45	0.0
	5400.00	10.73	65.81	5346.45	236.43	526.41	577.07	65.81°	-3298.05	577.07	0.0
	5500.00	10.73	65.81	5444.70	244.06	543.39	595.68	65.81°	-3396.30	595.68	0.0
	5600.00	10.73	65.81	5542.96	251.68	560.37	614.29	65.81°	-3494.56	614.29	0.0
	5700.00	10.73	65.81	5641.21	259.31	577.34	632.90	65.81°	-3592.81	632.90	0.0
	5800.00	10.73	65.81	5739.46	266.93	594.32	651.52	65.81°	-3691.06	651.52	0.0
	5900.00	10.73	65.81	5837.71	274.56	611.30	670.13	65.81°	-3789.31	670.13	0.0
	6000.00	10.73	65.81	5935.97	282.19	628.28	688.74	65.81°	-3887.57	688.74	0.0
	6053.14	10.73	65.81	5988.17	286.24	637.30	698.63	65.81°	-3939.77	698.63	0.0
BHL	6063.14	10.73	65.81	5998.00	287.00	639.00	700.49	65.81°	-3949.60	700.49	0.0

Brigade 1-2 SWD

Datum Elevation: 2048.4' KB (2026.4' GL + 22' KB)

SHL: 537' FNL & 561' FWL, Lot 4 (NWNW), Section 2, T26N R59E, Roosevelt County, MT

VS Azi - 65.81°



Drilling Program

1. Build and construct access road and location
2. Drill 20in hole and set 16in conductor pipe with conductor rig. Drill rathole/mousehole
3. MIRU Drilling Rig. RU Solids Control for closed loop mud system
4. Drill 13 1/2in surface hole to 2,082' MD/TVD with Fresh Water
5. Run and cement 10 3/4in 45.5# J-55 surface casing
6. MU 11" 5000 psi wellhead.
7. NU BOP stack and pressure test to 5000 psi high and 250 psi low
8. Drill out with an 9 7/8in PDC bit and OBM
9. Build to 10.73° inclination and 65.81° azimuth for a kickout and drill to a TD at 6,063' MD / 5,998' TVD
10. Run Triple Combo open hole logs
11. Run and cement 7 5/8in 29.7# L-80 production casing
12. RDMO Drilling Rig

Mud Program

Recommended Drilling Fluid Properties

Interval	Depths (MD-feet)	Mud Type	Mud Weight (lbs/gal)	Viscosity @ 120° (sec/qt)
<u>Surface Hole</u>	0' - 2,082'	Fresh Water	8.3 - 8.8	28 - 34
*Run and cement 10 3/4in 45.5# J-55 surface casing				
<u>Production Hole</u>	2,082' - 6,063'	Oil Based	9.6 - 10.6	45 - 60
*Run and cement 7 5/8in 29.7# L-80 production casing				
*Important Note: Inyan Kara may be overpressured				



BRIGADE 1-2SWD PROPOSED COMPLETION PROCEDURE
NWNW S2-T26N-R59E
Roosevelt County, Montana

Well Information

Elevation: 2,026' GL & 2,048' KB

TMD: 6,063' TVD: 5,998'

Casing: 10-3/4" 45.5# J55 @ 2,082'. TOC: Surface.
7-5/8" 29.7# L80 @ 6,053'. TOC: 1000'.

Tubing: 5-1/2" 17# L80 BTC w IPC & Nickel coated Weatherford WH-6 injection packer @ 5,329'.

Perfs: Dakota Pool (Inyan Kara) 2SPF @ 5,369' - 5,966'

Completion Procedure

1. MIRU wireline, make gauge ring run to PBTD. Run GR, CBL & caliper log. Set CIBP on PBTD and pressure test to maximum anticipated frac pressure (approx. 5,500 psi).
2. Perforate Dakota (Inyan Kara) 2 SPF 5,369' - 5,966' as determined by logs.
3. MIRU workover rig, cleanout to PBTD if needed. PU Weatherford WH-6 Nickel coated packer & TIH. Land packer @ 5,329'. Roll backside w/ corrosion inhibitor. Set packer and pressure test to 1000 PSI for 15 minutes. Record pressure after 15 minutes. Note: this pressure must hold and be witnessed by MOOGC.
4. Swab well back, collect and analyze samples. Record FL and bbls swabbed per run. RDMO workover rig.
5. MIRU acid stimulation equipment and run acid job as designed. If injection results show under performance after acid job, then pull tbg, proceed with fracture stimulation and subsequent cleanout.
6. Turn well over to injection foreman.



JACAM LABORATORIES

DownHole Rx
WATER CHEMISTRY

KRAKEN OPERATING
RACHELLE ELLIS
RICHLAND MT

LYSAMOSE 33-34 #1H
TREATER

Report Date: 07-18-2016 Sampled: 06-24-2016
Sample #: 4406 at 0000

Sample ID: 131351

CATIONS

Calcium (as Ca)	21900
Magnesium (as Mg)	1542
Barium (as Ba)	23.94
Strontium (as Sr)	1615
Sodium (as Na)	75502
Potassium (as K)	7716
Lithium (as Li)	65.49
Ammonia (as NH ₃)	0.00
Aluminum (as Al)	0.00
Iron (as Fe)	61.06
Manganese (as Mn)	46.49
Zinc (as Zn)	25.29
Lead (as Pb)	0.00

ANIONS

Chloride (as Cl)	194200
Sulfate (as SO ₄)	25.00
Bromine (as Br)	0.00
Dissolved CO ₂ (as CO ₂)	200.00
Bicarbonate (as HCO ₃)	109.80
Carbonate (as CO ₃)	0.00
Oxalic acid (as C ₂ O ₄)	0.00
Silica (as SiO ₂)	0.00
Phosphate(as PO ₄)	0.00
H ₂ S (as H ₂ S)	0.00
Fluoride (as F)	0.00
Nitrate (as NO ₃)	0.00
Boron (as B)	560.40

PARAMETERS

Calculated T.D.S.	287394
Molar Conductivity	564974
Resistivity	1.77
Sp.Gr.(g/mL)	1.20
Pressure(atm)	1.00
pCO ₂ (atm)	0.0340
pH ₂ S(atm)	0.00
Temperature (°F)	84.00
pH	5.91

COMMENTS

RICHLAND MT

RECEIVED

NOV 7 2017

MONTANA BOARD OF OIL &
GAS CONSERVATION - BILLINGS

JACAM LABORATORIES

205 S. Broadway • P.O. Box 96 • Sterling, KS 67579-0096



NOTICE OF UIC APPLICATION

August 20, 2026

To: Surface, Leasehold and Mineral Owners

From: Slawson Exploration Company, Inc.
1675 Broadway, Suite 1600
Denver, CO 80202

Re: Proposed Private Saltwater Disposal Well

Location of proposed Disposal Well and Facility (Brigade 1-2 SWD)
NWNW (Lot 4) of Section 2, Township 26 North, Range 59 East, Roosevelt County, MT

Please be advised that Slawson Exploration Company, Inc. ("Slawson") has applied to the Montana Board of Oil and Gas Conversation ("MBOGC") to drill a saltwater disposal well and construct an associated facility at the above described location. Slawson 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 Avenue, Billings, Montana 59102, beginning at 9:00am.

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

Respectfully,
Slawson Exploration Company, Inc.

James Culbertson
P: 720.259.6405
jculbertson@slawsoncompanies.com

Underground Injection Control (UIC) Permit
Brigade 1-2 SWD

Township 27 North, Range 59 East, Sec. 34: SE

Ownership	Owner	Address
Surface	Estate of Wilson Scott Berry	95 Schley Ave. Savannah, GA 31419
Surface	Susan D. Zimmerman and Jerry Zimmerman	4124 153rd Ave. NW Williston, ND 58801
Mineral	Estate of Wilson Scott Berry	95 Schley Ave. Savannah, GA 31419
Mineral	Audrey L. Berry, For Her Life, Remainder To: Susan D. Zimmerman, As Trustee of The Berry Grandchildren's Trust	1609 3rd Ave. W. Apt 12 Williston, ND 58801
Leasehold	Kraken Oil & Gas LLC	945 Bunker Hill Road Suite 1200 Houston, TX 77024
Leasehold	Slawson Exploration Company, Inc.	245 N. Waco Ave., Suite 400 Wichita, KS 67202

Township 27 North, Range 59 East, Sec. 35: SW

Ownership	Owner	Address
Surface	United States of America, c/o Bureau of Land Management, Montana/Dakotas State Office	5001 Southgate Drive Billings, MT 59101
Mineral	United States of America, c/o Bureau of Land Management, Montana/Dakotas State Office	5001 Southgate Drive Billings, MT 59101
Leasehold	Cimarex Energy Co.	840 Gessner Road Suite 1400 Houston, TX 77024
Leasehold	Sabine Oil & Gas Corp.	1415 Louisiana St. Suite 1600 Houston, TX 77002
Leasehold	Kraken Oil & Gas LLC	945 Bunker Hill Road Suite 1200 Houston, TX 77024
Leasehold	Oasis Petroleum North America LLC	1001 Fannin St. Suite 1500 Houston, TX 77002
Leasehold	Omimex Canada Ltd.	P.O. Box 80169 Fort Worth, TX 76244
Leasehold	Devon Energy Production Company LP	333 West Sheridan Ave. OKC, OK 73102

Township 26 North, Range 59 East, Sec. 2: NW

Ownership	Owner	Address
Surface	Michael J. Wilson	6150 RW1 Dr. Bainville, MT 59212
Surface	Susan D. Zimmerman, Trustee of The Susan D. Zimmerman Family Revocable Trust Dated December 29, 2016	4124 153rd Ave. NW Williston, ND 58801
Mineral	Jerry E. Zimmerman and Susan D. Zimmerman, Co-Trustees of The Jerry and Susan Zimmerman Mineral Trust Dated December 13, 2016	4124 153rd Ave. NW Williston, ND 58801
Mineral	Estate of Wilson Scott Berry	95 Schley Ave. Savannah, GA 31419
Mineral	Audrey L. Berry, For Her Life, Remainder To: Susan D. Zimmerman, As Trustee of The Berry Grandchildren's Trust	1609 3rd Ave. W. Apt 12 Williston, ND 58801
Leasehold	Slawson Exploration Company, Inc.	245 N. Waco Ave. Suite 400 Wichita, KS 67202
Leasehold	Alcazar Energy, LLC	6465 Greenwood Plaza Blvd. Suite 1000 Greenwood Village, CO 80111
Override	Slawson Exploration Company, Inc.	245 N. Waco Ave. Suite 400 Wichita, KS 67202

Township 26 North, Range 59 East, Sec. 3: NE

Ownership	Owner	Address
Surface	Estate of Wilson Scott Berry	95 Schley Ave. Savannah, GA 31419
Surface	Michael J. Wilson	6150 RW1 Dr. Bainville, MT 59212
Surface	Susan D. Zimmerman, Trustee of The Susan D. Zimmerman Family Revocable Trust Dated December 29, 2016	4124 153rd Ave. NW Williston, ND 58801
Mineral	Estate of Wilson Scott Berry	95 Schley Ave. Savannah, GA 31419
Mineral	Estate of Hallis D. Kelly	39306 Chantilly Lane Palmdale, CA 93551
Mineral	James P. Macrae	826 29th Ave. SE Puyallup, WA 98374

Township 26 North, Range 59 East, Sec. 3: NE (Continued)

Mineral	Jerry E. Zimmerman and Susan D. Zimmerman, Co-Trustees of The Jerry and Susan Zimmerman Mineral Trust Dated December 13, 2016	4124 153rd Ave. NW Williston, ND 58801
Mineral	Mary W. Gaines, Trustee of The Mary W. Gaines Revocable Living Trust, Dated September 4, 2013	1504 Meadow View Lane Grayslake, IL 60030
Mineral	Michael Cornelius Theriault	210 Hudson St. Apt. 604 Longview, WA 98632
Mineral	Robert D. Theriault	3920 Pine Street Longview, WA 98632
Mineral	Robert Patrick Wilson	P.O. Box 253 Bainville, MT 59212
Mineral	Thomas D. Theriault and Judith H. Theriault, Co- Trustees of The Theriault Family 2006 Trust Dated December 20, 2006	1306 San Julian Lane San Marcos, CA 92078
Mineral	United States of America, c/o Bureau of Land Management, Montana/Dakotas State Office	5001 Southgate Drive Billings, MT 59101
Leasehold	Alcazar Energy, LLC	6465 Greenwood Plaza Blvd. Suite 1000 Greenwood Village, CO 80111
Leasehold	Devon Energy Production Company LP	333 West Sheridan Ave. OKC, OK 73102
Leasehold	Kraken Oil & Gas LLC	945 Bunker Hill Road Suite 1200 Houston, TX 77024
Leasehold	Omimex Canada Ltd.	P.O. Box 80169 Fort Worth, TX 76244
Leasehold	Slawson Exploration Company, Inc.,	245 N. Waco Ave., Suite 400 Wichita, KS 67202
Override	Blue Star Royalty Inc.	P.O. Box 702318 Tulsa, OK 74170
Override	Marshall & Winston Inc.	P.O. Box 50880 Midland, TX 79710
Override	Mazzola & Co.	P.O. Box 426 Broomfield, CO 80038
Override	Slawson Exploration Company, Inc.	245 N. Waco Ave., Suite 400 Wichita, KS 67202

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

IN THE MATTER OF THE APPLICATION OF
SLAWSON EXPLORATION COMPANY, INC. FOR
THE HEARING OF ITS REQUEST FOR A UIC
PERMIT FOR THE BRIGADE 1-2 SWD, 537' FNL, 561'
FWL, SECTION 2, TOWNSHIP 26 NORTH, RANGE 59
EAST, ROOSEVELT COUNTY, MONTANA, FOR
THE PURPOSES OF WATER INJECTION

AFFIDAVIT OF NOTIFICATION

Date: August 20, 2026

State of Montana
County of Roosevelt

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

That Notice advising of Slawson Exploration Company Inc.'s application for UIC permit in the caption matter, in the form attached as Exhibit "A," was mailed to each current operator, surface owner, mineral owner, and leasehold owner within the area of review at the addresses shown in the exhibit attached to the Notice, by mailing a true copy thereof this 20th day of August, 2026, postage prepaid, First-Class Mail. This Affidavit is given as evidence of compliance with A.R.M. 36.22.1410.



James Culbertson
Slawson Exploration Company, Inc.

Subscribed and sworn to before me this 20 day of August, 2026.



Notary Public for the State of Colorado
Residing at Denver, CO
My Commission expires December 16, 2029

(SEAL)



This legal ad has been requested to be run in the Helena Independent Record and The Northern Plains Independent newspapers, requests were submitted on 8/21/26. Affidavits will be submitted to the state once received.

Helena Independent Record

Public Notice

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 Slawson Exploration Company, Inc. for a Class II injection well permit.

1. Name and address of Applicant:
Slawson Exploration Company, Inc.
1675 Broadway, #1600
Denver, CO 80202

1. Well (or project) name, county, location:

Brigade 1-2 SWD

Surface location: Lot 4, Section 2, T26N, R59E, Roosevelt County, MT. Footages: 537' FNL & 561' FWL. Bottom hole location: Lot 4, Section 2, T26N, R59E, Roosevelt County, MT. Footages: 250' FNL & 1200' FWL.

1. Source of fluids to be injected:

Produced water from 12 Bakken wells located on same pad
1. Zone or formation into which injection will occur, including depth:

DAKOTA from 5,369' – 5,966' MD

1. 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 Rules 36.22.1409, Administrative Rules of Montana, the Montana Board of Oil and Gas Conservation will hold a public hearing upon the application of Slawson Exploration Company, Inc. for a Class II underground injection permit for the well or project set forth above. Said hearing will be held at Montana Board of Oil and Gas Hearing Room at 2535 St. Johns Avenue, Billings MT 59102, beginning at 9:00am on October 15, 2026.

August 27, 2026 COL-MT-203170 MNAXLP

Northern Plains Independent

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 Slawson Exploration Company, Inc. for a Class II injection well permit.

1. Name and address of Applicant:
Slawson Exploration Company, Inc.
1675 Broadway, #1600
Denver, CO 80202

1. Well (or project) name, county, location:

Brigade 1-2 SWD

Surface location: Lot 4, Section 2, T26N, R59E, Roosevelt County, MT. Footages: 537' FNL & 561' FWL. Bottom hole location: Lot 4, Section 2, T26N, R59E, Roosevelt County, MT. Footages: 250' FNL & 1200' FWL.

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AQUIFER EXEMPTION APPLICATION

Brigade 1-2 SWD

Inyan Kara Formation - Dakota Group
Rip Rap Coulee Field, Roosevelt County, Montana

Applicant	Slawson Exploration Company, Inc.
Proposed Well	Brigade 1-2 SWD
Location	537' FNL, 561' FWL, Lot 4 (NWNW), Sec. 2, T26N, R59E
Well Type	Class II Saltwater Disposal Well
Injection Formation	Inyan Kara Formation, Dakota Group
Requested Exemption Area	1/4-mile radius surrounding the Brigade 1-2 SWD

Introduction and Purpose

Slawson Exploration Company, Inc. (Slawson) submits this application requesting an aquifer exemption for the portion of the Lower Cretaceous Inyan Kara Formation of the Dakota Group associated with the proposed Brigade 1-2 SWD in the Rip Rap Coulee Field, Roosevelt County, Montana.

The Brigade 1-2 SWD is proposed as a new-drill Class II saltwater disposal well for injection of produced water associated primarily with Slawson's planned Bakken development in the surrounding area. The well is proposed at 537' FNL and 561' FWL, Lot 4 (NWNW) of Section 2, T26N, R59E.

At the proposed well location, the Inyan Kara is expected from approximately 5,316 to 5,903 feet true vertical depth (TVD), with prospective injection sands concentrated primarily between approximately 5,400 and 5,800 feet TVD. Slawson requests exemption of the portion of the Inyan Kara contained within a 1/4-mile radius of the Brigade 1-2 SWD. The requested exemption area corresponds to the Area of Review (AOR) established for the proposed Class II injection well.

The application is based on the aquifer not currently serving as a source of drinking water (Criterion A) and on the depth and location of the aquifer making recovery of drinking water economically infeasible relative to available alternative sources (Criterion C). Nearby Dakota water-quality data are included as locally relevant supporting information, but are not used to assert that native water at the Brigade 1-2 location necessarily exceeds 10,000 mg/L total dissolved solids (TDS).

1. Definition of the Proposed Exempted Area

The proposed aquifer exemption encompasses the Inyan Kara Formation within a 1/4-mile radius of the Brigade 1-2 SWD. The requested boundary corresponds to the established 1/4-mile AOR and is shown on Appendix I.

The mapped AOR contains no known producing or plugged and abandoned oil and gas wells and no known freshwater wells. The supporting water-well map also identifies nearby water wells, their approximate depths, and surrounding oil and gas wells. Generally, water wells northeast of Highway 327 obtain groundwater from Fort Union Group aquifers, while wells southwest of Highway 327 near the Missouri River floodplain obtain groundwater from within shallower Quaternary deposits.

2. Geological Description of the Proposed Exempted Aquifer

2.1 Inyan Kara Formation

The proposed exempted aquifer and injection zone is the Lower Cretaceous Inyan Kara Formation within the Dakota Group. At the Brigade 1-2 SWD location, the Inyan Kara is estimated to extend from approximately 5,316 to 5,903 feet TVD, for a gross thickness of approximately 587 feet.

The Inyan Kara consists of alternating fluvial and deltaic sandstone, siltstone, and shale. Several prospective porous sandstone intervals are anticipated between approximately 5,400 and 5,800 feet TVD. Locally, approximately 110 feet of net sandstone are present in several sand bodies. Porosity ranges from approximately 21 to 27 percent with an average of 24 percent.

Representative area logs exhibit deep invasion profiles, mud cake, and density-neutron crossover in Inyan Kara sandstone intervals, consistent with permeable sandstone and supporting the suitability of the interval for brine injection. A representative type log is included as Appendix III.

2.2 Upper and Lower Confinement

The Cretaceous Mowry Formation is the principal upper confining interval. At the Brigade location it is estimated from approximately 4,910 to 5,070 feet TVD and is approximately 160 feet thick. It consists predominantly of medium- to dark-gray shale, including siliceous and fissile shale and siltstone with bentonitic intervals.

The Jurassic Swift Formation provides lower confinement. It is estimated from approximately 5,903 to 6,325 feet TVD, providing approximately 422 feet of lower confining section. The Swift consists predominantly of dark-gray to greenish-gray shale interbedded with siltstone and sandstone, with locally calcareous and glauconitic intervals.

2.3 Separation from Underground Sources of Drinking Water

The lowermost identified USDW in the area is the Fox Hills, estimated from approximately 1,630 to 1,746 feet TVD. The top of the Inyan Kara occurs at approximately 5,316 feet TVD, providing approximately 3,570 feet of vertical stratigraphic separation between the base of the Fox Hills and the top of the proposed exempted aquifer.

This substantial separation, the intervening stratigraphic section, and the shale-dominated confining intervals provide geologic isolation from shallow drinking-water sources. The proposed well construction also provides additional engineered isolation. Surface casing will be set to approximately 2,082 feet and cemented to surface; the 7 5/8-inch casing string will extend to approximately 6,053 feet and be cemented to surface; and injection will occur through tubing and a packer.

3. Thickness, Area, Porosity, and Pore Volume

Parameter	Value
Exemption radius	1,320 ft
Approximate exemption area	126 acres
Net Inyan Kara sandstone thickness	110 ft
Average porosity	24%
Calculated pore volume	~25.7 million bbl
Expected operating life	30 years
Expected lifetime injection	15 million bbl
Lifetime injection / pore volume	~58%

Pore volume is calculated using the application-guidance formula:

$$\text{Pore Volume (bbl)} = (\pi \times R^2 \times H \times \phi) / 5.63$$

Using R = 1,320 feet, H = 110 feet, and average porosity (ϕ) = 0.24, the calculated pore volume is approximately 25.7 million barrels. The Brigade 1-2 SWD is expected to operate for approximately 30 years and inject approximately 15 million barrels over its operating life. Projected lifetime injection therefore represents approximately 58 percent of calculated pore volume, leaving approximately 10.7 million barrels of calculated pore-volume capacity beyond the projected lifetime injection.

The requested 1/4-mile exemption area therefore provides sufficient calculated pore volume for the anticipated lifetime injection while limiting the geographic extent of the exemption.

4. Water Quality of the Proposed Exempted Aquifer

Because the Brigade 1-2 SWD is a proposed new drill, no native Inyan Kara water sample is currently available from the proposed well. The most locally relevant available Dakota Group formation-water data provided for this application are from the Wilson 2-33 SWD (API No. 25-085-21107), located in Section 33, T27N, R59E, Roosevelt County, Montana (See Appendix VI).

Two Dakota water samples were collected by swabbing from the Wilson 2-33 SWD wellhead on January 7, 2011, and analyzed by Astro-Chem Lab, Inc. The samples are presented below in the order collected during the swab test.

Swab volume	TDS (mg/L)	Sodium (mg/L)	Chloride (mg/L)	pH	Specific gravity
125 bbl	19,332	6,600	10,415	6.81	1.015
225 bbl	11,807	4,000	5,719	7.06	1.005

The first sample, taken after approximately 125 barrels were swabbed, reported calculated TDS of 19,332 mg/L. The second sample, taken after approximately 225 barrels were swabbed, reported calculated TDS of 11,807 mg/L.

The variation between the two samples demonstrates that Dakota formation-water quality can vary even during sampling of a single nearby well. Because the Wilson 2-33 SWD is outside the proposed exemption boundary, these analyses are not presented as proof that native Inyan Kara water at the Brigade 1-2 SWD necessarily exceeds 10,000 mg/L TDS. Rather, they provide the most locally relevant available analytical evidence of Dakota formation-water quality and demonstrate that locally encountered Dakota water can be saline and materially poorer in quality than the shallow aquifers used for water supply.

5. Justification A - Aquifer Does Not Currently Serve as a Source of Drinking Water

The portion of the Inyan Kara proposed for exemption does not currently serve as a source of drinking water. Available water-well information indicates that no freshwater wells are located within the proposed 1/4-mile exemption area.

Groundwater users in the surrounding area instead rely on substantially shallower aquifers. Wells northeast of Highway 327 are completed in Fort Union Group aquifers and are generally less than approximately 700 feet deep. Approximately two miles southwest of the Brigade 1-2 SWD, near the Missouri River floodplain, wells obtain water from within shallow Quaternary deposits, at depths of approximately 70 feet.

The proposed Inyan Kara interval occurs at approximately 5,316 to 5,903 feet TVD. There is no indication that the Inyan Kara within the requested exemption area is presently being used as a drinking-water source. Existing groundwater development instead demonstrates reliance on much shallower and more readily accessible aquifers. Accordingly, the proposed exempted portion of the Inyan Kara satisfies Criterion A.

6. Justification C - Recovery of Drinking Water Is Economically Infeasible

6.1 Depth and Location

The Inyan Kara is expected between approximately 5,316 and 5,903 feet TVD at the Brigade 1-2 SWD. Development of the formation as a drinking-water source would require construction of a water well approximately 5,500 feet deep. To reach such depths would require a relatively large drilling rig due to the depth limitations of typical water well drilling rigs.

By comparison, Fort Union groundwater is available from wells generally less than approximately 700 feet deep, and Quaternary groundwater near the Missouri River floodplain is available from wells approximately 70 feet deep. The deepest identified USDW, the Fox Hills, occurs at approximately 1,630 to 1,746 feet TVD and also represents a substantially shallower potential groundwater source than the Inyan Kara.

6.2 Comparative Development Costs

Potential water source	Approximate depth	Estimated well cost
Quaternary Deposits	~70 ft	~\$50,000
Fort Union Group	<700 ft	~\$150,000
Fox Hills	~1,630-1,746 ft	~\$425,000
Inyan Kara/Dakota	~5,500 ft	~\$1,400,000

An Inyan Kara water well is therefore estimated to require approximately \$1.25 million more initial capital than a Fort Union well, approximately \$1.35 million more than a shallow Quaternary well, and approximately \$975,000 more than a well accessing the Fox Hills, the deepest identified USDW.

These estimates address well construction only. They do not include additional treatment costs that could be necessary if Inyan Kara water at the Brigade location were similar in quality to the nearby Dakota water encountered at the Wilson 2-33 SWD. The Wilson samples ranged from approximately 11,807 to 19,332 mg/L calculated TDS. Treatment of water of comparable salinity for potable use would add capital, energy, operation, maintenance, and residual disposal costs to an already substantially more expensive deep-water development option.

6.3 Availability of Alternative Water Supplies

The mapped distribution of nearby water wells demonstrates that alternative groundwater supplies are currently available and used in the vicinity. Fort Union Group groundwater is developed northeast of Highway 327. Southwest of Highway 327, toward the Missouri River floodplain, groundwater is developed from shallow Quaternary deposits. The Fox Hills also represents a substantially shallower USDW than the Inyan Kara.

A prospective water user therefore has access to groundwater at approximately 70 feet, less than approximately 700 feet, or within the Fox Hills at approximately 1,630 to 1,746 feet, rather than drilling approximately 5,500 feet to the Inyan Kara. On the provided cost estimates, these alternatives range from approximately \$50,000 to \$425,000 compared with approximately \$1.4 million for an Inyan Kara well.

6.4 Criterion C Conclusion

Development of the Inyan Kara as a drinking-water source is economically infeasible relative to the established and potential alternative groundwater sources in the area. The Inyan Kara is several thousand feet deeper than the aquifers currently used for local water supply and would cost approximately 3.3 to 28 times more to access than the identified alternatives before consideration of water-treatment costs.

The locally relevant Wilson 2-33 analyses further indicate that Dakota water quality can be saline, although those analyses are not used to establish the native TDS at the Brigade location. Taken together, the depth, well-development cost, potential treatment burden, and availability of substantially shallower groundwater sources support exemption under Criterion C.

7. Proposed Injection Operations and Protection of USDW

The Brigade 1-2 SWD will be constructed as a new Class II saltwater disposal well. Intended injection fluid will consist primarily of produced water from Slawson-operated Bakken wells planned on the shared Brigade/Outpost pad location. The produced water is expected to contain at least 200,000 mg/L TDS.

Natural and engineered barriers will isolate the proposed injection interval from overlying USDWs. The lowermost identified USDW, the Fox Hills, occurs at approximately 1,630 to 1,746 feet TVD, while the top of the Inyan Kara occurs at approximately 5,316 feet TVD. This provides approximately 3,570 feet of vertical stratigraphic separation containing predominately low-permeability shale.

The surface hole will be drilled to approximately 2,082 feet MD and 10 3/4-inch casing will be run and cemented from below the lowermost identified USDW to surface. The intermediate section will be drilled to approximately 6,053 feet MD and 7 5/8-inch casing will be run and cemented to surface. Injection will occur through tubing and packer into selected perforated intervals within the Dakota Group following evaluation of logs.

The proposed maximum initial injection rate is approximately 25,000 barrels per day, with an anticipated average of approximately 13,100 barrels per day during the first year. The requested maximum allowable injection pressure is

1,350 psig at the wellhead. The well is expected to operate approximately 30 years and inject approximately 15 million barrels cumulatively.

8. Appropriateness of the Requested Exemption Boundary

The requested exemption is limited to a 1/4-mile radius surrounding the Brigade 1-2 SWD. Using 110 feet of net injection sandstone and 24 percent average porosity, approximately 25.7 million barrels of pore volume are calculated within the requested exemption area.

The anticipated cumulative injection over the approximately 30-year operating life is approximately 15 million barrels, or approximately 58 percent of calculated pore volume. The requested area therefore contains approximately 1.7 times the pore volume represented by projected lifetime injection. A larger exemption area is not necessary based on the presently anticipated cumulative injection volume.

9. Summary and Request for Approval

Slawson Exploration Company, Inc. respectfully requests approval of an aquifer exemption for the portion of the Inyan Kara Formation within a 1/4-mile radius of the proposed Brigade 1-2 SWD.

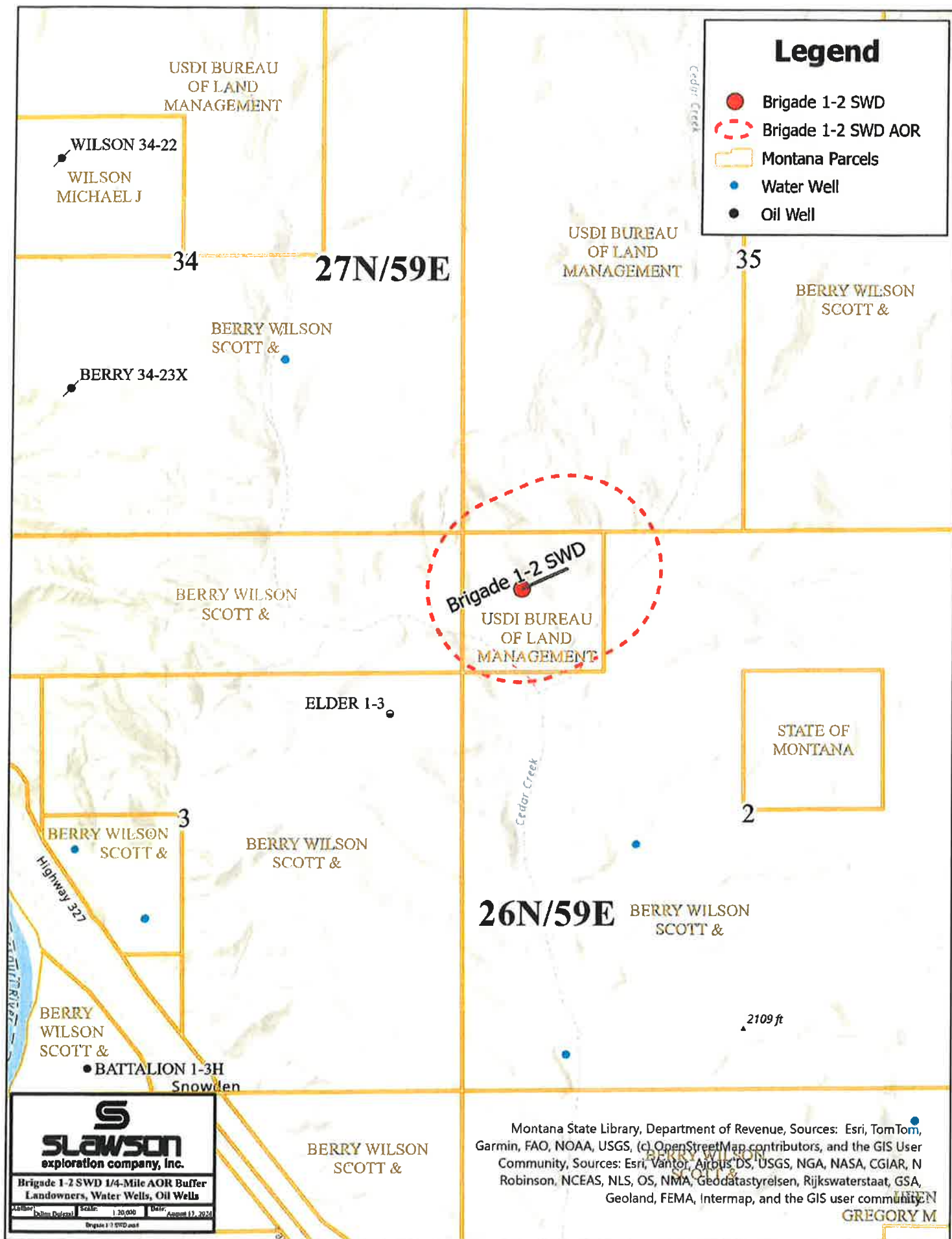
- The proposed exempted portion of the Inyan Kara does not currently serve as a source of drinking water.
- No known freshwater wells occur within the proposed exemption area, and nearby users obtain groundwater from substantially shallower Fort Union and Quaternary aquifers.
- The Inyan Kara occurs at approximately 5,316 to 5,903 feet TVD, several thousand feet below existing shallow groundwater supplies.
- Estimated well costs are approximately \$50,000 for a ~70-foot Quaternary well, \$150,000 for a Fort Union well, \$425,000 for a Fox Hills well, and \$1.4 million for an approximately 5,500-foot Inyan Kara well.
- Nearby Wilson 2-33 Dakota water samples reported calculated TDS of 19,332 mg/L after 125 barrels were swabbed and 11,807 mg/L after 225 barrels were swabbed; these data demonstrate local variability and are not asserted to prove native Brigade water exceeds 10,000 mg/L TDS.
- The Inyan Kara is separated from the lowermost identified USDW by approximately 3,570 feet of stratigraphic section and will be isolated by both geologic confinement and engineered well barriers.
- Approximately 25.7 million barrels of pore volume are calculated within the requested exemption area, compared with approximately 15 million barrels of anticipated cumulative injection over 30 years.

Based on these factors, the proposed exempted portion of the Inyan Kara satisfies Criterion A because it does not currently serve as a source of drinking water, and Criterion C because its depth, location, development cost, and the availability of substantially shallower alternative groundwater sources make recovery for drinking purposes economically infeasible.

Slawson Exploration Company, Inc. respectfully requests approval of the proposed aquifer exemption and associated Class II injection operations for the Brigade 1-2 SWD.

Supporting Appendices

Appendix	Description
Appendix I	Aquifer Exemption / 1/4-Mile Area of Review Map
Appendix II	Brigade 1-2 SWD Location Plat
Appendix III	Representative Inyan Kara Type Log and Confining-Zone Identification
Appendix IV	Proposed Wellbore Schematic and Casing/Cement Program
Appendix V	Proposed Completion Procedure / Injection Interval
Appendix VI	Wilson 2-33 SWD Dakota Water Analyses
Appendix VII	Water-Well Location, Depth, and Aquifer Map



WELL LOCATION PLAT

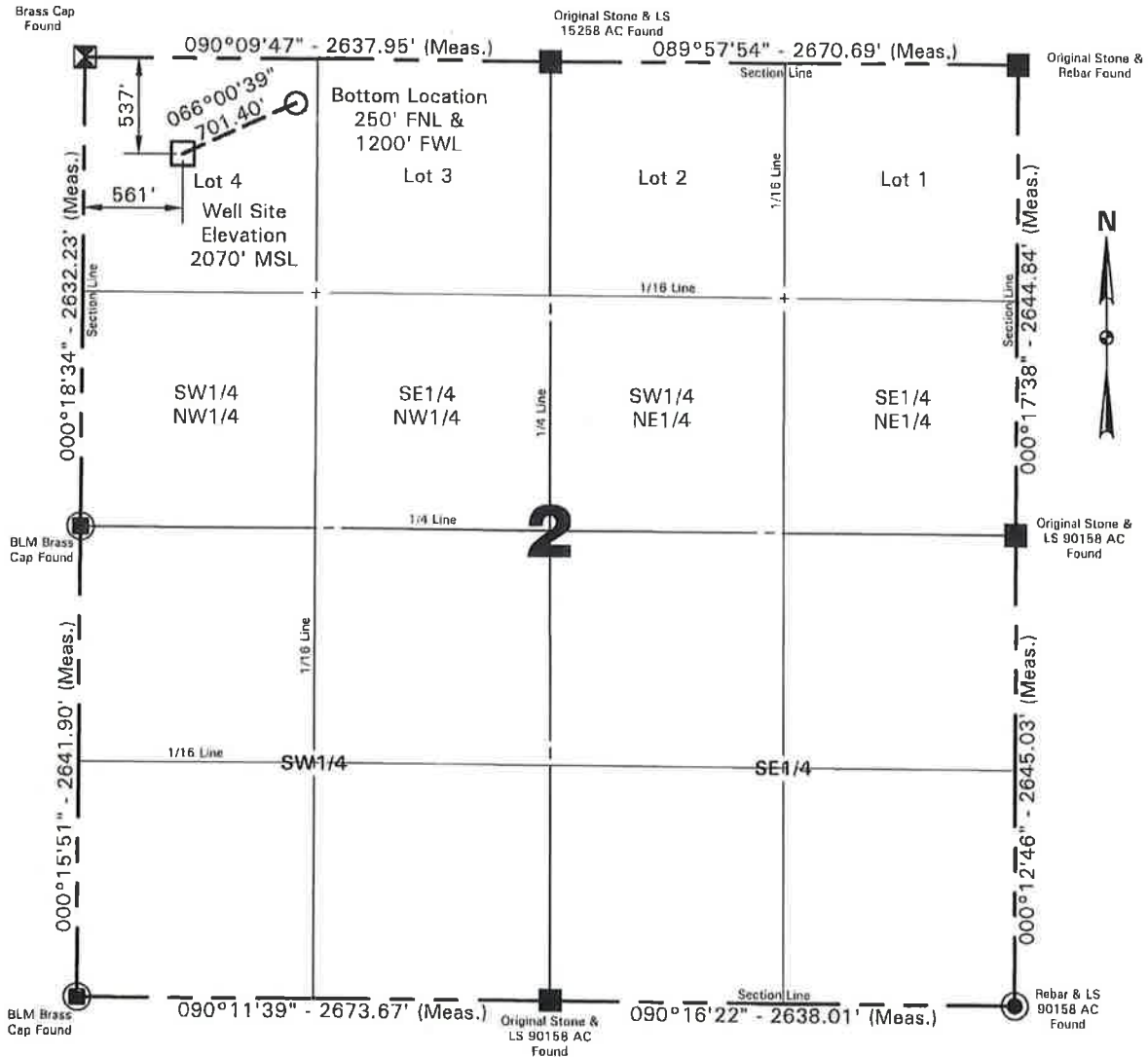
Slawson Exploration Company, Inc.
1675 Broadway, Suite 1600, Denver, Colorado 80202

Brigade 1-2 SWD

537 feet from the north line and 561 feet from the west line (surface location)
250 feet from the north line and 1200 feet from the west line (bottom location)

Section 2, T. 26 N., R. 59 E., P.M.M.

Roosevelt County, Montana
Surface owner @ well site - BLM
Latitude 48°02'23.938" (48.0399828° DD) North; Longitude 104°04'18.590" (104.0718307° DD) West (surface location)
Latitude 48°02'26.754" (48.0407649° DD) North; Longitude 104°04'09.162" (104.0692118° DD) West (bottom location)
[Derived from OPUS Solution NAD-83(2011)]



Confidentiality Notice: The information contained on this plat is legally privileged and confidential information intended only for the use of recipients. If you are not the intended recipients, you are hereby notified that any use, dissemination, distribution or copying of this information is strictly prohibited.

NOTE:

All corners described on this plat were found in the field as shown hereon. Distances to all others are calculated. The azimuths shown on this plat are grid, based upon Geodetic North derived from GPS measurements at the center of the project origin located at the East Quarter Corner of Section 14, located a distance of 7930.18' on azimuth of 180°28'59" from the SE corner of Section 2, Latitude 48°00'18.754" North; Longitude 104°03'10.015" West. Azimuths represent the calculated value from the central meridian using the forward bearing. The well location shown hereon is not an as-built location.

Scale 1" = 1000'

I, Michael J. Ries, Professional Land Surveyor, MT No. 17794, do hereby certify that the survey plat shown hereon was made by me, or under my direction, from notes made in the field, and the same is true and correct to the best of my knowledge and belief.

Derek Uran
Surveyed By Date

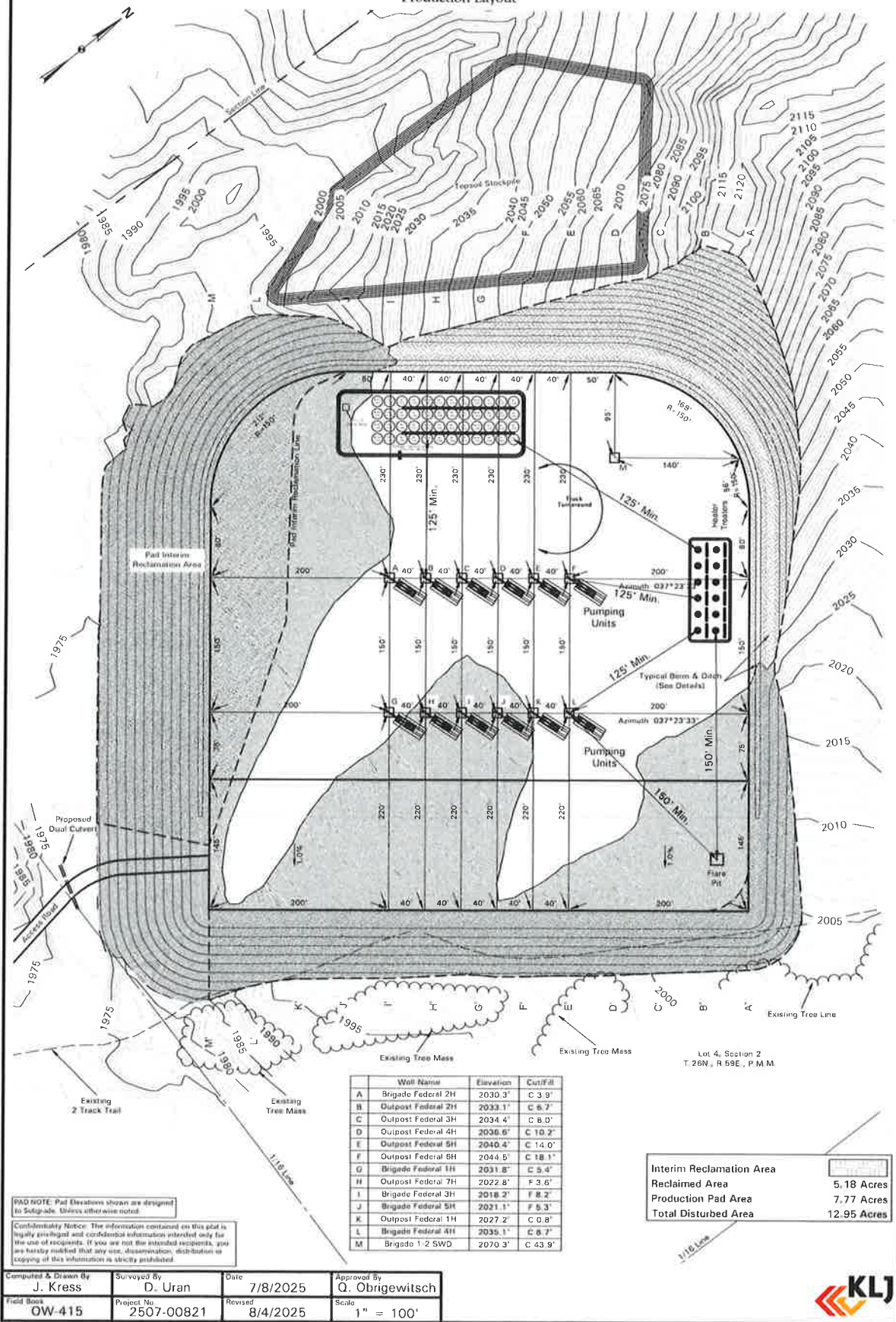
Vertical Control Datum Used
North American Vertical Datum 1988 (NAVD 88)
Based upon Trimble VRS Now US control point
PRS359947412281 having a Latitude of 47°43'03.219" North, a Longitude of 104°11'05.017" West (NAD 83) and an Elevation of 1992.72' at MSL.

Project No. 2507-00821
Book OW-415 Pg. 40-51 Staking

Professional Consulting Engineers
and Surveyors
Registered in
North Dakota, South Dakota
Montana, Wyoming & Minnesota
Tele-Fax No. 856-288-8056
Bus. Phone No. 701-483-1284
677 27th Avenue East
Dickinson, North Dakota 58601
Certificate of Authorization #C-061



Brigade Federal 2H, Outpost Federal 2H, Outpost Federal 3H, Outpost Federal 4H, Outpost Federal 5H,
Outpost Federal 6H, Brigade Federal 1H, Outpost Federal 7H, Brigade Federal 3H, Brigade Federal 5H,
Outpost Federal 1H, Brigade Federal 4H, Brigade 1-2 SWD
Production Layout



Brigade 1-2 SWD Type Log

BULLION 13-1-2H
API: 25-085-22027
PRIMA EXPLORATION INC
250' FSL & 895' FWL, SECTION 36, T27N R59E

Listed depths are the estimated depths to be encountered at the Brigade 1-2 SWD location.

Lowermost USDW is the Fox Hills which is estimated from 1,630' to 1,746' TVD.

Mowry: 4,910' – 5,070' TVD
Upper Confinement

Mowry, Cretaceous: Shale, medium to dark gray, soft, flakey, traces of light-blue-gray bentonitic clay; top is marked by radioactive zone.

Newcastle

Skull Creek

Inyan Kara: 5,316' – 5,903' TVD
Injection Formation

Inyan Kara, Cretaceous: Upper part: Sandstone; light gray; quartzose; fine-grained to coarse-grained. Shale; gray; silty; lumpy. Marine to nonmarine. Lower part: Sandstone; gray; quartzose; medium-grained to coarse-grained; angular to subrounded; occasional lenses of shale; gray; bentonitic; contains manganese and siderite spheres.

Locally, there is approximately 110' of net sand from several sand bodies with porosity ranging from 21 to 27%. Area logs show a deep invasion profile, mud cake, and density crossover, strongly suggesting the sand will accept brine injection.

Swift: 5,903' – 6,325' TVD
Lower Confinement

Swift, Jurassic: Shale; dark gray to greenish gray; interbedded with siltstone and sandstone; calcareous; fissile; waxy. Can contain grayish green; glauconitic sandstone. Lower third can contain limestone; light gray to pinkish gray; carbonate bioclasts; fine to coarse grained; well-rounded; laminated.

Swift

Rierdon

Rierdon, Jurassic: Shale, varicolored shades of gray, green, and red, calcareous; some limestone.

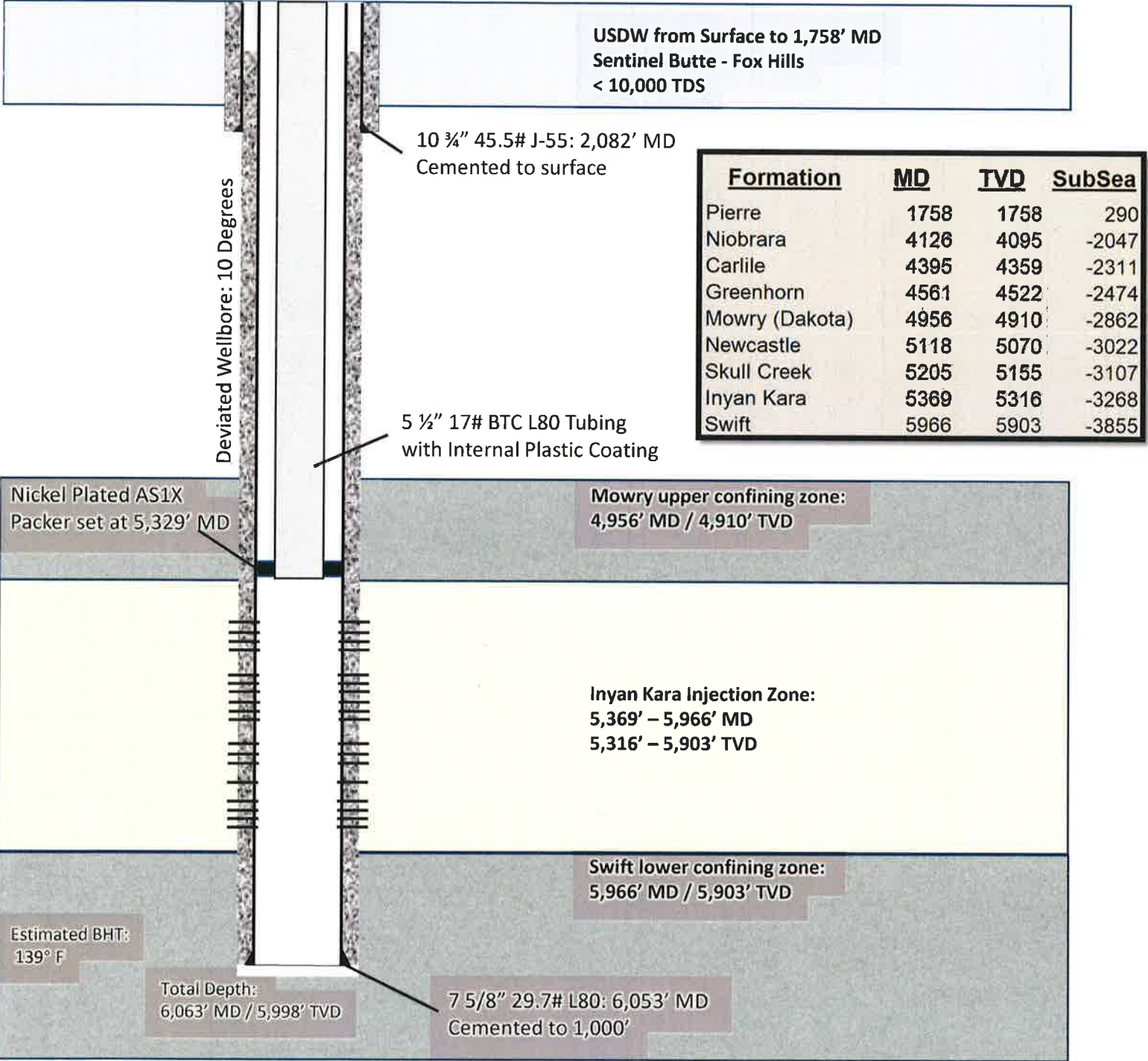
References:

- Murphy, Edward C., Nordeng, Stephan H., Juenker, Bruce J., and Hoganson, John W., 2009. "North Dakota Stratigraphic Column", North Dakota Geological Survey Miscellaneous Series 91.

Brigade 1-2 SWD Wellbore Diagram

SHL: 537' FNL and 561' FWL,
Lot 4 (NWNW), Section 2 T26N R59E
Roosevelt County, Montana
Pad Elevation: 2,026'
KB Elevation: 2,048'

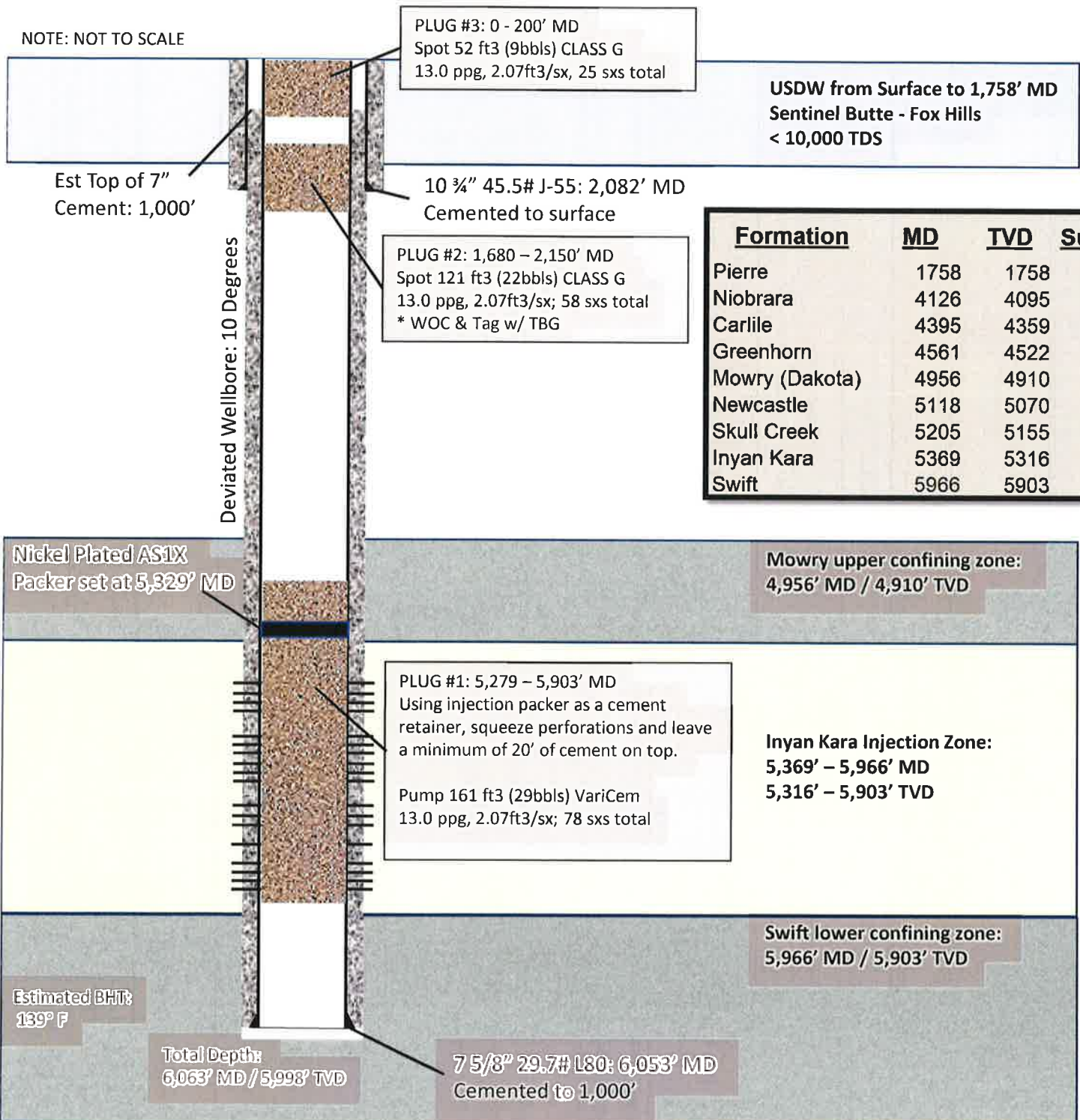
NOTE: NOT TO SCALE



Brigade 1-2 SWD P&A Wellbore Diagram

SHL: 537' FNL and 561' FWL,
Lot 4 (NWNW), Section 2 T26N R59E
Roosevelt County, Montana
Pad Elevation: 2,026'
KB Elevation: 2,048'

NOTE: NOT TO SCALE



1675 Broadway, Suite 1600
Denver, CO 80202
303-592-8880

Brigade 1-2 SWD

Drilling Prognosis



GENERAL WELL INFORMATION

Well:	Brigade 1-2 SWD	Lat:	48° 02' 23.938" N
Footages:	537' FNL & 561' FWL	Long:	104° 04' 18.590" W
Location:	Lot 4 (NWNW), Section 2, T26N R59E	Pad Elevation:	2,026'
County/State:	Roosevelt County, MT	KB Elevation (22' KB):	2,048'
Target Formation:	Inyan Kara	Field:	Wildcat Roosevelt
Proposed BHL:	250' FNL & 1200' FWL, NWNW, Section 2, T26N R59E	Lateral Length:	0'

SECTION DETAIL

COMMENT	MD	INCL	AZIM GN	TVD	N / S	E / W	CLOSURE	LR ANGL	TVDSS	VS	DLS	INCL	65.81°
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,048.40	0.00	0.0		
Surface Csg	2,082.00	0.00	0.00	2,082.00	0.00	0.00	0.00	0.00	-33.60	0.00	0.0		
Build	2,192.64	0.00	0.00	2,192.64	0.00	0.00	0.00	0.00	-144.24	0.00	0.0		
Hold	2,407.18	10.73	65.81	2,405.93	8.20	18.27	20.02	65.81	-357.53	20.02	5.0		
BHL	6,063.14	10.73	65.81	5,998.00	287.00	639.00	700.49	65.81	-3,949.60	700.49	0.0		

GEOLOGIC MARKERS

Marker	MD	TVD	SS	Marker	MD	TVD	SS	Marker	MD	TVD	SS
Pierre	1,758	1,758	290	Greenhorn	4,561	4,522	-2,474	Skull Creek	5,205	5,155	-3,107
Niobrara	4,126	4,095	-2,047	Mowry (Dakota)	4,956	4,910	-2,862	Inyan Kara	5,369	5,316	-3,268
Carlisle	4,395	4,359	-2,311	Newcastle	5,118	5,070	-3,022	Swift	5,966	5,903	-3,855

LOGGING PROGRAM

Open Hole Logs:	Run Triple Combo from TD to casing shoe, continue GR to the surface	Mudlog/Geologic Interpretation not needed
Cased Hole Logs:	CBL/GR/CCL/CIL	

WELLBORE INFORMATION

Wellbore	Hole Size	Top MD	Btm (MD)	Btm (TVD)	Feature	Top MD	Btm MD	OD (in)	Weight	Grade
Surface Hole	13 1/2	0'	2,082'	2,082'	Surface Casing	0'	2,082'	10 3/4	45.5#	J-55
Directional	9 7/8	2,082'	6,063'	5,998'	Production Casing	0'	6,053'	7 5/8	29.7#	L-80
					Injection Tubing	0'	5,329'	5 1/2	17#	L-80

CEMENT PROGRAM

Surface Casing	10 3/4	OD	x	13 1/2	Hole						Notes
	<u>Top</u>	<u>Bottom</u>	<u>Weight</u>	<u>SX</u>	<u>Yield</u>	<u>CuFt</u>	<u>BBLS</u>	<u>Type</u>			
Lead	0'	1,582'	12	237	2.43	575	102	Class G	Volumes calculated from 10.75 OD and 13.5 Hole. May use up to 60% excess. Lead: Type III; 2% Cal-Seal; 2% econolite; 6% salt; .125#/sk LCM. Compressive strength: 434 psi in 24hrs; 500 psi in 40hrs. Tail: Type III; 2% Cal-Seal; 2% econolite; 6% salt; .125#/sk LCM; Compressive strength: 500 psi in 5hrs; 1550 psi in 24hrs; 1800 psi in 72hrs.		
Tail	1,582'	2,082'	13	95	1.91	182	32	Class C			
Production Casing	7 5/8	OD	x	9 7/8	Hole						Notes
	<u>Top</u>	<u>Bottom</u>	<u>Weight</u>	<u>SX</u>	<u>Yield</u>	<u>CuFt</u>	<u>BBLS</u>	<u>Type</u>			
Lead	1,000'	4,769'	12	476	1.7	809	144	Type III	Volumes calculated from 7.625 OD and 9.875 Hole. May use up to 30% excess. Lead: 600' above top of Inyan Kara to 1,000' MD; 70bbl of 12#/gal spacer; 75/25 Type III cement/poz plus flyash; 7% silicate; 5% bentonite; 2% salt; .2% fluid loss; Compressive strength: 420 psi 24hrs; 840 psi in 72hrs. Tail: Class G; 35% silica flour; 10% welllife; 5% bentonite; compressive strength: 1450 psi in 24hrs; 2,000 psi in 72hrs.		
Tail	4,769'	6,053'	14	232	1.19	276	49	Glass G			

GENERAL NOTES

Estimated BHST:	138°	Estimated BHP:	2,807 psi	BOPs to be tested to 5,000 psi
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CONTACTS

Engineer	Ned Shiflett	Office: 720-457-9822	Home: 303-674-8313	Cell: 303-570-1903
Geologist	Dillon Dolezal	Office: 720-259-6403	Home: 701-260-2016	Cell: 701-260-2016

Brigade 1-2 SWD

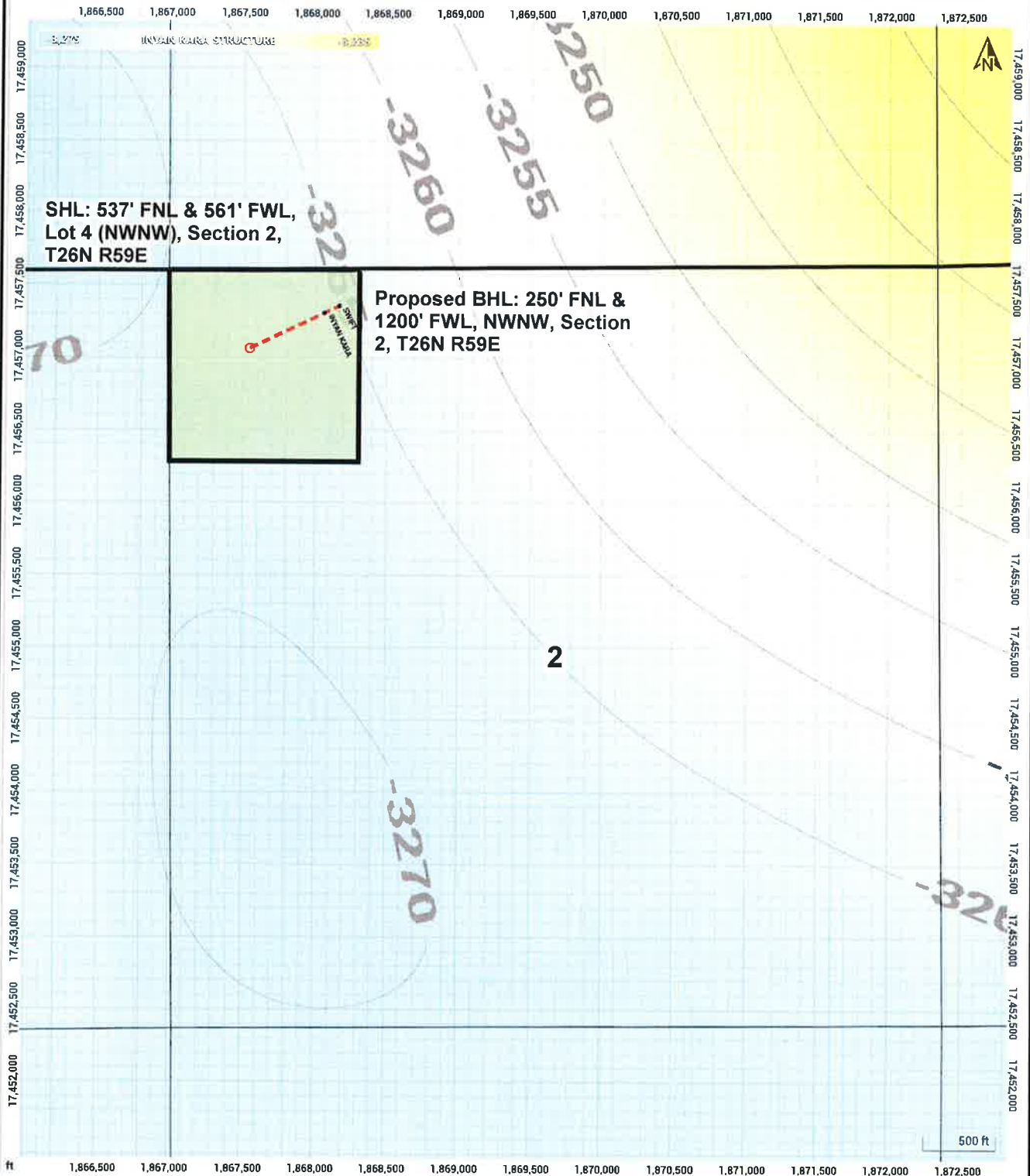


Datum Elevation: 2048.4' KB (2026.4' GL + 22' KB)

Map View

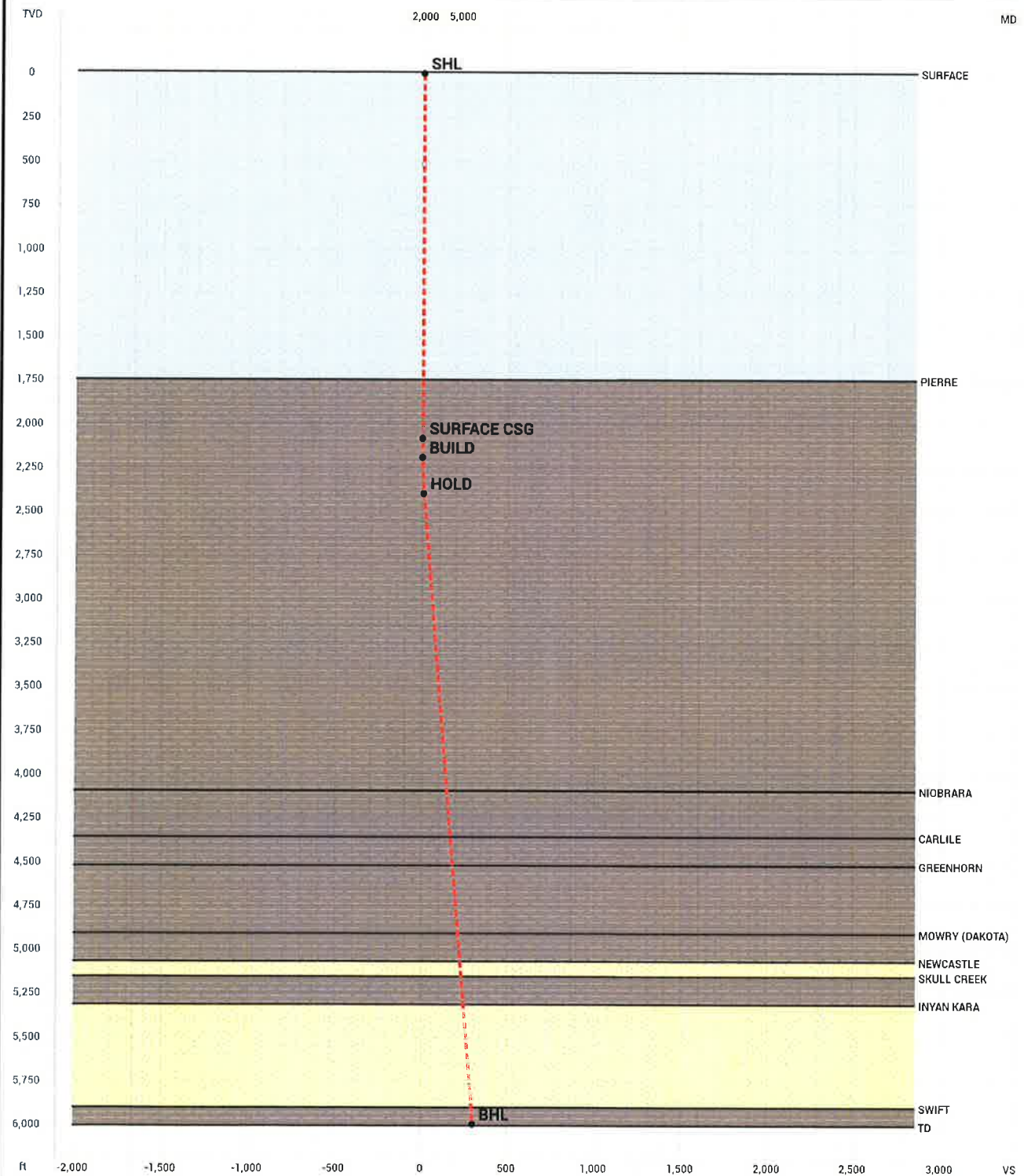
SHL: 537' FNL & 561' FWL, Lot 4 (NWNW), Section 2, T26N R59E, Roosevelt County, MT

VS Azi = 65.81°



$$VS\ Azi = 65.81^\circ$$

SLAWSON



Brigade 1-2 SWD



Datum Elevation: 2048.4' KB (2028.4' GL + 22' KB)

Planned Survey Report

SHL: 537' FNL & 561' FWL, Lot 4 (NWNW), Section 2, T26N R59E, Roosevelt County, MT

VS Azi 65.81°

Comment	MD	INCL	AZIM GN	TVD	N / S	E / W	Closure	CL Angle	TVDSS	VS	DLS
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00°	2048.40	0.00	0.0
Surface Csg	2082.00	0.00	0.00	2082.00	0.00	0.00	0.00	0.00°	-33.60	0.00	0.0
	2182.00	0.00	0.00	2182.00	0.00	0.00	0.00	0.00°	-133.60	0.00	0.0
Build	2192.64	0.00	0.00	2192.64	0.00	0.00	0.00	0.00°	-144.24	0.00	0.0
	2200.00	0.37	65.81	2200.00	0.01	0.02	0.02	65.81°	-151.60	0.02	5.0
	2250.00	2.87	65.81	2249.98	0.59	1.31	1.44	65.81°	-201.68	1.44	5.0
	2300.00	5.37	65.81	2299.84	2.06	4.58	5.03	65.81°	-251.44	5.03	5.0
	2350.00	7.87	65.81	2349.51	4.42	9.84	10.79	65.81°	-301.11	10.79	5.0
	2400.00	10.37	65.81	2398.87	7.67	17.07	18.71	65.81°	-350.47	18.71	5.0
Hold	2407.18	10.73	65.81	2405.93	8.20	18.27	20.02	65.81°	-357.53	20.02	5.0
	2500.00	10.73	65.81	2497.13	15.28	34.03	37.30	65.81°	-448.73	37.30	0.0
	2600.00	10.73	65.81	2595.38	22.91	51.00	55.91	65.81°	-546.98	55.91	0.0
	2700.00	10.73	65.81	2693.63	30.53	67.98	74.53	65.81°	-645.23	74.53	0.0
	2800.00	10.73	65.81	2791.88	38.16	84.96	93.14	65.81°	-743.48	93.14	0.0
	2900.00	10.73	65.81	2890.14	45.79	101.94	111.75	65.81°	-841.74	111.75	0.0
	3000.00	10.73	65.81	2988.39	53.41	118.92	130.36	65.81°	-939.99	130.36	0.0
	3100.00	10.73	65.81	3086.64	61.04	135.90	148.98	65.81°	-1038.24	148.98	0.0
	3200.00	10.73	65.81	3184.90	68.66	152.88	167.59	65.81°	-1136.50	167.59	0.0
	3300.00	10.73	65.81	3283.15	76.29	169.86	186.20	65.81°	-1234.75	186.20	0.0
	3400.00	10.73	65.81	3381.40	83.91	186.83	204.81	65.81°	-1333.00	204.81	0.0
	3500.00	10.73	65.81	3479.65	91.54	203.81	223.43	65.81°	-1431.25	223.43	0.0
	3600.00	10.73	65.81	3577.91	99.17	220.79	242.04	65.81°	-1529.51	242.04	0.0
	3700.00	10.73	65.81	3676.16	106.79	237.77	260.65	65.81°	-1627.76	260.65	0.0
	3800.00	10.73	65.81	3774.41	114.42	254.75	279.26	65.81°	-1726.01	279.26	0.0
	3900.00	10.73	65.81	3872.66	122.04	271.73	297.88	65.81°	-1824.26	297.88	0.0
	4000.00	10.73	65.81	3970.92	129.67	288.71	316.49	65.81°	-1922.52	316.49	0.0
	4100.00	10.73	65.81	4069.17	137.30	305.69	335.10	65.81°	-2020.77	335.10	0.0
	4200.00	10.73	65.81	4167.42	144.92	322.66	353.71	65.81°	-2119.02	353.71	0.0
	4300.00	10.73	65.81	4265.67	152.55	339.64	372.33	65.81°	-2217.27	372.33	0.0
	4400.00	10.73	65.81	4363.93	160.17	356.62	390.94	65.81°	-2315.53	390.94	0.0
	4500.00	10.73	65.81	4462.18	167.80	373.60	409.55	65.81°	-2413.78	409.55	0.0
	4600.00	10.73	65.81	4560.43	175.42	390.58	428.17	65.81°	-2512.03	428.17	0.0
	4700.00	10.73	65.81	4658.68	183.05	407.56	446.78	65.81°	-2610.28	446.78	0.0
	4800.00	10.73	65.81	4756.94	190.68	424.54	465.39	65.81°	-2708.54	465.39	0.0
	4900.00	10.73	65.81	4855.19	198.30	441.51	484.00	65.81°	-2806.79	484.00	0.0
	5000.00	10.73	65.81	4953.44	205.93	458.49	502.62	65.81°	-2905.04	502.62	0.0
	5100.00	10.73	65.81	5051.69	213.55	475.47	521.23	65.81°	-3003.29	521.23	0.0
	5200.00	10.73	65.81	5149.95	221.18	492.45	539.84	65.81°	-3101.55	539.84	0.0
	5300.00	10.73	65.81	5248.20	228.80	509.43	558.45	65.81°	-3199.80	558.45	0.0
	5400.00	10.73	65.81	5346.45	236.43	526.41	577.07	65.81°	-3298.05	577.07	0.0
	5500.00	10.73	65.81	5444.70	244.06	543.39	595.68	65.81°	-3396.30	595.68	0.0
	5600.00	10.73	65.81	5542.96	251.68	560.37	614.29	65.81°	-3494.56	614.29	0.0
	5700.00	10.73	65.81	5641.21	259.31	577.34	632.90	65.81°	-3592.81	632.90	0.0
	5800.00	10.73	65.81	5739.46	266.93	594.32	651.52	65.81°	-3691.06	651.52	0.0
	5900.00	10.73	65.81	5837.71	274.56	611.30	670.13	65.81°	-3789.31	670.13	0.0
	6000.00	10.73	65.81	5935.97	282.19	628.28	688.74	65.81°	-3887.57	688.74	0.0
	6053.14	10.73	65.81	5988.17	286.24	637.30	698.63	65.81°	-3939.77	698.63	0.0
BHL	6063.14	10.73	65.81	5998.00	287.00	639.00	700.49	65.81°	-3949.60	700.49	0.0

Brigade 1-2 SWD

Datum Elevation: 2048.4' KB (2026.4' GL + 22' KB)

SHL: 537' FNL & 561' FWL, Lot 4 (NWNW), Section 2, T26N R59E, Roosevelt County, MT

VS Azi = 65.81°



Drilling Program

1. Build and construct access road and location
2. Drill 20in hole and set 16in conductor pipe with conductor rig. Drill rathole/mousehole
3. MIRU Drilling Rig, RU Solids Control for closed loop mud system
4. Drill 13 1/2in surface hole to 2,082' MD/TVD with Fresh Water
5. Run and cement 10 3/4in 45.5# J-55 surface casing
6. MU 11" 5000 psi wellhead
7. NU BOP stack and pressure test to 5000 psi high and 250 psi low
8. Drill out with an 9 7/8in PDC bit and OBM
9. Build to 10.73° inclination and 65.81° azimuth for a kickout and drill to a TD at 6,063' MD / 5,998' TVD
10. Run Triple Combo open hole logs
11. Run and cement 7 5/8in 29.7# L-80 production casing
12. RDMO Drilling Rig

Mud Program

Recommended Drilling Fluid Properties

Interval	Depths (MD-feet)	Mud Type	Mud Weight (lbs/gal)	Viscosity @ 120° (sec/qt)
<u>Surface Hole</u>	0' - 2,082'	Fresh Water	8.3 - 8.8	28 - 34
*Run and cement 10 3/4in 45.5# J-55 surface casing				
<u>Production Hole</u>	2,082' - 6,063'	Oil Based	9.6 - 10.6	45 - 60
*Run and cement 7 5/8in 29.7# L-80 production casing				
*Important Note: Inyan Kara may be overpressured				



BRIGADE 1-2SWD PROPOSED COMPLETION PROCEDURE
NWNW S2-T26N-R59E
Roosevelt County, Montana

Well Information

Elevation: 2,026' GL & 2,048' KB

TMD: 6,063' TVD: 5,998'

Casing: 10-3/4" 45.5# J55 @ 2,082'. TOC: Surface.
7-5/8" 29.7# L80 @ 6,053'. TOC: 1000'.

Tubing: 5-1/2" 17# L80 BTC w IPC & Nickel coated Weatherford WH-6 injection packer @ 5,329'.

Perfs: Dakota Pool (Inyan Kara) 2SPF @ 5,369' - 5,966'

Completion Procedure

1. MIRU wireline, make gauge ring run to PBTD. Run GR, CBL & caliper log. Set CIBP on PBTD and pressure test to maximum anticipated frac pressure (approx. 5,500 psi).
2. Perforate Dakota (Inyan Kara) 2 SPF 5,369' – 5,966' as determined by logs.
3. MIRU workover rig, cleanout to PBTD if needed. PU Weatherford WH-6 Nickel coated packer & TIH. Land packer @ 5,329'. Roll backside w/ corrosion inhibitor. Set packer and pressure test to 1000 PSI for 15 minutes. Record pressure after 15 minutes. Note: this pressure must hold and be witnessed by MOOGC.
4. Swab well back, collect and analyze samples. Record FL and bbls swabbed per run. RDMO workover rig.
5. MIRU acid stimulation equipment and run acid job as designed. If injection results show under performance after acid job, then pull tbg, proceed with fracture stimulation and subsequent cleanout.
6. Turn well over to injection foreman.

4102 2nd Ave. West

ASTRO-CHEM LAB, INC.

Williston, North Dakota 58802-0972
P.O. Box 972

Don Smith

2pgs

Phone: (701) 572-7355

WATER ANALYSIS REPORT

SAMPLE NUMBER W-11-0111 DATE OF ANALYSIS 1-7-11
COMPANY Slawson Exploration Co., Inc.
CITY Denver STATE CO
WELL NAME AND/OR NUMBER Wilson 2-33 S.W.D.
DATE RECEIVED 1-7-11 DST NUMBER
SAMPLE SOURCE Wellhead (225 bbls swabbed)
LOCATION OF SEC. 3 TWN. 27N RANGE 59E COUNTY Roosevelt, MT
FORMATION Dakota DEPTH 5230-5630'
DISTRIBUTION Don Smith

RESISTIVITY @ 77°F = 0.531 Ohm-Meters pH = 7.06

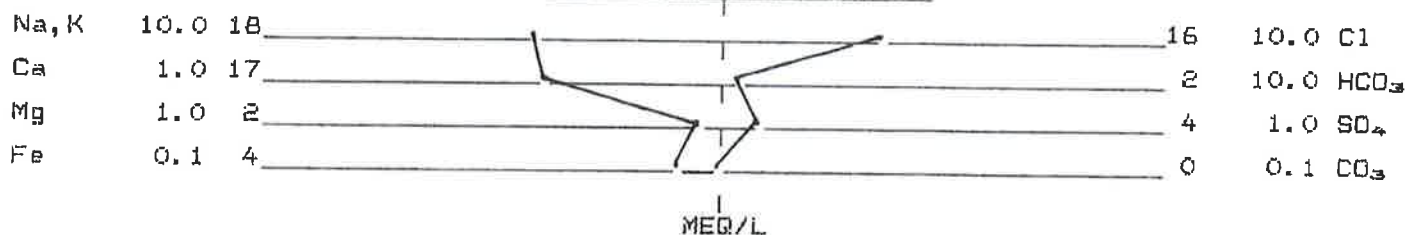
SPECIFIC GRAVITY @ 77°F = 1.005 H₂S = Negative

TOTAL DISSOLVED SOLIDS (CALCULATED) = 11807 mg/L (11748 ppm)

SODIUM CHLORIDE (CALCULATED) = 9429 mg/L (9382 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	16.7	331	CHLORIDE	161.3	5718
MAGNESIUM	1.7	19	CARBONATE	0.0	0
SODIUM	174.0	4000	BICARBONATE	22.8	1391
IRON	0.4	6.9	SULFATE	4.5	215
CHROMIUM	0.0	0.1	NITRATE	0.0	0
BARIUM	0.0	0.6			
POTASSIUM	3.2	125			

WATER ANALYSIS PATTERN



REMARKS Sampled 1-7-11 (2:00 PM)



ANALYZED BY: C. Jungels

ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

Williston, North Dakota 58802-0972
P.O. Box 972

Phone: (701) 572-7355

WATER ANALYSIS REPORT

SAMPLE NUMBER W-11-0110 DATE OF ANALYSIS 1-7-11
COMPANY Slawson Exploration Co., Inc.
CITY Denver STATE CO
WELL NAME AND/OR NUMBER Willson 2-33 S.W.D.
DATE RECEIVED 1-7-11 DST NUMBER
SAMPLE SOURCE Wellhead (125 bbls swabbed)
LOCATION OF SEC. 3 TWN. 27N RANGE 59E COUNTY Roosevelt, MT
FORMATION Dakota DEPTH 5230-5120'
DISTRIBUTION Don Smith

RESISTIVITY @ 77°F = 0.326 Ohm-Meters pH = 6.81

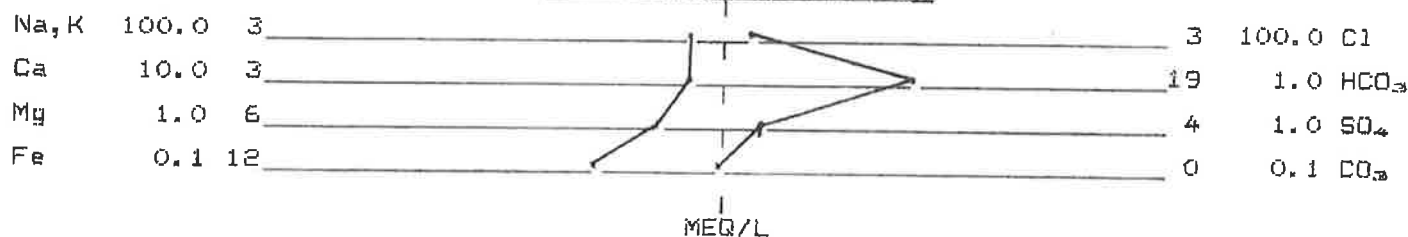
SPECIFIC GRAVITY @ 77°F = 1.015 H₂S = Negative

TOTAL DISSOLVED SOLIDS (CALCULATED) = 19332 mg/L (19046 ppm)

SODIUM CHLORIDE (CALCULATED) = 17174 mg/L (16920 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	28.0	556	CHLORIDE	293.8	10413
MAGNESIUM	6.0	67	CARBONATE	0.0	0
SODIUM	287.1	6600	BICARBONATE	19.0	1159
IRON	1.2	22.3	SULFATE	4.5	215
CHROMIUM	0.0	0.1	NITRATE	0.0	0
BARIUM	0.0	1.4			
POTASSIUM	7.6	297			

WATER ANALYSIS PATTERN



REMARKS Sampled 1-7-11 (2:15 PM)

ANALYZED BY: C. Jungels

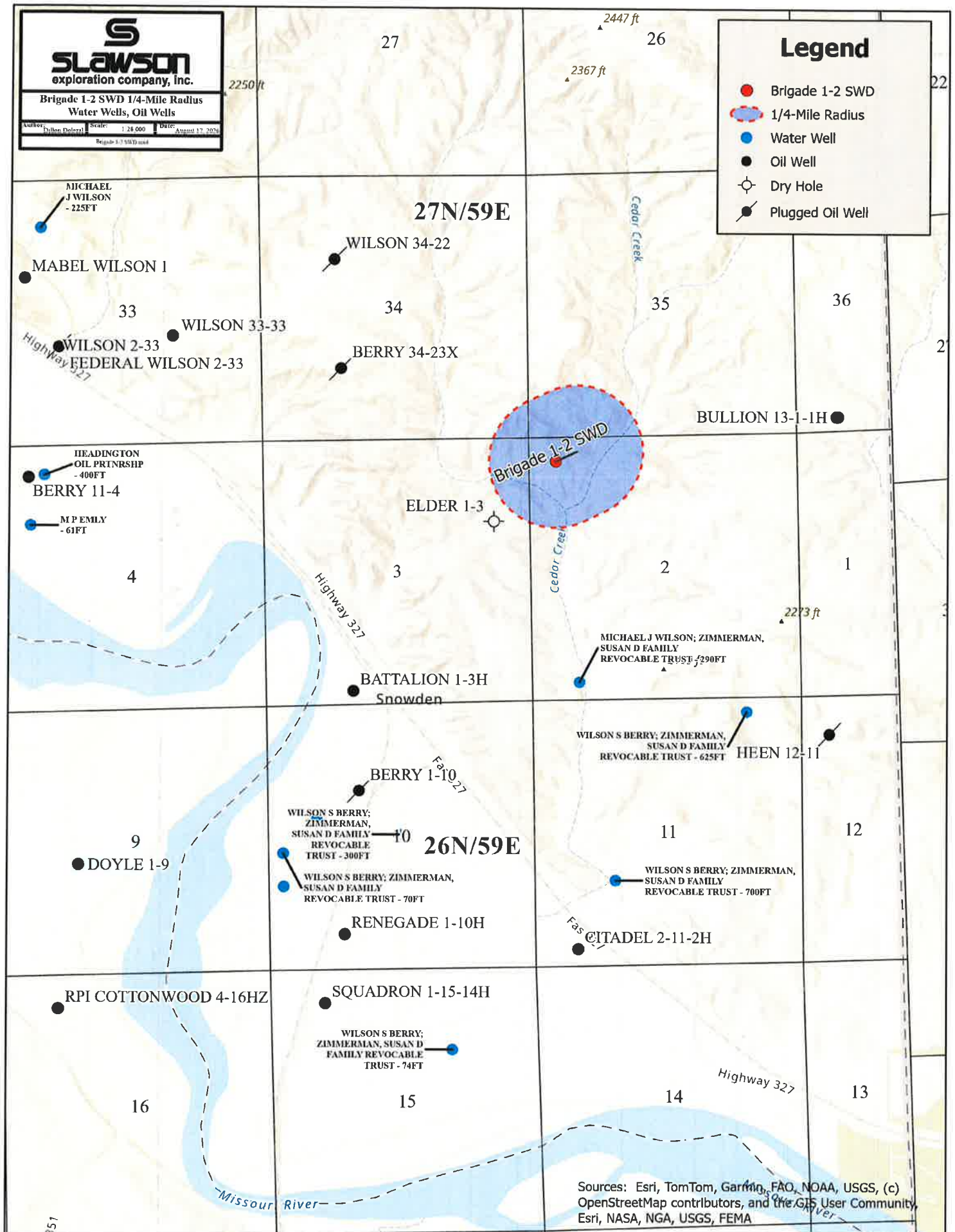


Brigade 1-2 SWD 1/4-Mile Radius
Water Wells, Oil Wells

Author: Thyllon Dolezal Scale: 1:28,000 Date: August 17, 2026
Brigade 1-2 SWD and

Legend

- Brigade 1-2 SWD
- 1/4-Mile Radius
- Water Well
- Oil Well
- Dry Hole
- Plugged Oil Well



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Esri, NASA, NGA, USGS, FEMA

