



January 7, 2026

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

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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Attn: Mr. John Gizicki
UIC Program Manager

RE: Application for UIC Permit and Authorization to Drill a Class II Injection Well
Location of proposed Disposal Well & Facility: Jaws SWD 1
Surface Hole Location: NE1/4 SE1/4, Section 5, Township 22N, Range 59W. P.M.M.
Bottom Hole Location: NE1/4 SW1/4, Section 4, Township 22N, Range 59W. P.M.M.
Richland County, Montana

Dear Mr. Gizicki,

MorningStar Operating, LLC (MorningStar) respectfully requests approval of an Underground Injection Control (UIC) permit for the referenced location and as described in the attached application. MorningStar has submitted an Application for Permit to Drill (APD) for the above reference well.

MorningStar has provided notice to the appropriate parties within 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 February 12, 2026. A public legal notice has been published in the Helena Independent Record and the Sidney Herald, publication dates January 3, 2026, and evidence and proof of publication is included in the UIC Application Exhibits.

If you have any questions concerning the enclosed application, please contact myself at (435) 789-1017 or to Erin Donovan with MorningStar Operating, LLC at (817) 334-7871.

Sincerely,

Amy Doebele
Authorized Agent for MorningStar Operating LLC
UELS, LLC

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Underground Injection Control Application

Jaws SWD 1

Section 5 of T22N-R59E

Richland County, Montana

Board of Oil and Gas Conservation

Of the State of Montana

Docket No: TBD

February 12, 2026



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Underground Injection Control (UIC) Permit Application

Jaws SWD 1 Injection

The following report and justification are submitted in support of the application by MorningStar Operating, LLC to permit the conversion of the Jaws SWD 1, which is a shut in Bakken producer, for the purpose of water injection into the Dakota/Lakota, as required by Rule 36.22.1403 of the Rules and Regulations of the Montana Board of Oil and Gas Conservation.

1 (a) Location of Injection Well:

The Jaws SWD 1 well is herein proposed for drilling and completion as a water injection well within the Wildcat, Richland Field in Richland County, Montana as described below. Exhibit 1 shows the surface location and a circle of a quarter (1/4) mile or 1,320 feet radius representing the area of review (AOR) for this well at the SHL, along the wellbore, and the BHL.

Well Name	Footage Calls	Section Calls
Jaws SWD 1	2387' FSL, 1037' FEL	NESE of Sec 5 of T22N R59E

1 (b) Location and Mechanical Condition of Wells within a Quarter Mile (1,320 feet) Area of Review (AOR) which Penetrate Injection Zone:

There are currently no oil wells within the AOR. There are 4 planned horizontal Middle Bakken wells to be drilled from the same pad as the Jaws SWD 1. The proposed Middle Bakken wells will have 7-inch casing through the proposed disposal zone of the wellbores. Top of cement for the 4 locations will cover the proposed disposal zone, and a CBL will be run to confirm TOC on each.

Well Name	Target	Operator	Distance to Proposed Conversion (ft)
Hammerhead 1H	Middle Bakken	MorningStar	70
Hammerhead 2H	Middle Bakken	MorningStar	35
Hammerhead 3H	Middle Bakken	MorningStar	35
Hammerhead 4H	Middle Bakken	MorningStar	70

There is one producing well with a lateral penetrating the AOR at around 10,120' TVD in the Middle Bakken, the Andersen 1-4H (SESE of Sec 4 of T22N R59E), operated by MorningStar Operating, whose surface hole is located 4042 feet to the east of the nearest point of the proposed SWD.

1 (c) Location of all pipelines which will be used to transport fluids to the well:

The Jaws SWD 1 surface facilities will be constructed on the same pad as 4 proposed Middle Bakken horizontal wells. Fluids from the 4 proposed locations will be flow-lined to the Jaws SWD 1.



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When this occurs, the line will be flushed with freshwater first and pressure tested prior to use. Meters will be assigned to all associated sites to verify shipment and injection water volumes are aligned. Produced water from other Bakken MorningStar Operating wells may be delivered to the location by truck.

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

The Middle Bakken oil and gas zone is the producing formation within the ¼ mile AOR. The Middle Bakken produces at a depth of 10,120' TVD within the AOR. Although not within the area of review, the closest wells with surface locations within ½ mile of the Jaws SWD 1 are described.

The Simonsen 44X-5 (SESE, Section 5 of T22N R59E) is a producing well located 2100 feet south of the proposed SWD. The Simonsen 44X-5 was drilled in 2006 as a horizontal development in the Middle Bakken. Surface casing was set at 1562' MD and cemented with 515 sacks.

Within the same ½ mile area, the Dige 6-4 (SENW, Section 4 of T22N R59E) is a producing well located 1550 feet north of the proposed SWD. The Dige 6-4 was drilled in 1981 as a vertical development in the Mission Canyon. Surface casing was set at 1710' MD and cemented with 870 sacks.

There is one producing well with a lateral penetrating the ½ mile area at around 10,110' TVD in the Middle Bakken, the Sonny 24X-16BXC (SESW of Section 16 of T22N R59E), whose surface hole is located 11350 feet to the south of the nearest point of the proposed SWD.

Fresh water well data was obtained from the Ground Water Information Center (MBMG Data Center) website [https:// https://mbmggwic.mtech.edu/](https://mbmggwic.mtech.edu/). There are 9 freshwater wells which are active and 1 abandoned water well within the AOR of the proposed injector. Water wells located within the AOR of the planned Jaws SWD 1 have been drilled no deeper than 50 feet. See Exhibit 2 for their location.

Well Name	GWIC ID	Location	Use	Distance from Proposed SWD SH (ft)	Total Depth (ft)
Ruffato Quinto	35800	Sec 5, T22N, R59E 47.694504, -104.166664	Domestic, Irrigation	361	39
The Depot	35801	Sec 5, T22N, R59E 47.6959, -104.1696	Public Water Supply	757	41
Fisher Land Develop.	35802	Sec 5, T22N, R59E 47.69543, -104.17074	Unknown	901	41
The Sunrise Inn	165556	Sec 5, T22N, R59E 47.6951, -104.1702	Public Water Supply	781	38
Sunrise Motel	254900	Sec 5, T22N, R59E 47.6953, -104.1697	Commercial	645	43



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Sunrise Motel	254901	Sec 5, T22N, R59E 47.6947, -104.17	Commercial	769	43
B And B Rentals	258730	Sec 5, T22N, R59E 47.694504, -104.172099	Domestic	1287	35.5
B & B Rentals	259050	Sec 5, T22N, R59E 47.694967, -104.164627	Domestic (abandoned)	630	37
J Varhesselt	700592	Sec 5, T22N, R59E 47.698, -104.1711	Domestic, Stockwater	1320	15
Cemetery	700589	Sec 4, T22N, R59E 47.698, -104.1605	Domestic	1766	20

There is a very thin Glacial Till near the surface in this area, which normally does not produce much water.

There are Quaternary-aged gravel sediments with water production normally less than 50 feet from the surface. There have been several shallow water wells drilled for stock water, domestic, commercial, and public water supply use that appear to be in this zone within the ¼ mile AOR. There is a water quality sample taken at the Richland County Conservation District-Sid 1 well (GWIC ID 239138) in section 5 of T22N, R59E. Total dissolved solids for this water well located approximately half a mile NW of the Jaws SWD 1 were 685 ppm (see Exhibit 3 for full analysis).

There is an upper member of the Fort Union, the Tongue River, with water production normally less than 100 feet from the surface. There are 2 identified water wells drilled for domestic use that appear to be in this zone within the AOR.

The Hell Creek and Fox Hills zones act as potential sources of freshwater as well. The depth to the Fox Hills-Lower Hell Creek Aquifer is approximately 1200 feet at the Jaws SWD 1 per mapping work by Larry Smith entitled "Depth to the Fox Hills-Lower Hell Creek Aquifer, Lower Yellowstone River Area" published in MBMG's GWAA- Montana Ground-Water Assessment Atlas (1-B-03), 1998. Surface casing in the Jaws SWD 1 will be cemented to the surface in the wellbore to protect these shallow freshwater zones. There are no wells that produce from the Hell Creek within the ¼ AOR.

Any potential Underground Sources of Drinking Water (USDW) are protected from the proposed injection zone by surface casing set in the Jaws SWD 1 to a minimum depth of 1600' MD and cemented to surface. Subsequent intermediate 7-inch casing will also be set and cemented. A CBL will be run to document the TOC depth. Tubing and an injection packer will result in further isolation of fresh USDW from produced water.

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

DAKOTA AND LAKOTA SANDSTONE DESCRIPTION

The Jaws SWD 1 will be completed for disposal into the Dakota and Lakota formations. The Dakota/Lakota in this well is comprised of fine to medium grained sandstone deposited in a channel environment as part of the Cretaceous system.



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Formation	Lithology	Est. TVD Top (ft)	Est. TVD Base (ft)	Est. TVT Net pay (ft)	Est. Pressure (PSI)	Est. Porosity
Dakota	Sandstone	5005	5441	76	2250	22%
Lakota	Sandstone	5441	5515	16	2400	22%

Depth and net pay for each of the proposed injection zones are estimated from the Cement Bond Log with Gamma Ray ran April 30, 2006, on the Simonsen 44X-5. The porosity is based on sonic log estimates from the Becker 8-4 (1 mile east). The porosity was derived from a sonic log curve calculated using a consolidated sandstone matrix. Formation pressure was estimated using a water gradient of 0.435 psi/ft.

The upper confining formation for the proposed injection zone is the Cretaceous Skull Creek formation. It is comprised of clastic, shallow marine deposits composed of medium-dark gray shales, calcareous, micaceous, and glauconitic in part, interbedded with siltstones. The Skull Creek is 150 feet thick in this area.

The lower confining formation for the proposed injection zone is the Jurassic Morrison, Swift, and Rierdon formations. The aforementioned formations lie unconformably immediately below the Lakota and are primarily made up of transgressive-regressive, clastic, shallow marine deposits composed of dark gray-green shales, slightly calcareous, dark gray-green, waxy shales and is commonly interbedded with glauconitic siltstones and sandstones with occasional carbonate packstones and grainstones. The lower confining interval is approximately 702 feet of impermeable rock facies.

The actual fracture gradients for these confining zones are unknown, but fracture gradients for the confining shale layers are known to be higher than those for the underlying sandstone injection zone.

Formation	Lithology	Est. TVD Top (ft)	Est. TVD Base (ft)	Thickness (ft)
Skull Creek	Shale	4855	5005	150
Mrsn/Swft/Rrdn	Shale	5515	6217	702

Considering the vertical distance to any USDW and the maximum feasible injection rate that could occur, the likelihood of a fracture extending from the proposed disposal zone to any USDW under any reasonable disposal conditions is considered low.

For proposed injection interval see Exhibit 4: Cross Section, Exhibit 5: Log of Injection Interval, and Exhibit 6: Water Analysis of Injection Intervals.

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

Although not within the ¼ mile AOR, the Simonsen 44X-5 is an active Middle Bakken horizontal, operated by MSO, within ½ mile of the proposed SWD. Surface casing was run to 1562' MD and cemented back to surface.



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Also, not within the ¼ mile AOR, the Dige 6-4 is an active Mission Canyon vertical well, operated by Stalking Horse Energy, within ½ mile of the proposed SWD. Surface casing was run to 1710' MD and cemented back to surface.

1 (g) Open Hole Logs:

The Jaws SWD 1 will be a new drill SWD. The logging program will consist of a CBL/CCL/GR log run from TD to surface during the completion of the well. Any logs and test data run on the Jaws SWD 1 will be supplied to the MBOGC.

1 (h) Description of the Wellbore Construction:

The MorningStar's proposed configuration of the wellbore is as indicated on Exhibit 7. The proposal will have surface casing run to a minimum depth of 1600' MD and cemented back to surface. This will be followed by a 7" intermediate casing run approximately 50 feet into the Dakota formation at +/- 5053' TVD/5066' MD in the curve and cemented to surface. Then an approximate 2,500-foot lateral will be drilled, and an uncemented 4.5" slotted liner will be run to TD at +/- 5450' TVD/7566' MD. Pressure testing of the wellbore will be conducted. Nickel plated packer and lined injection tubing will be utilized to mitigate corrosion. Packer fluid will be circulated behind the injection string in the 4.5"x7" annulus to also protect from corrosion. A water sample will be collected for reservoir analysis.

The primary interval proposed for disposal will be the Dakota/Lakota. This interval will likely be treated with a 15% HCL stimulation with rock salt diverter. A water sample will be collected for reservoir analysis.

See Exhibit 8 for the proposed directional plan and Exhibit 9 for the proposed completion procedure.

1 (i) Description of Injection Fluid:

The fluid to be injected will consist entirely of water produced from the Bakken formation from the shared-pad MorningStar wells. The anticipated injection volumes will be in the range of 3,000 to 10,000 BWPD. Actual injection rates may vary. Volumes will be determined by the injection capacity tested during the Step-Rate test. Exhibit 9 is a representative analysis of Bakken formation water chemistry. No incompatibilities are expected.

Surface injection pressures will not be allowed to exceed a maximum set by MBOGC. Using the EPA accepted fracture gradient of 0.733 psi/ft and the following equation, an estimated maximum injection pressure is as follows:



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$$IP_{max} = (FG) \cdot (D_{top}) - (SG) \cdot (0.433) \cdot (D_{top})$$

Where: IP_{max} = Maximum Surface Injection Pressure (psi)
 FG = Assumed Fracture Gradient in Confining Zone = 0.733 psi/ft
 SG = Specific Gravity of Injection Fluid = 1.17
 D_{top} = Depth at top of perforated interval of injection zone (ft) = 5005

The computed maximum injection pressure would be:

$$= (0.733) \cdot (5005) - (1.17) \cdot (0.433) \cdot (5005) = 1133 \text{ psi} = IP_{max}$$

The computed maximum injection pressure for the Dakota/Lakota sand is 1133 psi. An injection step-rate test will be performed to determine the final injection pressures and volumes to ensure the formation parting pressure (i.e. fracture pressure) is not reached during injection operations.

1 (j) Names and addresses of the leasehold owners, including unleased mineral owners, and the surface owners within the area of review of the input well(s):

The names and addresses of lease hold and surface owners within the area of review for the proposed injection well are listed in Exhibit 10.

MorningStar Operating, LLC will notify leasehold owners, surface owners, and unleased minerals in accordance with 36.22.1410(1) notification requirements for an underground injection permit. Affidavit of Notification of Surface and Mineral Owners along with an example of the mailed notice is attached in Exhibit 11.



List of All Exhibits

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- | | |
|-------------------|--|
| Exhibit 1 | Map of General Area |
| Exhibit 2 | Map of Fresh Water Wells within Area of Review (AOR) |
| Exhibit 3 | Fresh Water Sample Analysis |
| Exhibit 4 | Geologic Cross Section of the Proposed Injection and Confining Intervals |
| Exhibit 5 | Log of Injection Interval |
| Exhibit 6 | Water Analysis of Injection Interval |
| Exhibit 7 | Proposed Wellbore Diagram |
| Exhibit 8 | Directional Plan |
| Exhibit 9 | Bakken Water Analysis |
| Exhibit 10 | Surface and Mineral Owner List |
| Exhibit 11 | Affidavit of Notification to Surface and Mineral Owners |
| Exhibit 12 | Affidavit of Publication in Sidney Herald & Helena Independent Record |

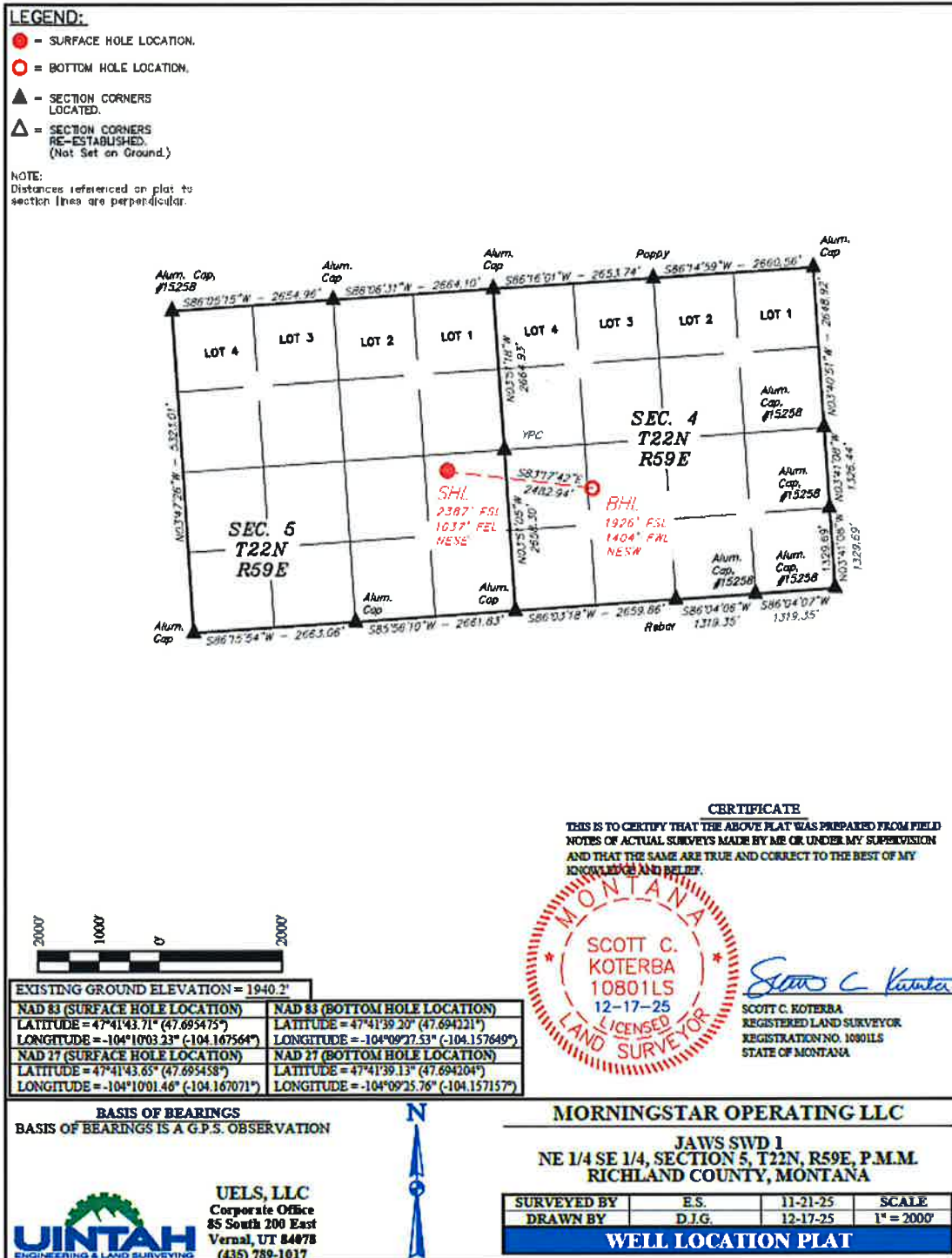


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Map of General Area
Jaws SWD 1
Section 5 of T22N-R59E
Richland County, Montana

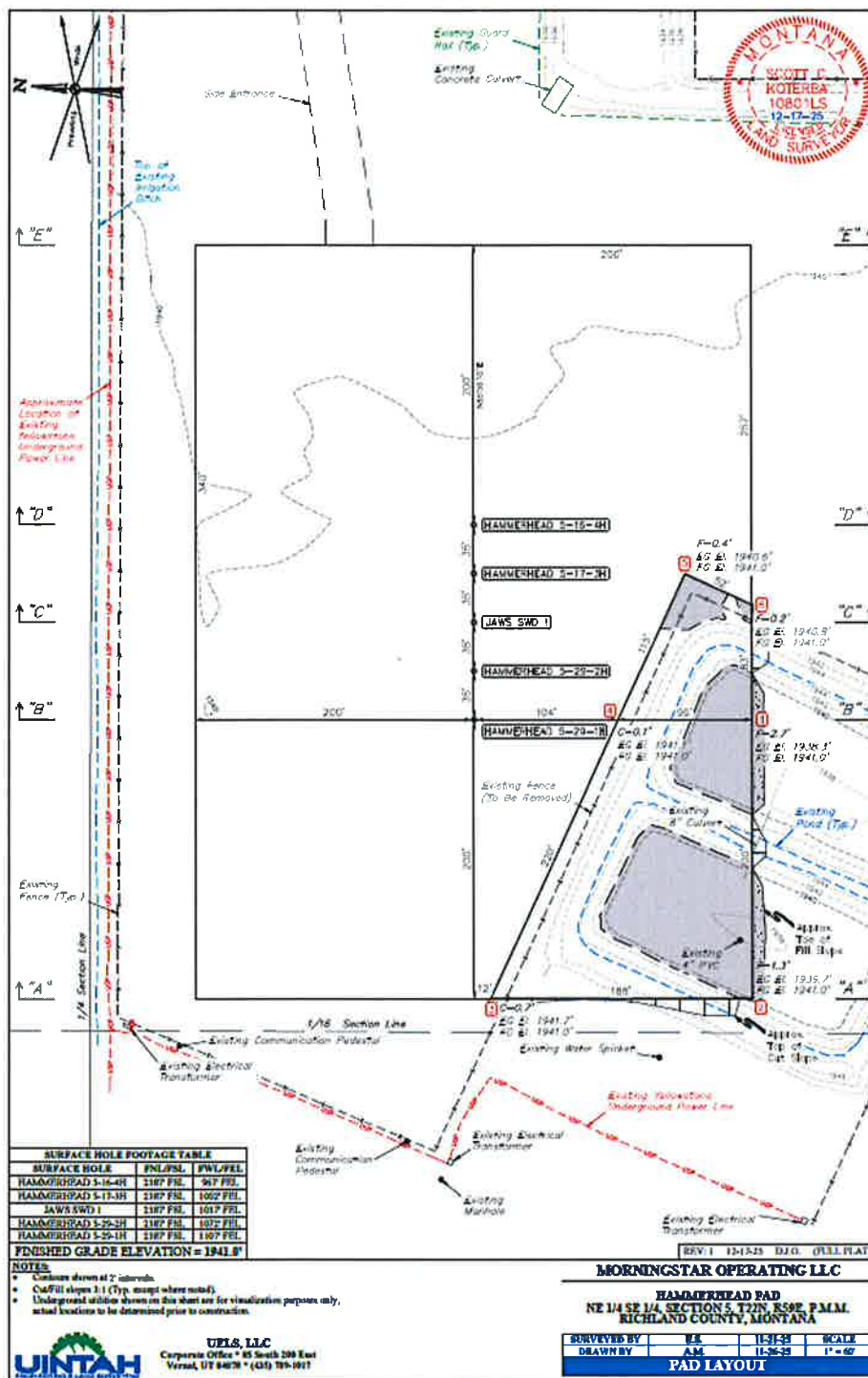


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Map of Pad Layout
Jaws SWD 1
Section 5 of T22N-R59E
Richland County, Montana

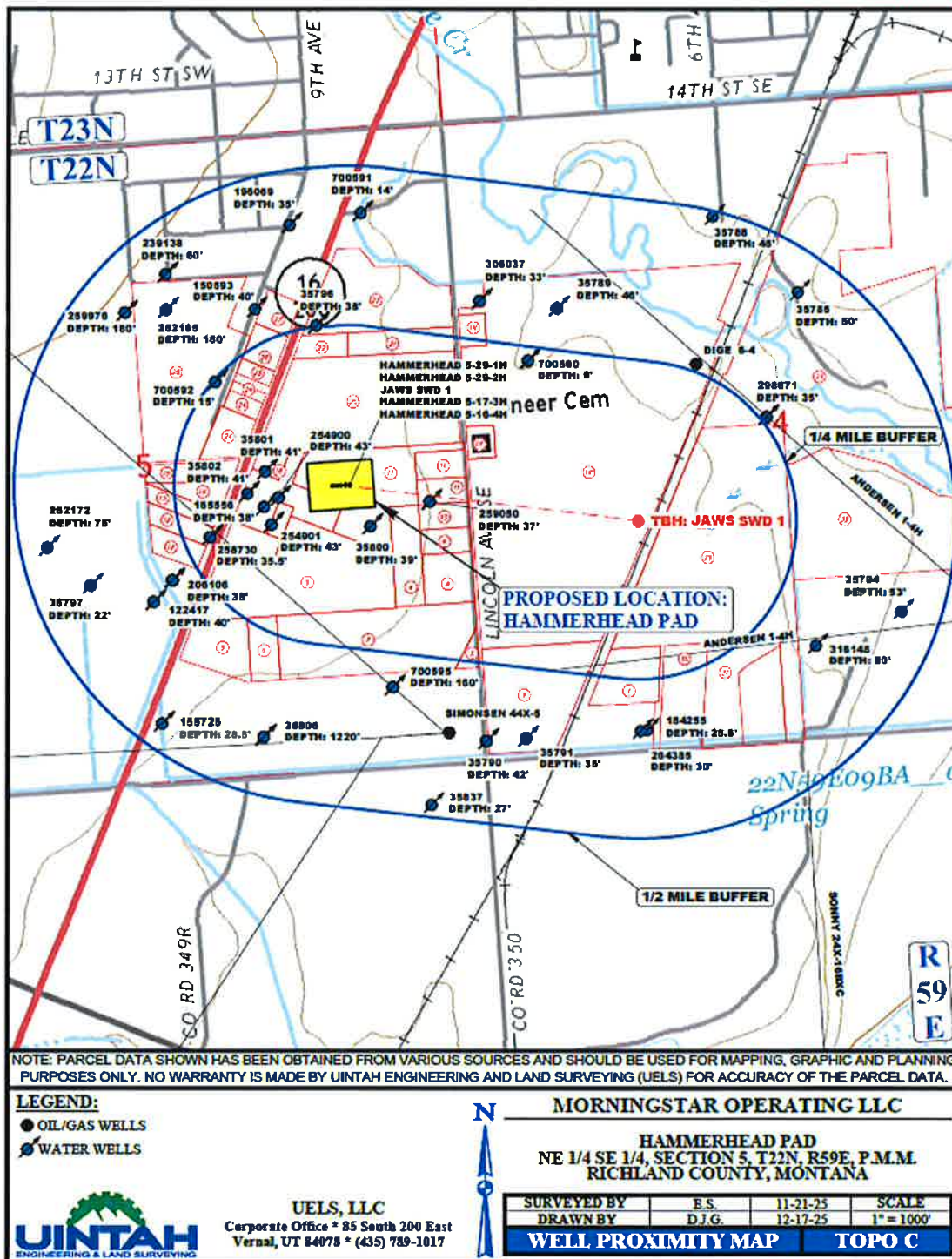


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Map of 1/4 mile AOR and Freshwater Wells

Jaws SWD 1

Section 5 of T22N-R59E

Richland County, Montana



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Freshwater Sample Analysis

Jaws SWD 1

Richland County, MT

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12/16/25, 4:59 PM

Montana's Ground-Water Information Center (GWIC) | Analysis Report | V.12.2025

Ground-Water Information Center Water Quality Report

Report Date: 12/16/2025

Site Name: RICHLAND COUNTY CONSERVATION DISTRICT-SID 1

[Compare to Water Quality Standards](#)

Location Information

Sample Id/Site Id: 2008Q0369 / 239138
Location (TRS): 22N 59E 05 ABCC
Latitude/Longitude: 47° 42' 1" N 104° 10' 22" W
Datum: NAD83
Altitude: 1949.4
County/State: RICHLAND / MT
Site Type: WELL
Geology: 1105NGR
USGS 7.5' Quad:
PWS Id:
Project: LYBC

Sample Date: 3/12/2008 11:30:00 AM
Agency/Sampler: MBMG / JCR
Field Number: 239138
Lab Date: 4/1/2008
Lab/Analyst: MBMG / WO
Sample Method/Handling: PUMPED / 3210
Procedure Type: DISSOLVED
Total Depth (ft): 38
SWL-MP (ft): 16.04
Depth Water Enters (ft): 38

Major Ion Results

	mg/L	meq/L		mg/L	meq/L
Calcium (Ca)	71.900	3.588	Bicarbonate (HCO3)	409.500	6.712
Magnesium (Mg)	59.600	4.904	Carbonate (CO3)	0.000	0.000
Sodium (Na)	69.600	3.028	Chloride (Cl)	28.200	0.796
Potassium (K)	6.530	0.167	Sulfate (SO4)	226.000	4.708
Iron (Fe)	0.005	0.000	Nitrate (as N)	0.283	0.020
Manganese (Mn)	0.120	0.004	Fluoride (F)	0.226	0.012
Silica (SiO2)	20.800		Orthophosphate (as P)	<0.05	0.000
Total Cations		11.741	Total Anions		12.247

Trace Element Results (µg/L)

Aluminum (Al):	<2.0	Cesium (Cs):	<0.1	Molybdenum (Mo):	<10.0	Strontium (Sr):	1,043.000
Antimony (Sb):	<0.1	Chromium (Cr):	1.700	Nickel (Ni):	<2.0	Thallium (Tl):	NR
Arsenic (As):	4.580	Cobalt (Co):	1.030	Niobium (Nb):	14.200	Thorium (Th):	<0.05
Barium (Ba):	39,200	Copper (Cu):	1.620	Neodymium (Nd):	<0.1	Tin (Sn):	<0.1
Beryllium (Be):	<0.1	Gallium (Ga):	0.340	Palladium (Pd):	<0.2	Titanium (Ti):	<1.0
Boron (B):	280.000	Lanthanum (La):	<0.1	Praseodymium (Pr):	<0.1	Tungsten (W):	<0.5
Bromide (Br):	<100	Lead (Pb):	<0.2	Rubidium (Rb):	12.300	Uranium (U):	7.740
Cadmium (Cd):	<0.1	Lithium (Li):	29.000	Silver (Ag):	<0.05	Vanadium (V):	2.550
Cerium (Ce):	<0.1	Mercury (Hg):	NR	Selenium (Se):	3.300	Zinc (Zn):	3.860
						Zirconium (Zr):	1.080

Field Chemistry and Other Analytical Results

**Total Dissolved Solids (mg/L):	685.48	Field Hardness as CaCO3 (mg/L):	NR	Ammonia (mg/L):	NR
**Sum of Diss. Constituents (mg/L):	893.51	Hardness as CaCO3:	424.85	T.P. Hydrocarbons (µg/L):	NR
Field Conductivity (µmhos):	966	Field Alkalinity as CaCO3 (mg/L):	NR	PCP (µg/L):	NR
Lab Conductivity (µmhos):	1061	Alkalinity as CaCO3 (mg/L):	336.27	Phosphorus, TD (mg/L):	<0.05
Field pH:	7.57	Ryznar Stability Index:	6.773	Field Nitrate (mg/L):	NR
Lab pH:	7.46	Sodium Adsorption Ratio:	1.4777	Field Dissolved O2 (mg/L):	0.400
Water Temp (°C):	9.4	Langlier Saturation Index:	0.343	Field Chloride (mg/L):	NR
Air Temp (°C):	9	Nitrite (mg/L as N):	<0.05	Field Redox (mV):	30.7
Nitrate + Nitrite (mg/L as N):	NR	Hydroxide (mg/L as OH):	NR	Lab, Dissolved Organic Carbon (mg/L):	NR
Total Kjeldahl Nitrogen (mg/L as N):	NR	Lab, Dissolved Inorganic Carbon (mg/L):	NR	Lab, Total Organic Carbon (mg/L):	NR
Total Nitrogen (mg/L as N):	NR	Acidity to 4.5 (mg/L CaCO3):	NR	Acidity to 8.3 (mg/L CaCO3):	NR
As(III) (ug/L):	NR	As(V) (ug/L):	NR	Total Susp Solids (mg/L):	NR

Sample Condition: CLEAR. WELL PRODUCED A LOT OF SAND.

Field Remarks:

Lab Remarks:

Explanation: mg/L = milligrams per Liter; µg/L = micrograms per Liter; ft = feet; NR = No Reading in GWIC

Qualifiers: J = Estimated quantity above detection limit but below reporting limit; P = Preserved sample; S = Method of standard additions; U = Undetected quantity below detection limit; * = Duplicate analysis not within control limits; ** = Sum of Dissolved Constituents is the sum of major cations (Na, Ca, K, Mg, Mn, Fe) and anions (HCO3, CO3, SO4, Cl, SiO2, NO3, F) in mg/L. Total Dissolved Solids is reported as equivalent weight of evaporation residue.

Disclaimer

These data represent the contents of the GWIC databases at the Montana Bureau of Mines and Geology at the time and date of the retrieval. The information is considered unpublished and is subject to correction and review on a daily basis. The Bureau warrants the accurate transmission of the data to the original end user. Retransmission of the data to other users is discouraged and the Bureau claims no responsibility if the material is retransmitted.



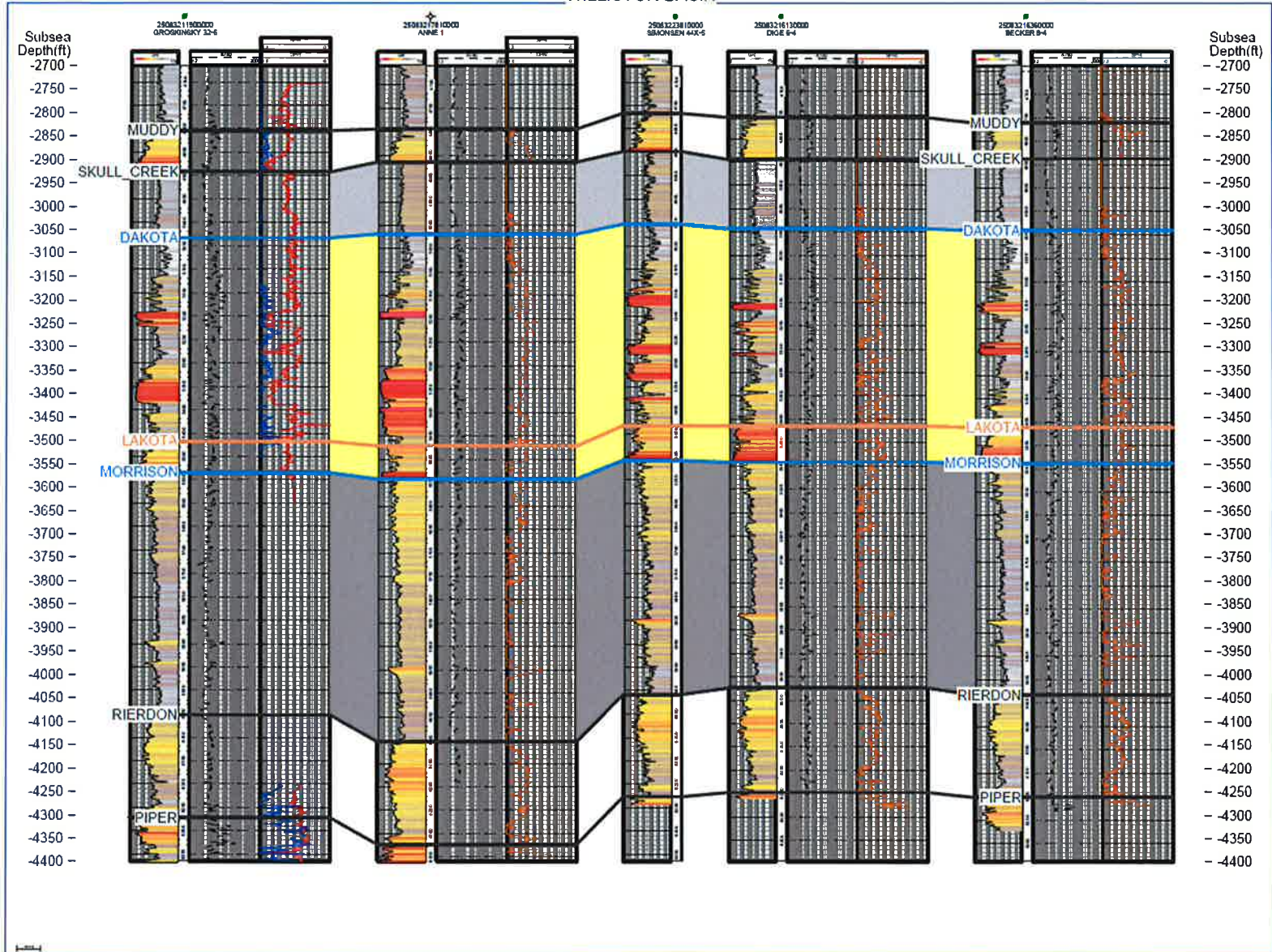
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WILLISTON BASIN



Cross Section
Jaws SWD 1
Section 5 of T22N-R59E
Richland County, Montana

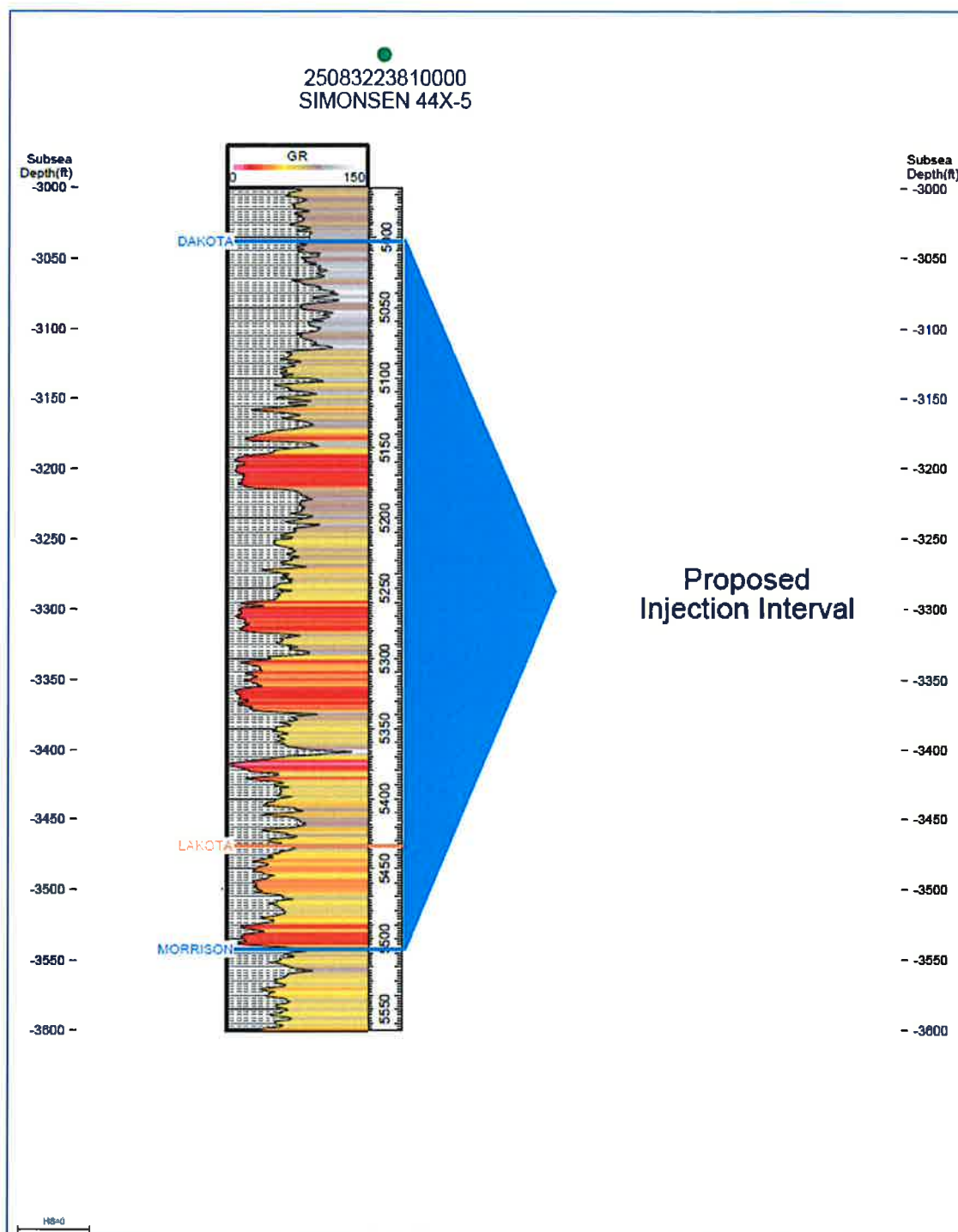


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Log of Injection Interval
Jaws SWD 1
Section 5 of T22N-R59E
Richland County, Montana



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Water Analysis of Injection Interval- Lower Dakota
Jaws SWD 1
Richland County, MT

SATHE ANALYTICAL LABORATORY, INC.

301 W. 2ND STREET

P.O. BOX 1527
WILLISTON, ND. 58801

701 572-3612

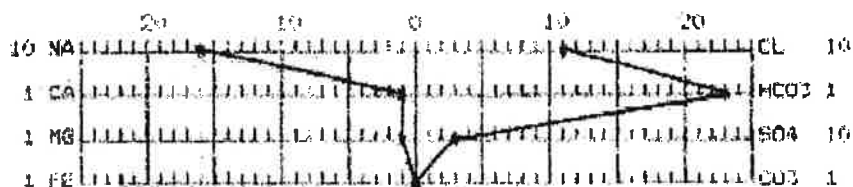
WATER ANALYSIS REPORT

OPERATOR: ENERPLUS RESOURCES L.P. DATE: 4/7/09
WELL NO.: LONE TREE EDNA 1-12 LAB NO.: W-07-1694
FIELD: not listed FORMATION: Lower Dakota
COUNTY: Richland INTERVAL: 3844 - 3864'
STATE: MT DST #:
LOC: not listed SAMPLE 11TH SWAB RUN-TOTAL 105 BBLs

CATIONS	MG/L	MEG/L	ANIONS	MG/L	MEQ/L
SODIUM	3580.0	158.7	CHLORIDE	3766.1	106.2
CALCIUM	29.6	1.5	CARBONATE	0.0	0.0
MAGNESIUM	11.4	0.9	BICARBONATE	1415.7	25.2
IRON	0.5	0.0	SULFATE	1532.2	31.9
POTASSIUM	17.4	0.4	NITRATE	0.0	0.0
BARIUM	0.0	0.0			
CHROMIUM	0.0	0.0			

SPECIFIC GRAVITY @ 77°F 1.000 PH 7.55
RESISTIVITY @ 77°F, ohm-meters 0.912 MG/L (Calc.) 6210.2
TOTAL DISSOLVED SOLIDS (Calc.) MG/L 10505.5 HYDROGEN SULFIDE #MG

WATER ANALYSIS PATTERN - MEQ/L



REMARKS - 11th RUN SWAB - TOTAL 105 BBL 4/24/09.
Received 4/7/09.

DISTRIBUTION OF RESULTS
Rocky Gorden -- Sidney MT.
Lynn Sundby -- Halliburton - Williston ND.



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Water Analysis of Injection Interval- Upper Dakota
Jaws SWD 1
Richland County, MT

SATHE ANALYTICAL LABORATORY, INC.

301 W. 2ND STREET

P.O. BOX 1527
WILLISTON, ND. 58801

701-572-3632

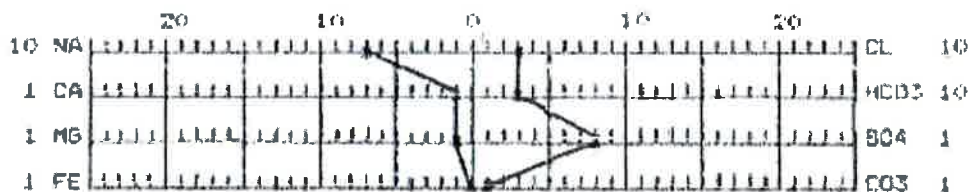
WATER ANALYSIS REPORT

OPERATOR: ENERPLUS L.P. DATE: 4/8/09
WELL NO. LONE TREE EDNA 1-12 LAB NO.: W-09-1705
FIELD: not listed FORMATION: Upper Dakota
COUNTY: Richland INTERVAL: 5588-5608
STATE: MT DST #:
LOC: not listed SAMPLE RUN #16-SAMPLE 130 BBLS BACK

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
SODIUM	1680.0	73.1	CHLORIDE	1114.7	31.4
CALCIUM	14.0	0.7	CARBONATE	31.5	1.1
MAGNESIUM	7.6	0.7	BICARBONATE	1922.1	31.5
IRON	1.2	0.1	SULFATE	391.2	8.1
POTASSIUM	9.9	0.3	NITRATE	0.0	0.0
BARIUM	0.0	0.0			
CHROMIUM	0.0	0.0			

SPECIFIC GRAVITY @ 77°F 1.000 PH 7.85
RESISTIVITY @ 77°F, ohm-meters 1.569 MGCL (Calc.) 1838.1
TOTAL DISSOLVED SOLIDS (Calc.) MG/L 5173.0 HYDROGEN SULFIDE NEG

WATER ANALYSIS PATTERN - MEQ/L



REMARKS - Run #16 Sample 130 BBLS Back.
Received 4/8/09.

DISTRIBUTION OF RESULTS
Rocky Gorder -- Sidney MT.
Lynn Sundby -- Halliburton - Williston ND.

Category	Item	Value
Total	Sum of all items	100
	Percentage of total	100%

JAN 08 2026

MONTANA BOARD OF OIL &
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MORNINGSTAR
OPERATING

MARKERS (TVD)	Permit: API: AFE:	Jaws SWD #1 Dakota Formation SWD	Legal: Sec 5 - T22N - R59E GL Elevation(final grade): 1941' Projected Spud: Q1 2026	HOLE SIZE	WY (ppg)	MUD	BHST (ft)	SURVEY	EVALUATION
Base Fox Hills -1,365'		Conductor @ 80' 16' 42.05# Surface Casing @ 1,700' +/- 9-5/8" 36#, J55, LTC Cemented to Surface KOP @ 4,795' MD Build 12"/100', 100 Degree AZI Land @ 85° 7" Intermediate Casing @ 5,066' MD 0' - 5,066': 7" 26# L-80 LTC Cemented to surface 7" Intermediate Casing @ 26 degree Inc < @ 5,088' MD, 5,053' TVD Casing Shoe set ~50' MD into the Dakota Fm. 4-1/2" 11.6# L-80 LTC Liner 5,000' - 7,566' MD Liner configuration: Slotted Lateral #1: 85 deg Inc < TD @ 7,568' MD, 5,450' TVD 2,500' Lateral Length	17.5"	8.4	PW	40 50	N/A	None	
				13-1/2"	8.4	Fresh Water	80	100' MWD	No Logs
				8-3/4"	9.2	80/20 Oil Based Mud	160	100' MWD Surveys	Mud Log, MWD/GR
Dakota appx. 5,005' TVD +/-				6"	9.0	Cut Brine	160	100' MWD Surveys	Mud Log, MWD/GR

Base Fox Hills -1,365'

Dakota appx. 5,005' TVD +/-

Proposed Inj Plur ~100' from Dakota Top @ 4,906' +/-

TOL @ 5,000' +/-

Casing Shoe

Proposed Wellbore Diagram
Jaws SWD 1
Section 5 of T22N-R59E
Richland County, Montana

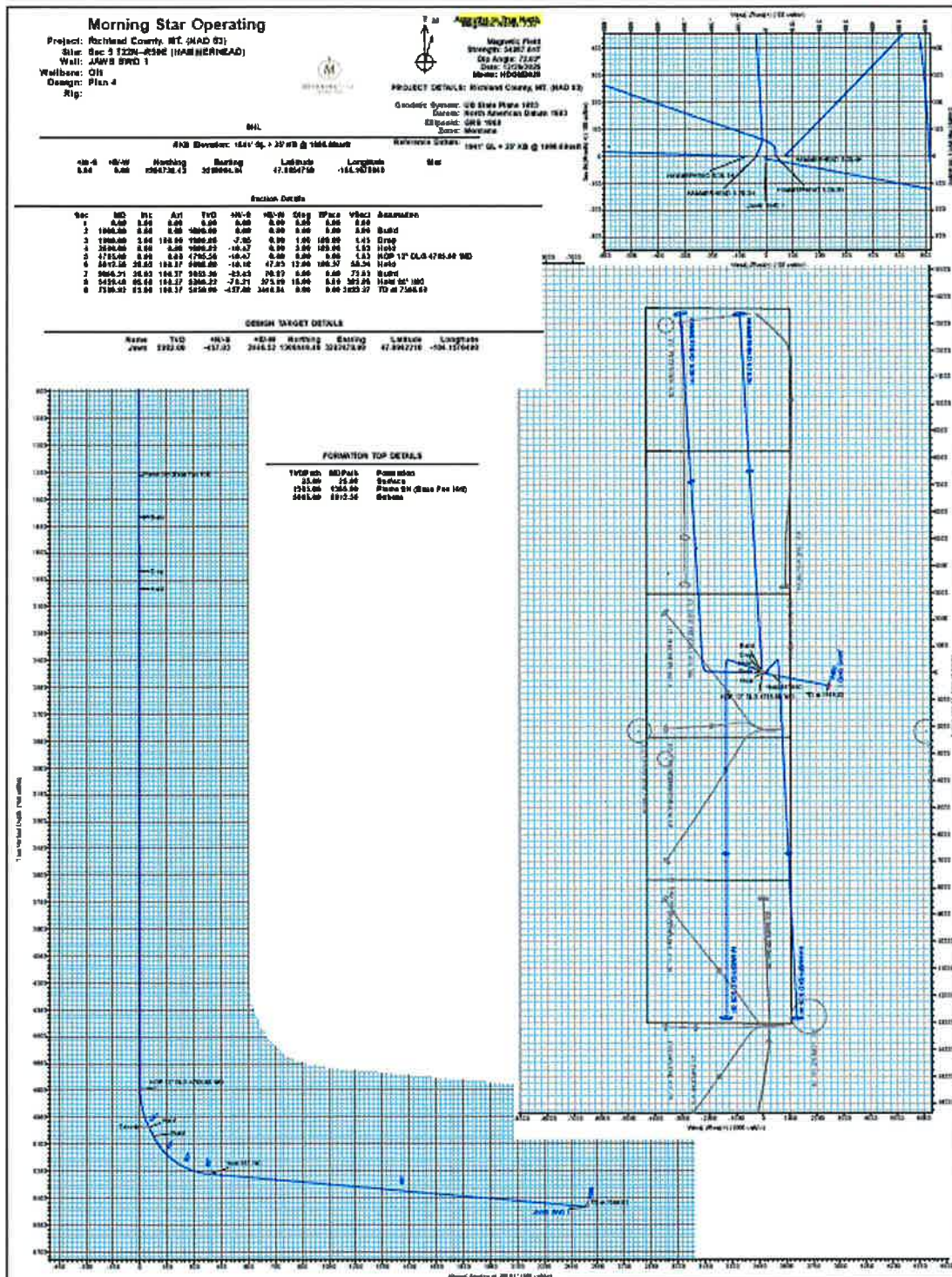


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Proposed Directional Plan
Jaws SWD 1
Section 5 of T22N-R59E
Richland County, Montana



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MONTANA BOARD OF OIL &
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Morning Star Operating

Richland County, MT. (NAD 83)

Sec 5 T22N-R59E (HAMMERHEAD)

JAWS SWD 1

OH

Plan: Plan 4



Standard Plan Report

05 January, 2026

Total Report Version 1.00

COMPASS 5000.16 Build 97

ATTENTION

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



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Planned Survey Report

NORTH DAKOTA BOARD OF OIL & GAS REGULATION • BILLINGS

Company:	Morning Star Operating	Local Co-ordinate Reference:	Well JAWS SWD 1
Project:	Richland County, MT. (NAD 83)	TVD Reference:	1941' GL + 25' KB @ 1966.00usft
Site:	Sec 5 T22N-R59E (HAMMERHEAD)	MD Reference:	1941' GL + 25' KB @ 1966.00usft
Well:	JAWS SWD 1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	.Total Directional Production DB

Project	Richland County, MT. (NAD 83)	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	Montana		

Site	Sec 5 T22N-R59E (HAMMERHEAD)		
Site Position:		Northing:	1,300,734.32 usft
From:	Lat/Long	Easting:	3,279,935.22 usft
Position Uncertainty:	2.00 usft	Slot Radius:	13-3/16 "
		Latitude:	47.6954740
		Longitude:	-104.1678480

Well	JAWS SWD 1					
Well Position	+N-S	0.00 usft	Northing:	1,300,739.43 usft	Latitude:	47.655475
	+E-W	0.00 usft	Easting:	3,280,004.94 usft	Longitude:	-104.167564
Position Uncertainty		2.00 usft	Wellhead Elevation:	usft	Ground Level:	1,941.00 usft
Grid Convergence:		3.90 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDCM2026	12/29/2025	7.87	72.03	54,887.00000000

Design	Plan 4				
Audit Notes:					
Version:		Phase:	FLAN	Tie On Depth:	0.00
Vertical Section:		Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
		0.00	0.00	0.00	100.61

Survey Tool Program	Date	1/5/2026			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	7,566.92	Plan 4 (OH)	MWD+HRGM	OWSG MWD + HRGM	



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MONTANA BOARD OF OIL &
GAS SUPERVISORS

Planned Survey Report

Company:	Morning Star Operating	Local Co-ordinate Reference:	Well JAWS SWD 1
Project:	Richland County, MT. (NAD 83)	TVD Reference:	1941' GL + 25' KB @ 1956.00usft
Site:	Sec 5 T22N-R59E (HAMMERHEAD)	MD Reference:	1941' GL + 25' KB @ 1956.00usft
Well:	JAWS SWD 1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	Total Directional Production DB

Plan Summary

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,900.00	3.00	180.00	1,899.86	-7.85	0.00	1.00	1.00	0.00	180.00	
2,000.00	0.00	0.00	1,999.82	-10.47	0.00	3.00	-3.00	0.00	180.00	
4,795.58	0.00	0.00	4,795.50	-10.47	0.00	0.00	0.00	0.00	0.00	
5,012.56	26.03	100.37	5,005.00	-19.18	47.63	12.00	12.00	0.00	100.37	
5,066.31	26.03	100.37	5,053.30	-23.43	70.82	0.00	0.00	0.00	0.00	
5,459.46	85.00	100.37	5,266.22	-79.21	375.69	15.00	15.00	0.00	0.00	
7,566.92	85.00	100.37	5,450.00	-457.08	2,440.84	0.00	0.00	0.00	0.00	

Planned Survey

Measured Depth	INC	AZI	Vertical Depth	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
25.00	0.00	0.00	25.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
Surface													
100.00	0.00	0.00	100.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
1,365.00	0.00	0.00	1,365.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
Pierre 3H (Base Fox Hill)													
1,400.00	0.00	0.00	1,400.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	1,300,739.43	3,280,004.94	47.8664750	-104.1675640	0.00	0.00	0.00	0.00
Build													
1,700.00	1.00	180.00	1,699.99	-9.87	0.00	1,300,738.56	3,280,005.00	47.8664728	-104.1675640	0.16	1.00	1.00	0.00
1,800.00	2.00	180.00	1,799.96	-3.46	0.00	1,300,736.55	3,280,005.17	47.8664868	-104.1675640	0.64	1.00	1.00	0.00
1,900.00	3.00	180.00	1,899.86	-7.85	0.00	1,300,731.60	3,280,005.47	47.8664836	-104.1675640	1.46	1.00	1.00	0.00
Drop													



MORNING STAR OPERATING

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MONTANA BOARD OF OIL &
GAS CONSERVATION - BILLING

Planned Survey Report

Company: Morning Star Operating			Local Co-ordinate Reference: Well JAWS SWD 1		
Project: Richland County, MT. (NAD 83)			TVD Reference: 1941' GL + 25' KB @ 1966.00ust		
Site: Sec 5 T22N-R59E (HAMMERHEAD)			MD Reference: 1941' GL + 25' KB @ 1966.00ust		
Well: JAWS SWD 1			North Reference: True		
Wellbore: OH			Survey Calculation Method: Minimum Curvature		
Design: Plan 4			Database: Total Directional Production DB		

Planned Survey													
Measured Depth (feet)	INC (")	AZI (")	Vertical Depth (feet)	Local Coordinates +N-E (feet)	+E-W (feet)	Map Coordinates Northing (feet)	Easting (feet)	Geo Coordinates Latitude (")	Longitude (")	Vertical Section (feet)	Dogleg Rate (1/mile)	Buid Rate (1/mile)	Turn Rate (1/mile)
2,000.00	0.00	0.00	1,999.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	3.00	-3.00	0.00
Hold													
2,100.00	0.00	0.00	2,099.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
2,200.00	0.00	0.00	2,199.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
2,300.00	0.00	0.00	2,299.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
2,400.00	0.00	0.00	2,399.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
2,500.00	0.00	0.00	2,499.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
2,600.00	0.00	0.00	2,599.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
2,700.00	0.00	0.00	2,699.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
2,800.00	0.00	0.00	2,799.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
2,900.00	0.00	0.00	2,899.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
3,000.00	0.00	0.00	2,999.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
3,100.00	0.00	0.00	3,099.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
3,200.00	0.00	0.00	3,199.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
3,300.00	0.00	0.00	3,299.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
3,400.00	0.00	0.00	3,399.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
3,500.00	0.00	0.00	3,499.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
3,600.00	0.00	0.00	3,599.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
3,700.00	0.00	0.00	3,699.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
3,800.00	0.00	0.00	3,799.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
3,900.00	0.00	0.00	3,899.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
4,000.00	0.00	0.00	3,999.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
4,100.00	0.00	0.00	4,099.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
4,200.00	0.00	0.00	4,199.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
4,300.00	0.00	0.00	4,299.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
4,400.00	0.00	0.00	4,399.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
4,500.00	0.00	0.00	4,499.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
4,600.00	0.00	0.00	4,599.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
4,700.00	0.00	0.00	4,699.82	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
4,795.68	0.00	0.00	4,795.50	-10.47	0.00	1,300,728.99	3,280,005.65	47.864483	-104.1875840	1.93	0.00	0.00	0.00
KOP 12" DLG 4795.68 "MD													
4,800.00	0.52	100.37	4,799.82	-10.47	0.02	1,300,728.99	3,280,005.67	47.864483	-104.1875839	1.95	12.00	12.00	0.00
4,825.00	3.52	100.37	4,824.80	-10.63	0.89	1,300,728.89	3,280,006.54	47.864489	-104.1875804	2.83	12.00	12.00	0.00
4,850.00	6.52	100.37	4,849.70	-11.03	3.04	1,300,728.64	3,280,008.71	47.864448	-104.1875618	5.01	12.00	12.00	0.00
4,875.00	9.52	100.37	4,874.45	-11.65	6.47	1,300,728.25	3,280,012.18	47.864431	-104.1875377	8.50	12.00	12.00	0.00
4,900.00	12.52	100.37	4,898.99	-12.51	11.17	1,300,727.71	3,280,016.93	47.864407	-104.1875188	13.28	12.00	12.00	0.00
4,925.00	15.52	100.37	4,923.24	-13.60	17.12	1,300,727.03	3,280,022.94	47.864377	-104.1874944	19.33	12.00	12.00	0.00
4,950.00	18.52	100.37	4,947.14	-14.92	24.32	1,300,726.20	3,280,030.21	47.864341	-104.1874682	26.65	12.00	12.00	0.00



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MONTANA BOARD OF OIL &
GAS CONSERVATION - BILLINGS

Planned Survey Report

Company:	Morning Star Operating	Local Co-ordinate Reference:	Well JAWS SWD 1
Project:	Richard County, MT. (NAD 83)	TVD Reference:	1941' GL + 25' KB @ 1955.00usft
Site:	Sec 5 T22N-R59E (HAMMERHEAD)	MID Reference:	1941' GL + 25' KB @ 1955.00usft
Well:	JAWS SWD 1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	Total Directional Production DB

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 (°/usft)	Build Rate (°/usft)	Turn Rate (°/usft)
4,975.00	21.52	100.37	4,970.63	-16.46	32.73	1,300,725.24	3,280,038.71	47.0864299	-104.1874310	35.21	12.00	12.00	0.00
5,000.00	24.52	100.37	4,993.64	-18.22	42.35	1,300,724.14	3,280,048.43	47.0864251	-104.1873919	44.98	12.00	12.00	0.00
5,012.56	26.03	100.37	5,005.00	-19.18	47.63	1,300,723.53	3,280,053.76	47.0864224	-104.1873706	50.34	12.00	12.00	0.00
Hold - Dakota													
5,066.31	26.03	100.37	5,053.30	-23.43	70.82	1,300,720.88	3,280,077.19	47.0864108	-104.1872782	73.93	0.00	0.00	0.00
Build													
5,075.00	27.33	100.37	5,061.06	-24.13	74.66	1,300,720.44	3,280,081.06	47.0864088	-104.1872607	77.83	15.00	15.00	0.00
5,100.00	31.08	100.37	5,082.88	-26.33	86.66	1,300,719.06	3,280,093.18	47.0864026	-104.1872119	90.02	15.00	15.00	0.00
5,125.00	34.83	100.37	5,103.85	-28.77	100.03	1,300,717.53	3,280,106.69	47.0863991	-104.1871578	103.62	15.00	15.00	0.00
5,150.00	38.58	100.37	5,123.89	-31.46	114.73	1,300,715.85	3,280,121.54	47.0863867	-104.1870879	118.56	15.00	15.00	0.00
5,175.00	42.33	100.37	5,142.91	-34.38	130.68	1,300,714.02	3,280,137.66	47.0863807	-104.1870331	134.78	15.00	15.00	0.00
5,200.00	46.08	100.37	5,160.83	-37.52	147.82	1,300,712.06	3,280,154.97	47.0863721	-104.1869634	152.20	15.00	15.00	0.00
5,225.00	49.83	100.37	5,177.57	-40.86	166.08	1,300,709.57	3,280,173.41	47.0863630	-104.1868862	170.76	15.00	15.00	0.00
5,250.00	53.58	100.37	5,193.06	-44.39	185.38	1,300,707.76	3,280,192.90	47.0863535	-104.1868106	190.38	15.00	15.00	0.00
5,275.00	57.33	100.37	5,207.24	-48.08	205.63	1,300,705.44	3,280,213.36	47.0863431	-104.1867268	210.97	15.00	15.00	0.00
5,300.00	61.08	100.37	5,220.03	-51.56	226.75	1,300,703.02	3,280,234.69	47.0863325	-104.1866428	232.44	15.00	15.00	0.00
5,325.00	64.83	100.37	5,231.40	-55.97	248.65	1,300,700.51	3,280,256.82	47.0863215	-104.1865538	254.70	15.00	15.00	0.00
5,350.00	68.58	100.37	5,241.28	-60.10	271.23	1,300,697.93	3,280,279.63	47.0863102	-104.1864620	277.66	15.00	15.00	0.00
5,375.00	72.33	100.37	5,249.65	-64.34	294.40	1,300,695.27	3,280,303.03	47.0862988	-104.1863679	301.21	15.00	15.00	0.00
5,400.00	76.08	100.37	5,256.45	-68.67	318.06	1,300,692.56	3,280,326.93	47.0862867	-104.1862716	325.27	15.00	15.00	0.00
5,425.00	79.83	100.37	5,261.67	-73.07	342.11	1,300,689.81	3,280,351.22	47.0862746	-104.1861741	349.71	15.00	15.00	0.00
5,450.00	83.58	100.37	5,265.28	-77.52	366.44	1,300,687.02	3,280,375.80	47.0862624	-104.1860752	374.44	15.00	15.00	0.00
5,459.46	85.00	100.37	5,266.22	-79.21	375.69	1,300,685.96	3,280,385.15	47.0862577	-104.1860378	383.85	15.00	15.00	0.00
Hold 85° INC													
5,500.00	85.00	100.37	5,269.75	-86.48	415.42	1,300,681.41	3,280,425.28	47.0862378	-104.1858782	424.24	0.00	0.00	0.00
5,600.00	85.00	100.37	5,278.47	-104.41	513.41	1,300,670.19	3,280,524.26	47.0861866	-104.1854781	523.86	0.00	0.00	0.00
5,700.00	85.00	100.37	5,287.19	-122.34	611.41	1,300,658.97	3,280,623.25	47.0861364	-104.1850600	623.48	0.00	0.00	0.00
5,800.00	85.00	100.37	5,295.91	-140.27	709.40	1,300,647.75	3,280,722.23	47.0860862	-104.1846419	723.10	0.00	0.00	0.00
5,900.00	85.00	100.37	5,304.63	-158.20	807.39	1,300,636.52	3,280,821.22	47.0860361	-104.1842238	822.71	0.00	0.00	0.00
6,000.00	85.00	100.37	5,313.35	-176.13	905.38	1,300,625.30	3,280,920.20	47.0859859	-104.1838057	922.33	0.00	0.00	0.00
6,100.00	85.00	100.37	5,322.08	-194.06	1,003.37	1,300,614.08	3,281,019.19	47.0859357	-104.1833876	1,021.95	0.00	0.00	0.00
6,200.00	85.00	100.37	5,330.80	-211.95	1,101.37	1,300,602.86	3,281,118.17	47.0858856	-104.1829695	1,121.57	0.00	0.00	0.00
6,300.00	85.00	100.37	5,339.52	-229.92	1,199.36	1,300,591.63	3,281,217.16	47.0858354	-104.1825513	1,221.19	0.00	0.00	0.00
6,400.00	85.00	100.37	5,348.24	-247.85	1,297.35	1,300,580.41	3,281,316.14	47.0857851	-104.1821332	1,320.81	0.00	0.00	0.00
6,500.00	85.00	100.37	5,356.96	-265.78	1,395.34	1,300,569.19	3,281,415.13	47.0857349	-104.1817151	1,420.42	0.00	0.00	0.00
6,600.00	85.00	100.37	5,365.68	-283.71	1,493.34	1,300,557.97	3,281,514.11	47.0856847	-104.1812970	1,520.04	0.00	0.00	0.00
6,700.00	85.00	100.37	5,374.40	-301.64	1,591.33	1,300,546.74	3,281,613.10	47.0856345	-104.1808789	1,619.66	0.00	0.00	0.00
6,800.00	85.00	100.37	5,383.12	-319.57	1,689.32	1,300,535.52	3,281,712.08	47.0855843	-104.1804608	1,719.28	0.00	0.00	0.00



MORNINGSTAR
OPERATING

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HIGHTON BOARD OF OIL & GAS OPERATIONS - ELLIOTT

Planned Survey Report

Company:	Morning Star Operating	Local Co-ordinate Reference:	Well JAWS SWD 1
Project:	Richland County, MT. (NAD 83)	TVD Reference:	1941' GL + 25' KB @ 1955.00usft
Site:	Sec 5 T22N-R59E (HAMMER-HEAD)	MD Reference:	1941' GL + 25' KB @ 1955.00usft
Well:	JAWS SWD 1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buid Rate (°/100usft)	Turn Rate (°/100usft)
6,900.00	85.00	100.37	5,391.84	-237.50	1,787.31	1,300,524.30	3,281,811.07	47.0948491	-104.1603027	1,818.90	0.00	0.00	0.00
7,000.00	85.00	100.37	5,400.56	-255.43	1,865.30	1,300,513.08	3,281,910.05	47.0948669	-104.1606046	1,919.51	0.00	0.00	0.00
7,100.00	85.00	100.37	5,409.28	-373.36	1,983.30	1,300,501.85	3,282,009.04	47.0948807	-104.1606085	2,018.13	0.00	0.00	0.00
7,200.00	85.00	100.37	5,418.00	-391.29	2,081.29	1,300,490.63	3,282,108.02	47.0949015	-104.1601084	2,117.75	0.00	0.00	0.00
7,300.00	85.00	100.37	5,426.72	-409.22	2,179.28	1,300,479.41	3,282,207.01	47.0949322	-104.1597103	2,217.37	0.00	0.00	0.00
7,400.00	85.00	100.37	5,435.44	-427.15	2,277.27	1,300,468.19	3,282,305.99	47.0949300	-104.1593172	2,316.99	0.00	0.00	0.00
7,500.00	85.00	100.37	5,444.16	-445.08	2,375.26	1,300,456.97	3,282,404.98	47.0949238	-104.1579141	2,416.61	0.00	0.00	0.00
7,566.92	85.00	100.37	5,450.00	-457.08	2,440.84	1,300,449.46	3,282,471.22	47.0949209	-104.1578477	2,493.27	0.00	0.00	0.00
TD at 7566.92													

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Jaws	0.00	0.00	5,083.00	-457.03	2,440.52	1,300,449.49	3,282,470.50	47.0942210	-104.1576490
- plan misses target center by 365.57usft at 7534.59usft MD (5447.18 TVD, -451.28 N, 2409.16 E)									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
25.00	25.00	Surface			
1,365.00	1,365.00	Pierre SH (Base For Hit)			
5,012.56	5,005.00	Dakota		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Comment
1600	1500	0	0	Buid
1900	1900	-8	0	Drop
2000	2000	-10	0	Hold
4796	4796	-10	0	KOP 12" DLG 4755.63 MD
5013	5005	-19	48	Hold
5066	5053	-23	71	Buid
5459	5266	-79	376	Hold 85° INC
7567	5450	-457	2441	TD at 7566.92

Checked By: _____ Approved By: _____ Date: _____



MORNINGSTAR
OPERATING

Bakken Water Analysis
Jaws SWD 1

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MONTANA BOARD OF OIL &
GAS CONSERVATION - BILLINGS



JACAM LABORATORIES

DownHole R_x
WATER CHEMISTRY

ENERPLUS RESOURCES
KARSON KOSTELECKY
RICHLAND MT

PEABODY-BAHLS 2-16H
TREATER

Report Date: 01-14-2015 Sampled: 12-31-2014
Sample #: 2548 at 0000
Sample ID: 88871

CATIONS

Calcium (as Ca)	13340
Magnesium (as Mg)	1235
Barium (as Ba)	12.79
Strontium (as Sr)	839.30
Sodium (as Na)	68441
Potassium (as K)	5068
Lithium (as Li)	50.41
Ammonia (as NH ₃)	0.00
Aluminum (as Al)	2.14
Iron (as Fe)	262.50
Manganese (as Mn)	7.98
Zinc (as Zn)	3.14
Lead (as Pb)	0.00

ANIONS

Chloride (as Cl)	156800
Sulfate (as SO ₄)	75.00
Bromine (as Br)	0.00
Dissolved CO ₂ (as CO ₂)	100.00
Bicarbonate (as HCO ₃)	73.20
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)	404.70

PARAMETERS

Calculated T.D.S.	236875
Molar Conductivity	408969
Resistivity	2.45
Sp.Gr.(g/mL)	1.16
Pressure(atm)	1.00
pCO ₂ (atm)	0.0220
pH ₂ S(atm)	0.00
Temperature (°F)	82.90
pH	5.94

COMMENTS

RICHLAND MT

JACAM LABORATORIES

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



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MONTHLY BOARD OF OIL &
GAS REVENUE BALANCE

Surface and Mineral Owner List
Jaws SWD 1
Richland County, MT

Surface Owners within AOR:

AGRI-MED LLC
100 BELLE CREEK RD
BELGRADE, MT 59714-8775

ARNOLD G HANSEN
207 2ND AVE NW
SIDNEY, MT 59270-4015

BYER INDUSTRIAL PARK LLC
108 2ND ST NE
SIDNEY, MT 59270-4105

IE PROPERTIES LLC
PO BOX 2035
JAMESTOWN, ND 58402-2035

JOHNSON5 LLC
207 2ND AVE NW
SIDNEY, MT 59270-4015

L Y IRRIGATION PROJECT BRD OF
CONTROL
2327 LINCOLN AVE SE
SIDNEY, MT 59270-8800

MORNINGSTAR OPERATING LLC
400 W 7TH STREET
FORT WORTH, TX 76102

QCC HOLDINGS INC
7883 EDGAR INDUSTRIAL WAY
RED DEER, AB T4P 3R2 CANADA

SCHMART SOLUTIONS LLC
1315 22ND AVE NW
SIDNEY, MT 59270-5775

STURGIS SHARON LEONE TRUSTEE
440 RICHARDS LAKE RD
FORT COLLINS, CO 80524-1633

MOR MAC LLC
PO BOX 787
SIDNEY, MT 59270-0787

ALS MINI STORAGE INC
315 MAIN ST
ROUNDUP, MT 59072-2737

AVAD PROPERTIES LLC
PO BOX 787
SIDNEY, MT 59270-0787

BYER RENTALS LLC
108 2ND ST NE
SIDNEY, MT 59270-4105

JADA LLC
PO BOX 787
SIDNEY, MT 59270-0787

KRINGEN FAMILY LLLP
917 14TH ST SE
SIDNEY, MT 59270-8822

PIONEER CEMETERY ASSOC,
C/O NANCY HEDEGAARD
920 13TH ST SW
SIDNEY, MT 59270

ONEOK ROCKIES MIDSTREAM LLC
PO BOX 871
TULSA, OK 74102-0871

RICHLAND RENTALS LLC
1807 S CENTRAL AVE
SIDNEY, MT 59270-5510

CITY OF SIDNEY
115 2ND ST. NE
SIDNEY, MT 59270

WHITE ROCK ENERGY LLC MAIL TO
KE ANDREWS AND COMPANY
2424 RIDGE RD
ROCKWALL, TX 75087

SIDNEY 25 DEVELOPMENT LLC
C/O LORA ROMNEY
10421 S JORDAN GTWY,
GATEWAY SUITE 600
SOUTH JORDAN, UT 84095

ARLEN H & LONNIE L PRICE
2397 S CENTRAL AVE
SIDNEY, MT 59270-5513

BYER INDUSTRIAL PARK LLC
108 2ND ST NE
SIDNEY, MT 59270-4105

DYNAMIC ENERGY SERVICES INC
421 5TH AVE NE
SIDNEY, MT 59270-4424

JAMES B & TRINA K HOLST
803 14TH ST SE
SIDNEY, MT 59270-6398

L & L HOLDINGS LLC
712 9TH ST SW
SIDNEY, MT 59270-4815

MATT JOSEPHSON
35325 COUNTY ROAD 129
SIDNEY, MT 59270-4256

ONEOK ROCKIES MIDSTREAM LLC
896 25TH ST SE
SIDNEY, MT 59270

S/L SERVICES INC
2265 S CENTRAL AVE
SIDNEY, MT 59270-5515

SIDNEY STORAGE LLC
811 5TH ST SE
SIDNEY, MT 59270-5116

WHITE ROCK OIL & GAS GP I LLC
2179 CENTRAL AVE
SIDNEY, MT 59270

WHITE ROCK OIL & GAS GP I LLC
MAIL TO KE ANDREWS &
COMPANY
2424 RIDGE RD
ROCKWALL, TX 75087



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MINUTEMAN BOARD OF OIL &
GAS OPERATIONS • BILLINGS

Surface and Mineral Owner List
Jaws SWD 1
Richland County, MT

Mineral Interest Owners within AOR:

6 J FARMS, INC
3592 159TH AVE. NW
FAIRVIEW, MT 59221

ALLAN JACKSON
313 2ND AVE NW
BEULAH, ND 58523

ANGELEN LARSON
13711 14TH ST NW
ARNEGARD, ND 58835

ALLISON L. LEDET
8405 SOUTH CAMERON DR.
HAMILTON, IN 46742

AMONTE LLC
PO BOX 3358
ENGLEWOOD, CO 80155

ANDREW OLSON
PO BOX 33
CRANE, MT 59217-0033

AVM INC
PO BOX 411
BISMARCK, ND 585010-411

ARNOLD AND LOIA HANSEN
FAMILY TRUST
207 2 AVE NW
SIDNEY, MT 592704015

AUGUST M SOFFELL & ELEANOR
M SOFFELL JOINT TENANTS
501 MAIN ST APT 11-1A
ORANGE, NJ 07050

AULEX LLC
18208 PRESTONE ROAD
STE. D9 #295
DALLAS, TX 75252

AUSTIN CREWS GROUP LP &
RESOURCES SERIES
PO BOX 128
EFFINGHAM, IL 62401

BLACK STONE MINERALS
COMPANY, LP
PO BOX 301267
DALLAS, TX 75303-1267

B & J RESOURCES LLC
410 17TH ST STE 1150
DENVER, CO 80202

BERNICE MASON
2612 BETH DR
BILLINGS, MT 59102

BETTY LOU QUALE
PO BOX 305
WIBAUX, MT 59353

BONNIE EVANSON
810 WEST CRAWFORD ST.
LIVINGSTON, MT 59047

BLAIR K. TROUDT
1710 LAUREL AVE.
HUDSON, WI 54016

BODREY DALE KINDOPP
718 6TH ST SE
SIDNEY, MT 59270-5125

BROOK GRUSZKA
2490 FALLBROOK DR
HAMPSHIRE, IL 60140-9059

BRIAN WINTER
2923 SOUTH OVERTON AVENUE
INDEPENDENCE, MO 64052

BRION NORBY
4905 PRAIRIE LN
WILLISTON, ND 58801

BURNS LAND COMPANY LLC
1935 RESER RD
WALLA WALLA, WA 99362

BRUCE A HART
328 OCONNELL DR
LOLO, MT 59847-9709

BUREAU OF LAND MANAGEMENT
5001 SOUTHGATE DRIVE
BILLINGS, MT 59101

BURLINGTON NORTHERN & SANTA
FE RAILWAY COMPANY
PO BOX 676167
DALLAS, TX 75267-6167

CALVIN THOGERSEN
12708 W ROANOKE
AVONDALE, AZ 85392

CAROL CHASE
PO BOX 158102
NASHVILLE, TN 37215

CAROL BOHRNSEN F/K/A CAROL
PETERSEN
261 WILLOW CREEK ROAD
PHILLIPSBURG, MT 59858

CAROL L. DRAY, APPARENT
SUCCESSOR TO GLADYS DIGE,
DECEASED
29589 WARMSPRINGS DR.
MENIFEE, CA 92584

ALLEN W HAMILL JR FAMILY
PARTNERSHIP, C/O A WILLIAM
HAMILL MANAGING PART
5 VIRGINIA AVE
RICHMOND, VA 23226-1728



MORNINGSTAR
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Surface and Mineral Owner List
Jaws SWD 1
Richland County, MT

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MONTANA BOARD OF OIL &
GAS CONSERVATION - BILLINGS

CAROL L. DRAY, TRUSTEE OF THE
FAMILY TRUST OF CAROL L. DRAY
29589 WARMSPRINGS DR.
MENIFEE, CA 92584

CAROLINE MARGUERITE
RUFFATTO LLC
1262 14TH ST SW
SIDNEY, MT 59270-5410

CAT SPRING PROPERTIES LLC
PO BOX 450
SEALY, TX 77474-0450

CHARLES BIKSEN
203 INMANN ST
HENNING, MN 56551

CHARLES D MCMURREY
PO BOX 70122
HOUSTON, TX 77270-0122

CHARLOTTE DEHNERT
1355 HILLCREST DR
LANDER, WY 82520-9702

CHARLES J KAMENSKY
1001 EL SERENO DR
BAKERSFIELD, CA 93304-4033

CHARLES TURNER
16167 W. VISTA NORTH DR.
SUN CITY WEST, AZ 85375

CHARLIE H READ
2611 SHADOWDALE
HOUSTON, TX 77043

CHARLES H FRANKLIN REV LIVING
TRUST
1198 NAVIGATOR DR #175
VENTURA, CA 93001

CHARLOTTE JEAN HAUGEN ESTATE,
C/O MAGGIE NIEVES
744 HIGH CREST DR
AZLE, TX 76020

CHRIS NELSON
1746 SATTLER DR.
CONCORD, CA 94519

CHRISTIAN M HAUGEN
6111 C CURZON AVE
FORT WORTH, TX 76116

CHRISTY KEMP
644 ROAD 303
GLENDALE, MT 59330

CITY OF SIDNEY
115 2ND ST. NE
SIDNEY, MT 59270

CLARA JO DIGE
6181 PICKETT AVE
GARDEN GROVE, CA 92845

COLLEEN COOPER, TRUSTEE OF
THE COLLEEN COOPER FAMILY
TRUST U/A/D AUGUST 29, 2002
3840 RIMROCK RD., APT. 1107
BILLINGS, MT 59102

CONNIE BIKSEN
915 ELLA AVE NW
WILLMAR, MN 56201

CONSTANCE R MINDT TIC
719 2ND ST SE
SIDNEY, MT 59270

CORI BETH SHERLOCK
2636 37TH AVE S
MINNEAPOLIS, MN 55406

CORINNE CROWE
413 LINCOLN AVE. S.
SIDNEY, MT 59270

CURTIS A OLSON
STE 3 WAKEFIELD DR
BILLINGS, MT 59102-7816

DALE L WINTER
9715-171 NORTH EAST
REDMOND, WA 98052

DALE PETERSEN
261 WILLOW CREEK ROAD
PHILLIPSBURG, MT 59858

DAN HEDGER
2735 SHEPPARD-REES RD
KERRVILLE, TX 78028

DANIEL T HART
1982 CHENEY CREEK RD
CARTWRIGHT, ND 58838-9766

DARLENE ANN BERG
1180 TRENTON ST
BILLINGS, MT 59105-2252

DARRELL BIKSEN
1201 60TH ST NE
SAUK RAPIDS, MN 56379

DAVID J DYNNESEN
8240 NEVADA CIR
BLOOMINGTON, MN 55438

DAVID R WINTER
1938 HORSE CREEK ROAD
CARTWRIGHT, ND 58838



MORNINGSTAR
OPERATING

Surface and Mineral Owner List

Jaws SWD 1
Richland County, MT

DAVID S MOORE & TERRY L
MOORE JT
207 14TH ST SE
SIDNEY, MT 59270

DEBRA MATTHIES
PO BOX 73
OHIOWA, NE 68416

DENNIS W. MARKER
1576 11TH AVE. SW
SIDNEY, MT 59270

DONALD L DYNNESON
1483 252ND
SEWARD, NE 68434

DONALD W BEARDSLEY
2003 S UTAH ST NE
ALBUQUERQUE, NM 87110-4852

DORIS SIMONSEN
104 RIVERVIEW B
GREAT FALLS, MT 59404

EDINA FLESJER
PO BOX 643
GLENDALE, MT 59330

ELLEN JENSEN
806 APACHE AVE
AZTEC, NM 87410-2211

ERIK KERBEL
15415 S. AIRPORT WAY, APT. 2
MANTECA, CA 95336

EVELYNE SORENSEN
1400 WINNE AVE
HELENA, MT 59601

DEBRA K STRASHEIM TIC
830 3RD ST SE
SIDNEY, MT 59270

DENICE TRELOAR
2500 S EMERSON AVE
GILLETTE, WY 82718-5830

DIANE CHERRY
2220 WILLAMETTE VIEW CT
WEST LINN, OR 97068-2634

DONALD R STEVENS & MABEL E
STEVENS JOINT TENANTS
2360 COLLINS RD
PITTSBURGH, PA 15235-2754

DONNA MARIE BROWN
1505 4TH ST SW
SIDNEY, MT 59270-3637

EDWARD KERBEL
7102 GOLF COURSE LN.
SAN JOSE, CA 95139

DOROTHY A FELTZ TRUST DTD
MARCH 20 1992
PO BOX 39
CARY, IL 60013

ELWANDA J FISCHER
PO BOX 988
SIDNEY, MT 59270

ERIN BERZEL
905 DIXON AVE
MISSOULA, MT 59801-8617

F&D BARTA GRANDCHILDREN
TRUST
1901 FREYBURG ENGLE RD
SCHULENBURG, TX 78956-5104

DEBRA LARSEN
PO BOX 81164
BILLINGS, MT 59108-1164

DENNIS W YOCKIM
PO BOX 477
WILLISTON, ND 58802-0477

DIXIE BERZEL
20251 SUPERIOR PL
WHITEWOOD, SD 57793

DONALD R TOWNSEND
5125 REDMESA AVE
LOVELAND, CO 80538-1016

DORIS ERICKSON
999 15TH ST SW APT 2
SIDNEY, MT 59270-5454

DW KUKOWSKI
700 W HARBOR DR UNIT 1104
SAN DIEGO, CA 92101-7756

EDWIN K. DAMM AND CAROL A.
DAMM
1338 CORTEZ AVE.
BILLINGS, MT 59105

ERIC BELANGER
6908 N. FOX WOOD COURT
SPOKANE, WA 99208

ESTATE OF MIKE GOLDEN
PO BOX 2734
BISMARCK, ND 58502

ESTATE OF NICK YOUNGKIN,
DECEASED C/O CARLA YOUNGKIN
PO BOX 222
ALBERTON, MT 59820



MORNINGSTAR
OPERATING

Surface and Mineral Owner List

Jaws SWD 1

Richland County, MT

ESTATE OF DANIEL PETERSON,
DECEASED C/O SHEILA PETERSON
202 17TH ST. W.
BILLINGS, MT 59102

ESTATE OF FRANKIE C. BURMAN,
DECEASED C/O JESS W. BURMAN
PO BOX 1054
SIDNEY, MT 59270

ESTATE OF HARRY F. KREIS,
DECEASED
33120 XENON DR. NW
PRINCETON, MN 55371

FOREL GROUP, LLC
1803 9TH AVE. SW
SIDNEY, MT 59270

FRANCES DECKER
16715 WEST FOUR MOUND RD
NINE MILE FALLS, WA 99026

GABRIELE H RAPP
729 SKYLINE DR
JUNCTION CITY, KS 66441-4059

JOHN BRADFORD CONE AND
JEFFERY D. CONE, SUCCESSOR CO-
TRUSTEES OF THE JESSE DONALD
CONE, M.D., II AND PATRICIA JANE
CONE REVOCABLE TRUST (DATED
JUNE 24, 1992 AND AMENDED JULY
31, 2008)
417 COLINA LANE
ODESSA, TX 79765

ESTATE OF CARL HERMAN,
DECEASED,
C/O BEVERAL MOERKERKE
14550 N. FRANK LLOYD WRIGHT,
BLVD. #100
SCOTTSDALE, AZ 85260

ESTATE OF RICHARD C. NORBY,
DECEASED, AND LORI A NORBY,
PERSONAL REPRESENTATIVE FOR
THE ESTATE OF ROCKY L. NORBY,
DECEASED, FORMERLY CO-
PARTNERS D/B/A R&R FARMS OF
SIDNEY
R 2 BOX 2912
SIDNEY, MT 59270

GORDON H LUIKART & GORDON A
LUIKART JR POA
109 ISLAND WAY
GREENACRES, FL 33413-2025

GEORGE WATTS A/K/A
GEORGE A. WATTS
712 7TH AVE. SW
SIDNEY, MT 59270

GREGORY CAVANAUGH AND
DEBORAH A. CAVANAUGH
3528 NATURAL VIEW ST.
LAS VEGAS, NV 89129

GERALD D FISCHER
BOX 988
SIDNEY, MT 59270

GERALD J ELKINS
PO BOX 1295
BISMARCK, ND 58502-1295

GERALDINE ENTZEL
2333 SOUTH CENTRAL AVE.
SIDNEY, MT 59270

GARY J THOGERSEN
4160 29TH AVE SOUTH
SEATTLE, WA 98108

GORDON PUTNAM
10 JEFFERSON CT
WAYNESBORO, VA 22980-6596

GEORGIANN WILLIAMSON
PO BOX 1865
BOZEMAN, MT 59771

JAMES HAUGEN
260 BLUE MOON RD
HELENA, MT 59602

HARRIET A MORRIS
1951 47TH ST SPACE #3
SAN DIEGO, CA 92102

HELMUT WOLFF
34760 HIGHWAY 200
SIDNEY, MT 59270

HAROLD BUXBAUM & LILA P
BUXBAUM
1015 7TH AVE SW APT 210
SIDNEY, MT 59270-4967

HENRY DELPHIA L WHITAKER H/W
J/T
37 MCCLELLAN CREEK RD
CLANCY, MT 59634-9620

JAMES H JENSEN CRAIG L JENSEN
POA
14437 MONTEREY AVE S
SAVAGE, MN 553782982

JANA TURNER
1220 B. SPRUCE CIRCLE
LYNDEN, WA 98264

HERBERT JUNEMAN
6215 BLVD EAST
NEW YORK, NY 07093

HKT LLC
16088 75TH PL N
LOXAHATCHEE, FL 33470



MORNINGSTAR
OPERATING

Surface and Mineral Owner List
Jaws SWD 1
Richland County, MT

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MONTANA BOARD OF OIL &
GAS CONSERVATION - BILLINGS

HOMEOPATHIC RESEARCH
3910 LOS FELIZ BLVD
LOS ANGELES, CA 90027

HUNT OIL COMPANY
LOCK BOX 840722
DALLAS, TX 75284-0722

JACOB R. BAILEY AND CARA R.
BAILEY
801 6TH STREET SE
SIDNEY, MT 59270

JACQUE N. FLYNN AND ONALEE J.
FLYNN
1330 14TH ST. SW
SIDNEY, MT 59270

JACQUE W BEST REVOC TRST DTD
5/28/04
4619 CAMBRIA CIR
RAPID CITY, SD 57701

JAMES A DIANA GULLICKSON H/W
JT
3492 157TH AVE NW
CARTWRIGHT, ND 58838

JARED E. TROUDT
416 2ND AVE. SE
SIDNEY, MT 59270

JEANETTA COOLEY
RR1 BOX 182-A7
SIDNEY, MT 59270

JEANNE DIGE NOTTINGHAM
1319 KHANABAD WAY
MISSOULA, MT 59802

JEFF S. VOTAW AND SARAH D.
VOTAW
2611 VIRGINIA LANE
BILLINGS, MT 59102

ESTATE OF JOHNNY O.VERHASSELT,
DECEASED C/O LINDA M. BIEBER
3221 HIGHWAY 58
FAIRVIEW, MT 59221

JERROLD ROY BURNS
1984 CHENEY CREEK RD
CARTWRIGHT, ND 58838-9766

JIM D SANDELL
1008 PINNACLE VW E
KERRVILLE, TX 78028-7301

JO ANN OVERBY LARSON
13716 EARNSHAW ST
OVERLAND PARK, KS 66221

JOAN H QUAY
624 ALVARADO RD
BERKELEY, CA 94705

JOANN BIKSEN PETERSON
440 2ND ST NW STE 115
COKATO, MN 55321

JEFFREY RUFFATTO
3858 MT-78
COLUMBUS, MT 59019

JOHN H HUSTIG
1285 PACIFIC ST
BROOKLYN, NY 11216

JOHN H PUTNAM
11453 STONECROFT TERRACE
SAN DIEGO, CA 92131

JOHN WINTER
2164 HORSE CREEK ROAD
CARTWRIGHT, ND 58838

JOLEEN SCHULTE
1113 COMMUNITY LOOP
BISMARCK, ND 58503-7430

JONEL HALL
2210 OLD HWY 99 S SPACE 32
MOUNT VERNON, WA 98273

JORGENSEN FAMILY TRUST DTD
6/7/96, C/O JAN BARNES
5728 EAST FARM RD 168
ROGERSVILLE, MO 65742

JOSH LAROCHE AND LAURA
LAROCHE
949 15TH ST. SW
SIDNEY, MT 59270

JOYCE HARTNETT
2318 LOUISE LN
BILLINGS, MT 59102

JRB INVESTMENTS LLC
8605 HWY 1804 N
BISMARCK, ND 58503

JUDY ANN REID
1295 14TH ST. SW
SIDNEY, MT 59270

JULIA HAUGEN
106 COULTER LOOP
BIG FORK, MT 59911

JULIEANNE LEPA
21 PUTTER LN
NEW SMYRNA BEACH, FL 32168

JUSTIN DAMM AND MELISSA
DAMM, JT
744 LAMBRECHT LANE
BILLINGS, MT 59105



MORNINGSTAR
OPERATING

Surface and Mineral Owner List
Jaws SWD 1
Richland County, MT

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INDIANA BOARD OF OIL &
GAS CONSERVATION - BILLINGS

KANSAS STATE COLLEGE
110 ANDERSON HALL, 919 MID-
CAMPUS DRIVE NORTH
MANHATTAN, KS 66506-0110

KAREN DEGN KRUM
3111 PARKHILL DR.
BILLINGS, MT 59102

KAREN J DAVIDSON
802 CO RD 4668
RHOME, TX 76078-5178

KAREN LIVINGSTON
8751 WEST OBRIEN CK DR
WASILLA, AK 99623

KATHERINE MARIE HAUGEN
2800 GATEWAY AVE APT 104
BISMARCK, ND 58503

KATHLEEN A BATES
6082 BLUE RIDGE DR STE D
HIGHLANDS RANCH, CO 80130

KAYLAN M. JOHNSON
994 14TH STREET SW
SIDNEY, MT 59270

KELVIN BUXBAUM
12281 CO RD 349R
SIDNEY, MT 59270-9514

KEVIN BUXBAUM
3627 SURREY CIR
BILLINGS, MT 59102-4345

KEVIN KERBEL
PO BOX 371696
MONTARA, CA 94037

KIM BOYCE
301 ROPER LANE
LEWISTOWN, MT 59457

KIRK R. DIGE
PO BOX 160472
BIG SKY, MT 59716

KIRSTEN DEGN
500 BITTERSWEET AVENUE
GERMANTOWN HILLS, IL 61548

KOCH EXPLORATION COMPANY LLC
PO BOX 301269
DALLAS, TX 75303

KRAKEN OIL & GAS, LLC
945 BUNKER HILL RD., SUITE 1200
HOUSTON, TX 77024

KURT WHITEHEAD MARY BARNUM
HEIR
PO BOX 388
KLAWOCK, AK 99925

KYLE J. NELSON AND BARBARA J.
LANDER
1002 14TH ST. SW
SIDNEY, MT 59270

KYTE MINERAL PROPERTIES LLC
PO BOX 5006
BISMARCK, ND 58502

LEE A. TROUDT AND RENEE K.
TROUDT, A/K/A RENAE K. TROUDT
1588 14TH AVE. SW
SIDNEY, MT 59270

LAGUNA PETROLEUM
CORPORATION
PO BOX 841735
DALLAS, TX 75284-1735

LAMBDA CHI ALPHA NATIONAL
FRATERNITY
11711 N PENNSYLVANIA ST STE 250
CARMEL, IN 46032

L KYLE KIRKLAND
12750 BRIAR FOREST DR STE 403
HOUSTON, TX 77077-2368

LARRY HARRIS
12371 CO RD 351
SIDNEY, MT 59270

LEE ALAN TROUDT
1588 14TH AVE. SW
SIDNEY, MT 59270

LEFTHAND RESOURCES LLC
PO BOX 3498
BOULDER, CO 80307

LEIGHTON L. ZIEGLER AND KAREN
ZIEGLER
1124 COURTNEY CIRCLE
BILLINGS, MT 59105

LINDA J BERGER
23908 NE 115TH LN UNIT 101
REDMOND, WA 98053

LORA L RIVELAND
12721 W ROANOKE AVE
AVONDALE, AZ 85392

LORENA D HAUGEN
810 4TH AVE WEST
WILLISTON, ND 58801

LORI A. NORBY
35244 COUNTY ROAD 126
SIDNEY, MT 59270



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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Surface and Mineral Owner List

Jaws SWD 1
Richland County, MT

LORRAINE SCHMELZER
1201 60TH ST NE
SAUK RAPIDS, MN 56379

LPK MINERAL TRUST DTD 3/1/17
1401 S MAIN ST
WATFORD CITY, ND 58854-6720

MARCELLA R. JONES, AND THE
ESTATE OF CLIFFORD F. JONES
34975 HIGHWAY 23
SIDNEY, MT 59270

MARGARET R FISHER
999 SUNFLOWER LN
SIDNEY, MT 59270

MARILYN ROTHMAN
217 CHELSEA DR.
FOREST, VA 24551

MARTINI PROPERTIES LLC
3703 COLTON BLVD.
BILLINGS, MT 59102

MARVI J DYNNESEN
585 QUIN WAY AVE SE
SALEM, OR 97317-6815

MARVIN J MASSET
PO BOX: 815
BISMARCK, ND 58502-0815

MARY LEE MANTZ
PO BOX 1537
FORSYTH, MT 59327

MICHAEL A. DEGN AND JILL W.
DEGN, AS JOINT TENANTS SARAH
MICHELLE DEGN AND MATTHEW
SCOTT DEGN, BENEFICIARIES OF
TRANSFER ON DEATH MINERAL
DEED
PO BOX 556
SIDNEY, MT 59270

MARY LOU BIKSEN JAMES ALLEN
AS AIF
PO BOX 31027
COLORADO SPRINGS, CO 80931-
1027

MARY J. DIGE, PERSONAL
REPRESENTATIVE OF THE ESTATE
OF BRYAN A. DIGE, DECEASED
2315 BEAVER CREEK RD.
GALLATIN GATEWAY, MT 59730

MATTHEW BERZEL
701 CHESTNUT ST
ANACONDA, MT 59711

MAUREEN A PERDUE
1720 WEST SARAZIN DR
ALHAMBRA, CA 91803

MAXINE GOOSEY
7317 SENEQUOTEE TRL
SPIRIT LAKE, ID 83869

MBI OVERRIDES LLC
103 5TH ST SE
DICKINSON, ND 58601

MEDTANA, LLC
1398 14TH ST. SW
SIDNEY, MT 59270

MELANIE D. FAHRENBRUCH
1143 W. SEA FOG DR.
GILBERT, AZ 85233

MICHAEL A. MORAN AND SHELLEY
T. MORAN
1365 15TH ST. SW
SIDNEY, MT 59270

MICHELLE R LARSON & MELODEE R
KJOS JT
14051 CO RD 351
FAIRVIEW, MT 59221

MICHAEL A. DEGN, PERSONAL
REPRESENTATIVE OF THE ESTATE
OF DEO T. DEGN, DECEASED
PO BOX 556
SIDNEY, MT 59270

MARY STEPPLER
32085 COUNTY ROAD 139
BROCKTON, MT 59213

MICHAEL P. HEIN
1002 W. COAST DR.
GILBERT, AZ 85233

MICHELLE C. WIMETT
17711 HILLBORO PLACE
CANYON COUNTRY, CA 91387

MELISSA WILLIS
206 NW BROWN ST
VERDALE, MN 56481

MONTE J BERZEL
PO BOX 265
MILES CITY, MT 59301

MOON ROYALTY LLC
PO BOX 720070
OKLAHOMA CITY, OK 73172-0070



MORNINGSTAR
OPERATING

Surface and Mineral Owner List
Jaws SWD 1
Richland County, MT

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MONTANA BOARD OF OIL & GAS
CONSERVATION - BILLINGS

MORNINGSTAR OPERATING LLC
400 WEST 7TH ST
FORT WORTH, TX 76102

NANCY KERBEL
7102 GOLF COURSE LN.
SAN JOSE, CA 95139

NATALIE J. BELL
30 PITCHER ROAD
BELFAST, ME 4915

NELS DEGN
12462 S. COMPASS AVENUE
PLAINFIELD, IL 60585

NICHOLAS J. JONES
PO BOX 767
SIDNEY, MT 59270

NORTHLAND ROYALTY CORP
PO BOX 1676
BISMARCK, ND 58502

OMNI COMMUNICATIONS, INC.
102 2ND AVE. SW
SIDNEY, MT 59270

ORLAN SORENSEN
440 ORCHARD RIDGE RD
KALISPELL, MT 59901-7565

OTOOLE OIL INC
PO BOX 529
PLENTYWOOD, MT 59254

PAMELA LARSON-SHERLOCK
25295 DELMAR AVE
NEW PRAGUE, MN 56071-8812

PATRICIA J CHADWICK
1831 5TH ST N
FARGO, ND 58102

PATRICIA JESSEN
4716 14TH ST W
DICKINSON, ND 58601

PATRICIA NELSON
34499 CO RD 124
SIDNEY, MT 59270

PAUL J COLBY
7 RAMSELL WAY
BYFORD WA, AU-UN 6122

PETER RUFFATTO
873 S HILLS DR
BELLINGHAM, WA 98229-6846

PETER MASSET, DAKOTA WEST
ENERGY LLC
PO BOX: 816
BISMARCK, ND 58502-0816

PETER C. SHEEHAN AND NANCY J.
SHEEHAN
442 INDIAN TRAIL
BILLINGS, MT 59105

PHILOSOPHICAL RESEARCH
SOCIETY
3910 LOS FELIZ BLVD
LOS ANGELES, CA 90027

PHOENIX ENERGY ONE LLC
18575 JAMBOREE RD STE 830
IRVINE, CA 92612

PIONEER CEMETERY ASSOC, C/O
NANCY HEDEGAARD
920 13TH ST SW
SIDNEY, MT 59270

PRESTON LONG AND AMBRIA
LONG
1526 11TH AVE. SW
SIDNEY, MT 59270

PURIFIED RESOURCE PARTNERS LLC
PO BOX 77
SIDNEY, MT 59270

R G & BETTY M CHOLEWINSKI
FAMILY TRUST
8248 N RAINBOW VISTA
PRESCOTT VALLEY, AZ 86315-3554

R M MARTIN
2909 PURDUE
CORSICONA, TX 75110

RICHARD HAUGEN
PO BOX 1161
FORSYTH, MT 59327-1161

REECE L. GAIRRETT
1587 13TH AVE. SW
SIDNEY, MT 59270

RENEE K. DYNNESEN
1588 14TH AVE. SW
SIDNEY, MT 59270

RETOVA RESOURCES LP
1485 S COLORADO BLVD STE 300
DENVER, CO 80222

RHONDA DEGN ROBERTS
1805 PATRICIA LANE
BILLINGS, MT 59102

RHONDA L HARRIS
7233 DE COSTA DR NE
ROCKFORD, MI 49341



MORNINGSTAR
OPERATING

Surface and Mineral Owner List
Jaws SWD 1
Richland County, MT

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MONTANA BOARD OF OIL &
GAS CONSERVATION - BILLINGS

RICHLAND COUNTY HOUSING
AUTHORITY
1032 6TH ST. SW
SIDNEY, MT 59270

RALEIGH G. PECK AND DEBRA J.
PECK
1575 10TH AVE. SW
SIDNEY, MT 59270

RICHLAND COUNTY COALITION
AGAINST DOMESTIC VIOLENCE,
INC.
PO BOX 822
SIDNEY, MT 59270

RHONDA RUPP
423 2ND ST NE
SIDNEY, MT 592706-4601

RICHLAND COUNTY, MONTANA
201 WEST MAIN ST.
SIDNEY, MT 59270

RICKY NELSON
1746 SATTLER DR.
CONCORD, CA 94519

ROBERT D DIGE
PO BOX 134
SAND COULEE, MT 59472

RONALD AMUNRUD
2706 TREASURE DRIVE
BILLINGS, MT 59102

RONALD R. AMUNRUD AND GREG
POPP, AS CO-TRUSTEES OF THE
JANET L. AMUNRUD CREDIT TRUST
2706 TREASURE DRIVE
BILLINGS, MT 59102

RONDA M DISHON
1005 18TH ST E
WILLISTON, ND 58801

ROSE H SPIEGEL
41 COUSHOCKER STATE RD
BALA CYNWYD, PA 19004

ROSEANN L. MCFARLAND
410 3RD AVE. SW, APT 118
SIDNEY, MT 59270

RPR1MT, LLC
1511 S. CENTRAL AVE.
SIDNEY, MT 59270

RUBY M DYNNESEN
540 LABRANT ROAD
KALISPELL, MT 59901

SARAH A MCKINLEY
507 14 ST SE
SIDNEY, MT 59270

SASHA BANNISTER
440 RICHARD & LAKE ROAD
FORT COLLINS, CO 80524

SCOTT WHITEHEAD
59-484 KAM HWY
HALEIWA, HI 96712-9624

SHEREE A ALBIN
33791 CO RD 131
SIDNEY, MT 59270-3563

SHERILL L DOMBROSKY
6014 ELYSIAN RD UNIT 101
BILLINGS, MT 59101

SHERYL SORESEN
5317 S PALOUSE HWY APT B112
SPOKANE, WA 99223

SHIRLEY HANSON
150 SKEELS AVE #212
HAMILTON, MT 59840

STACY W. JOHNSON AND
MARCELLA JOHNSON
1261 15TH ST. SW
SIDNEY, MT 59270

STEPHEN TURNER
2612 VIA ARROYO
BULLHEAD CITY, AZ 86442

STEVEN RUFFATTO
4037 HYALITE CT
BILLINGS, MT 59106

STEWART GEOLOGICAL INC
2650 OVERLAND AVE
BILLINGS, MT 59102-7407

SUMMER DANIELS
4681 SPRINGHILL COMMUNITY RD
BELGRADE, MT 59714

SUSAN BEE BROWN
PO BOX 337
DELRAY BEACH, FL 33444

SUSAN BIKSEN-BOND
805 NORTH BROADWAY
FERGUS FALLS, MN 56537

TANA DAWN RUEGAMER
38 MAYPOLE RD
QUINCY, MA 02169

TARA LEE BECKER-KEHLER
3643 E 5TH ST
TUCSON, AZ 85716



MORNINGSTAR
OPERATING

Surface and Mineral Owner List
Jaws SWD 1
Richland County, MT

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MONTANA BOARD OF OIL &
GAS CONSERVATION & REGULATION

TEREDO ROYALTIES LLP
PO BOX 1602
BISMARCK, ND 58502-1602

TERRY VERHASSELT
35019 COUNTY ROAD 122
SIDNEY, MT 59270

THE HAMILL FOUNDATION
14701 ST MARYS LANE SUITE 290
HOUSTON, TX 77079-2923

THE LYAL & SYBIL PURCELL FAMILY
TRUST U/A DTD 9/22/11
27 4TH ROAD
MARSHFIELD, MA 02050

THOMAS G. BAXTER AND
KRISTIN E. BAXTER
703 SOUTH ELLERY AVENUE
FAIRVIEW, MT 59221

THE STEVEN FROMAN 2014
FAMILY TRUST
2521 27 AVE S
MINNEAPOLIS, MN 55406-1309

TUSIND TAK LLC
11153 HWY 16
SAVAGE, MT 59262-9414

THE TERMO COMPANY
PO BOX 2767
LONG BEACH, CA 90801

THIEL SERVICE CO. LLC
1807 S. CENTRAL AVE.
SIDNEY, MT 59270

TURNAROUND PROFESSIONALS LLC
12011 S. KIMBALL AVE.
CALDWELL, ID 86305

THOMAS TURNER
1800 140TH AVE. NE
HAM LAKE, MN 55304

TJK FAMILY PROPERTIES LLC
PO BOX 50715
BILLINGS, MT 59105

TRACY L GARLAND
1001 6TH AVE SE
SIDNEY, MT 59270

TRACY M. SUNWALL
1170 14TH ST. SW
SIDNEY, MT 59270

TRENTON FREDERICK KINDOPP
2704 MOUNTAIN VIEW DR
CARLSBAD, NM 88220

TRUE OIL LLC
PO BOX 2360
CASPER, WY 82602

TUMBLEWEED VENTURES, INC.
PO BOX 50653
BILLINGS, MT 59105

TURMOIL INC
PO BOX 5
BISMARCK, ND 58502

THE REVOCABLE TRUST OF
KENNETH C. DIGE AND STELLA C.
DIGE DATED JANUARY 30, 2001
15114 148TH ST. E
ORTING, WA 98360

THE MARGARET JOHNSON BARR
REVOCABLE LIVING TRUST UNDER
AGREEMENT DATED
OCTOBER 14, 2009
33120 XENON DR. NW
PRINCETON, MN 55371

UNCLE JOES ENTERPRISE LLC, C/O
FIRST NATIONAL BANK & TRUST,
ATTN: TRUST DEPT
PO BOX 1827
WILLISTON, ND 58802-1827

UNIVERSITY SYSTEM OF NEW
HAMPSHIRE CHARLES STILLINGS
TRUST
27 CONCORD RD
DURHAM, NH 03824

WANDA SCHROEDL
3912 178TH PL NE
ARLINGTON, WA 98223-8791

WB VAN HOOK SR NK VAN HOOK
WB VAN HOOK JR AS JOINT
TENANTS
12653 CO RD 352
SIDNEY, MT 59270

WENDI CHAMBERLAIN
1364 14TH ST. SW
SIDNEY, MT 59270

WHITE ROCK OIL & GAS GP II LLC
5810 TENNYSON PKWY STE 500
PLANO, TX 75024

WHITE ROCK OIL & GAS
PARTNERS II-B LP
5810 TENNYSON PKWY STE 500
PLANO, TX 75024



MORNINGSTAR
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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Affidavit of Notification to Surface and Mineral Owners

Jaws SWD 1

Richland County, MT

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

IN THE MATTER OF THE APPLICATION FOR
MORNINGSTAR OPERATING LLC FOR THE HEARING
OF ITS REQUEST FOR A UIC PERMIT FOR THE JAWS
SWD 1 WELL, 2387' FSL 1037' FEL, SECTION 5, T22N,
R59E, P.M.M. RICHLAND COUNTY, MONTANA, FOR
THE PURPOSE OF WATER INJECTION

AFFIDAVIT OF NOTIFICATION

Date: January 6, 2026

State of Utah
County of Uintah

Amy Doebele, being first duly sworn, deposes and says:

That Notice of advising of MorningStar Operating LLC' 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 6th day of January 2026, postage prepaid, First Class USPS Mail. This affidavit is given as evidence of compliance with A.R.M. 36.22.1410.


Amy Doebele
Authorized Agent

Subscribed and sworn before me on this 6th day of January, 2026.


Notary Public of the State of UT
My Commission Expires: May 19, 2026





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MONTANA BOARD OF OIL & GAS CONSERVATION

January 6, 2026

To: Surface owner within ¼ mile of the proposed saltwater disposal well.

RE: Proposed Saltwater Disposal Well

Location of proposed Disposal Well & Facility: Jaws SWD 1

Surface Hole Location: NE 1/4 SE 1/4, Section 5, Township 22N, Range 59E. P.M.M.

Bottom Hole Location: NE 1/4 SW 1/4, Section 4, Township 22N, Range 59E. P.M.M.

Richland County, Montana

This letter is to advise you that MorningStar Operating LLC (MorningStar) plans to drill and complete the subject well into a Class II saltwater disposal well. Water will be injected into the Dakota group for the purpose of disposal operations.

In accordance with the rules and regulations of the Montana Board of Oil & Gas Conservation (MBOG), MorningStar is required to give notice that it has made an application to perform this work to each surface owner within a one-quarter mile radius of the injection site. The MBOGC will conduct a hearing regarding this application. For the hearing date, please contact the MBOGC by phone at (406) 656-0040, or visit their website at <https://dnrc.mt.gov/BOGC/>. Your comments or objections regarding this application may be directed to the MBOGC at that time.

Written comments or objections may be submitted prior to the hearing to the following address:

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

Please direct any and all of your communication regarding this proposed project, including more information about the upcoming hearing, to Mr. John Gizicki with the MBOGC at (406) 656-0040 or to Dave Harford with MorningStar Operating LLC at (817) 334-7800.

Sincerely,

Amy Doebele

Authorized Agent for MorningStar Operating LLC

400 W 7TH STREET * FORT WORTH, TX 76102 * 817.334.7800



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JAN 08 2026

NOTED: APPROVED BY MT. A. CHOCSENWICH, ESQ. 1

January 6, 2026

To: Mineral lease owner within ¼ mile of the proposed saltwater disposal well.

RE: Proposed Saltwater Disposal Well

Location of proposed Disposal Well & Facility: Jaws SWD 1

Surface Hole Location: NE 1/4 SE 1/4, Section 5, Township 22N, Range 59E. P.M.M.

Bottom Hole Location: NE 1/4 SW 1/4, Section 4, Township 22N, Range 59E. P.M.M.

Richland County, Montana

This letter is to advise you that MorningStar Operating LLC (MorningStar) plans to drill and complete the subject well into a Class II saltwater disposal well. Water will be injected into the Dakota group for the purpose of disposal operations.

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Sincerely,

Amy Doebele
Authorized Agent for MorningStar Operating LLC

400 W 7TH STREET * FORT WORTH, TX 76102 * 817.334.7800



MORNINGSTAR
OPERATING

Affidavit of Publication
Jaws SWD 1
Richland County, MT

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MT BOARD OF OIL &
GAS CONSERVATION

Independent Record

AFFIDAVIT OF PUBLICATION

Helena Independent Record
2222 N. Washington St
Helena, Montana 59602
(123) 456-7890

State of New Jersey, County of Camden, ss:

Laquansay Nickson Watkins, being first duly sworn, deposes and says: That (s)he is a duly authorized signatory of Column Software, PBC, duly authorized agent of Helena Independent Record, a newspaper of general circulation published that is a "legal newspaper" as that is published daily in the City of Helena, in the County of Lewis and Clark, State of Montana, and has charge of the Advertisements thereof.

If this certification is for the State of Montana, I hereby certify that I have read sec. 18-7-204 and 18-7-205 MCA, and subsequent revisions, and declare that the price or rate charged the State of Montana for the publication for which claim is made in printed copy in the amount of \$152.950 is not in excess of the minimum rate charged any other advertiser for publication of advertisement, set in the same size type and published for the same number of insertions, further certify that this claim is correct and just in all respects, and that payment or credit has not been received.

PUBLICATION DATES: January, 3 2026

NOTICE ID: 5bYHbaF5wJcyqlw9MwVvY

PUBLISHER ID: COL-MT-201977

NOTICE NAME: Morningstar Operating, LLC - Jaws SWD 1
Publication Fee: \$152.95

(signed) Laquansay Nickson Watkins

VERIFICATION

State of New Jersey
County of Camden

Subscribed in my presence and sworn to before me on this: 01/05/2026

Sharon E. Thomas-Pope

Notary Public

Notarized remotely online using communication technology via Proof.

SHARON E THOMAS-POPE
NOTARY PUBLIC
STATE OF NEW JERSEY
My Commission Expires January 23, 2027

MorningStar Operating - Jaws SWD 1
BEFORE THE BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
In the Matter of the application of

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

for a Class II Injection well permit.

Name and address of Applicant:
400 W 7th Street

MorningStar Operating LLC
Fort Worth, TX 76102

Legal Description including County and Approximate Footages
of Surface Location of Proposed Oil and Gas Well:
(and projected bottom-hole location, if a directional or horizontal
well)

Jaws SWD 1
Surface Hole: 2387' FSL 1037' FEL
NESE Section 5, Township 22 North, Range 59 East
Bottom Hole: 1926' FSL 1404' FWL
NESW Section 4, Township 22 North, Range 59 East
Richland County, MT

Source of fluids to be injected
Produced water from Three Forks (Bakken) wells
Zone or formation into which injection will occur, including depth
Dakota from 5,470' -8000'

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 meeting upon the application of MorningStar
Operating 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 & Gas Hearing Room at 2535
St. John's Ave. Billings, Montana, beginning at 9:00 am on
Thursday, February 12, 2026.
January 3, 2026 COL-MT-201977 MNAXLP



MORNINGSTAR
OPERATING

Affidavit of Publication

Jaws SWD 1

Richland County, MT

**SIDNEY
HERALD**

AFFIDAVIT OF PUBLICATION

Sidney Herald
310 2nd Ave NE
(406) 433-2403

I, Edmar Corachia, of lawful age, being duly sworn upon oath depose and say that I am an agent of Column Software, PBC, duly appointed and authorized agent of the Publisher of Sidney Herald, a publication that is a "legal newspaper" as that phrase is defined for the city of Sidney, for the County of Richland, in the state of Montana, that this affidavit is Page 1 of 1 with the full text of the sworn-to notice set forth on the pages that follow, and that the attachment hereto contains the correct copy of what was published in said legal newspaper in consecutive issues on the following dates:

PUBLICATION DATES:
Jan. 3, 2026

Notice ID: gmArFdqjdjjC0gk2d7S
Publisher ID: SHM000651
Notice Name: Morningstar Operating, LLC - Jaws SWD 1

PUBLICATION FEE: \$105.39

Request of
Alesha Jones

I declare under penalty of perjury and under the laws of the state of Montana that the foregoing is true and correct.

Edmar Corachia

Agent

VERIFICATION

State of Florida
County of Orange

Signed or attested before me on this: 01/05/2026

[Signature]

Notary Public
Notarized remotely online using communication technology via Proof.

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MONTANA BOARD OF OIL & GAS
CONSERVATION

Public Notice
MorningStar Operating - Jaws SWD 1
BEFORE THE BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA
In the Matter of the application of

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

for a Class II injection well permit.

Name and address of Applicant:
400 W 7th Street

MorningStar Operating LLC
Fort Worth, TX 76102
Legal Description including County and Approximate Footages of Surface Location of Proposed Oil and Gas Well:
(and projected bottom hole location, if a directional or horizontal well)
Jaws SWD 1
Surface Hole: 2017' F&L 1037' FEL
NESE Section 5, Township 22 North, Range 59 East
Bottom Hole: 1426' F&L 1404' F&L
NESW Section 4, Township 22 North, Range 59 East
Richland County, MT
Source of fluids to be injected
Produced water from Three Forks (Bakken) well
Zone or formation into which injection will occur, including depth
Dakota from 5,470'-8600'

An aquifer description 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 26.22, 14.08, Administrative Rules of Montana, the Montana Board of Oil and Gas Conservation will hold a public meeting upon the application of MorningStar Operating 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 & Gas Hearing Room at 2535 St. John's Ave. Billings, Montana, beginning at 9:00 am on Thursday, February 12, 2026.
Date: January 3, 2026
SHM200051



PAMELA BAEZ
Notary Public - State of Florida

Commission # HH 732408
Expires on October 19, 2029



January 5, 2026

Mr. John Gizicki
Underground Injection Control (UIC) Program Director
Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

RE: Request for Aquifer Exemption
Jaws SWD 1 located in Section 5 of T22N R59E
Richland County, Montana

Dear Mr. John Gizicki,

Please accept the Aquifer Exemption request to supplement the MorningStar Operating, LLC's Jaws SWD 1 Disposal Application for the February 12, 2026 Montana Board of Oil and Gas hearing.

The Dakota/Lakota are being evaluated for injection. There is water data available on the Dakota/Lakota. The assumption is that an aquifer exemption will be required unless water quality data from the Jaws SWD 1 indicates water from the injection zone is not acceptable as USDW. An aquifer exemption is required if the proposed injection zone contains water that is less than 10,000 ppm of total dissolved solids (TDS) and therefore defined as an Underground Source of Drinking Water (USDW).

Swab analysis from the Lakota Formation (noted as Lower Dakota in the water analysis report in Exhibit 6A) outside the area of review indicates the TDS is greater than 10,000 ppm. There is swab analysis from the Dakota Formation (noted as Upper Dakota in the water analysis report in Exhibit 6A) outside the area of review that indicates the TDS is less than 10,000 ppm but greater than 3,000 ppm. The TDS of the Dakota and Lakota will be confirmed with swab results upon completion. In addition to swab results, cost analysis data indicates that a Dakota/Lakota freshwater supply well in this area is unlikely. The basis of the exemption is that the Dakota/Lakota does not currently serve as a source of drinking water because the Dakota/Lakota is situated at a depth which makes recovery of water for drinking water purposes economically or technologically impractical.

Based on data from numerous published sources, two aquifers in the area meet the criteria of a USDW. These are shallow alluvium within the Tertiary Fort Union sandstone aquifer and the Cretaceous Fox Hills Hell Creek sandstone aquifer. Neither of these would be affected by injection into the proposed location. There are 9 water wells that are active and 1 abandoned within the ¼ mile area of review (AOR). There are 26 water wells, not within the ¼ mile AOR, but within ½ mile expanded view of the Jaws SWD 1. There are no water supply wells penetrating the Dakota/Lakota formation within ½ mile of the Jaws SWD 1, which is specifically requested information per 36.22.1418(1)(a).

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To protect freshwater zones, drilling practices include drilling through these possible freshwater zones and setting surface casing. Surface casing is cemented to surface. There are only gamma ray logs that run through the Fox Hills formations due to this formation being isolated behind casing and cement. To supplement information on the depth of possible freshwater zones, MorningStar references Montana Bureau of Mines and Geology reports on groundwater for the area, namely, the mapping work by Larry Smith entitled "Depth to the Fox Hills-Lower Hell Creek Aquifer, Lower Yellowstone River Area" published in MBMG's GWAA- Montana Ground-Water Assessment Atlas (1-B-03), 1998, which estimates the base of the Fox Hills at approximately 1200 feet of depth in the Jaws SWD 1 area. Underground sources of drinking water (USDW) TDS reports to the base of the Fox Hills are available in the area and show values less than 1200 mg/L.

The Dakota/Lakota are not used for USDW in this area due to the existence of shallower freshwater aquifers. Based on recent drilling estimates using a water well rig, the cost to drill a 1,200-foot water well with rathole through the Fox Hills including the pump is approximately \$569,000. The cost to drill and complete a 5000-foot Dakota/Lakota water well would require a full drilling rig and cost approximately \$1,499,000. There would also be additional costs to treat the Dakota/Lakota water, greatly exceeding the costs to treat the Fox Hills water. See Exhibit 7A.

The Environmental Protection Agency (EPA), in UIC guidance 34, states that the minimum data set needed for aquifer exemptions will include at least:

1. *All oil and gas boreholes within the area, all public and private water wells within the area and at least ¼ mile beyond the boundary of any existing wellhead protection areas, and the locations of all relevant water samples.*
 - a. Water wells located within ¼ mile of the proposed Jaws SWD 1 are listed below:

Well Name	GWIC ID	Location	Use	Feet from SWD SH (ft)	Total Depth (ft)
Ruffato Quinto	35800	Sec 5, T22N, R59E 47.694504, -104.166664	Domestic, Irrigation	361	39
The Depot	35801	Sec 5, T22N, R59E 47.6959, -104.1696	Public Water Supply	757	41
Fisher Land Develop.	35802	Sec 5, T22N, R59E 47.69543, -104.17074	Unknown	901	41
The Sunrise Inn	165556	Sec 5, T22N, R59E 47.6951, -104.1702	Public Water Supply	781	38
Sunrise Motel	254900	Sec 5, T22N, R59E 47.6953, -104.1697	Commercial	645	43
Sunrise Motel	254901	Sec 5, T22N, R59E 47.6947, -104.17	Commercial	769	43
B And B Rentals	258730	Sec 5, T22N, R59E 47.694504, -104.172099	Domestic	1287	35.5
B & B Rentals	259050	Sec 5, T22N, R59E 47.694967, -104.164627	Domestic (abandoned)	630	37
J Varhesselt	700592	Sec 5, T22N, R59E 47.698, -104.1711	Domestic, Stockwater	1320	15
Cemetery	700589	Sec 4, T22N, R59E 47.698, -104.1605	Domestic	1766	20



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- b. There are no water samples available from wells within the ¼ mile AOR. There is 1 water well sample from the Richland County Conservation District-Sid 1 well (GWIC ID 239138) available within the ½ mile area. See Exhibit 5A for sample analysis and Exhibit 2A for location of water well.
- c. Water samples for the Dakota/Lakota formations are shown in Exhibit 6A.
- d. There are no Dakota/Lakota oil producing wells within the ¼ mile or ½ mile area. See Exhibit 1A.
- e. All water wells and producing wells within a ¼ mile and ½ mile area are shown on Exhibit 2A.

There are currently no oil wells within the ¼ mile AOR. There are 4 planned horizontal Middle Bakken wells to be drilled from the same pad as the Jaws SWD 1. The proposed Middle Bakken wells will have 7-inch casing through the proposed disposal zone of the wellbores. Top of cement for the 4 locations will cover the proposed disposal zone, and a CBL will be run to confirm TOC on each. There is one producing well with a lateral penetrating the AOR at around 10,120' TVD in the Middle Bakken, the Andersen 1-4H (SESE of Sec 4 of T22N R59E), operated by MorningStar Operating, whose surface hole is located 4042 feet to the east of the nearest point of the proposed SWD.

Not within the ¼ mile area but within the ½ mile area, the Simonsen 44X-5 (SESE, Section 5 of T22N R59E) is a producing well located 2100 feet south of the proposed SWD. The Simonsen 44X-5 was drilled in 2006 as a horizontal development in the Middle Bakken. Surface casing was set at 1562' MD and cemented with 515 sacks. Within the same ½ mile area, the Dige 6-4 (SESW, Section 4 of T22N R59E) is a producing well located 1550 feet north of the proposed SWD. The Dige 6-4 was drilled in 1981 as a vertical development in the Mission Canyon. Surface casing was set at 1710' MD and cemented with 870 sacks. There is one producing well with a lateral penetrating the ½ mile area at around 10,110' TVD in the Middle Bakken, the Sonny 24X-16BXC (SESW of Section 16 of T22N R59E), whose surface hole is located 11350 feet to the south of the nearest point of the proposed SWD.

- 2. *Narrative description of the proposed exempted aquifer listing formation name, approximate depth or elevation, confining zone, as well as geological definition of the exempted area. Include adequate wireline logs to demonstrate vertical confinement from sources of drinking water.*
 - a. The Jaws SWD 1 may be completed into the Dakota and Lakota. See Exhibit 3A for a cross section of wireline logs showing the vertical confinement of the Dakota/Lakota formation and Exhibit 4A for available wireline logs of the injection interval.
 - b. Water quality information for the proposed disposal zone in the immediate area of the Jaws SWD 1 is not available. However, a water sample from the Dakota/Lakota in the RR Lonetree Edna 1-13 SWD located 15 miles west of the proposed disposal site had total dissolved solids between 5,173 to 10,352 mg/L, and water in the Jaws



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SWD 1 is expected to be similar. The samples from the Lonetree Edna 1-13 were acquired by swab testing the interval and measuring the TDS for the interval. See Exhibit 6A. The Dakota (identified as Upper Dakota on the report) TDS lies between the 3,000 ppm and 10,000 ppm cutoff and required an aquifer exemption in that well.

- c. Proposed injection zones for the Jaws SWD 1 are as follows and can be viewed in the wellbore diagram in Exhibit 8A. Depths are shown below:

Formation	Lithology	Est. TVD Top (ft)	Est. TVD Base (ft)	Est. TVT Net pay (ft)	Pressure (PSI)	Porosity
Dakota	Sandstone	4999	5435	76	2250	22%
Lakota	Sandstone	5435	5509	16	2400	22%

Depth and net pay for each of the proposed injection zones are estimated from the Cement Bond Log with Gamma Ray ran April 30, 2006, on the Simonsen 44X-5. The porosity is based on sonic log estimates from the Becker 8-4 (1 mile east). The porosity was derived from a sonic log curve calculated using a consolidated sandstone matrix. Formation pressure was estimated using a water gradient of 0.435 psi/ft.

- d. The upper confining formation for the proposed injection zone is the Cretaceous Skull Creek formation. It is comprised of clastic, shallow marine deposits composed of medium-dark gray shales, calcareous, micaceous, and glauconitic in part, interbedded with siltstones. The Skull Creek is 150 feet thick in this area.

The lower confining formation for the proposed injection zone is the Jurassic Morrison, Swift, and Rierdon formations. The Swift lies immediately below the Lakota and is primarily made up of transgressive-regressive, clastic, shallow marine deposits composed of dark gray-green shales, slightly calcareous, dark gray-green, waxy shales, and is commonly interbedded with glauconitic siltstones and sandstones with occasional carbonate packstones and grainstones. The lower confining interval is approximately 702 feet of impermeable rock facies.

The actual fracture gradients for these confining zones are unknown, but fracture gradients for the confining shale layers are known to be higher than those for the underlying sandstone injection zone.

Formation	Lithology	Est. TVD Top (ft)	Est. TVD Base (ft)	Thickness (ft)
Skull Creek	Shale	4849	4999	150
Mrsn/Swft/Rrdn	Shale	5509	6211	702

Considering the vertical distance to any USDW and the maximum feasible injection rate that could occur, the likelihood of a fracture extending from the proposed disposal zone to any USDW under any reasonable disposal conditions is considered low.

JAN 08 2026



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3. *Thickness, area, and average porosity of the reservoir to be exempted. If the proposed UIC well within the exempted area is an SWD, calculate the volume of connate water that will be displaced by the injectate using the following formula (this pore volume figure is made part of the MBOGC permit for the included SWD well. For example, if the pore volume calculation shows the exempted aquifer to contain 5.0 million barrels within the exempted area, the UIC permit will terminate when the cumulative injected volume reaches 5.0 million barrels of saltwater).*

$$\text{Pore Volume (barrels)} = ((\pi * r^2 + 2 * r * l) * h * f) / 5.63$$

Where: r = radius of the exempted area, in feet (usually 1320')

h = average thickness, in feet, of the proposed exempted aquifer

f = average porosity, in decimal, of the proposed exempted aquifer

l = lateral length, in feet

The computed pore volume would be:

$$\text{Dakota: } ((\pi * 1320^2 + 2 * 1320 * 2483) * 76 * 0.22) / 5.63 = 24,642,013 \text{ barrels}$$

$$\text{Lakota: } ((\pi * 1320^2 + 2 * 1320 * 2483) * 16 * 0.22) / 5.63 = 5,187,792 \text{ barrels}$$

$$\text{Radius of Emplacement Fluid} = (Q * t / (\pi * l * \text{porosity}))^{0.5}$$

Where: t = time, in days

Q = injection rate, cubic feet per day

Assuming:	Minimum Water Injection Rate	0	BWPD	or	0	FT ³ /DAY
	Median Water Injection Rate	3000	BWPD	or	16844	FT ³ /DAY
	Maximum Water Injection Rate	10000	BPWD	or	56146	FT ³ /DAY
	Injection Period	100	YEARS	or	36500	DAYS
	Net Length (Thickness)	2483	FEET			
	Average Porosity	22%				

The computed radius of emplacement would be:

$$(16844 * 36500 / (\pi * 2483 * 0.22))^{0.5} = 599 \text{ FT} = 0.11 \text{ miles}$$

4. *Water quality analysis of the aquifer for exemption. How was water quality determined?*



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- a. Water samples from the RR Lonetree Edna 1-13, located 15 miles west of the Jaws SWD 1 were used. See Exhibit 6A for swab results of the water samples.

In addition to the technical data, the affidavits of notification to all concerned parties are attached as Exhibit 9A and 10A. Please contact us if there are any questions regarding this submission.

Sincerely,

A handwritten signature in blue ink, appearing to read 'B. Savage'.

Brodie Savage

Vice President- Operations Engineering

817-334-7745

bsavage@txopartners.com

A handwritten signature in blue ink, appearing to read 'E. Donovan'.

Erin Donovan

Manager- Geology

817-334-7871

edonovan@txopartners.com



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GAS CONSERVATION • BILLINGS

List of Exhibits

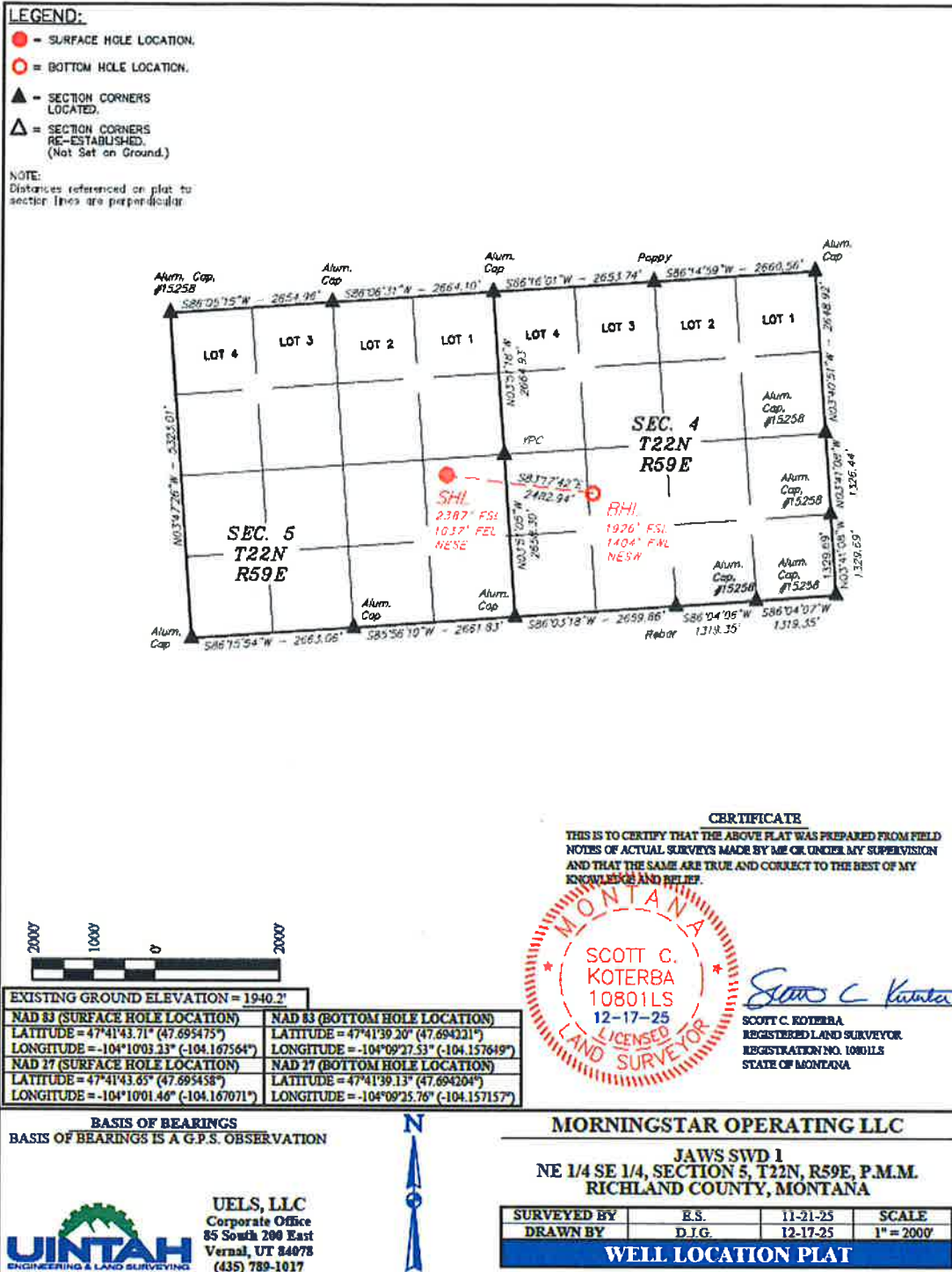
Exhibit 1A	Map of General Area
Exhibit 2A	Map of Freshwater Wells within Area of Review (AOR)
Exhibit 3A	Geologic Cross Section of the Dakota/Lakota
Exhibit 4A	Log of Injection Interval
Exhibit 5A	Water Well Sample Analysis
Exhibit 6A	Water Analysis of Injection Interval
Exhibit 7A	Estimated Cost of Drilling deep USDW
Exhibit 8A	Proposed Wellbore Diagram and Directional Plan
Exhibit 9A	Surface and Mineral Owner List
Exhibit 10A	Affidavit of Notification to Surface and Mineral Owners
Exhibit 11A	Affidavit of Publication in Sidney Herald & Helena Independent Record



MORNINGSTAR
OPERATING

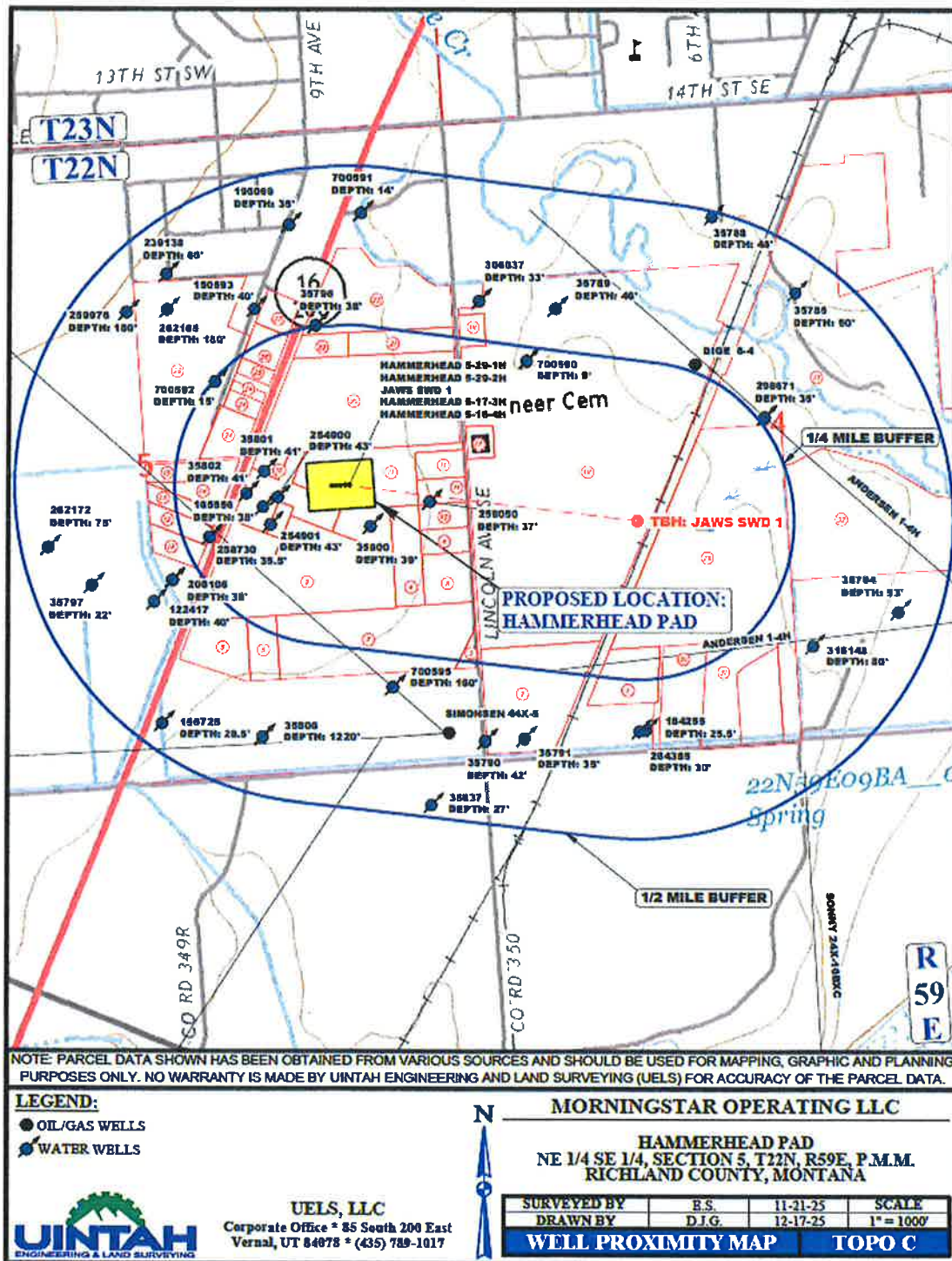
JAN 08 2026

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Map of General Area
Jaws SWD 1
Section 5 of T22N-R59E
Richland County, Montana

JAN 08 2026

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Map of 1/4 mile AOR and Freshwater Wells

Jaws SWD 1

Section 5 of T22N-R59E

Richland County, Montana



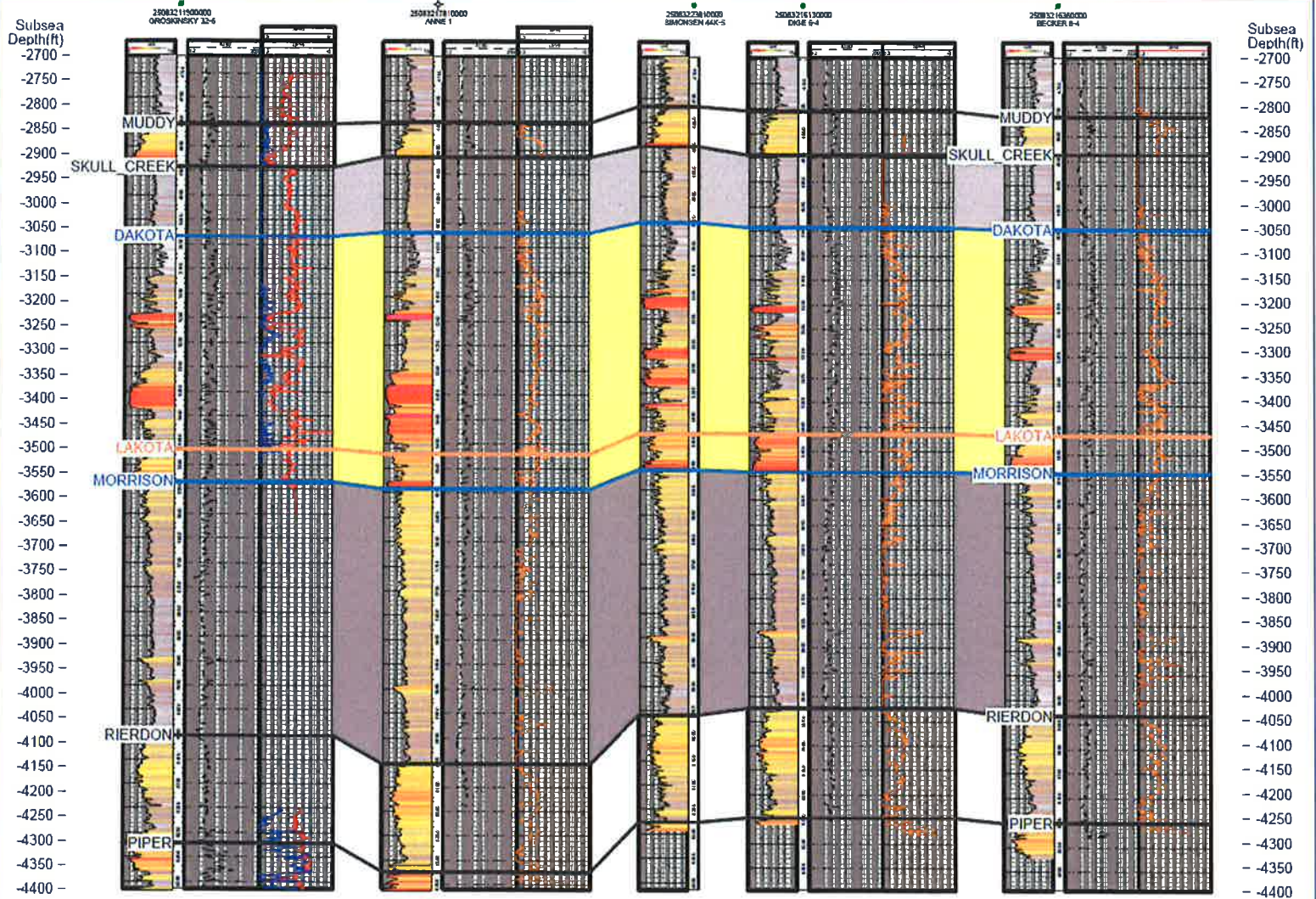
MORNINGSTAR
OPERATING

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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

WILLISTON BASIN



Cross Section
Jaws SWD 1
Section 5 of T22N-R59E
Richland County, Montana

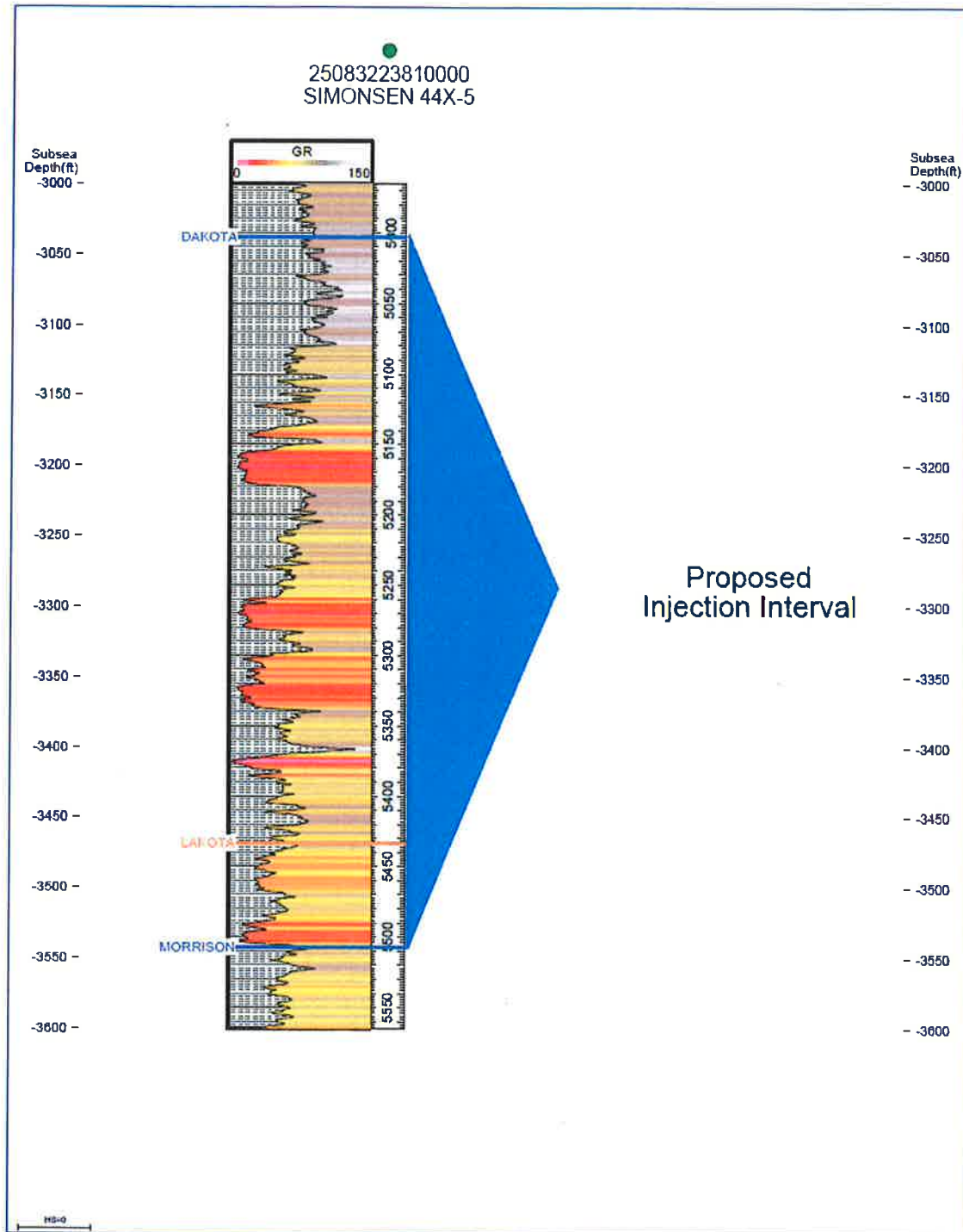


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GAS CONSERVATION • BILLINGS



Log of Injection Interval
Jaws SWD 1
Section 5 of T22N-R59E
Richland County, Montana



MORNING STAR
OPERATING

Freshwater Sample Analysis

Jaws SWD 1

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GAS CONSERVATION • BILLINGS

12/16/25, 4:59 PM

Montana's Ground-Water Information Center (GWIC) | Analysis Report | V.12.2025

Ground-Water Information Center Water Quality Report

Report Date: 12/16/2025

Site Name: RICHLAND COUNTY CONSERVATION DISTRICT-SID 1

[Compare to Water Quality Standards](#)

Location Information

Sample Id/See Id: 2008Q0369 / 239138
Location (TRS): 22N 59E 05 ABCC
Latitude/Longitude: 47° 42' 1" N 104° 10' 22" W
Datum: NAD83
Altitude: 1949.4
County/State: RICHLAND / MT
Site Type: WELL
Geology: 1105NGR
USGS 7.5' Quad:
PWS Id:
Project: LYBC

Sample Date: 3/12/2008 11:30:00 AM
Agency/Sampler: MBMG / JCR
Field Number: 239138
Lab Date: 4/1/2008
Lab/Analyst: MBMG / WO
Sample Method/Handling: PUMPED / 3210
Procedure Type: DISSOLVED
Total Depth (ft): 38
SWL-MP (ft): 16.04
Depth Water Enters (ft): 38

Major Ion Results

	mg/L	meq/L		mg/L	meq/L
Calcium (Ca)	71.900	3.588	Bicarbonate (HCO ₃)	409.500	6.712
Magnesium (Mg)	59.600	4.904	Carbonate (CO ₃)	0.000	0.000
Sodium (Na)	69.600	3.028	Chloride (Cl)	28.200	0.796
Potassium (K)	6.530	0.167	Sulfate (SO ₄)	226.000	4.708
Iron (Fe)	0.005	0.000	Nitrate (as N)	0.283	0.020
Manganese (Mn)	0.120	0.004	Fluoride (F)	0.226	0.012
Silica (SiO ₂)	20.800		Orthophosphate (as P)	<0.05	0.000
Total Cations		11.741	Total Anions		12.247

Trace Element Results (µg/L)

Aluminum (Al):	<2.0	Cesium (Cs):	<0.1	Molybdenum (Mo):	<10.0	Strontium (Sr):	1,043.000
Antimony (Sb):	<0.1	Chromium (Cr):	1.700	Nickel (Ni):	<2.0	Thallium (Tl):	NR
Arsenic (As):	4.580	Cobalt (Co):	1.030	Niobium (Nb):	14.200	Thorium (Th):	<0.05
Barium (Ba):	39.200	Copper (Cu):	1.620	Neodymium (Nd):	<0.1	Tin (Sn):	<0.1
Beryllium (Be):	<0.1	Gallium (Ga):	0.340	Palladium (Pd):	<0.2	Titanium (Ti):	<1.0
Boron (B):	280.000	Lanthanum (La):	<0.1	Praseodymium (Pr):	<0.1	Tungsten (W):	<0.5
Bromide (Br):	<100	Lead (Pb):	<0.2	Rubidium (Rb):	12.300	Uranium (U):	7.740
Cadmium (Cd):	<0.1	Lithium (Li):	29.000	Silver (Ag):	<0.05	Vanadium (V):	2.550
Cerium (Ce):	<0.1	Mercury (Hg):	NR	Selenium (Se):	3.300	Zinc (Zn):	3.860
						Zirconium (Zr):	1.080

Field Chemistry and Other Analytical Results

**Total Dissolved Solids (mg/L):	685.48	Field Hardness as CaCO ₃ (mg/L):	NR	Ammonia (mg/L):	NR
**Sum of Diss. Constituents (mg/L):	893.51	Hardness as CaCO ₃ :	424.85	T.P. Hydrocarbons (µg/L):	NR
Field Conductivity (µmhos):	966	Field Alkalinity as CaCO ₃ (mg/L):	NR	PCP (µg/L):	NR
Lab Conductivity (µmhos):	1061	Alkalinity as CaCO ₃ (mg/L):	336.27	Phosphorus, TD (mg/L):	<0.05
Field pH:	7.57	Ryznar Stability Index:	6.773	Field Nitrate (mg/L):	NR
Lab pH:	7.46	Sodium Adsorption Ratio:	1.4777	Field Dissolved O ₂ (mg/L):	0.400
Water Temp (°C):	9.4	Langlier Saturation Index:	0.343	Field Chloride (mg/L):	NR
Air Temp (°C):	9	Nitrite (mg/L as N):	<0.05	Field Redox (mV):	30.7
Nitrate + Nitrite (mg/L as N):	NR	Hydroxide (mg/L as OH):	NR	Lab, Dissolved Organic Carbon (mg/L):	NR
Total Kjeldahl Nitrogen (mg/L as N):	NR	Lab, Dissolved Inorganic Carbon (mg/L):	NR	Lab, Total Organic Carbon (mg/L):	NR
Total Nitrogen (mg/L as N):	NR	Acidity to 4.5 (mg/L CaCO ₃):	NR	Acidity to 8.3 (mg/L CaCO ₃):	NR
As(III) (µg/L):	NR	As(V) (µg/L):	NR	Total Susp Solids (mg/L):	NR

Sample Condition: CLEAR. WELL PRODUCED A LOT OF SAND.

Notes

Field Remarks:

Lab Remarks:

Explanation: mg/L = milligrams per Liter; µg/L = micrograms per Liter; ft = feet; NR = No Reading in GWIC

Qualifiers: J = Estimated quantity above detection limit but below reporting limit; P = Preserved sample; S = Method of standard additions; U = Undetected quantity below detection limit; * = Duplicate analysis not within control limits; ** = Sum of Dissolved Constituents is the sum of major cations (Na, Ca, K, Mg, Mn, Fe) and anions (HCO₃, CO₃, SO₄, Cl, SiO₂, NO₃, F) in mg/L. Total Dissolved Solids is reported as equivalent weight of evaporation residue.

Disclaimer

These data represent the contents of the GWIC databases at the Montana Bureau of Mines and Geology at the time and date of the retrieval. The information is considered unpublished and is subject to correction and review on a daily basis. The Bureau warrants the accurate transmission of the data to the original end user. Retransmission of the data to other users is discouraged and the Bureau claims no responsibility if the material is retransmitted.



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Water Analysis of Injection Interval- Lower Dakota

Jaws SWD 1

Richland County, MT

SATHE ANALYTICAL LABORATORY, INC.

301 W. 2ND STREET

BUILDING 1517
WILLISTON, ND. 58801

701 572-3670

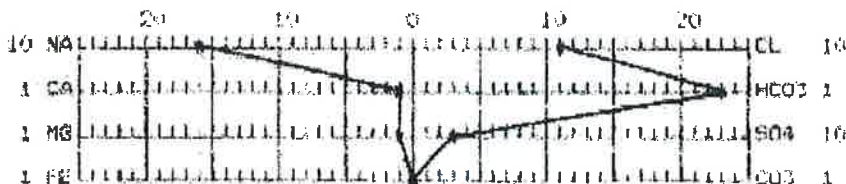
WATER ANALYSIS REPORT

OPERATOR: ENERPLUS RESOURCES L.P. DATE: 4/7/09
WELL NO.: LONE TREE EDNA 1-17 LAB NO.: W-09-1494
FIELD: not listed FORMATION: Lower Dakota
COUNTY: Richland INTERVAL: 3844 - 3864'
STATE: MT DST #:
LOC: not listed SAMPLE 11TH SWAB RUN-TOTAL 105 BBLS

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
SODIUM	3580.0	155.7	CHLORIDE	2766.1	106.2
CALCIUM	29.6	1.2	CARBONATE	0.0	0.0
MAGNESIUM	11.4	0.9	BICARBONATE	1415.7	25.2
IRON	0.5	0.0	SULFATE	1532.2	31.9
POTASSIUM	17.4	0.4	NITRATE	0.0	0.0
BARIUM	0.0	0.0			
CHROMIUM	0.0	0.0			

SPECIFIC GRAVITY @ 77°F 1.000 FR 7.55
RESISTIVITY @ 77°F, ohm-meters 0.912 MCL (Calc.) 6210.2
TOTAL DISSOLVED SOLIDS (Calc.) MG/L 10500.0 HYDROGEN SULFIDE NEG

WATER ANALYSTS PATTERN - MEQ/L



REMARKS - 11th RUN SWAB - TOTAL 105 BBL 4/8/09.
Received 4/7/09.

DISTRIBUTION OF RESULTS
Rocky Border -- Sidney MT.
Lynn Sundby -- Halliburton - Williston ND.

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Water Analysis of Injection Interval- Upper Dakota

Jaws SWD 1

Richland County, MT

SATHE ANALYTICAL LABORATORY, INC.

201 W. 2ND STREET

P.O. BOX 1527
WILLISTON, ND. 58801

701-572-3632

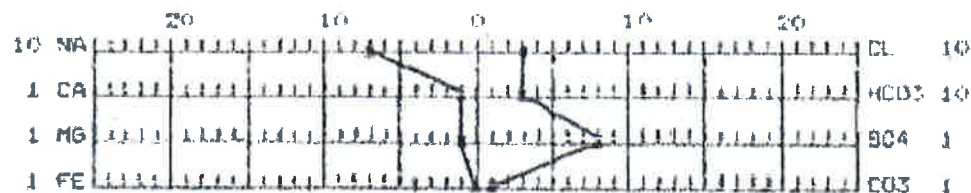
WATER ANALYSIS REPORT

OPERATOR: ENERPLUS L.P. DATE: 4/8/09
WELL NO. LONE TREE EDNA 1-12 LAB NO.: W-09-1705
FIELD: not listed FORMATION: Upper Dakota
COUNTY: Richland INTERVAL: 5308-5600
STATE: MT DST #:
LOG: not listed SAMPLE RUN #16-SAMPLE 130 DBLS BACK

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
SODIUM	1680.0	73.1	CHLORIDE	1114.7	31.4
CALCIUM	14.0	0.7	CARBONATE	31.5	1.1
MAGNESIUM	7.6	0.7	BICARBONATE	1922.1	31.5
IRON	1.2	0.1	SULFATE	791.2	8.1
POTASSIUM	2.9	0.3	NITRATE	0.0	0.0
BARIUM	0.0	0.0			
CHROMIUM	0.0	0.0			

SPECIFIC GRAVITY @ 77°F 1.000 PH 7.93
RESISTIVITY @ 77°F, cm-cmeters 1.569 NaCl (Calc.) 1838.1
TOTAL DISSOLVED SOLIDS (Calc.) MG/L 5173.0 HYDROGEN SULFIDE NEG

WATER ANALYSIS PATTERN MEQ/L



REMARKS - Run #16 Sample 130 DBLS Back.
Received 4/8/09.

DISTRIBUTION OF RESULTS
Rocky Border -- Sidney MT.
Lynn Sundby -- Halliburton - Williston ND.



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MONTANA BOARD OF OIL &
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AUTHORITY FOR EXPENDITURE - D&C

Company	MorningStar Operating, LLC	AFE #		CC#		Date	1/10/2025
Lease Name	Elm Coulee Water Well	Well #	1	API #			
S-T-R		Surv/Abs		Field/Area	Elm Coulee		
County	Richland	State	Montana				
Project	Drill and Complete a water well to 1,500'						
Proj Form				Proj TD	1500		

2250		INTANGIBLE		TOTAL
1000	LOCATION / ROADS / PITS	\$150,000		\$150,000
1002	LAND DAMAGES / LEGAL WORK/ SURVEYING	\$25,000		\$25,000
1100	DRILLING - FISHING TOOLS & SERVICE			\$0
1301	DRILLING - RENTAL TOOLS & EQUIPMENT - SURFACE	\$20,000		\$20,000
1302	DRILLING - RENTAL TOOLS & EQUIPMENT - SUBSURFACE	\$4,000		\$4,000
1500	MUD / CHEMICALS	\$15,000		\$15,000
1600	DRILLING - ENGINEERING / SUPERVISION	\$15,000		\$15,000
1601	DRILLING - CONTRACT LABOR			\$0
2000	DRILLING RIG	\$125,000		\$125,000
2003	DRILLING - TRUCKING / HOT SHOT (TANGIBLES ONLY)			\$0
2004	DIRECTIONAL TOOLS & SERVICE			\$0
2007	RIG MOB / DEMOB			\$0
2102	DRILLING - FLUID DISPOSAL / SOLIDS CONTROL			\$0
2201	OPEN HOLE LOGS / CORES / FORMATION EVALUATION			\$0
3000	DRILL BITS			\$0
3100	OVERHEAD			\$0
3900	DRILLING - WATER & WATERLINES	\$15,000		\$15,000
3901	DRILLING - POWER & FUEL	\$10,000		\$10,000
4001	SURFACE / INTERMEDIATE - CASING CREWS, TOOLS & TONGS			\$0
4002	SURFACE / INTERMEDIATE - CEMENT & CEMENTING SERVICES			\$0
8000	MUD LOGGING UNIT			\$0
2260			TANGIBLE	TOTAL
1201	CONDUCTOR PIPE			\$0
1101	SURFACE CASING			\$0
1102	INTERMEDIATE CASING			\$0
1300	CASING HEAD		\$7,500	\$7,500
TOTAL COST IF DRY HOLE		\$379,000	\$7,500	\$386,500
2250		INTANGIBLE		TOTAL
1101	COMPLETION - FISHING TOOLS & SERVICES			\$0
1303	COMPLETION - RENTAL TOOLS & EQUIPMENT - SUBSURFACE			\$0
1304	COMPLETION - RENTAL TOOLS & EQUIPMENT - SURFACE			\$0
1501	COMPLETION - WATER / COMPLETION FLUIDS / CHEMICALS / TRACERS			\$0
1602	COMPLETION - ENGINEERING / SUPERVISION			\$0
1603	COMPLETION - CONTRACT LABOR			\$0
2100	COMPLETION UNIT			\$0
2101	COMPLETION - TRUCKING / HOT SHOT			\$0
2200	CASED HOLE WIRELINE SERVICES			\$0
2400	STIMULATION SERVICES			\$0
2401	COMPLETION - FLUID DISPOSAL			\$0
2402	COMPLETION - FRAC TANK RENTALS			\$0
2403	FLOWBACK			\$0
3301	PUMP TRUCKS & SERVICES			\$0
4003	PRODUCTION - CEMENT & CEMENTING SERVICES	\$30,000		\$30,000
4004	PRODUCTION - CASING CREWS, TOOLS & TONGS	\$7,500		\$7,500
4200	WELL TESTING			\$0
9000	FILL PITS & DRESS LOCATION			\$0
2260			TANGIBLE	TOTAL
1103	PRODUCTION CASING / LINER		\$50,000	\$50,000
1200	TUBING		\$10,000	\$10,000
1301	TUBING HEAD / X-MAS TREE		\$10,000	\$10,000
1401	SUBSURFACE EQUIPMENT / PACKER			\$0
1501	ARTIFICIAL LIFT EQUIPMENT / SUBPUMP / PUMPING UNIT		\$50,000	\$50,000
1502	TANKS / WALKS / STAIRWAYS			\$0
1503	SEPARATION EQUIPMENT / GAUGES - PROD FACILITY			\$0
1601	ELECTRICAL		\$25,000	\$25,000
1700	MEASUREMENT EQUIPMENT			\$0
1701	AUTOMATION EQUIPMENT			\$0
8000	FLOWLINES & FITTINGS			\$0
TOTAL COST TO COMPLETE & EQUIP		\$37,500	\$145,000	\$182,500
TOTAL WELL COST		\$416,500	\$152,500	\$569,000



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MONTANA BOARD OF OIL &
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AUTHORITY FOR EXPENDITURE - D&C

Company	MorningStar Operating, LLC	AFE #		CC#		Date	1/10/2025
Lease Name	Elm Coulee Water Well	Well #	1	API #			
S-T-R		Surv/Abs		Field/Area	Elm Coulee		
County	Richland	State	Montana				
Project	Drill and Complete a water well to 5,900'						
Proj Form						Proj TD	5,900'

2250		INTANGIBLE		TOTAL
1000	LOCATION / ROADS / PITS	\$250,000		\$250,000
1002	LAND DAMAGES / LEGAL WORK/ SURVEYING	\$25,000		\$25,000
1100	DRILLING - FISHING TOOLS & SERVICE			\$0
1301	DRILLING - RENTAL TOOLS & EQUIPMENT - SURFACE	\$50,000		\$50,000
1302	DRILLING - RENTAL TOOLS & EQUIPMENT - SUBSURFACE	\$20,000		\$20,000
1500	MUD / CHEMICALS			\$0
1600	DRILLING - ENGINEERING / SUPERVISION	\$30,000		\$30,000
1601	DRILLING - CONTRACT LABOR			\$0
2000	DRILLING RIG	\$300,000		\$300,000
2003	DRILLING - TRUCKING / HOT SHOT (TANGIBLES ONLY)			\$0
2004	DIRECTIONAL TOOLS & SERVICE			\$0
2007	RIG MOB / DEMOB			\$0
2102	DRILLING - FLUID DISPOSAL / SOLIDS CONTROL	\$40,000		\$40,000
2201	OPEN HOLE LOGS / CORES / FORMATION EVALUATION			\$0
3000	DRILL BITS			\$0
3100	OVERHEAD			\$0
3900	DRILLING - WATER & WATERLINES	\$25,000		\$25,000
3901	DRILLING - POWER & FUEL	\$25,000		\$25,000
4001	SURFACE / INTERMEDIATE - CASING CREWS, TOOLS & TONGS	\$7,500		\$7,500
4002	SURFACE / INTERMEDIATE - CEMENT & CEMENTING SERVICES	\$30,000		\$30,000
8000	MUD LOGGING UNIT			\$0
2260			TANGIBLE	TOTAL
1201	CONDUCTOR PIPE			\$0
1101	SURFACE CASING		\$83,000	\$83,000
1102	INTERMEDIATE CASING			\$0
1300	CASING HEAD		\$7,500	\$7,500
TOTAL COST IF DRY HOLE		\$802,500	\$90,500	\$893,000
2250		INTANGIBLE		TOTAL
1101	COMPLETION - FISHING TOOLS & SERVICES			\$0
1303	COMPLETION - RENTAL TOOLS & EQUIPMENT - SUBSURFACE			\$0
1304	COMPLETION - RENTAL TOOLS & EQUIPMENT - SURFACE			\$0
1501	COMPLETION - WATER / COMPLETION FLUIDS / CHEMICALS / TRACERS			\$0
1602	COMPLETION - ENGINEERING / SUPERVISION			\$0
1603	COMPLETION - CONTRACT LABOR			\$0
2100	COMPLETION UNIT			\$0
2101	COMPLETION - TRUCKING / HOT SHOT			\$0
2200	CASED HOLE WIRELINE SERVICES	\$20,000		\$20,000
2400	STIMULATION SERVICES			\$0
2401	COMPLETION - FLUID DISPOSAL			\$0
2402	COMPLETION - FRAC TANK RENTALS			\$0
2403	FLOWBACK			\$0
3301	PUMP TRUCKS & SERVICES			\$0
4003	PRODUCTION - CEMENT & CEMENTING SERVICES	\$40,000		\$40,000
4004	PRODUCTION - CASING CREWS, TOOLS & TONGS	\$12,500		\$12,500
4200	WELL TESTING			\$0
9000	FILL PITS & DRESS LOCATION			\$0
2260			TANGIBLE	TOTAL
1103	PRODUCTION CASING / LINER		\$304,000	\$304,000
1200	TUBING		\$42,000	\$42,000
1301	TUBING HEAD / X-MAS TREE		\$12,500	\$12,500
1401	SUBSURFACE EQUIPMENT / PACKER			\$0
1501	ARTIFICIAL LIFT EQUIPMENT / SUBPUMP / PUMPING UNIT		\$150,000	\$150,000
1502	TANKS / WALKS / STAIRWAYS			\$0
1503	SEPARATION EQUIPMENT / GAUGES - PROD FACILITY			\$0
1601	ELECTRICAL		\$25,000	\$25,000
1700	MEASUREMENT EQUIPMENT			\$0
1701	AUTOMATION EQUIPMENT			\$0
8000	FLOWLINES & FITTINGS			\$0
TOTAL COST TO COMPLETE & EQUIP		\$72,500	\$533,500	\$606,000
TOTAL WELL COST		\$875,000	\$624,000	\$1,499,000



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Proposed Wellbore Diagram
Jaws SWD 1
Section 5 of T22N-R59E
Richland County, Montana



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Morning Star Operating

Richland County, MT. (NAD 83)

Sec 5 T22N--R59E (HAMMERHEAD)

JAWS SWD 1

OH

Plan: Plan 4



Standard Plan Report

05 January, 2026

Total Report Version 1.00

COMPASS 5000.16 Build 97

ATTENTION

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



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Planned Survey Report

Company:	Morning Star Operating	Local Co-ordinate Reference:	Well JAWS SWD 1
Project:	Richland County, MT. (NAD 83)	TVD Reference:	1941' GL + 25' KB @ 1956.00usft
Site:	Sec 5 T22N-R59E (HAMMERHEAD)	MD Reference:	1941' GL + 25' KB @ 1956.00usft
Well:	JAWS SWD 1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	Total Directional Production DB

Project:	Richland County, MT. (NAD 83)	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	Montana		

Site:	Sec 5 T22N-R59E (HAMMERHEAD)		
Site Position:		Northing:	1,300,734.32 usft
From:	Lat/Long	Eastng:	3,279,935.22 usft
Position Uncertainty:	2.00 usft	Site Radius:	13-3/16 "
		Latitude:	47.6954740
		Longitude:	-104.1673480

Well:	JAWS SWD 1		
Well Position:	+W-3	0.00 usft	Northing:
	+E-W	0.00 usft	Eastng:
Position Uncertainty:	2.00 usft	Wellhead Elevation:	usft
Grid Convergence:	3.90 "		
		Latitude:	47.6954750
		Longitude:	-104.1675640
		Ground Level:	1,541.00 usft

Wellbore:	OH		
Magnetics:	Model Name	Sample Date	Declination (°)
	HDCM2026	12/29/2025	7.87
			Dip Angle (°)
			72.03
			Field Strength (nT)
			54,887,000,000.00

Design:	Plan 4		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
Vertical Section:	Depth From (TVD) (usft)	+W-3 (usft)	+E-W (usft)
	0.00	0.00	0.00
			Direction (°)
			100.61

Survey Tool Program	Date	1/5/2026		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	7,566.92	Plan 4 (OH)	MWD+HRGM	OWSG MWD + HRGM



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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Planned Survey Report

Company:	Morning Star Operating	Local Co-ordinate Reference:	Well JAWS SWD 1
Project:	Richard County, MT. (NAD 83)	TVD Reference:	1941' GL + 25' KB @ 1955.00usft
Site:	Sec 5 T22N-R59E (HAMMERHEAD)	MD Reference:	1941' GL + 25' KB @ 1956.00usft
Well:	JAWS SWD 1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	Total Directional Production DB

Plan Summary										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,900.00	3.00	180.00	1,899.86	-7.85	0.00	1.00	1.00	0.00	180.00	
2,000.00	0.00	0.00	1,999.82	-10.47	0.00	3.00	-3.00	0.00	180.00	
4,795.53	0.00	0.00	4,795.50	-10.47	0.00	0.00	0.00	0.00	0.00	
5,012.55	26.03	100.37	5,005.00	-19.18	47.63	12.00	12.00	0.00	100.37	
5,066.31	26.03	100.37	5,053.30	-23.43	70.82	0.00	0.00	0.00	0.00	
5,459.45	85.00	100.37	5,266.22	-79.21	375.68	15.00	15.00	0.00	0.00	
7,556.92	85.00	100.37	5,450.00	-457.09	2,440.84	0.00	0.00	0.00	0.00	

Planned Survey													
Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)				
0.00	0.00	0.00	0.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
25.00	0.00	0.00	25.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
Surface													
100.00	0.00	0.00	100.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
1,365.00	0.00	0.00	1,365.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
Plane SH (Base Fox Hill)													
1,400.00	0.00	0.00	1,400.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	1,300,739.43	3,290,004.94	47.0564750	-104.1675640	0.00	0.00	0.00	0.00
Build													
1,700.00	1.00	180.00	1,699.99	-0.87	0.00	1,300,738.56	3,290,005.00	47.0564736	-104.1675640	0.16	1.00	1.00	0.00
1,800.00	2.00	180.00	1,799.96	-3.45	0.00	1,300,735.55	3,290,005.17	47.0564685	-104.1675640	0.54	1.00	1.00	0.00
1,800.00	3.00	180.00	1,899.86	-7.85	0.00	1,300,731.60	3,290,005.47	47.0564636	-104.1675640	1.45	1.00	1.00	0.00
Drop													

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MORNING STAR
OPERATING

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JAN 08 2026

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Planned Survey Report

Company:	Morning Star Operating	Local Co-ordinate Reference:	Well JAWS SWD 1
Project:	Richard County, MT. (NAD 83)	TVD Reference:	1941' GL + 25' KS @ 1966 Coast
Site:	Sec 5 T22N-R59E (HAMMERHEAD)	MD Reference:	1941' GL + 25' KS @ 1966 Coast
Well:	JAWS SWD 1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	Total Directional Production DB

Planned Survey

Measured Depth (feet)	INC (°)	AZI (°)	Vertical Depth (feet)	Local Coordinates +N-S (feet)	+E-W (feet)	Map Coordinates Northing (feet)	Easting (feet)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (feet)	Dogleg Rate (degrees)	Build Rate (degrees)	Turn Rate (degrees)
2,000.00	0.00	0.00	1,999.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	3.00	-3.00	0.00
Hold													
2,100.00	0.00	0.00	2,099.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
2,200.00	0.00	0.00	2,199.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
2,300.00	0.00	0.00	2,299.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
2,400.00	0.00	0.00	2,399.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
2,500.00	0.00	0.00	2,499.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
2,600.00	0.00	0.00	2,599.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
2,700.00	0.00	0.00	2,699.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
2,800.00	0.00	0.00	2,799.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
2,900.00	0.00	0.00	2,899.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
3,000.00	0.00	0.00	2,999.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
3,100.00	0.00	0.00	3,099.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
3,200.00	0.00	0.00	3,199.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
3,300.00	0.00	0.00	3,299.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
3,400.00	0.00	0.00	3,399.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
3,500.00	0.00	0.00	3,499.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
3,600.00	0.00	0.00	3,599.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
3,700.00	0.00	0.00	3,699.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
3,800.00	0.00	0.00	3,799.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
3,900.00	0.00	0.00	3,899.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
4,000.00	0.00	0.00	3,999.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
4,100.00	0.00	0.00	4,099.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
4,200.00	0.00	0.00	4,199.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
4,300.00	0.00	0.00	4,299.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
4,400.00	0.00	0.00	4,399.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
4,500.00	0.00	0.00	4,499.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
4,600.00	0.00	0.00	4,599.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
4,700.00	0.00	0.00	4,699.92	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
4,795.68	0.00	0.00	4,795.50	-10.47	0.00	1,300,728.99	3,293,005.66	47.0864463	-104.1675640	1.93	0.00	0.00	0.00
KOP 12' DLG 4795.68 'MD													
4,800.00	0.52	100.37	4,799.92	-10.47	0.02	1,300,728.99	3,293,005.67	47.0864463	-104.1675639	1.95	12.00	12.00	0.00
4,825.00	3.52	100.37	4,824.90	-10.63	0.89	1,300,728.89	3,293,006.54	47.0864469	-104.1675604	2.93	12.00	12.00	0.00
4,850.00	6.52	100.37	4,849.70	-11.03	3.04	1,300,728.64	3,293,006.71	47.0864446	-104.1675616	5.01	12.00	12.00	0.00
4,875.00	9.52	100.37	4,874.45	-11.65	6.47	1,300,728.25	3,293,012.18	47.0864431	-104.1675377	8.50	12.00	12.00	0.00
4,900.00	12.52	100.37	4,899.99	-12.51	11.17	1,300,727.71	3,293,016.93	47.0864407	-104.1675166	13.28	12.00	12.00	0.00
4,925.00	15.52	100.37	4,923.24	-13.60	17.12	1,300,727.03	3,293,022.94	47.0864377	-104.1674844	19.33	12.00	12.00	0.00
4,950.00	18.52	100.37	4,947.14	-14.92	24.32	1,300,726.20	3,293,030.21	47.0864341	-104.1674663	25.55	12.00	12.00	0.00

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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Planned Survey Report

Company:	Morning Star Operating	Local Co-ordinate Reference:	Well JAWS SWD 1
Project:	Richard County, MT. (NAD 83)	TVD Reference:	1941' GL + 25' K5 @ 1966.00surf
Site:	Sec 5 T22N-R59E (HAMMERHEAD)	MD Reference:	1941' GL + 25' K5 @ 1966.00surf
Well:	JAWS SWD 1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	Total Directional Production DB

Planned Survey

Measured Depth (surf)	INC (°)	AZI (°)	Vertical Depth (surf)	Local Coordinates +N-E (surf)	+E-W (surf)	Map Coordinates Northing (surf)	Easting (surf)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (surf)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,975.00	21.52	100.37	4,973.63	-16.46	32.73	1,300,725.24	3,280,038.71	47.0664299	-104.1674310	35.21	12.00	12.00	0.00
5,000.00	24.52	100.37	4,993.64	-18.22	42.35	1,300,724.14	3,280,048.43	47.0664291	-104.1673919	44.98	12.00	12.00	0.00
5,012.56	26.03	100.37	5,005.00	-19.18	47.63	1,300,723.53	3,280,053.76	47.0664294	-104.1673706	50.34	12.00	12.00	0.00
Hold - Dakota													
5,066.31	26.03	100.37	5,053.30	-23.43	70.82	1,300,720.88	3,280,077.19	47.0664108	-104.1672762	73.93	0.00	0.00	0.00
Build													
5,075.00	27.33	100.37	5,061.06	-24.13	74.66	1,300,720.44	3,280,081.06	47.0664088	-104.1672607	77.83	15.00	15.00	0.00
5,100.00	31.08	100.37	5,082.99	-26.33	86.66	1,300,719.06	3,280,093.18	47.0664098	-104.1672119	90.02	15.00	15.00	0.00
5,125.00	34.83	100.37	5,103.95	-28.77	100.03	1,300,717.53	3,280,106.69	47.0663981	-104.1671578	103.82	15.00	15.00	0.00
5,150.00	38.58	100.37	5,123.89	-31.46	114.73	1,300,715.85	3,280,121.54	47.0663887	-104.1670979	119.56	15.00	15.00	0.00
5,175.00	42.33	100.37	5,142.91	-34.38	130.68	1,300,714.02	3,280,137.65	47.0663807	-104.1670351	134.78	15.00	15.00	0.00
5,200.00	46.08	100.37	5,160.93	-37.52	147.82	1,300,712.06	3,280,154.97	47.0663721	-104.1669704	152.20	15.00	15.00	0.00
5,225.00	49.83	100.37	5,177.57	-40.86	166.08	1,300,709.97	3,280,173.41	47.0663630	-104.1669082	170.76	15.00	15.00	0.00
5,250.00	53.58	100.37	5,193.05	-44.35	185.38	1,300,707.76	3,280,192.90	47.0663533	-104.1668408	190.38	15.00	15.00	0.00
5,275.00	57.33	100.37	5,207.24	-48.09	205.63	1,300,705.44	3,280,213.36	47.0663431	-104.1667786	210.97	15.00	15.00	0.00
5,300.00	61.08	100.37	5,220.03	-51.96	226.75	1,300,703.02	3,280,234.69	47.0663325	-104.1668426	232.44	15.00	15.00	0.00
5,325.00	64.83	100.37	5,231.40	-55.97	248.65	1,300,700.51	3,280,256.82	47.0663215	-104.1668528	254.70	15.00	15.00	0.00
5,350.00	68.58	100.37	5,241.28	-60.10	271.23	1,300,697.93	3,280,279.63	47.0663102	-104.1668620	277.86	15.00	15.00	0.00
5,375.00	72.33	100.37	5,249.65	-64.34	294.40	1,300,695.27	3,280,303.03	47.0662988	-104.1668679	301.21	15.00	15.00	0.00
5,400.00	76.08	100.37	5,256.45	-68.67	318.06	1,300,692.56	3,280,326.93	47.0662867	-104.1668718	325.27	15.00	15.00	0.00
5,425.00	79.83	100.37	5,261.67	-73.07	342.11	1,300,689.81	3,280,351.22	47.0662746	-104.1668741	349.71	15.00	15.00	0.00
5,450.00	83.58	100.37	5,265.28	-77.52	366.44	1,300,687.02	3,280,375.80	47.0662624	-104.1668752	374.44	15.00	15.00	0.00
5,459.46	85.00	100.37	5,266.22	-79.21	375.69	1,300,685.96	3,280,385.15	47.0662577	-104.1668678	383.85	15.00	15.00	0.00
Hold 86° INC													
5,500.00	85.00	100.37	5,269.75	-86.48	415.42	1,300,681.41	3,280,425.28	47.0662378	-104.1668782	424.24	0.00	0.00	0.00
5,600.00	85.00	100.37	5,278.47	-104.41	513.41	1,300,670.19	3,280,524.26	47.0661885	-104.1664781	523.86	0.00	0.00	0.00
5,700.00	85.00	100.37	5,287.19	-122.34	611.41	1,300,658.97	3,280,623.25	47.0661394	-104.1660800	623.48	0.00	0.00	0.00
5,800.00	85.00	100.37	5,295.91	-140.27	709.40	1,300,647.75	3,280,722.23	47.0660902	-104.1656819	723.10	0.00	0.00	0.00
5,900.00	85.00	100.37	5,304.63	-158.20	807.39	1,300,636.52	3,280,821.22	47.0660411	-104.1652838	822.71	0.00	0.00	0.00
6,000.00	85.00	100.37	5,313.36	-176.13	905.38	1,300,625.30	3,280,920.20	47.0659919	-104.1648857	922.33	0.00	0.00	0.00
6,100.00	85.00	100.37	5,322.08	-194.06	1,003.37	1,300,614.08	3,281,019.19	47.0659427	-104.1644876	1,021.95	0.00	0.00	0.00
6,200.00	85.00	100.37	5,330.80	-211.99	1,101.37	1,300,602.86	3,281,118.17	47.0658935	-104.1640896	1,121.57	0.00	0.00	0.00
6,300.00	85.00	100.37	5,339.52	-229.92	1,199.36	1,300,591.63	3,281,217.16	47.0658443	-104.1636913	1,221.19	0.00	0.00	0.00
6,400.00	85.00	100.37	5,348.24	-247.85	1,297.35	1,300,580.41	3,281,316.14	47.0657951	-104.1632932	1,320.81	0.00	0.00	0.00
6,500.00	85.00	100.37	5,356.96	-265.78	1,395.34	1,300,569.19	3,281,415.13	47.0657459	-104.1628951	1,420.42	0.00	0.00	0.00
6,600.00	85.00	100.37	5,365.68	-283.71	1,493.34	1,300,557.97	3,281,514.11	47.0656967	-104.1624970	1,520.04	0.00	0.00	0.00
6,700.00	85.00	100.37	5,374.40	-301.64	1,591.33	1,300,546.74	3,281,613.10	47.0656475	-104.1620989	1,619.66	0.00	0.00	0.00
6,800.00	85.00	100.37	5,383.12	-319.57	1,689.32	1,300,535.52	3,281,712.08	47.0655983	-104.1617008	1,719.28	0.00	0.00	0.00



MORNING STAR OPERATING

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JAN 08 2026

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Planned Survey Report

Company:	Morning Star Operating	Local Co-ordinate Reference:	Well JAWS SWD 1
Project:	Richland County, MT. (NAD 83)	TVD Reference:	1941' GL + 25' KB @ 1966.00usft
Site:	Sec 5 T22N-R59E (HAMMERHEAD)	MD Reference:	1941' GL + 25' KB @ 1966.00usft
Well:	JAWS SWD 1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 4	Database:	Total Directional Production DB

Planned Survey													
Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate (1/1000ft)	Build Rate (1/1000ft)	Turn Rate (1/1000ft)
				+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)				
6,900.00	85.00	100.37	5,391.84	-337.50	1,787.31	1,300,534.30	3,281,811.07	47.8846181	-104.1803027	1,818.90	0.00	0.00	0.00
7,000.00	85.00	100.37	5,400.56	-355.43	1,825.30	1,300,513.08	3,291,910.05	47.8844899	-104.1806046	1,918.51	0.00	0.00	0.00
7,100.00	85.00	100.37	5,409.28	-373.36	1,863.30	1,300,501.85	3,282,009.04	47.8844607	-104.1806085	2,018.13	0.00	0.00	0.00
7,200.00	85.00	100.37	5,418.00	-391.29	1,901.29	1,300,490.63	3,282,108.02	47.8844315	-104.1806104	2,117.75	0.00	0.00	0.00
7,300.00	85.00	100.37	5,426.72	-409.22	1,939.28	1,300,479.41	3,282,207.01	47.8843823	-104.1807103	2,217.37	0.00	0.00	0.00
7,400.00	85.00	100.37	5,435.44	-427.15	1,977.27	1,300,468.19	3,282,305.99	47.8843330	-104.1808122	2,316.99	0.00	0.00	0.00
7,500.00	85.00	100.37	5,444.16	-445.08	2,015.26	1,300,456.97	3,282,404.96	47.8842838	-104.1809141	2,416.61	0.00	0.00	0.00
7,566.92	85.00	100.37	5,450.00	-457.08	2,440.94	1,300,449.46	3,282,471.22	47.8843209	-104.1809437	2,483.27	0.00	0.00	0.00
TD at 7566.92													

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Minimum target									
- Shape									
Jaws	0.00	0.00	5,063.00	-457.03	2,440.52	1,300,449.45	3,282,470.90	47.8843210	-104.1809430
- plan misses target center by 365.57usft at 7534.59usft MD (5447.18 TVD, -451.28 N, 2409.16 E)									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
25.00	25.00	Surface				
1,365.00	1,365.00	Pierre SH (Base For HII)				
5,012.56	5,005.00	Dakota		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N-S (usft)	+E-W (usft)		
1600	1600	0	0	Build	
1900	1900	-8	0	Drop	
2000	2000	-10	0	Hold	
4796	4796	-10	0	KOP 12" DLG 4795.68 MD	
5013	5005	-19	48	Hold	
5066	5053	-23	71	Build	
5459	5266	-79	376	Hold 85° INC	
7567	5450	-457	2441	TD at 7566.92	

Checked By:	Approved By:	Date:
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MORNINGSTAR
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Surface and Mineral Owner List
Jaws SWD 1
Richland County, MT

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Surface Owners within AOR:

AGRI-MED LLC 100 BELLE CREEK RD BELGRADE, MT 59714-8775	ALS MINI STORAGE INC 315 MAIN ST ROUNDUP, MT 59072-2737	ARLEN H & LONNIE L PRICE 2397 S CENTRAL AVE SIDNEY, MT 59270-5513
ARNOLD G HANSEN 207 2ND AVE NW SIDNEY, MT 59270-4015	AVAD PROPERTIES LLC PO BOX 787 SIDNEY, MT 59270-0787	BYER INDUSTRIAL PARK LLC 108 2ND ST NE SIDNEY, MT 59270-4105
BYER INDUSTRIAL PARK LLC 108 2ND ST NE SIDNEY, MT 59270-4105	BYER RENTALS LLC 108 2ND ST NE SIDNEY, MT 59270-4105	DYNAMIC ENERGY SERVICES INC 421 5TH AVE NE SIDNEY, MT 59270-4424
IE PROPERTIES LLC PO BOX 2035 JAMESTOWN, ND 58402-2035	JADA LLC PO BOX 787 SIDNEY, MT 59270-0787	JAMES B & TRINA K HOLST 803 14TH ST SE SIDNEY, MT 59270-6398
JOHNSON5 LLC 207 2ND AVE NW SIDNEY, MT 59270-4015	KRINGEN FAMILY LLLP 917 14TH ST SE SIDNEY, MT 59270-8822	L & L HOLDINGS LLC 712 9TH ST SW SIDNEY, MT 59270-4815
L Y IRRIGATION PROJECT BRD OF CONTROL 2327 LINCOLN AVE SE SIDNEY, MT 59270-8800	PIONEER CEMETERY ASSOC, C/O NANCY HEDEGAARD 920 13TH ST SW SIDNEY, MT 59270	MATT JOSEPHSON 35325 COUNTY ROAD 129 SIDNEY, MT 59270-4256
MORNINGSTAR OPERATING LLC 400 W 7TH STREET FORT WORTH, TX 76102	ONEOK ROCKIES MIDSTREAM LLC PO BOX 871 TULSA, OK 74102-0871	ONEOK ROCKIES MIDSTREAM LLC 896 25TH ST SE SIDNEY, MT 59270
QCC HOLDINGS INC 7883 EDGAR INDUSTRIAL WAY RED DEER, AB T4P 3R2 CANADA	RICHLAND RENTALS LLC 1807 S CENTRAL AVE SIDNEY, MT 59270-5510	S/L SERVICES INC 2265 S CENTRAL AVE SIDNEY, MT 59270-5515
SCHMART SOLUTIONS LLC 1315 22ND AVE NW SIDNEY, MT 59270-5775	CITY OF SIDNEY 115 2ND ST. NE SIDNEY, MT 59270	SIDNEY STORAGE LLC 811 5TH ST SE SIDNEY, MT 59270-5116
STURGIS SHARON LEONE TRUSTEE 440 RICHARDS LAKE RD FORT COLLINS, CO 80524-1633	WHITE ROCK ENERGY LLC MAIL TO KE ANDREWS AND COMPANY 2424 RIDGE RD ROCKWALL, TX 75087	WHITE ROCK OIL & GAS GP I LLC 2179 CENTRAL AVE SIDNEY, MT 59270
MOR MAC LLC PO BOX 787 SIDNEY, MT 59270-0787	SIDNEY 25 DEVELOPMENT LLC C/O LORA ROMNEY 10421 S JORDAN GTWY, GATEWAY SUITE 600 SOUTH JORDAN, UT 84095	WHITE ROCK OIL & GAS GP I LLC MAIL TO KE ANDREWS & COMPANY 2424 RIDGE RD ROCKWALL, TX 75087



MORNING STAR
OPERATING

Surface and Mineral Owner List
Jaws SWD 1
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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Mineral Interest Owners within AOR:

6 J FARMS, INC
3592 159TH AVE. NW
FAIRVIEW, MT 59221

ALLAN JACKSON
313 2ND AVE NW
BEULAH, ND 58523

ANGELEN LARSON
13711 14TH ST NW
ARNEGARD, ND 58835

ALLISON L. LEDET
8405 SOUTH CAMERON DR.
HAMILTON, IN 46742

AMONTE LLC
PO BOX 3358
ENGLEWOOD, CO 80155

ANDREW OLSON
PO BOX 33
CRANE, MT 59217-0033

AVM INC
PO BOX 411
BISMARCK, ND 585010-411

ARNOLD AND LOIA HANSEN
FAMILY TRUST
207 2 AVE NW
SIDNEY, MT 592704015

AUGUEST M SOFFELL & ELEANOR
M SOFFELL JOINT TENANTS
501 MAIN ST APT 11-1A
ORANGE, NJ 07050

AULEX LLC
18208 PRESTONE ROAD
STE. D9 #295
DALLAS, TX 75252

AUSTIN CREWS GROUP LP &
RESOURCES SERIES
PO BOX 128
EFFINGHAM, IL 62401

BLACK STONE MINERALS
COMPANY, LP
PO BOX 301267
DALLAS, TX 75303-1267

B & J RESOURCES LLC
410 17TH ST STE 1150
DENVER, CO 80202

BERNICE MASON
2612 BETH DR
BILLINGS, MT 59102

BETTY LOU QUALE
PO BOX 305
WIBAUX, MT 59353

BONNIE EVANSON
810 WEST CRAWFORD ST.
LIVINGSTON, MT 59047

BLAIR K. TROUDT
1710 LAUREL AVE.
HUDSON, WI 54016

BODREY DALE KINDOPP
718 6TH ST SE
SIDNEY, MT 59270-5125

BROOK GRUSZKA
2490 FALLBROOK DR
HAMPSHIRE, IL 60140-9059

BRIAN WINTER
2923 SOUTH OVERTON AVENUE
INDEPENDENCE, MO 64052

BRION NORBY
4905 PRAIRIE LN
WILLISTON, ND 58801

BURNS LAND COMPANY LLC
1935 RESER RD
WALLA WALLA, WA 99362

BRUCE A HART
328 OCONNELL DR
LOLO, MT 59847-9709

BUREAU OF LAND MANAGEMENT
5001 SOUTHGATE DRIVE
BILLINGS, MT 59101

BURLINGTON NORTHERN & SANTA
FE RAILWAY COMPANY
PO BOX 676167
DALLAS, TX 75267-6167

CALVIN THOGERSEN
12708 W ROANOKE
AVONDALE, AZ 85392

CAROL CHASE
PO BOX 158102
NASHVILLE, TN 37215

CAROL BOHRNSEN F/K/A CAROL
PETERSEN
261 WILLOW CREEK ROAD
PHILLIPSBURG, MT 59858

CAROL L. DRAY, APPARENT
SUCCESSOR TO GLADYS DIGE,
DECEASED
29589 WARMSPRINGS DR.
MENIFEE, CA 92584

ALLEN W HAMILL JR FAMILY
PARTNERSHIP, C/O A WILLIAM
HAMILL MANAGING PART
5 VIRGINIA AVE
RICHMOND, VA 23226-1728



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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Surface and Mineral Owner List

Jaws SWD 1

Richland County, MT

CAROL L. DRAY, TRUSTEE OF THE
FAMILY TRUST OF CAROL L. DRAY
29589 WARMSPRINGS DR.
MENIFEE, CA 92584

CAROLINE MARGUERITE
RUFFATTO LLC
1262 14TH ST SW
SIDNEY, MT 59270-5410

CAT SPRING PROPERTIES LLC
PO BOX 450
SEALY, TX 77474-0450

CHARLES BIKSEN
203 INMANN ST
HENNING, MN 56551

CHARLES D MCMURREY
PO BOX 70122
HOUSTON, TX 77270-0122

CHARLOTTE DEHNERT
1355 HILLCREST DR
LANDER, WY 82520-9702

CHARLES J KAMENSKY
1001 EL SERENO DR
BAKERSFIELD, CA 93304-4033

CHARLES TURNER
16167 W. VISTA NORTH DR.
SUN CITY WEST, AZ 85375

CHARLIE H READ
2611 SHADOWDALE
HOUSTON, TX 77043

CHARLES H FRANKLIN REV LIVING
TRUST
1198 NAVIGATOR DR #175
VENTURA, CA 93001

CHARLOTTE JEAN HAUGEN ESTATE,
C/O MAGGIE NIEVES
744 HIGH CREST DR
AZLE, TX 76020

CHRIS NELSON
1746 SATTLER DR.
CONCORD, CA 94519

CHRISTIAN M HAUGEN
6111 C CURZON AVE
FORT WORTH, TX 76116

CHRISTY KEMP
644 ROAD 303
GLENDALE, MT 59330

CITY OF SIDNEY
115 2ND ST. NE
SIDNEY, MT 59270

CLARA JO DIGE
6181 PICKETT AVE
GARDEN GROVE, CA 92845

COLLEEN COOPER, TRUSTEE OF
THE COLLEEN COOPER FAMILY
TRUST U/A/D AUGUST 29, 2002
3840 RIMROCK RD., APT. 1107
BILLINGS, MT 59102

CONNIE BIKSEN
915 ELLA AVE NW
WILLMAR, MN 56201

CONSTANCE R MINDT TIC
719 2ND ST SE
SIDNEY, MT 59270

CORI BETH SHERLOCK
2636 37TH AVE S
MINNEAPOLIS, MN 55406

CORINNE CROWE
413 LINCOLN AVE. S.
SIDNEY, MT 59270

CURTIS A OLSON
STE 3 WAKEFIELD DR
BILLINGS, MT 59102-7816

DALE L WINTER
9715-171 NORTH EAST
REDMOND, WA 98052

DALE PETERSEN
261 WILLOW CREEK ROAD
PHILLIPSBURG, MT 59858

DAN HEDGER
2735 SHEPPARD-REES RD
KERRVILLE, TX 78028

DANIEL T HART
1982 CHENEY CREEK RD
CARTWRIGHT, ND 58838-9766

DARLENE ANN BERG
1180 TRENTON ST
BILLINGS, MT 59105-2252

DARRELL BIKSEN
1201 60TH ST NE
SAUK RAPIDS, MN 56379

DAVID J DYNNESON
8240 NEVADA CIR
BLOOMINGTON, MN 55438

DAVID R WINTER
1938 HORSE CREEK ROAD
CARTWRIGHT, ND 58838



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Jaws SWD 1

Richland County, MT

DAVID S MOORE & TERRY L
MOORE JT
207 14TH ST SE
SIDNEY, MT 59270

DEBRA MATTHIES
PO BOX 73
OHIOWA, NE 68416

DENNIS W. MARKER
1576 11TH AVE. SW
SIDNEY, MT 59270

DONALD L DYNNESON
1483 252ND
SEWARD, NE 68434

DONALD W BEARDSLEY
2003 S UTAH ST NE
ALBUQUERQUE, NM 87110-4852

DORIS SIMONSEN
104 RIVERVIEW B
GREAT FALLS, MT 59404

EDINA FLESJER
PO BOX 643
GLENDALE, MT 59330

ELLEN JENSEN
806 APACHE AVE
AZTEC, NM 87410-2211

ERIK KERBEL
15415 S. AIRPORT WAY, APT. 2
MANTECA, CA 95336

EVELYNE SORENSON
1400 WINNE AVE
HELENA, MT 59601

DEBRA K STRASHEIM TIC
830 3RD ST SE
SIDNEY, MT 59270

DENICE TRELOAR
2500 S EMERSON AVE
GILLETTE, WY 82718-5830

DIANE CHERRY
2220 WILLAMETTE VIEW CT
WEST LINN, OR 97068-2634

DONALD R STEVENS & MABEL E
STEVENS JOINT TENANTS
2360 COLLINS RD
PITTSBURGH, PA 15235-2754

DONNA MARIE BROWN
1505 4TH ST SW
SIDNEY, MT 59270-3637

EDWARD KERBEL
7102 GOLF COURSE LN.
SAN JOSE, CA 95139

DOROTHY A FELTZ TRUST DTD
MARCH 20 1992
PO BOX 39
CARY, IL 60013

ELWANDA J FISCHER
PO BOX 988
SIDNEY, MT 59270

ERIN BERZEL
905 DIXON AVE
MISSOULA, MT 59801-8617

F&D BARTA GRANDCHILDREN
TRUST
1901 FREYBURG ENGLE RD
SCHULENBURG, TX 78956-5104

DEBRA LARSEN
PO BOX 81164
BILLINGS, MT 59108-1164

DENNIS W YOCKIM
PO BOX 477
WILLISTON, ND 58802-0477

DIXIE BERZEL
20251 SUPERIOR PL
WHITEWOOD, SD 57793

DONALD R TOWNSEND
5125 REDMESA AVE
LOVELAND, CO 80538-1016

DORIS ERICKSON
999 15TH ST SW APT 2
SIDNEY, MT 59270-5454

DW KUKOWSKI
700 W HARBOR DR UNIT 1104
SAN DIEGO, CA 92101-7756

EDWIN K. DAMM AND CAROL A.
DAMM
1338 CORTEZ AVE.
BILLINGS, MT 59105

ERIC BELANGER
6908 N. FOX WOOD COURT
SPOKANE, WA 99208

ESTATE OF MIKE GOLDEN
PO BOX 2734
BISMARCK, ND 58502

ESTATE OF NICK YOUNGKIN,
DECEASED C/O CARLA YOUNGKIN
PO BOX 222
ALBERTON, MT 59820



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Jaws SWD 1
Richland County, MT

ESTATE OF DANIEL PETERSON,
DECEASED C/O SHEILA PETERSON
202 17TH ST. W.
BILLINGS, MT 59102

ESTATE OF FRANKIE C. BURMAN,
DECEASED C/O JESS W. BURMAN
PO BOX 1054
SIDNEY, MT 59270

ESTATE OF HARRY F. KREIS,
DECEASED
33120 XENON DR. NW
PRINCETON, MN 55371

FOREL GROUP, LLC
1803 9TH AVE. SW
SIDNEY, MT 59270

FRANCES DECKER
16715 WEST FOUR MOUND RD
NINE MILE FALLS, WA 99026

GABRIELE H RAPP
729 SKYLINE DR
JUNCTION CITY, KS 66441-4059

JOHN BRADFORD CONE AND
JEFFERY D. CONE, SUCCESSOR CO-
TRUSTEES OF THE JESSE DONALD
CONE, M.D., II AND PATRICIA JANE
CONE REVOCABLE TRUST (DATED
JUNE 24, 1992 AND AMENDED JULY
31, 2008)
417 COLINA LANE
ODESSA, TX 79765

ESTATE OF CARL HERMAN,
DECEASED,
C/O BEVERAL MOERKERKE
14550 N. FRANK LLOYD WRIGHT,
BLVD. #100
SCOTTSDALE, AZ 85260

ESTATE OF RICHARD C. NORBY,
DECEASED, AND LORI A NORBY,
PERSONAL REPRESENTATIVE FOR
THE ESTATE OF ROCKY L. NORBY,
DECEASED, FORMERLY CO-
PARTNERS D/B/A R&R FARMS OF
SIDNEY
R 2 BOX 2912
SIDNEY, MT 59270

GORDON H LUIKART & GORDON A
LUIKART JR POA
109 ISLAND WAY
GREENACRES, FL 33413-2025

GEORGE WATTS A/K/A
GEORGE A. WATTS
712 7TH AVE. SW
SIDNEY, MT 59270

GREGORY CAVANAUGH AND
DEBORAH A. CAVANAUGH
3528 NATURAL VIEW ST.
LAS VEGAS, NV 89129

GERALD D FISCHER
BOX 988
SIDNEY, MT 59270

GERALD J ELKINS
PO BOX 1295
BISMARCK, ND 58502-1295

GERALDINE ENTZEL
2333 SOUTH CENTRAL AVE.
SIDNEY, MT 59270

GARY J THOGERSEN
4160 29TH AVE SOUTH
SEATTLE, WA 98108

GORDON PUTNAM
10 JEFFERSON CT
WAYNESBORO, VA 22980-6596

GEORGIANN WILLIAMSON
PO BOX 1865
BOZEMAN, MT 59771

JAMES HAUGEN
260 BLUE MOON RD
HELENA, MT 59602

HARRIET A MORRIS
1951 47TH ST SPACE #3
SAN DIEGO, CA 92102

HELMUT WOLFF
34760 HIGHWAY 200
SIDNEY, MT 59270

HAROLD BUXBAUM & LILA P
BUXBAUM
1015 7TH AVE SW APT 210
SIDNEY, MT 59270-4967

HENRY DELPHIA L WHITAKER H/W
J/T
37 MCCLELLAN CREEK RD
CLANCY, MT 59634-9620

JAMES H JENSEN CRAIG L JENSEN
POA
14437 MONTEREY AVE S
SAVAGE, MN 553782982

JANA TURNER
1220 B. SPRUCE CIRCLE
LYNDEN, WA 98264

HERBERT JUNEMAN
6215 BLVD EAST
NEW YORK, NY 07093

HKT LLC
16088 75TH PL N
LOXAHATCHEE, FL 33470



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HOMEOPATHIC RESEARCH
3910 LOS FELIZ BLVD
LOS ANGELES, CA 90027

HUNT OIL COMPANY
LOCK BOX 840722
DALLAS, TX 75284-0722

JACOB R. BAILEY AND CARA R.
BAILEY
801 6TH STREET SE
SIDNEY, MT 59270

JACQUE N. FLYNN AND ONALEE J.
FLYNN
1330 14TH ST. SW
SIDNEY, MT 59270

JACQUE W BEST REVOC TRST DTD
5/28/04
4619 CAMBRIA CIR
RAPID CITY, SD 57701

JAMES A DIANA GULLICKSON H/W
JT
3492 157TH AVE NW
CARTWRIGHT, ND 58838

JARED E. TROUDT
416 2ND AVE. SE
SIDNEY, MT 59270

JEANETTA COOLEY
RR1 BOX 182-A7
SIDNEY, MT 59270

JEANNE DIGE NOTTINGHAM
1319 KHANABAD WAY
MISSOULA, MT 59802

JEFF S. VOTAW AND SARAH D.
VOTAW
2611 VIRGINIA LANE
BILLINGS, MT 59102

ESTATE OF JOHNNY O.VERHASSELT,
DECEASED C/O LINDA M. BIEBER
3221 HIGHWAY 58
FAIRVIEW, MT 59221

JERROLD ROY BURNS
1984 CHENEY CREEK RD
CARTWRIGHT, ND 58838-9766

JIM D SANDELL
1008 PINNACLE VW E
KERRVILLE, TX 78028-7301

JO ANN OVERBY LARSON
13716 EARNSHAW ST
OVERLAND PARK, KS 66221

JOAN H QUAY
624 ALVARADO RD
BERKELEY, CA 94705

JOANN BIKSEN PETERSON
440 2ND ST NW STE 115
COKATO, MN 55321

JEFFREY RUFFATTO
3858 MT-78
COLUMBUS, MT 59019

JOHN H HUSTIG
1285 PACIFIC ST
BROOKLYN, NY 11216

JOHN H PUTNAM
11453 STONECROFT TERRACE
SAN DIEGO, CA 92131

JOHN WINTER
2164 HORSE CREEK ROAD
CARTWRIGHT, ND 58838

JOLEEN SCHULTE
1113 COMMUNITY LOOP
BISMARCK, ND 58503-7430

JONEL HALL
2210 OLD HWY 99 S SPACE 32
MOUNT VERNON, WA 98273

JORGENSEN FAMILY TRUST DTD
6/7/96, C/O JAN BARNES
5728 EAST FARM RD 168
ROGERSVILLE, MO 65742

JOSH LAROCHE AND LAURA
LAROCHE
949 15TH ST. SW
SIDNEY, MT 59270

JOYCE HARTNETT
2318 LOUISE LN
BILLINGS, MT 59102

JRB INVESTMENTS LLC
8605 HWY 1804 N
BISMARCK, ND 58503

JUDY ANN REID
1295 14TH ST. SW
SIDNEY, MT 59270

JULIA HAUGEN
106 COULTER LOOP
BIG FORK, MT 59911

JULIEANNE LEPA
21 PUTTER LN
NEW SMYRNA BEACH, FL 32168

JUSTIN DAMM AND MELISSA
DAMM, JT
744 LAMBRECHT LANE
BILLINGS, MT 59105



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Jaws SWD 1
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MONTANA BOARD OF OIL &
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KANSAS STATE COLLEGE
110 ANDERSON HALL, 919 MID-
CAMPUS DRIVE NORTH
MANHATTAN, KS 66506-0110

KAREN DEGN KRUM
3111 PARKHILL DR.
BILLINGS, MT 59102

KAREN J DAVIDSON
802 CO RD 4668
RHOME, TX 76078-5178

KAREN LIVINGSTON
8751 WEST OBRIEN CK DR
WASILLA, AK 99623

KATHERINE MARIE HAUGEN
2800 GATEWAY AVE APT 104
BISMARCK, ND 58503

KATHLEEN A BATES
6082 BLUE RIDGE DR STE D
HIGHLANDS RANCH, CO 80130

KAYLAN M. JOHNSON
994 14TH STREET SW
SIDNEY, MT 59270

KELVIN BUXBAUM
12281 CO RD 349R
SIDNEY, MT 59270-9514

KEVIN BUXBAUM
3627 SURREY CIR
BILLINGS, MT 59102-4345

KEVIN KERBEL
PO BOX 371696
MONTARA, CA 94037

KIM BOYCE
301 ROPER LANE
LEWISTOWN, MT 59457

KIRK R. DIGE
PO BOX 160472
BIG SKY, MT 59716

KIRSTEN DEGN
500 BITTERSWEET AVENUE
GERMANTOWN HILLS, IL 61548

KOCH EXPLORATION COMPANY LLC
PO BOX 301269
DALLAS, TX 75303

KRAKEN OIL & GAS, LLC
945 BUNKER HILL RD., SUITE 1200
HOUSTON, TX 77024

KURT WHITEHEAD MARY BARNUM
HEIR
PO BOX 388
KLAWOCK, AK 99925

KYLE J. NELSON AND BARBARA J.
LANDER
1002 14TH ST. SW
SIDNEY, MT 59270

KYTE MINERAL PROPERTIES LLC
PO BOX 5006
BISMARCK, ND 58502

LEE A. TROUDT AND RENEE K.
TROUDT, A/K/A RENAE K. TROUDT
1588 14TH AVE. SW
SIDNEY, MT 59270

LAGUNA PETROLEUM
CORPORATION
PO BOX 841735
DALLAS, TX 75284-1735

LAMBDA CHI ALPHA NATIONAL
FRATERNITY
11711 N PENNSYLVANIA ST STE 250
CARMEL, IN 46032

L KYLE KIRKLAND
12750 BRIAR FOREST DR STE 403
HOUSTON, TX 77077-2368

LARRY HARRIS
12371 CO RD 351
SIDNEY, MT 59270

LEE ALAN TROUDT
1588 14TH AVE. SW
SIDNEY, MT 59270

LEFTHAND RESOURCES LLC
PO BOX 3498
BOULDER, CO 80307

LEIGHTON L. ZIEGLER AND KAREN
ZIEGLER
1124 COURTNEY CIRCLE
BILLINGS, MT 59105

LINDA J BERGER
23908 NE 115TH LN UNIT 101
REDMOND, WA 98053

LORA L RIVELAND
12721 W ROANOKE AVE
AVONDALE, AZ 85392

LORENA D HAUGEN
810 4TH AVE WEST
WILLISTON, ND 58801

LORI A. NORBY
35244 COUNTY ROAD 126
SIDNEY, MT 59270



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Surface and Mineral Owner List
Jaws SWD 1
Richland County, MT

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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

LORRAINE SCHMELZER
1201 60TH ST NE
SAUK RAPIDS, MN 56379

LPK MINERAL TRUST DTD 3/1/17
1401 S MAIN ST
WATFORD CITY, ND 58854-6720

MARCELLA R. JONES, AND THE
ESTATE OF CLIFFORD F. JONES
34975 HIGHWAY 23
SIDNEY, MT 59270

MARGARET R FISHER
999 SUNFLOWER LN
SIDNEY, MT 59270

MARILYN ROTHMAN
217 CHELSEA DR.
FOREST, VA 24551

MARTINI PROPERTIES LLC
3703 COLTON BLVD.
BILLINGS, MT 59102

MARVI J DYNNESEN
585 QUIN WAY AVE SE
SALEM, OR 97317-6815

MARVIN J MASSET
PO BOX: 815
BISMARCK, ND 58502-0815

MARY LEE MANTZ
PO BOX 1537
FORSYTH, MT 59327

MICHAEL A. DEGN AND JILL W.
DEGN, AS JOINT TENANTS SARAH
MICHELLE DEGN AND MATTHEW
SCOTT DEGN, BENEFICIARIES OF
TRANSFER ON DEATH MINERAL
DEED
PO BOX 556
SIDNEY, MT 59270

MARY LOU BIKSEN JAMES ALLEN
AS AIF
PO BOX 31027
COLORADO SPRINGS, CO 80931-
1027

MARY J. DIGE, PERSONAL
REPRESENTATIVE OF THE ESTATE
OF BRYAN A. DIGE, DECEASED
2315 BEAVER CREEK RD.
GALLATIN GATEWAY, MT 59730

MATTHEW BERZEL
701 CHESTNUT ST
ANACONDA, MT 59711

MAUREEN A PERDUE
1720 WEST SARAZIN DR
ALHAMBRA, CA 91803

MAXINE GOOSEY
7317 SENEQUOTEN TRL
SPIRIT LAKE, ID 83869

MBI OVERRIDES LLC
103 5TH ST SE
DICKINSON, ND 58601

MEDTANA, LLC
1398 14TH ST. SW
SIDNEY, MT 59270

MELANIE D. FAHRENBRUCH
1143 W. SEA FOG DR.
GILBERT, AZ 85233

MICHAEL A. MORAN AND SHELLEY
T. MORAN
1365 15TH ST. SW
SIDNEY, MT 59270

MICHELLE R LARSON & MELODEE R
KJOS JT
14051 CO RD 351
FAIRVIEW, MT 59221

MICHAEL A. DEGN, PERSONAL
REPRESENTATIVE OF THE ESTATE
OF DEO T. DEGN, DECEASED
PO BOX 556
SIDNEY, MT 59270

MARY STEPPLER
32085 COUNTY ROAD 139
BROCKTON, MT 59213

MICHAEL P. HEIN
1002 W. COAST DR.
GILBERT, AZ 85233

MICHELLE C. WIMETT
17711 HILLBORO PLACE
CANYON COUNTRY, CA 91387

MELISSA WILLIS
206 NW BROWN ST
VERNDAL, MN 56481

MONTE J BERZEL
PO BOX 265
MILES CITY, MT 59301

MOON ROYALTY LLC
PO BOX 720070
OKLAHOMA CITY, OK 73172-0070



MORNINGSTAR
OPERATING

Surface and Mineral Owner List
Jaws SWD 1
Richland County, MT

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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

MORNINGSTAR OPERATING LLC
400 WEST 7TH ST
FORT WORTH, TX 76102

NANCY KERBEL
7102 GOLF COURSE LN.
SAN JOSE, CA 95139

NATALIE J. BELL
30 PITCHER ROAD
BELFAST, ME 4915

NELS DEGN
12462 S. COMPASS AVENUE
PLAINFIELD, IL 60585

NICHOLAS J. JONES
PO BOX 767
SIDNEY, MT 59270

NORTHLAND ROYALTY CORP
PO BOX 1676
BISMARCK, ND 58502

OMNI COMMUNICATIONS, INC.
102 2ND AVE. SW
SIDNEY, MT 59270

ORLAN SORENSEN
440 ORCHARD RIDGE RD
KALISPELL, MT 59901-7565

OTOOLE OIL INC
PO BOX 529
PLENTYWOOD, MT 59254

PAMELA LARSON-SHERLOCK
25295 DELMAR AVE
NEW PRAGUE, MN 56071-8812

PATRICIA J CHADWICK
1831 5TH ST N
FARGO, ND 58102

PATRICIA JESSEN
4716 14TH ST W
DICKINSON, ND 58601

PATRICIA NELSON
34499 CO RD 124
SIDNEY, MT 59270

PAUL J COLBY
7 RAMSELL WAY
BYFORD WA, AU-UN 6122

PETER RUFFATTO
873 S HILLS DR
BELLINGHAM, WA 98229-6846

PETER MASSET, DAKOTA WEST
ENERGY LLC
PO BOX: 816
BISMARCK, ND 58502-0816

PETER C. SHEEHAN AND NANCY J.
SHEEHAN
442 INDIAN TRAIL
BILLINGS, MT 59105

PHILOSOPHICAL RESEARCH
SOCIETY
3910 LOS FELIZ BLVD
LOS ANGELES, CA 90027

PHOENIX ENERGY ONE LLC
18575 JAMBOREE RD STE 830
IRVINE, CA 92612

PIONEER CEMETERY ASSOC, C/O
NANCY HEDEGAARD
920 13TH ST SW
SIDNEY, MT 59270

PRESTON LONG AND AMBRIA
LONG
1526 11TH AVE. SW
SIDNEY, MT 59270

PURIFIED RESOURCE PARTNERS LLC
PO BOX 77
SIDNEY, MT 59270

R G & BETTY M CHOLEWINSKI
FAMILY TRUST
8248 N RAINBOW VISTA
PRESCOTT VALLEY, AZ 86315-3554

R M MARTIN
2909 PURDUE
CORSICONA, TX 75110

RICHARD HAUGEN
PO BOX 1161
FORSYTH, MT 59327-1161

REECE L. GAIRRETT
1587 13TH AVE. SW
SIDNEY, MT 59270

RENEE K. DYNNESON
1588 14TH AVE. SW
SIDNEY, MT 59270

RETOVA RESOURCES LP
1485 S COLORADO BLVD STE 300
DENVER, CO 80222

RHONDA DEGN ROBERTS
1805 PATRICIA LANE
BILLINGS, MT 59102

RHONDA L HARRIS
7233 DE COSTA DR NE
ROCKFORD, MI 49341



MORNINGSTAR
OPERATING

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Surface and Mineral Owner List

Jaws SWD 1

Richland County, MT

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

RICHLAND COUNTY HOUSING
AUTHORITY
1032 6TH ST. SW
SIDNEY, MT 59270

RALEIGH G. PECK AND DEBRA J.
PECK
1575 10TH AVE. SW
SIDNEY, MT 59270

RICHLAND COUNTY COALITION
AGAINST DOMESTIC VIOLENCE,
INC.
PO BOX 822
SIDNEY, MT 59270

RHONDA RUPP
423 2ND ST NE
SIDNEY, MT 59270-4601

RICHLAND COUNTY, MONTANA
201 WEST MAIN ST.
SIDNEY, MT 59270

RICKY NELSON
1746 SATTLER DR.
CONCORD, CA 94519

ROBERT D DIGE
PO BOX 134
SAND COULEE, MT 59472

RONALD AMUNRUD
2706 TREASURE DRIVE
BILLINGS, MT 59102

RONALD R. AMUNRUD AND GREG
POPP, AS CO-TRUSTEES OF THE
JANET L. AMUNRUD CREDIT TRUST
2706 TREASURE DRIVE
BILLINGS, MT 59102

RONDA M DISHON
1005 18TH ST E
WILLISTON, ND 58801

ROSE H SPIEGEL
41 COUSHOCKER STATE RD
BALA CYNWYD, PA 19004

ROSEANN L. MCFARLAND
410 3RD AVE. SW, APT 118
SIDNEY, MT 59270

RPR1MT, LLC
1511 S. CENTRAL AVE.
SIDNEY, MT 59270

RUBY M DYNNESEN
540 LABRANT ROAD
KALISPELL, MT 59901

SARAH A MCKINLEY
507 14 ST SE
SIDNEY, MT 59270

SASHA BANNISTER
440 RICHARD & LAKE ROAD
FORT COLLINS, CO 80524

SCOTT WHITEHEAD
59-484 KAM HWY
HALEIWA, HI 96712-9624

SHEREE A ALBIN
33791 CO RD 131
SIDNEY, MT 59270-3563

SHERILL L DOMBROSKY
6014 ELYSIAN RD UNIT 101
BILLINGS, MT 59101

SHERYL SORENSEN
5317 S PALOUSE HWY APT B112
SPOKANE, WA 99223

SHIRLEY HANSON
150 SKEELS AVE #212
HAMILTON, MT 59840

STACY W. JOHNSON AND
MARCELLA JOHNSON
1261 15TH ST. SW
SIDNEY, MT 59270

STEPHEN TURNER
2612 VIA ARROYO
BULLHEAD CITY, AZ 86442

STEVEN RUFFATTO
4037 HYALITE CT
BILLINGS, MT 59106

STEWART GEOLOGICAL INC
2650 OVERLAND AVE
BILLINGS, MT 59102-7407

SUMMER DANIELS
4681 SPRINGHILL COMMUNITY RD
BELGRADE, MT 59714

SUSAN BEE BROWN
PO BOX 337
DELRAY BEACH, FL 33444

SUSAN BIKSEN-BOND
805 NORTH BROADWAY
FERGUS FALLS, MN 56537

TANA DAWN RUEGAMER
38 MAYPOLE RD
QUINCY, MA 02169

TARA LEE BECKER-KEHLER
3643 E 5TH ST
TUCSON, AZ 85716



MORNINGSTAR
OPERATING

Surface and Mineral Owner List

Jaws SWD 1
Richland County, MT

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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

TEREDO ROYALTIES LLP
PO BOX 1602
BISMARCK, ND 58502-1602

TERRY VERHASSELT
35019 COUNTY ROAD 122
SIDNEY, MT 59270

THE HAMILL FOUNDATION
14701 ST MARYS LANE SUITE 290
HOUSTON, TX 77079-2923

THE LYAL & SYBIL PURCELL FAMILY
TRUST U/A DTD 9/22/11
27 4TH ROAD
MARSHFIELD, MA 02050

THOMAS G. BAXTER AND
KRISTIN E. BAXTER
703 SOUTH ELLERY AVENUE
FAIRVIEW, MT 59221

THE STEVEN FROMAN 2014
FAMILY TRUST
2521 27 AVE S
MINNEAPOLIS, MN 55406-1309

TUSIND TAK LLC
11153 HWY 16
SAVAGE, MT 59262-9414

THE TERMO COMPANY
PO BOX 2767
LONG BEACH, CA 90801

THIEL SERVICE CO. LLC
1807 S. CENTRAL AVE.
SIDNEY, MT 59270

TURNAROUND PROFESSIONALS LLC
12011 S. KIMBALL AVE.
CALDWELL, ID 86305

THOMAS TURNER
1800 140TH AVE. NE
HAM LAKE, MN 55304

TJK FAMILY PROPERTIES LLC
PO BOX 50715
BILLINGS, MT 59105

TRACY L GARLAND
1001 6TH AVE SE
SIDNEY, MT 59270

TRACY M. SUNWALL
1170 14TH ST. SW
SIDNEY, MT 59270

TRENTON FREDERICK KINDOPP
2704 MOUNTAIN VIEW DR
CARLSBAD, NM 88220

TRUE OIL LLC
PO BOX 2360
CASPER, WY 82602

TUMBLEWEED VENTURES, INC.
PO BOX 50653
BILLINGS, MT 59105

TURMOIL INC
PO BOX 5
BISMARCK, ND 58502

THE REVOCABLE TRUST OF
KENNETH C. DIGE AND STELLA C.
DIGE DATED JANUARY 30, 2001
15114 148TH ST. E
ORTING, WA 98360

THE MARGARET JOHNSON BARR
REVOCABLE LIVING TRUST UNDER
AGREEMENT DATED
OCTOBER 14, 2009
33120 XENON DR. NW
PRINCETON, MN 55371

UNCLE JOES ENTERPRISE LLC, C/O
FIRST NATIONAL BANK & TRUST,
ATTN: TRUST DEPT
PO BOX 1827
WILLISTON, ND 58802-1827

UNIVERSITY SYSTEM OF NEW
HAMPSHIRE CHARLES STILLINGS
TRUST
27 CONCORD RD
DURHAM, NH 03824

WANDA SCHROEDL
3912 178TH PL NE
ARLINGTON, WA 98223-8791

WB VAN HOOK SR NK VAN HOOK
WB VAN HOOK JR AS JOINT
TENANTS
12653 CO RD 352
SIDNEY, MT 59270

WENDI CHAMBERLAIN
1364 14TH ST. SW
SIDNEY, MT 59270

WHITE ROCK OIL & GAS GP II LLC
5810 TENNYSON PKWY STE 500
PLANO, TX 75024

WHITE ROCK OIL & GAS
PARTNERS II-B LP
5810 TENNYSON PKWY STE 500
PLANO, TX 75024

JAN 08 2026



MORNINGSTAR
OPERATING

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Affidavit of Notification to Surface and Mineral Owners

Jaws SWD 1

Richland County, MT

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

IN THE MATTER OF THE APPLICATION FOR
MORNINGSTAR OPERATING LLC FOR THE HEARING
OF ITS REQUEST FOR A UIC PERMIT FOR THE JAWS
SWD 1 WELL, 2387' FSL 1037' FEL, SECTION 5, T22N,
R59E, P.M.M. RICHLAND COUNTY, MONTANA, FOR
THE PURPOSE OF WATER INJECTION

AFFIDAVIT OF NOTIFICATION

Date: January 6, 2026

State of Utah
County of Uintah

Amy Doebele, being first duly sworn, deposes and says:

That Notice of advising of MorningStar Operating LLC' 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 6th day of January 2026, postage prepaid, First Class USPS Mail. This affidavit is given as evidence of compliance with A.R.M. 36.22.1410.


Amy Doebele
Authorized Agent

Subscribed and sworn before me on this 6th day of January, 2026.


Notary Public of the State of UT
My Commission Expires: May 19, 2026





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JAN 08 2026

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

January 6, 2026

To: Surface owner within ¼ mile of the proposed saltwater disposal well.

RE: Proposed Saltwater Disposal Well

Location of proposed Disposal Well & Facility: Jaws SWD 1

Surface Hole Location: NE 1/4 SE 1/4, Section 5, Township 22N, Range 59E. P.M.M.

Bottom Hole Location: NE 1/4 SW 1/4, Section 4, Township 22N, Range 59E. P.M.M.

Richland County, Montana

This letter is to advise you that MorningStar Operating LLC (MorningStar) plans to drill and complete the subject well into a Class II saltwater disposal well. Water will be injected into the Dakota group for the purpose of disposal operations.

In accordance with the rules and regulations of the Montana Board of Oil & Gas Conservation (MBOG), MorningStar is required to give notice that it has made an application to perform this work to each surface owner within a one-quarter mile radius of the injection site. The MBOG will conduct a hearing regarding this application. For the hearing date, please contact the MBOG by phone at (406) 656-0040, or visit their website at <https://dnrc.mt.gov/BOGC/>. Your comments or objections regarding this application may be directed to the MBOG at that time.

Written comments or objections may be submitted prior to the hearing to the following address:

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

Please direct any and all of your communication regarding this proposed project, including more information about the upcoming hearing, to Mr. John Gizicki with the MBOG at (406) 656-0040 or to Dave Harford with MorningStar Operating LLC at (817) 334-7800.

Sincerely,

Amy Doebele

Authorized Agent for MorningStar Operating LLC

400 W 7TH STREET • FORT WORTH, TX 76102 • 817.334.7800



RECEIVED

JAN 08 2026

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

January 6, 2026

To: Mineral lease owner within ¼ mile of the proposed saltwater disposal well.

RE: Proposed Saltwater Disposal Well

Location of proposed Disposal Well & Facility: Jaws SWD 1

Surface Hole Location: NE 1/4 SE 1/4, Section 5, Township 22N, Range 59E. P.M.M.

Bottom Hole Location: NE 1/4 SW 1/4, Section 4, Township 22N, Range 59E. P.M.M.

Richland County, Montana

This letter is to advise you that MorningStar Operating LLC (MorningStar) plans to drill and complete the subject well into a Class II saltwater disposal well. Water will be injected into the Dakota group for the purpose of disposal operations.

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Written comments or objections may be submitted prior to the hearing to the following address:

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

Please direct any and all of your communication regarding this proposed project, including more information about the upcoming hearing, to Mr. John Gizicki with the MBOGC at (406) 656-0040 or to Dave Harford with MorningStar Operating LLC at (817) 334-7800.

Sincerely,

Amy Doebele

Authorized Agent for MorningStar Operating LLC

400 W 7TH STREET • FORT WORTH, TX 76102 • 817.334.7800



MORNINGSTAR
OPERATING

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JAN 08 2026

Affidavit of Publication

Jaws SWD 1

Richland County, MT

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Independent Record

AFFIDAVIT OF PUBLICATION

Helena Independent Record
2222 N. Washington St
Helena, Montana 59602
(123) 456-7890

State of New Jersey, County of Camden, ss:

Laquansay Nickson Watkins, being first duly sworn, deposes and says: That (s)he is a duly authorized signatory of Column Software, PBC, duly authorized agent of Helena Independent Record, a newspaper of general circulation published that is a "legal newspaper" as that is published daily in the City of Helena, in the County of Lewis and Clark, State of Montana, and has charge of the Advertisements thereof.

If this certification is for the State of Montana, I hereby certify that I have read sec. 18-7-204 and 18-7-2050 MCA, and subsequent revisions, and declare that the price or rate charged the State of Montana for the publication for which claim is made in printed copy in the amount of \$152.950 is not in excess of the minimum rate charged any other advertiser for publication of advertisement, set in the same size type and published for the same number of insertions, further certify that this claim is correct and just in all respects, and that payment or credit has not been received.

PUBLICATION DATES: January, 3 2026

NOTICE ID: 5bYHba5wJcyqW9MwVv

PUBLISHER ID: COL-MT-201977

NOTICE NAME: Morningstar Operating, LLC - Jaws SWD 1
Publication Fee: \$152.95

(signed) Laquansay Nickson Watkins

SHARON E THOMAS-POPE
NOTARY PUBLIC
STATE OF NEW JERSEY
My Commission Expires January 23, 2027

VERIFICATION

State of New Jersey
County of Camden

Subscribed in my presence and sworn to before me on this: 01/05/2026

SM S. & Poe

Notary Public
Notarized remotely online using communication technology via Proof.

MorningStar Operating - Jaws SWD 1
BEFORE THE BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
In the Matter of the application of

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

for a Class II Injection well permit.

Name and address of Applicant:
400 W 7th Street

MorningStar Operating LLC
Fort Worth, TX 76102

Legal Description including County and Approximate Footages
of Surface Location of Proposed Oil and Gas Well:
(and projected bottom-hole location, if a directional or horizontal
well)

Jaws SWD 1
Surface Hole: 2387' FSL 1037' FEL
NESE Section 5, Township 22 North, Range 50 East
Bottom Hole: 1926' FSL 1404' FWL
NESW Section 4, Township 22 North, Range 50 East
Richland County, MT

Sources of fluids to be injected
Produced water from Three Forks (Bakken) wells
Zone or formation into which injection will occur, including depth
Dakota from 5,470' -8000'

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 meeting upon the application of MorningStar
Operating 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 & Gas Hearing Room at 2535
St. John's Ave. Billings, Montana, beginning at 9:00 am on
Thursday, February 12, 2026.

January 3, 2026 COL-MT-201977 MNAXLP



MORNINGSTAR
OPERATING

Affidavit of Publication
Jaws SWD 1
Richland County, MT

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JAN 08 2026

**MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS**

**SIDNEY
HERALD**

AFFIDAVIT OF PUBLICATION

Sidney Herald
310 2nd Ave NE
(406) 433-2403

I, Edmar Corachia, of lawful age, being duly sworn upon oath depose and say that I am an agent of Column Software, PBC, duly appointed and authorized agent of the Publisher of Sidney Herald, a publication that is a "legal newspaper" as that phrase is defined for the city of Sidney, for the County of Richland, in the state of Montana, that this affidavit is Page 1 of 1 with the full text of the sworn-to notice set forth on the pages that follow, and that the attachment hereto contains the correct copy of what was published in said legal newspaper in consecutive issues on the following dates:

PUBLICATION DATES:
Jan. 3, 2026

Notice ID: gmArFdqjdjjC0gk2d7S
Publisher ID: SHM000651
Notice Name: Morningstar Operating, LLC - Jaws SWD 1

PUBLICATION FEE: \$105.39

Request of
Alesha Jones

I declare under penalty of perjury and under the laws of the state of Montana that the foregoing is true and correct.

Edmar Corachia

Agent

VERIFICATION

State of Florida
County of Orange

Signed or attested before me on this: 01/05/2026

[Signature]

Notary Public
Notarized remotely online using communication technology via Proof.

Public Notice
MorningStar Operating - Jaws
SWD 1
BEFORE THE BOARD OF OIL
AND GAS CONSERVATION
OF THE STATE OF MONTANA
In the Matter of the application of

NOTICE OF INTENTION
TO APPLY FOR A CLASS I
INJECTION WELL PERMIT
MorningStar Operating LLC

for a Class I Injection Well Permit

Name and address of Applicant:
400 W 7th Street

MorningStar Operating LLC
East Wirth, TX 76103
Legal Description including County
and Approximate Footage of
Surface Location of Proposed Oil
and Gas Well:
Grid projected bottom hole
location, if a directional or
horizontal well:
Jaws SWD 1
Surface Hole: 2387' F9L 1037' FEL
NESSE Section 5, Township 32
North, Range 98 East
Bottom Hole: 1926' F9L 1404' F9NL
NESW Section 4, Township 32
North, Range 98 East
Richland County, MT
Source of fluids to be injected:
Produced water from Three Forks
(Bakken) A-016
Zone of formation into which
injection will occur, including depth
Dakota from 3,170' - 4,000'

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 36.02, 1405, Administrative Rules of Montana, the Montana Board of Oil and Gas Conservation will hold a public meeting upon the application of MorningStar Operating LLC for a Class I underground injection permit for the well or project set forth above. Said hearing will be held at the Montana Board of Oil & Gas Hearing Room at 2535 SE John's Ave, Billings, Montana, beginning at 9:00 am on Thursday, February 12, 2026.
Date: January 3, 2026
SHM000651



PAMELA BAEZ
Notary Public - State of Florida
Commission # MH 732409
Expires on October 19, 2029

Report of Subsurface Injection

ARM 36.22.307, 36.22.1242, 36.22.1414, & 36.22.1415

For Month Of: 12/2025

Month	Year
-------	------

Field Number: 8340

Unit/Lease Name: SWD

Fluid Source: Unit produced water

Formation Injected into: DAKOTA

Days	Monthly Injection	Maximum Injection	Total Cumulative	Max Inj.	Avg. Inj.	Maximum	Average
------	-------------------	-------------------	------------------	----------	-----------	---------	---------

Address: 710 Grand Avenue, #7

Billings, MT 59101

Note: Mail three (3) copies of this report to the Montana Board of Oil and Gas conservation at Helena, Montana, on or before the last day of each month following the month covered by the report. Separate report(s) must be filed covering each enjection or disposal project.