



March 2, 2026

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

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: KIMONO 1 SWD
SWSE, Section 31, Township 29N, Range 57E. P.M.M.
Roosevelt County, Montana

Dear Mr. Gizicki,

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

If you have any questions concerning the enclosed application, please do not hesitate to reach out.

Sincerely,

Tori Siemieniewski
Director – Bakken Regulatory
Phoenix Operating LLC
701-870-2961

David Scadden
Chief Operating Officer, Partner
Phoenix Operating LLC
307-217-7909

RECEIVED

ARM 36.22.307, 601, 605,
1003, 1004, 1011, 1013, 1103,
1222, 1240, 1301, 1306, 1309,
and 1417

MAR 02 2026

Submit In Quadruplicate To:

**MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102**

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

SUNDRY NOTICES AND REPORT OF WELLS

Operator PHOENIX OPERATING LLC		Lease Name: KIMONO	
Address 4643 SOUTH ULSTER STREET, SUITE 1510		Type (Private/State/Federal/Tribal/Allotted): Private	
City DENVER	State CO	Zip Code 80237	Well Number: 1 SWD
Telephone 303-548-1953	Fax	Unit Agreement Name:	
Location of well (1/4-1/4 section and footage measurements): SWSE Section 31, T29N, R57E, 375' FSL & 2188' FEL		Field Name or Wildcat: Wildcat	
API Number: 25		Township, Range, and Section: Section 31, T29N, R57E	
Well Type (oil, gas, injection, other): INJECTION		County: Roosevelt	
State	County	Well	

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

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

Describe Proposed or Completed Operations:

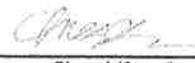
Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Phoenix respectfully requests approval to drill and complete a disposal well at the above-referenced location for the injection of Class II E&P waste. Notice has been provided to all parties within the quarter mile area of review. An application for hearing has been docketed with the Montana Board of Oil and Gas Conservation and is scheduled for April 2026.

Phoenix requests a variance from running open hole logs on the subject well. Offset logs can be found for the ROGNEY 4-17 (API#25085213880000).

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

BOARD USE ONLY	
Approved _____	Date _____
Name _____	Title _____

2/24/2026	
Date	Signed (Agent)
Megan Griffith, Regulatory Specialist	
Print Name and Title	
Telephone: _____	720-250-8737



MAR 02 2026

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

February 26, 2026

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

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: KIMONO 1 SWD
SWSE, Section 31, Township 29N, Range 57E. P.M.M.
Roosevelt County, Montana

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If you have any questions concerning the enclosed application, please do not hesitate to reach out.

Sincerely,

Tori Siemieniewski
Director – Bakken Regulatory
Phoenix Operating LLC
701-870-2961

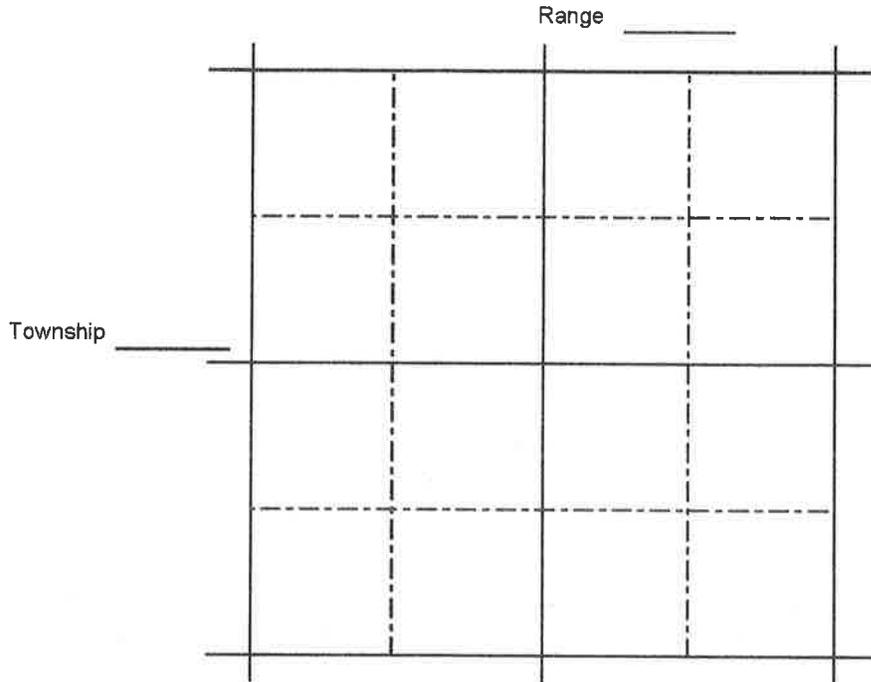
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SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.
Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

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

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

**UIC Plan
KIMONO 1 SWD**

1. Operator Description

Phoenix Operating LLC

4643 South Ulster Street, Suite 1510
Denver, CO 80237

2. Proposed Well Location

Well Name: KIMONO 1 SWD
Location: 375' FSL & 2188' FEL, Section 31, T29N, R57E, Roosevelt County.
Field: Wildcat
Ungraded Ground Elevation: 2268'
Finished Pad Elevation: 2267'

3. Lithologic Description of the Proposed Injection & Confining Zone

Injection Zone: Inyan Kara Formation

Estimated Top: 5196' TVD
Estimated Thickness: 628'
Description: consists of alternating fluvial deltaic sandstones, siltstones, and shales varying thickness and lateral extent. Stratigraphic variability in the Inyan Kara is generally interpreted to be the result of multiple episodes of erosion and subsequent channel-filling.

Upper Confining Zone: Mowry Formation

Estimated Top: 4794' TVD
Estimated Thickness: 402'
Description: medium to dark gray, soft, flaky, often bentonitic, shale. Lower Cretaceous Dakota Group consists of offshore marine shales and bentonitic claystone.

Lower Confining Zone: Swift Formation

Estimated Top: 5824' TVD
Estimated Thickness: 444'
Description: dark gray to greenish, fissile, waxy, silty, and often calcareous shale. The Jurassic Swift formation lies conformably below the Inyan Kara. The Swift is made up of shallow marine shale and siltstone.

*Offset geologic tops calculated from ROGNEY 4-17 (API#25085213880000).

4. Maximum Injection Pressure Calculation

Maximum injection pressure was determined utilizing the following formula in accordance with §146.23

$$\text{MSIP} = (\text{Depth of Perf(TVD)}) * (\text{Frac. Grad.}) - (\text{Water Grad.}) * (\text{SG Injectate}) * (\text{Depth of Perf})$$

MSIP = Maximum Surface Injection Pressure (measured at surface)

Depth of Perf = Top Perf (TVD)

0.733 psi/ft = Fracture Gradient

0.433 psi/ft = Freshwater gradient, psi/ft.

SG Injectate = specific gravity (of injected fluid from produced water samples)

0.433 = freshwater gradient, psi/ft.

$$\text{MSIP} = (5372 * 0.733) - (0.433 * 1.21) * 5372$$

$$\text{MSIP} = 1156.37 \text{ psi}$$

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5. Proposed Injection Program

The Operator plans to drill a saltwater injection well and inject into the Inyan Kara formation of the Dakota Group. See above sections 4 and 5 for proposed injection volume and pressure maximums. The well has no plans to take third party volumes at this time. The proposed well is to be utilized by wells drilled from the same well pad. See appendix C for well list. No truck unloading is currently planned. □

6. Facilities Design

The proposed tanks will be constructed of steel in accordance to industry specifications. The design and construction of each bulk storage container will be compatible with the characteristics of the product it contains including temperature and pressure conditions. Piping between fixed above ground bulk storage tanks will be supported to minimize stress.

A 3' high metal containment will be constructed around the tank battery. A geomembrane liner shall be installed that extends and overlaps the steel wall containment maintaining continuous impermeable surface. A site perimeter berm approximately 2' high will be installed as well.

Please note: The proposed well is located on site with planned oil wells. The SWD facilities and the oil facilities are co-located within the same berms.

7. Spill Prevention and Monitoring Controls:

In addition to the previously mentioned secondary and tertiary containment (#7), the Operated facilities are equipped with 24-hour SCADA (Supervisory Control and Data Acquisition) remote monitoring systems. Onsite alarms are routed to the local PLC/HMI (Programmable Logic Controller/Human-Machine Interface), and then transmitted to SCADA. This setup enables real-time communication of potential issues at remote production facilities, significantly reducing detection time. The system alerts Operations personnel, allowing them to respond promptly and mitigate any concerns before they escalate into incidents. Below are some of the associated alarms:

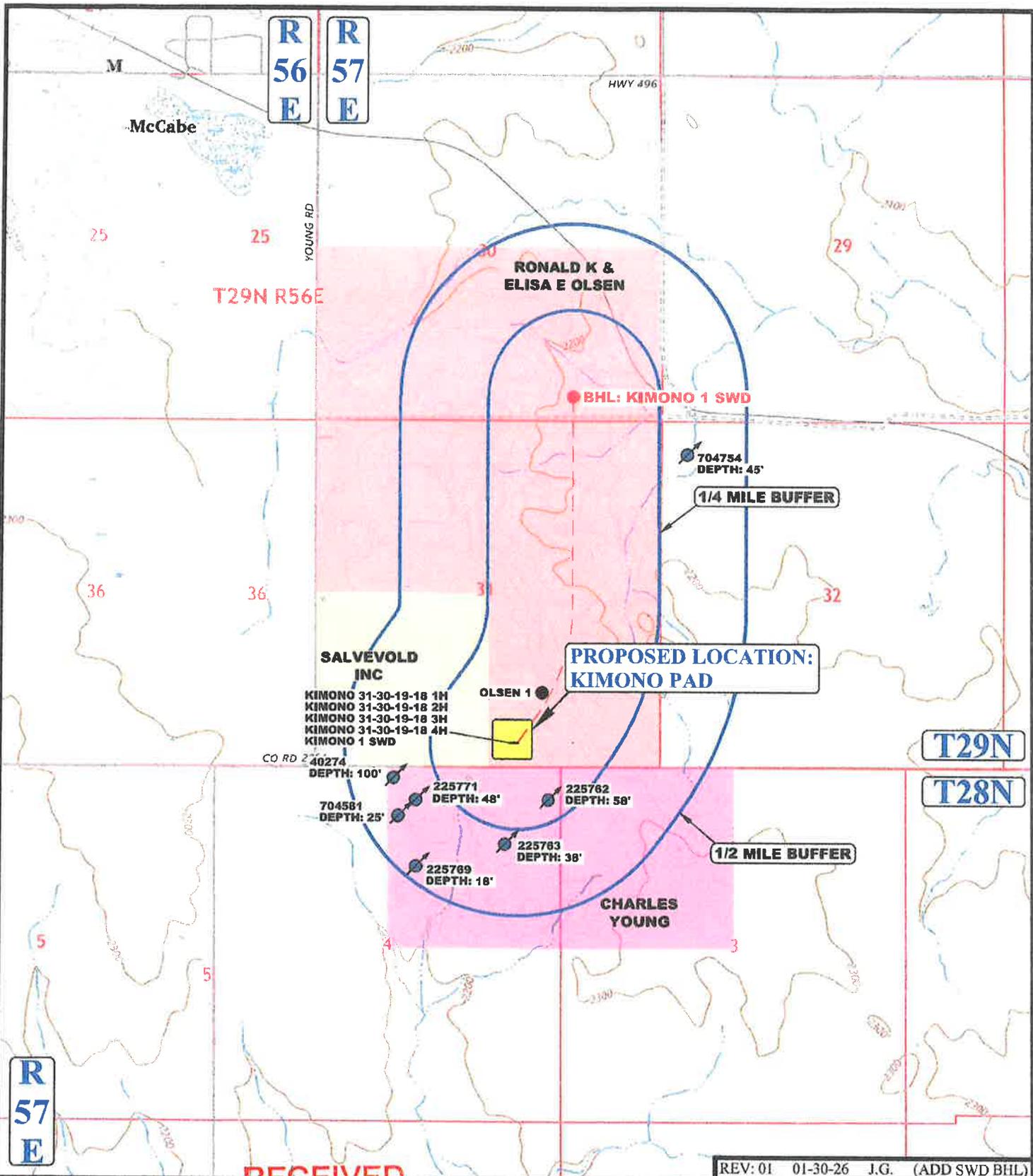
- Tank alarms: Each tank is equipped with a high-level alarm. If the fluid level continues to rise, an additional alarm is triggered to close the Emergency Shut Down Valve (ESDV) on the facility's inlet streams, preventing more fluid from entering the tank.
- Separator alarms: Each treater is fitted with a high-level alarm. Should the level continue rising, a secondary alarm will initiate closure of the ESDV on the facility's inlet streams to halt additional fluid inflow.
- Additional SCADA monitoring includes: tubing pressure, vibration monitoring, and low- and high-flow alarms, among others.

In accordance with EPA regulations, a SPCC (Spill Prevention, Control, and Countermeasure) Plan will be implemented within six months of commissioning. The plan evaluates site-specific measures for spill prevention and control, and outlines documented response protocols. The Operator currently conducts regular SPCC inspections to ensure compliance with applicable regulations. Additionally, annual SPCC training is mandatory for all personnel handling oil.

8. Appendices

- i. AOR Maps
- ii. FW SAMPLE ANALYSIS
- iii. REPRESENTATIVE LOG
- iv. WATER ANALYSIS (2 SOURCE WELLS)
- v. DRILLING & COMPLETIONS PLAN
- vi. WBD
- vii. LIST OF OWNERS WITHIN 1/4 MILE - see affidavit of mailing
- viii. AFFIDAVIT OF MAILING
- ix. EXAMPLE OF LANDOWNER NOTIFICATIONS (SURFACE & MINERAL)

Appendix I
AOR MAP
KIMONO 1 SWD



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REV: 01 01-30-26 J.G. (ADD SWD BHL)

LEGEND:

- OIL/GAS WELLS
- ⊕ WATER WELLS
- BOTTOM HOLE LOCATION

MONTANA BOARD OF OIL & GAS CONSERVATION - BILLINGS
WELLS, LLC

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



PHOENIX OPERATING LLC

KIMONO PAD
SW 1/4 SE 1/4, SECTION 31, T29N, R57E, P.M.M.
ROOSEVELT COUNTY, MONTANA

SURVEYED BY	C.B., D.D.	04-14-25	SCALE
DRAWN BY	C.S.C.	11-08-25	1 : 24,000
WELL PROXIMITY MAP			TOPO C

Appendix II
FW SAMPLE ANALYSIS
KIMONO 1 SWD

Per conversations with MBOGC UIC, a representative sample is already on file. No submission needed.

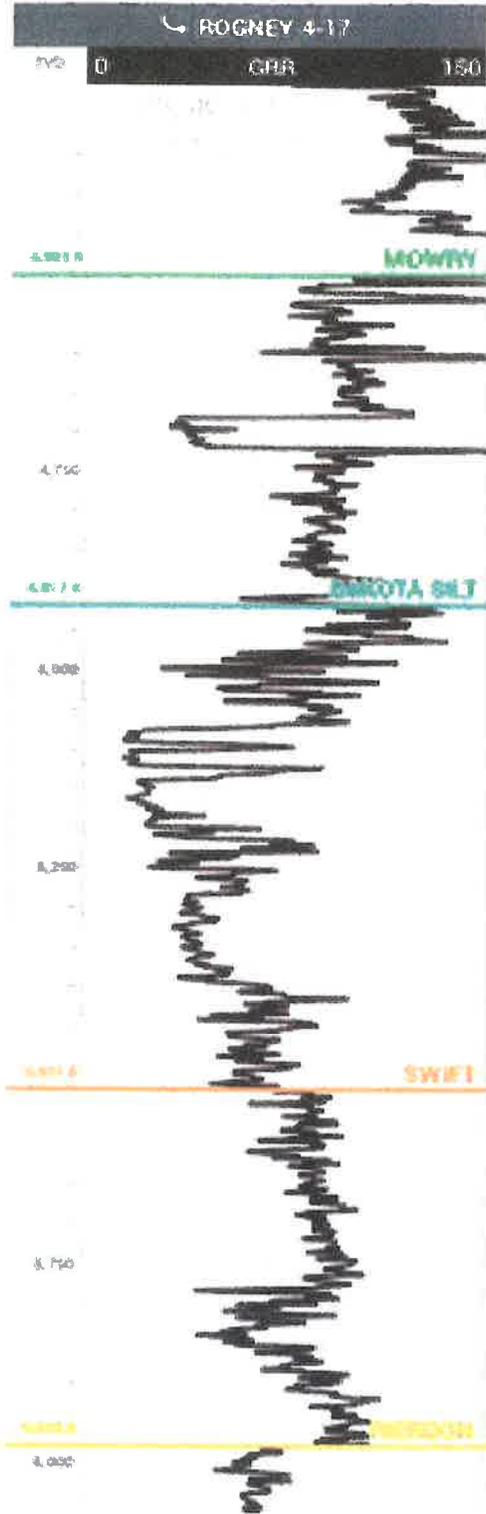
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Appendix III
REPRESENTATIVE LOG
KIMONO 1 SWD

Well: ROGNEY 4-17
API: 25085213880000



Appendix IV
WATER ANALYSIS (2 SOURCE WELLS)
KIMONO 1 SWD

See below for source well list. Phoenix Operating is currently permitting multiple wells on the same pad location as this proposed SWD. The Operator plans to only inject water from on pad wells. However, the sample included is representative of produced water in the area and was obtained from the nearby Milloy 10-3-24 #2H and Snyder 1-12 #1H wells.

File No:	Well Name:	Permit Status
TBD	KIMONO 31-30-19-18 1H	Submitted
TBD	KIMONO 31-30-19-18 2H	Submitted
TBD	KIMONO 31-30-19-18 3H	Submitted
TBD	KIMONO 31-30-19-18 4H	Submitted



MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 North Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
2616 East Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVTL.com



Account #: 23037 **Client:** Astro-Chem Laboratory, Inc.
Workorder: Milloy 10-3-24 #2H Well Pad (65921)

Brenda Benth
Astro-Chem
4102 2nd Ave W
Williston, ND 58801

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Certificate of Analysis

Approval

All data reported has been reviewed and approved by:

Stacy Zander

Stacy Zander, Bismarck Assistant Lab Manager Bismarck, ND

Analyses performed under Minnesota Department of Health Accreditation conforms to the current TNI standards.

NEW ULM LAB CERTIFICATIONS:
MN LAB # 027-015-125 ND WW/DW # R-040

BISMARCK LAB CERTIFICATIONS:
MN LAB # 038-999-267 ND W/DW # ND-016 SD SDWA

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Report Date: Wednesday, October 2, 2024 4:29:04 PM



MINNESOTA VALLEY TESTING LABORATORIES, INC.

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2616 East Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.MVT L.com



Account #: 23037

Client: Astro-Chem Laboratory, Inc.

Analytical Results

Lab ID: 65921001	Date Collected: 09/21/2024 10:30	Matrix: Groundwater
Sample ID: Treater (Production Water)	Date Received: 09/27/2024 10:55	Collector: Client

Temp @ Receipt (C): 21.0 **Received on Ice:** No

Parameter	Results	Units	RDL	DF	Prepared	Analyzed	Qual
-----------	---------	-------	-----	----	----------	----------	------

Method: ASTM D1298

Density	1.210 @ 65.0 F	g/cm3		1		10/01/2024 11:30	
Specific Gravity	1.210 @ 65.0 F	at 60/60F		1		10/01/2024 12:24	

MVT L guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Report Date: Wednesday, October 2, 2024 4:29:04 PM



MINNESOTA VALLEY TESTING LABORATORIES, INC.

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www.MVTL.com



Account #: 23037

Client: Astro-Chem Laboratory, Inc.

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Chain of Custody & Analytical Report
Astro-Chem Laboratory, Inc.
WO: 65921
www.astrochem.com



Page 1 of 1

Account Information (Billing Information) and Report Information (if different)
Company Name: Astro-Chem Lab, Inc. / Phoenix Operating
Contact: Chrystina Jungels
Phone: 701-572-7355
Mailing Address: PO Box 972, Williston, ND 58802-0972
Email: astrochem@midconetwork.com

Project Information
Project Name: PWSID, Permit, etc. Milroy 10-3-24 #2H Well Pad
Sampler Name: Dave Soadden
Sample Origin: State ND
Matrix Codes: A - Air, W - Water, S - Solids, V - Volatiles, B - Biosolids, O - Oil, DW - Drinking Water
Analysis Requested: (Empty table)

Table with columns: Sample Identification, Collection (Date, Time), Matrix, Number of Containers, Matrix (Pre-Check), Specific Gravity, Density, LAB ID. Row 1: 1 Treater (Production Water), 09/21/2024, 10:30 am, 1, W, checked, checked.

Custody Record MUST be signed
Released by (print): Dave Soadden - Left in Williston
Date/Time: 09/24/2024
Signature: D.S. Veldhuis
Received by (print): Christina Jungels
Date/Time: 09/24/2024
Signature: Christina Jungels
LABORATORY USE ONLY
Shipped by, Cooler ID(s), Chilled Seals, Intact, Receipt Temp, Temp Range, On Ice, Payment Type, Amount, Receipt Number

In certain circumstances, samples submitted to Astro-Chem Lab, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ELI-COC-01/21 v.4

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Report Date: Wednesday, October 2, 2024 4:29:04 PM



October 10, 2024

Christina Jungels
Astro-Chem Lab, Inc.
4102 2nd Ave. W.
Williston, ND 58801

RE: Project: Phoenix Operating, LLC
Pace Project No.: 10709475

Dear Christina Jungels:

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrea Richardson
andrea.richardson@pacelabs.com
(218)341-6080
Project Manager

Enclosures

cc: Accounts Payable, Astro-Chem Lab, Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



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CERTIFICATIONS

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
California Certification# 3096
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
DoD-ANAB #:ADE-3199
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

Pace Analytical Services Ormond Beach

North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity
Utah FL NELAC Reciprocity
Utah
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)807-1700

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SAMPLE SUMMARY

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

MONTANA BOARD OF OIL &
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Lab ID	Sample ID	Matrix	Date Collected	Date Received
10709475001	Milloy 10-3-24 #2H Well Pad	Water	09/21/24 10:30	09/26/24 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10709475001	Milloy 10-3-24 #2H Well Pad	EPA 6010D	DM	9	PASI-M
		SM 2320B	KEO	3	PASI-M
		SM 2540C	JKH	1	PASI-M
		SM 4500-H+B	KEO	1	PASI-M
		EPA 120.1 Resistivity	SWB	1	PASI-O
		SM 2510	KEO	1	PASI-M
		ASTM D5057	JKH	1	PASI-M
		EPA 300.0	JFP	2	PASI-M
		EPA 353.2	JFP	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis
PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

Project: Phoenix Operating, LLC

Pace Project No.: 10709475

Sample: Milloy 10-3-24 #2H Well Pad Lab ID: 10709475001 Collected: 09/21/24 10:30 Received: 09/26/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Minneapolis								
Barium	24000	ug/L	500	10	09/30/24 13:03	10/01/24 12:05	7440-39-3	
Calcium	16200000	ug/L	25000	10	09/30/24 13:03	10/01/24 12:05	7440-70-2	
Chromium	ND	ug/L	500	10	09/30/24 13:03	10/01/24 12:05	7440-47-3	D3
Iron	127000	ug/L	2500	10	09/30/24 13:03	10/01/24 12:05	7439-89-6	
Magnesium	1250000	ug/L	25000	10	09/30/24 13:03	10/01/24 12:05	7439-95-4	
Potassium	8070000	ug/L	125000	10	09/30/24 13:03	10/01/24 12:05	7440-09-7	
Sodium	89500000	ug/L	500000	100	09/30/24 13:03	10/01/24 12:10	7440-23-5	
Strontium	1310000	ug/L	2500	100	09/30/24 13:03	10/01/24 12:10	7440-24-6	
Zinc	17800	ug/L	1000	10	09/30/24 13:03	10/01/24 12:05	7440-66-6	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	58.4	mg/L	5.0	1		10/03/24 12:08		
Alkalinity, Bicarbonate (CaCO3)	58.4	mg/L	5.0	1		10/03/24 12:08		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	1		10/03/24 12:08		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Minneapolis								
Total Dissolved Solids	295000	mg/L	250	1		09/27/24 18:38		MW,PP
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Minneapolis								
pH at 25 Degrees C	5.5	Std. Units	0.10	1		10/08/24 12:45		H6
Resistivity								
Analytical Method: EPA 120.1 Resistivity								
Pace Analytical Services - Ormond Beach								
Resistivity	1.9	ohms-cm	0.50	1		10/02/24 14:00		N2
SM2510 Specific Conductance								
Analytical Method: SM 2510								
Pace Analytical Services - Minneapolis								
Specific Conductance	209000	umhos/cm	5.0	1		10/01/24 14:36		
Specific Gravity								
Analytical Method: ASTM D5057								
Pace Analytical Services - Minneapolis								
Specific Gravity	1.22			1		10/09/24 22:12		N2
300.0 IC Anions								
Analytical Method: EPA 300.0								
Pace Analytical Services - Minneapolis								
Chloride	167000	mg/L	6000	5000		10/07/24 10:02	16887-00-6	
Sulfate	256	mg/L	120	100		10/05/24 03:08	14808-79-8	
353.2 Nitrate + Nitrite								
Analytical Method: EPA 353.2								
Pace Analytical Services - Minneapolis								
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/06/24 11:45		

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QUALITY CONTROL DATA

Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

QC Batch: 970670 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D Water
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10709475001

METHOD BLANK: 5072402 Matrix: Water
 Associated Lab Samples: 10709475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	10/01/24 11:18	
Calcium	ug/L	ND	500	10/01/24 11:18	
Chromium	ug/L	ND	10.0	10/01/24 11:18	
Iron	ug/L	ND	50.0	10/01/24 11:18	
Magnesium	ug/L	ND	500	10/01/24 11:18	
Potassium	ug/L	ND	2500	10/01/24 11:18	
Sodium	ug/L	ND	1000	10/01/24 11:18	
Strontium	ug/L	ND	5.0	10/01/24 11:18	
Zinc	ug/L	ND	20.0	10/01/24 11:18	

LABORATORY CONTROL SAMPLE: 5072403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	993	99	80-120	
Calcium	ug/L	20000	19600	98	80-120	
Chromium	ug/L	1000	977	98	80-120	
Iron	ug/L	20000	20000	100	80-120	
Magnesium	ug/L	20000	19800	99	80-120	
Potassium	ug/L	20000	19900	100	80-120	
Sodium	ug/L	20000	20300	102	80-120	
Strontium	ug/L	1000	1020	102	80-120	
Zinc	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5072404 5072405

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10708927001 Result	Spike Conc.	Spike Conc.	Conc.								
Barium	ug/L	18.0	1000	1000	1000	990	98	97	75-125	1	20		
Calcium	ug/L	85.3 mg/L	20000	20000	101000	97900	81	63	75-125	3	20	P6	
Chromium	ug/L	ND	1000	1000	964	955	96	95	75-125	1	20		
Iron	ug/L	3480	20000	20000	22900	22600	97	96	75-125	1	20		
Magnesium	ug/L	125 mg/L	20000	20000	141000	136000	80	55	75-125	4	20	P6	
Potassium	ug/L	14.1 mg/L	20000	20000	34600	33800	103	99	75-125	2	20		
Sodium	ug/L	56.1 mg/L	20000	20000	73300	70900	86	74	75-125	3	20	M1	
Strontium	ug/L	559	1000	1000	1540	1510	98	96	75-125	2	20		
Zinc	ug/L	ND	1000	1000	1000	995	100	99	75-125	1	20		

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QUALITY CONTROL DATA

MONTANA BOARD OF OIL & GAS CONSERVATION - BILLINGS

Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

QC Batch: 971542 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10709475001

METHOD BLANK: 5076911 Matrix: Water
 Associated Lab Samples: 10709475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	10/03/24 08:46	
Alkalinity, Bicarbonate (CaCO3)	mg/L	ND	5.0	10/03/24 08:46	
Alkalinity, Carbonate (CaCO3)	mg/L	ND	5.0	10/03/24 08:46	

LABORATORY CONTROL SAMPLE & LCSD: 5076912 5076913

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	44.0	42.6	110	106	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5076914 5076915

Parameter	Units	10709079009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	93.6	40	40	134	135	100	103	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5076916 5076917

Parameter	Units	10709141012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	170	40	40	201	202	76	80	80-120	1	20	P6

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QUALITY CONTROL DATA

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

QC Batch: 970573 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10709475001

METHOD BLANK: 5072111 Matrix: Water
Associated Lab Samples: 10709475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	09/27/24 18:37	

LABORATORY CONTROL SAMPLE: 5072112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	992	99	80-120	

SAMPLE DUPLICATE: 5072113

Parameter	Units	10709141012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	206	196	5	10	

SAMPLE DUPLICATE: 5072114

Parameter	Units	10709194003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	157	151	4	10	

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QUALITY CONTROL DATA

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Project: Phoenix Operating, LLC
Pace Project No.: 10709475

QC Batch: 972286 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10709475001

LABORATORY CONTROL SAMPLE: 5081033

Table with 7 columns: Parameter, Units, Spike Conc., LCS Result, LCS % Rec, % Rec Limits, Qualifiers. Row: pH at 25 Degrees C, Std. Units, 5, 5.0, 100, 98-102 H6

SAMPLE DUPLICATE: 5081034

Table with 7 columns: Parameter, Units, 10709552003 Result, Dup Result, RPD, Max RPD, Qualifiers. Row: pH at 25 Degrees C, Std. Units, 4.3, 4.2, 1, 3 H6

SAMPLE DUPLICATE: 5081035

Table with 7 columns: Parameter, Units, 10710487004 Result, Dup Result, RPD, Max RPD, Qualifiers. Row: pH at 25 Degrees C, Std. Units, 7.2, 7.2, 0, 3 H6

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QUALITY CONTROL DATA

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

QC Batch: 971086 Analysis Method: SM 2510
QC Batch Method: SM 2510 Analysis Description: SM2510 Specific Conductance
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10709475001

METHOD BLANK: 5074750 Matrix: Water
Associated Lab Samples: 10709475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	5.0	10/01/24 13:16	

LABORATORY CONTROL SAMPLE: 5074751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	933	93	90-110	

SAMPLE DUPLICATE: 5074752

Parameter	Units	10708260023 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	882	817	8	20	

SAMPLE DUPLICATE: 5074753

Parameter	Units	10708260024 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1170	1170	1	20	

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QUALITY CONTROL DATA

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Project: Phoenix Operating, LLC
Pace Project No.: 10709475

QC Batch: 972576 Analysis Method: ASTM D5057
QC Batch Method: ASTM D5057 Analysis Description: Spec.Gravity/ASTM D5057
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10709475001

SAMPLE DUPLICATE: 5082528

Table with 7 columns: Parameter, Units, 10709912001 Result, Dup Result, RPD, Max RPD, Qualifiers. Row 1: Specific Gravity, 1.22, 1.22, 0, 20 N2

SAMPLE DUPLICATE: 5082529

Table with 7 columns: Parameter, Units, 10709914001 Result, Dup Result, RPD, Max RPD, Qualifiers. Row 1: Specific Gravity, 1.22, 1.22, 0, 20 N2

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QUALITY CONTROL DATA

Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

QC Batch: 971880 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10709475001

METHOD BLANK: 5078609 Matrix: Water
 Associated Lab Samples: 10709475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.2	10/04/24 23:06	
Sulfate	mg/L	ND	1.2	10/04/24 23:06	

LABORATORY CONTROL SAMPLE: 5078610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5078611 5078612

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50383317002 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	42600 ug/L	50	50	79.6	84.4	74	84	80-120	6	20 M1
Sulfate	mg/L	28200 ug/L	50	50	68.7	72.9	81	89	80-120	6	20

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QUALITY CONTROL DATA

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Project: Phoenix Operating, LLC
 Pace Project No.: 10709475

QC Batch: 971645 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10709475001

METHOD BLANK: 5077223 Matrix: Water
 Associated Lab Samples: 10709475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	10/06/24 11:11	

LABORATORY CONTROL SAMPLE: 5077224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1	1.1	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5077225 5077226

Parameter	Units	10709141012 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Conc.	MS Result	MSD Result	% Rec	% Rec						
Nitrogen, NO2 plus NO3	mg/L	ND	1	1	1.1	1.1	108	106	90-110	2	20			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5077227 5077228

Parameter	Units	10709145001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Conc.	MS Result	MSD Result	% Rec	% Rec						
Nitrogen, NO2 plus NO3	mg/L	ND	1	1	1.1	1.1	107	106	90-110	1	20			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H6 Analysis initiated outside of the 15 minute EPA required holding time.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MW Due to matrix interference, achieving a constant weight is not possible.
N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
PP The mass of dried residue obtained did not meet the test method requirements based on volume used.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Phoenix Operating, LLC
Pace Project No.: 10709475

Table with 6 columns: Lab ID, Sample ID, QC Batch Method, QC Batch, Analytical Method, Analytical Batch. Contains 9 rows of data for Milloy 10-3-24 #2H Well Pad samples.

REPORT OF LABORATORY ANALYSIS

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Method of Shipment
FEDEX OVERNIGHT

Special Detection
Limit/Reporting

Telephone No.
Fax No.

Container Preservative

1 U U 2

Preservative Types: (1) nitric acid (2) sulfuric acid (3) hydrochloric acid (4) sodium hydroxide (5) zinc acetate (6) methanol (7) sodium bisulfate (8) sodium thiosulfate (9) hexane (10) ascorbic acid (11) ammonium sulfate (12) ammonium hydroxide (13) TSP (14) unpermeated (15) Other

Analysis Requested

Ca, Mg, Na, Fe, Cr, Ba, K, Sr, Zn
Chloride, Sulfate, pH, Conductivity, Residuality, Total Dissolved Solids
Specific Gravity, Alkalinity (Carbonate & Bicarbonate)
Nitrate+Nitrite

REMARKS:

Turn Around Time (working days)

www.astrochem.com
astrochem@midconetwork.com

Lab Work No.

Client: Phoenix Operating, LLC.
Project: Milby 10-3-24 #2H Well Pad
Project Manager: Mark Johnson
ACI: "Oilfield Water"

Sample I.D.: Milloy 10-3-24 #2H Well Pad (Treater)

Matrix	No. of Containers				Sampling Date	Sampling Time
	Soil	Water	Air	Other		
		X			9/24/24	10:30 AM

Lab Sample No. (3615) →

Temperature received: No Ice

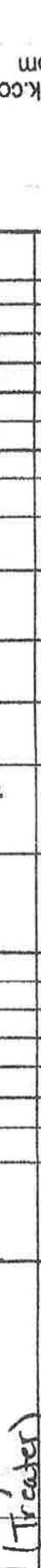
Received by (Signature): Brenda Benth
Received by: Brenda Benth
Received by: [Signature]

Date: 9/24/24
Date: 9/25/24 2:00 pm

Received by Laboratory

Date: _____ Time: _____

NO#: 10709475



Received by (Signature): Brenda Benth

Date: 9/24/24

Received by: Brenda Benth

Date: 9/25/24 2:00 pm

Received by: [Signature]

Date: _____ Time: _____

Received by Laboratory

Methods for Analysis (ACL OIL WATER GUIDELINES)

Alkalinity (2320B)

Alkalinity, Bicarbonate (CaCO₃)

Alkalinity, Carbonate (CaCO₃)

Alkalinity, Total as CaCO₃

Nitrate + Nitrite (353.2)

Nitrogen, NO₂ plus NO₃

pH, Electrometric (4500H+B)

8 Metals-Barium, Chromium, Iron, Zinc, Calcium, Magnesium, Sodium, Potassium (6010D MET ICP)

Chloride & Sulfate (300.0 IC Anions)

Resistivity (D1125-14)

Specific Conductance (SM2510)

Specific Gravity (ASTM D5057)

Strontium (6020B MET ICPMS)

Total Dissolved Solids (2540C)

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ENV-FRM-MIN4-0150 v17 Sample Condition Upon Receipt

CLIENT NAME: Astro-Chem Lab, Inc PROJECT #: WO# : 10709475
 COURIER: Client Commercial FedEx Pace
 Speedee UPS USPS

WO# : 10709475
 PM: AR4 Due Date: 10/10/24
 CLIENT: 11 Astro Che

TRACKING NUMBER: 7988 1920 3365 See Exceptions form ENV-FRM-MIN4-0142
 Custody Seal on Cooler/Box Present: YES NO Seals Intact: YES NO
 Packing Material: Bubble Bags Bubble Wrap None Other Temp Blank: YES NO Type of Ice: Blue Dry Wet
 Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178) T6 (0235)
 T7 (0042) T8 (0775) T9 (0727) 01339252 (1710)

Did Samples Originate in West Virginia: YES NO Were All Container Temps taken: YES NO N/A
 Correction Factor: -0.1 Cooler Temp Read w/Temp Blank: 0.9 °C Average Corrected Temp (no Temp Blank Only): _____ °C
 Cooler Temp Corrected w/Temp Blank: 0.8 °C
 NOTE: Temp should be above freezing to 6°C. See Exceptions Form ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: N/A - Water Sample/Other (describe): _____ Initials & Date of Person Examining Contents: JMW 9/26/24
 Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, IA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: YES NO
 Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): YES NO
 NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one):	YES	NO	N/A	COMMENT(S)								
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.								
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.								
Sampler Name and/or Signature on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3.								
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No								
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other:								
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.								
Sufficient Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.								
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.								
- Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.								
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. If NO, write ID/Date/Time of container below: <u>NO label 0</u> <u>Sample id only written with Lab Sample</u> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142 <u>number</u>								
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12. Sample #: <u>001</u> <input checked="" type="checkbox"/> HNO ₃ <input checked="" type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO pH Paper Lot # <table border="1"> <tr> <td>Residual Chlorine</td> <td>0-6 Roll</td> <td>0-6 Strip</td> <td>0-14 Strip</td> </tr> <tr> <td></td> <td><u>205224</u></td> <td></td> <td></td> </tr> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip		<u>205224</u>		
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip									
	<u>205224</u>											
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.								
Extra labels present on soil VOA or WIDRO containers? Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14. <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140								
Trip Blanks Present? Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Pace Trip Blank Lot # (if purchased): _____								

CLIENT NOTIFICATION / RESOLUTION FIELD DATA REQUIRED: YES NO
 Person Contacted: _____ Date & Time: _____
 Comments / Resolution: _____

Project Manager Review: Anchea Richardson Date: 9/27/24
 NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).
 Labeled By: JMW Line: 2

Internal Transfer Chain of Custody



Workorder: 10709475
 Report To: Andrea Richardson
 Pace Analytical Minnesota
 1700 Elm Street
 Minneapolis, MN 55414
 Phone (218)341-6080

Workorder Name: Phoenix Operating, LLC
 Subcontract To: Pace Analytical Ormond Beach
 8 East Tower Circle
 Ormond Beach, FL 32174
 Phone (386)672-5668

Rush Multiplier X
 Samples Pre-Logged into eCOC X
 State Of Origin: ND
 Cert. Needed: Yes No
 Owner Received Date: 9/26/2024
 Requested Analysis: 10/10/2024

Pace



Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Resistivity
1	Milloy 10-3-24 #2H Well Pad	PS	9/21/2024 10:30	10709475001	Water	BP2U1/4	X
2							
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>Michelle V. Pace</i>	<i>9/24/2024</i>	<i>Pa Pace</i>	<i>10/10/2024</i>	
2					
3					

Cooler Temperature on Receipt: _____ °C
 Custody Seal: Y or N Y N
 Received on Ice: Y or N Y N
 Samples Intact: Y or N Y N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

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Sample Condition Upon Receipt

WO#: 35908965
PH: JMW1 Due Date: 10/11/24
CLIENT: PACMIN

Project #
Project Manager:
Client:

Date and Initials of person:
Examining contents: BP
Verifying pH:
Initials: KAMI

Thermometer Used: T414 Date: 10/01/24 Time: 1143

State of Origin _____ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 15 (Visual) +0.1 (Correction Factor) 1.6 (Actual)
Cooler #2 Temp. $^{\circ}\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #3 Temp. $^{\circ}\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #4 Temp. $^{\circ}\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #5 Temp. $^{\circ}\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #6 Temp. $^{\circ}\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual)
Recheck for OOT $^{\circ}\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual)

Samples on ice, cooling process has begun
 Samples on ice, cooling process has begun
Time: _____ Initials: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other:

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 6476 5646 1809

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other:

Samples shorted to lab: Yes No (if yes, complete the following)

Shorted Date: _____ Shorted Time: _____
Bottle Quantity / Type: _____

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sampler Name: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A									
	Relinquished To Pace: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sampling Time(s): <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A									
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments										
Rush Turnaround Requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Comments										
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments										
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments										
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Comments										
Sample Labels Match COC (Sample ID, Date/Time of Collection)	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Comments										
All containers needing acid / base preservation have been checked	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<table border="1"> <tr> <td colspan="2">Preservation Information</td> </tr> <tr> <td>Preservative: _____</td> <td>Date: _____</td> </tr> <tr> <td>Lot / Trace: _____</td> <td>Time: _____</td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: _____</td> </tr> </table>			Preservation Information		Preservative: _____	Date: _____	Lot / Trace: _____	Time: _____	Amount added (mL): _____	Initials: _____
Preservation Information												
Preservative: _____	Date: _____											
Lot / Trace: _____	Time: _____											
Amount added (mL): _____	Initials: _____											
All containers needing preservation are found to be in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A											
Exceptions Vials: Microbiology O&G PFAS												
Headspace in Volatile Vials? (>6mm)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A											
Top Blank Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A											

Comments / Resolutions (use back for additional comments): NO client label on container, matched by label

Labeled by: BP

Reviewed by: EAS

Delivered by: EAS



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November 07, 2024

Christina Jungels
Astro-Chem Lab, Inc.
4102 2nd Ave. W.
Williston, ND 58801

RE: Project: Phoenix Operating
Pace Project No.: 10713009

Dear Christina Jungels:

Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis
- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrea Richardson

Andrea Richardson
andrea.richardson@pacelabs.com
(218)341-6080
Project Manager

Enclosures

cc: Accounts Payable, Astro-Chem Lab, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Phoenix Operating
Pace Project No.: 10713009

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
California Certification #: 3096
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
DoD-ANAB #: ADE-3199
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification #: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710

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Pace Analytical Services, LLC

1700 Elm Street

Minneapolis, MN 55414

(612)607-1700

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CERTIFICATIONS

Project: Phoenix Operating
Pace Project No.: 10713009

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Pace Analytical Services Ormond Beach

North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity
Utah FL NELAC Reciprocity
Utah
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Phoenix Operating
Pace Project No.: 10713009

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10713009001	Snyder 1-12 #1H	Water	10/21/24 16:00	10/23/24 09:45

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SAMPLE ANALYTE COUNT

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Project: Phoenix Operating
Pace Project No.: 10713009

Table with 6 columns: Lab ID, Sample ID, Method, Analysts, Analytes Reported, Laboratory. Row 1: 10713009001, Snyder 1-12 #1H, EPA 6010D, IP, 9, PASI-M.

PASI-M = Pace Analytical Services - Minneapolis
PASI-O = Pace Analytical Services - Ormond Beach

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ANALYTICAL RESULTS

Project: Phoenix Operating
 Pace Project No.: 10713009

Sample:	Lab ID:	Collected:	Received:	Matrix:									
Snyder 1-12 #1H	10713009001	10/21/24 16:00	10/23/24 09:45	Water	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP					Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis								
Barium	7870	ug/L	100	10	10/24/24 09:41	10/27/24 14:20	7440-39-3						
Calcium	12500000	ug/L	25000	50	10/24/24 09:41	10/27/24 14:25	7440-70-2						
Chromium	ND	ug/L	100	10	10/24/24 09:41	10/27/24 14:20	7440-47-3						D3
Iron	25500	ug/L	500	10	10/24/24 09:41	10/27/24 14:20	7439-89-6						
Magnesium	1210000	ug/L	5000	10	10/24/24 09:41	10/27/24 14:20	7439-95-4						
Potassium	6480000	ug/L	125000	50	10/24/24 09:41	10/27/24 14:25	7440-09-7						
Sodium	74300000	ug/L	1000000	1000	10/24/24 09:41	10/27/24 14:54	7440-23-5						
Strontium	962000	ug/L	5000	1000	10/24/24 09:41	10/27/24 14:54	7440-24-6						
Zinc	237	ug/L	200	10	10/24/24 09:41	10/27/24 14:20	7440-66-6						
2320B Alkalinity					Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	108	mg/L	5.0	1		11/01/24 15:43							
Alkalinity,Bicarbonate (CaCO3)	108	mg/L	5.0	1		11/01/24 15:43							
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		11/01/24 15:43							
2540C Total Dissolved Solids					Analytical Method: SM 2540C Pace Analytical Services - Minneapolis								
Total Dissolved Solids	260000	mg/L	1250	1		10/28/24 15:39							PP
4500H+ pH, Electrometric					Analytical Method: SM 4500-H+B Pace Analytical Services - Minneapolis								
pH at 25 Degrees C	6.0	Std. Units	0.10	1		11/01/24 13:49							H6
Resistivity					Analytical Method: EPA 120.1 Resistivity Pace Analytical Services - Ormond Beach								
Resistivity	1.9	ohms-cm	0.50	1		10/29/24 13:16							N2
SM2510 Specific Conductance					Analytical Method: SM 2510 Pace Analytical Services - Minneapolis								
Specific Conductance	203000	umhos/cm	5.0	1		11/05/24 12:58							
Specific Gravity					Analytical Method: ASTM D5057 Pace Analytical Services - Minneapolis								
Specific Gravity	1.19			1		10/24/24 17:03							N2
300.0 IC Anions					Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis								
Chloride	120000	mg/L	6000	5000		11/07/24 07:03	16887-00-6						
Sulfate	196	mg/L	120	100		11/06/24 13:16	14808-79-8						
353.2 Nitrate + Nitrite					Analytical Method: EPA 353.2 Pace Analytical Services - Minneapolis								
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		10/31/24 12:15							

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QUALITY CONTROL DATA

Project: Phoenix Operating
Pace Project No.: 10713009

QC Batch: 975588 Analysis Method: EPA 8010D
QC Batch Method: EPA 3010A Analysis Description: 6010D Water
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10713009001

METHOD BLANK: 5099349 Matrix: Water
Associated Lab Samples: 10713009001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	10/27/24 13:50	
Calcium	ug/L	ND	500	10/27/24 13:50	
Chromium	ug/L	ND	10.0	10/27/24 13:50	
Iron	ug/L	ND	50.0	10/27/24 13:50	
Magnesium	ug/L	ND	500	10/27/24 13:50	
Potassium	ug/L	ND	2500	10/27/24 13:50	
Sodium	ug/L	ND	1000	10/27/24 13:50	
Strontium	ug/L	ND	5.0	10/27/24 13:50	
Zinc	ug/L	ND	20.0	10/27/24 13:50	

LABORATORY CONTROL SAMPLE: 5099350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1020	102	80-120	
Calcium	ug/L	20000	19300	96	80-120	
Chromium	ug/L	1000	1020	102	80-120	
Iron	ug/L	20000	20500	102	80-120	
Magnesium	ug/L	20000	19800	99	80-120	
Potassium	ug/L	20000	20300	101	80-120	
Sodium	ug/L	20000	19900	99	80-120	
Strontium	ug/L	1000	1030	103	80-120	
Zinc	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5099351 5099352

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10712883001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Barium	ug/L	216	1000	1000	1240	1230	103	102	75-125	1	20	
Calcium	ug/L	335000	20000	20000	357000	354000	107	95	75-125	1	20	
Chromium	ug/L	42.6	1000	1000	1080	1080	104	103	75-125	1	20	
Iron	ug/L	8610	20000	20000	29300	29200	104	103	75-125	1	20	
Magnesium	ug/L	31100	20000	20000	52000	51500	105	102	75-125	1	20	
Potassium	ug/L	149000	20000	20000	171000	169000	110	102	75-125	1	20	
Sodium	ug/L	61800	20000	20000	82300	81200	102	97	75-125	1	20	
Strontium	ug/L	350	1000	1000	1370	1350	102	100	75-125	1	20	
Zinc	ug/L	1500	1000	1000	2460	2440	97	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 977280 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10713009001

METHOD BLANK: 5107575 Matrix: Water
 Associated Lab Samples: 10713009001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	11/01/24 12:27	
Alkalinity, Bicarbonate (CaCO3)	mg/L	ND	5.0	11/01/24 12:27	
Alkalinity, Carbonate (CaCO3)	mg/L	ND	5.0	11/01/24 12:27	

LABORATORY CONTROL SAMPLE & LCSD: 5107576 5107577

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	43.0	42.3	108	106	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5107578 5107579

Parameter	Units	10712881001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	168	40	40	211	214	107	116	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5107580 5107581

Parameter	Units	10712881002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	227	40	40	273	270	113	107	80-120	1	20	

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QUALITY CONTROL DATA

Project: Phoenix Operating
Pace Project No.: 10713009

QC Batch: 976301 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713009001

METHOD BLANK: 5102892 Matrix: Water
Associated Lab Samples: 10713009001

Table with 6 columns: Parameter, Units, Blank Result, Reporting Limit, Analyzed, Qualifiers. Row: Total Dissolved Solids, mg/L, ND, 25.0, 10/28/24 15:38

LABORATORY CONTROL SAMPLE: 5102893

Table with 7 columns: Parameter, Units, Spike Conc., LCS Result, LCS % Rec, % Rec Limits, Qualifiers. Row: Total Dissolved Solids, mg/L, 1000, 1020, 102, 80-120

SAMPLE DUPLICATE: 5102894

Table with 7 columns: Parameter, Units, 10712612006 Result, Dup Result, RPD, Max RPD, Qualifiers. Row: Total Dissolved Solids, mg/L, 101, 101, 0, 10

SAMPLE DUPLICATE: 5102895

Table with 7 columns: Parameter, Units, 10712842001 Result, Dup Result, RPD, Max RPD, Qualifiers. Row: Total Dissolved Solids, mg/L, 20300, 18000, 12, 10 D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Phoenix Operating
Pace Project No.: 10713009

QC Batch: 977285 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10713009001

LABORATORY CONTROL SAMPLE: 5107588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.1	102	98-102	H6

SAMPLE DUPLICATE: 5107589

Parameter	Units	10712469003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.2	6.2	1	3	H6

SAMPLE DUPLICATE: 5107590

Parameter	Units	10712469004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	7.0	1	3	H6

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QUALITY CONTROL DATA

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

Project: Phoenix Operating
Pace Project No.: 10713009

QC Batch: 1051690
QC Batch Method: EPA 120.1 Resistivity
Analysis Method: EPA 120.1 Resistivity
Analysis Description: Resistivity
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 10713009001

SAMPLE DUPLICATE: 5781375

Table with 7 columns: Parameter, Units, 10713018001 Result, Dup Result, RPD, Max RPD, Qualifiers. Row 1: Resistivity, ohms-cm, 1.9, 1.9, 0, 20 N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 977841 Analysis Method: SM 2510
 QC Batch Method: SM 2510 Analysis Description: SM2510 Specific Conductance
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10713009001

METHOD BLANK: 5110532 Matrix: Water
 Associated Lab Samples: 10713009001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	5.0	11/05/24 12:45	

LABORATORY CONTROL SAMPLE: 5110534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	904	90	90-110	

SAMPLE DUPLICATE: 5110535

Parameter	Units	10712921001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	630	627	0	20	

SAMPLE DUPLICATE: 5110538

Parameter	Units	10712960001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	450	447	0	20	

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QUALITY CONTROL DATA

MONTANA BOARD OF OIL & GAS CONSERVATION - BILLINGS

Project: Phoenix Operating

Pace Project No.: 10713009

QC Batch: 975834

QC Batch Method: ASTM D5057

Analysis Method: ASTM D5057

Analysis Description: Spec.Gravity/ASTM D5057

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10713009001

SAMPLE DUPLICATE: 5100343

Parameter	Units	10713018001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Gravity		1.19	1.19	0	20	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 978010 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10713009001

METHOD BLANK: 5111297 Matrix: Water
 Associated Lab Samples: 10713009001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.2	11/06/24 09:30	
Sulfate	mg/L	ND	1.2	11/06/24 09:30	

LABORATORY CONTROL SAMPLE: 5111298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5111299 5111300

Parameter	Units	10712898005 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	<445 ug/L	50	45.4	45.6	90	90	80-120	0	20		
Sulfate	mg/L	166000 ug/L	250	426	426	104	104	80-120	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5111301 5111302

Parameter	Units	10713075001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	205	250	410	410	82	82	80-120	0	20		
Sulfate	mg/L	173	250	388	388	86	86	80-120	0	20		

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QUALITY CONTROL DATA

Project: Phoenix Operating
 Pace Project No.: 10713009

QC Batch: 977090 Analysis Method: EPA 353.2
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10713009001

METHOD BLANK: 5106369 Matrix: Water
 Associated Lab Samples: 10713009001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	10/31/24 11:58	

LABORATORY CONTROL SAMPLE: 5106370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1	1.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5106371 5106372

Parameter	Units	10712898010		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Nitrogen, NO2 plus NO3	mg/L	<33.7 ug/L	1	1	1.2	1.2	112	112	90-110	0	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5106373 5106374

Parameter	Units	10712921001		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Nitrogen, NO2 plus NO3	mg/L	19.0	10	10	29.1	28.3	101	93	90-110	3	20	

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QUALIFIERS

Project: Phoenix Operating
Pace Project No.: 10713009

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
H6 Analysis initiated outside of the 15 minute EPA required holding time.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
PP The mass of dried residue obtained did not meet the test method requirements based on volume used.

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Pace Analytical Services, LLC
 1700 Elm Street
 Minneapolis, MN 55414
 (612)607-1700

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Phoenix Operating
 Pace Project No.: 10713009

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

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10713009001	Snyder 1-12 #1H	EPA 3010A	975588	EPA 6010D	975895
10713009001	Snyder 1-12 #1H	SM 2320B	977280		
10713009001	Snyder 1-12 #1H	SM 2540C	976301		
10713009001	Snyder 1-12 #1H	SM 4500-H+B	977285		
10713009001	Snyder 1-12 #1H	EPA 120.1 Resistivity	1051690		
10713009001	Snyder 1-12 #1H	SM 2510	977841		
10713009001	Snyder 1-12 #1H	ASTM D5057	975834		
10713009001	Snyder 1-12 #1H	EPA 300.0	978010		
10713009001	Snyder 1-12 #1H	EPA 353.2	977090		

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Methods for Analysis (ACL OIL WATER GUIDELINES)

- Alkalinity (2320B)
 - Alkalinity, Bicarbonate (CaCO₃)
 - Alkalinity, Carbonate (CaCO₃)
 - Alkalinity, Total as CaCO₃
- Nitrate + Nitrite (353.2)
 - Nitrogen, NO₂ plus NO₃
- pH, Electrometric (4500H+B)
- 8 Metals-Barium, Chromium, Iron, Zinc, Calcium, Magnesium, Sodium, Potassium (6010D MET ICP)
- Chloride & Sulfate (300.0 IC Anions)
- Resistivity (D1125-14)
- Specific Conductance (SM2510)
- Specific Gravity (ASTM D5057)
- Strontium (6020B MET ICPMS)
- Total Dissolved Solids (2540C)

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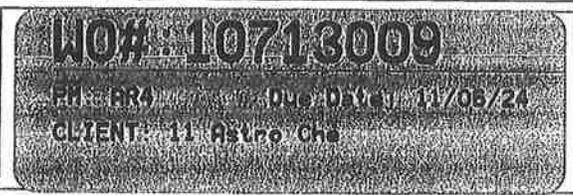
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GAS CONSERVATION - BILLINGS

ENV-FRM-MIN4-0150 v17 Sample Condition Upon Receipt

CLIENT NAME: Astro-Che Lab PROJECT #: W04-10713009

COURIER: Client Commercial FedEx Pace
 SpeedDee UPS USPS



TRACKING NUMBER: 7792 4238 3190 See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: YES NO Seals Intact: YES NO Biological Tissue Frozen: YES NO N/A
 Packing Material: Bubble Bags Bubble Wrap None Other Temp Blank: YES NO Type of Ice: Blue Dry Wet
 Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178) T6 (0235) T7 (0042) T8 (0775) T9 (0727) 01339252 (1710) Melted None

Did Samples Originate in West Virginia: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Were All Container Temps taken: <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
Correction Factor: <u>0.2</u> Cooler Temp Read w/Temp Blank: <u>1.4</u> °C	Average Corrected Temp (no Temp Blank Only): _____ °C
Cooler Temp Corrected w/Temp Blank: <u>1.2</u> °C	<input type="checkbox"/> See Exceptions Form ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container

USDA Regulated Soil: <input checked="" type="checkbox"/> N/A (Water Sample/Other (describe): _____)	Initials & Date of Person Examining Contents: <u>AS 10/23/24</u>
Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OH, SC, TN, TX, or VA: <input type="checkbox"/> YES <input type="checkbox"/> NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): <input type="checkbox"/> YES <input type="checkbox"/> NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): <input type="checkbox"/> DULUTH <input type="checkbox"/> MINNEAPOLIS <input type="checkbox"/> VIRGINIA	YES	NO	N/A	COMMENT(S)								
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.								
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.								
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.								
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No								
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other:								
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.								
Sufficient Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.								
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.								
– Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Containers intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.								
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. If NO, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142								
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12. Sample #: <u>001/11 001/11</u> <input checked="" type="checkbox"/> HNO ₃ <input checked="" type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO pH Paper Lot # <table border="1"> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> <tr> <td></td> <td><u>805924</u></td> <td></td> <td></td> </tr> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip		<u>805924</u>		
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip									
	<u>805924</u>											
NOTE: If adding preservation to the container, verify with the PM first. Clients may require adding preservative to the field and equipment blanks when this occurs.												
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.								
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.								
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140								
Trip Blanks Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.								
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pace Trip Blank Lot # (If purchased): _____								

CLIENT NOTIFICATION / RESOLUTION FIELD DATA REQUIRED: YES NO
 Person Contacted: _____ Date & Time: _____
 Comments / Resolution: _____

Project Manager Review: Anchea Richardson Date: 10/24/24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: JMW Line: 3

Internal Transfer Chain of Custody

Pace



Report To: **Andrea Richardson**
 Pace Analytical Minnesota
 1700 Elm Street
 Minneapolis, MN 55414
 Phone (218)341-6080

Workorder: 10713009
 Workorder Name: Phoenix Operating
 Subcontract To: Pace Analytical Ormond Beach
 8 East Tower Circle
 Ormond Beach, FL 32174
 Phone (386)672-5668

State Of Origin: ND
 Cert. Needed: Yes No
 Owner Received Date: 10/23/2024 Results Requested By: 11/6/2024

Rush Multiplier X
 Samples Pre-Logged into eCOC X

Requested Analysis: **W0# : 35914692**

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		Resistivity	LAB USE ONLY
						BP2U/2	1		
1	Snyder 1-12 #1H	PS	10/21/2024 16:00	10713009001	Water			X	
2									
3									
4									
5									

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N
1	Nick Vifore	10/24/24 7:40	AUSTIN	10-25-24 1200				
2								
3								

Cooler Temperature on Receipt 4.6°C Custody Seal Y N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

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Pace

Sample Condition Upon Receipt Form (SCUR)

WO#: 35914692

PM: JMW1

Due Date: 11/05/24

CLIENT: PACMIN

Project #

Project Manager:

Client:

Date and Initials of person:

Examining contents: RPD

Verifying pH: _____

Thermometer Used: T-409

Date: 10-25-24

Time: 12:23

Initials: AKS

State of Origin: _____

For WV projects, all containers verified to 58 °C

Cooler #1 Temp. °C 4.6 (Visual) 0 (Correction Factor) 4.6 (Actual)

Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Recheck for OOT °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Samples on ice, cooling process has begun.

Time: _____ Initials: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 4243 5575 1160

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other

Samples shorted to lab: Yes No (If yes, complete the following)

Shorted Date: _____

Shorted Time: _____

Bottle Quantity / Type: _____

Chain of Custody: Present Yes No | Filled Out: Yes No N/A | Sampler Name: Yes No N/A
Relinquished To Pace: Yes No N/A | Sampling Date(s): Yes No N/A | Sampling Time(s): Yes No N/A

Samples Arrived within Hold Time Yes No N/A Comments: _____

Rush Turnaround Requested on COC Yes No N/A Comments: _____

Sufficient Volume Yes No N/A Comments: _____

Correct Containers Used Yes No N/A Comments: _____

Containers intact Yes No N/A Comments: _____

Sample Labels Match COC (Sample ID, Date/Time of Collection) Yes No N/A Comments: _____

All containers needing acid / base preservation have been checked Yes No N/A

All containers needing preservation are found to be in compliance with EPA recommendation: Yes No N/A

Exceptions: Vials, Microbiology, Q&G, PFAS

Headspace in Volatile Vials? (>6mm): Yes No N/A

Trip Blank Present: Yes No N/A

Preservation Information
Preservative: _____ Date: _____
Lot / Trace: _____ Time: _____
Amount added (mL): _____ Initials: _____

Comments / Resolutions (use back for additional comments): NO client label on container

Labeled by: RPD

Reviewed by: EARL

Delivered by: EPY

**Appendix V & VI
Proposed Drilling Plan
KIMONO 1 SWD**

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**MONTANA BOARD OF OIL &
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1. Estimated Formation Tops

Formation	MD	TVD
Pierre	2,219	2,219
Greenhorn	4,469	4,469
Mowry	4,794	4,794
Inyan Kara	5,204	5,196
Swift		5,824
Planned TD	9,758	5,526

*Formation elevations are based on a finished pad elevation.

2. Casing Program

Hole Size	Casing Size	Wt./Ft.	Grade	Joint	Depth Set (MD)
17½"	13-3/8"	54.5#	J-55	BTC	0' - 2419'
12 1/4"	9-5/8"	36#	L-80	BTC	0' - 5757'
8 ¾"	7"	29#	P-110	BTC	5657' - 9758'

3. Cementing Program

Surface Casing

CASING	SLURRY	FT. of FILL	SX S	XC (%)	CEMENT TYPE	WEIGHT	YIELD
						(ppg)	(ft3/sx)
13-3/8"	Lead	1,935	637	40	BJ CEM S100 Type III with 0.13 lb/sx Celloflake, 2.0 lbs/sx CaCl ₂ , 2.0 lbs/sx Sodium Metasilicate, 5% Gypsum and 0.3% Anti-foaming agent (FP-25).	12.5	2.08
13-3/8"	Tail	484	166	40	BJ CEM S100 Type III with 0.13 lb/sx IntegraSeal, 2.0 lbs/sx Sodium Metasilicate, 5% Gypsum (BWOB) and 0.3% FP-25 (defoamer, BWOB).	14.2	1.99

A cement top job is required if cement fallback is greater than 10' below ground level.

Intermediate Casing

CASING	SLURRY	FT. of FILL	SX S	XC (%)	CEMENT TYPE	WEIGHT	YIELD
						(ppg)	(ft3/sx)
9-5/8"	Lead	2,050	285	35	BJ CEM I100 Type III with 0.25 lb/sx IntegraSeal, 5 lb/sx BA-95 (bonding agent) 3% KCL (BWOB), 0.1% R-7C (retarder), 0.4% FL-66 (fluid loss), 0.30% R-3 (retarder) and 0.1% IntegraGuard GW-86 (scavenger). Additives by BWOB.	12	1.46
9-5/8"	Tail	5,289	745	35	BJ CEM I100, 20% Fly Ash, 80% Class G, 0.13 lb/sx IntegraSeal Cellophane, 1.0 lb/sx IntegraSeal Pheno, 0.1% IntegraGuard GW-86 (scavenger), and 0.4% FI-66 (fluid loss). Additives by BWOB	14	1.44

Cement volumes for the 7" Production Casing will be calculated to provide a top of cement to 2419'. Actual cement volumes may vary due to variations in the actual hole size and may be determined by caliper log, if available.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

4. Drilling Fluids and Cuttings Program

<u>Depth</u>	<u>MW</u>	<u>Mud Type</u>	<u>FV</u>	<u>FL</u>
0' - 2419'	8.5 - 9.0	Fresh Water	28-50	NC
2419' - 5757'	9.2 - 10.0	Brine Water	40-50	10-20 cc
5757' - 9758'	9.6 - 10.1	Brine Water	40-50	10-20 cc

Drilling Operations will utilize a closed loop system. All drill cuttings shall be temporarily collected in metal containers at the surface and hauled to a licensed disposal facility.

5. Evaluation Program

Cores:	No Coring is planned.
Testing:	No DST's are planned.
Samples:	No Cuttings are planned to be collected on this well.
Surveys:	MWD will be utilized from surface to TD.

The logging program will be as follows:

<u>Depth Interval</u>	<u>Logs</u>
0' - 4826'	MWD-GR
4826' - 5328'	Triple Combo + CBL-VDL-GR-CCL*

*Unless waiver is obtained prior to drilling.

6. Drilling/Completion Program

The well is planned as a vertical well with a 50 ft target radius from the wellhead. Anti-Collision avoidance modeling will be completed before spud. Anti-Collision reports will be based on known offset wells to the Operator within the vicinity of the planned wellbore path.

Drilling Procedure:

- 1) Move in drilling Rig. Notify the State Field Inspector prior to spud.
- 2) Drill 17-1/2" hole with freshwater (confirm at least 50' of casing into Pierre Shale). Run 13-3/8" surface casing and cement as indicated under cementing program.
- 3) NU BOP and pressure test. Drill out 13-3/8" with 12-1/4" BHA to project TD with brine drilling fluid, running MWD surveys at required intervals. Run 9-5/8" casing and cement as indicated under cementing program.
- 4) Pressure test casing to 1,500 psi. RDMO.
- 5) Drill out of 9 5/8" with 8-3/4" BHL to project TD with brine drilling fluid, running MWD surveys at required intervals. Run 7" casing and run an uncemented liner.

Completion Procedure:

- 1) The Operator will notify the State field inspector prior to commencing completion operations.
- 2) MIRU wireline unit. RIH w/ 3.66" GR/JB to PBTD, run CBL.
- 3) Perforate w/ 3.125" gun across Inyan Kara interval from approximately 5757' to 9758' MD in 20'-30' intervals, as determined by logs and consultation with state geologist.
- 4) RIH with WL and set 7" packer within 100' of top perf. RDMO WL.
- 5) MIRU workover rig. PU seal assembly and RIH w/ 4 1/2" internally coated tubing. Latch into packer, space out, and land tubing. NU 4 1/6" injection tree.
- 6) Perform 15-minute MIT to 1,000 psi (field inspector witness). After approval is received, perform injection test, and perform acid treatment if necessary. Initiate injection.
- 7) Submit completion report within 30 days of first injection.

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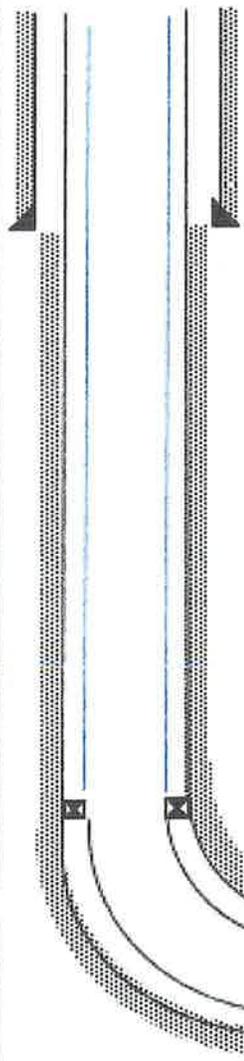
KIMONO 1 SWD

Inyan Kara Injection

Roosevelt County, Montana

SHL: 375' FSL & 2188' FEL, Section 31, T29N, R57E.

Proposed Wellbore



Wellhead Description

Cameron 7 1/16" - 5M

Casing Description

String	Size	Weight	Grade	Cplg	Top	Bottom	Hole Size	Cement Top
Surface	13-3/8"	54.5#	J-55	BTC	0'	2419'	17 1/2"	Surface
Intermediate	9-5/8"	36#	L-80	BTC	0'	5757'	12 1/4"	2419
Production	7"	29#	P 110	BTC	5657'	9758'	8 3/4"	5657

*Production Casing Shoe-Track consists of one 9-5/8" Single-Valve Float Shoe, one joint of 9-5/8" casing, and one 9-5/8" Single-Valve Float Collar. Shoe-Track will be cemented from the Float Shoe to the Float Collar (~40').

Tubing Description

Size	Weight	Grade	Cplg	Top	Bottom
7" IPC	29#	L-80	LTC	0'	5707'
7 Inch AS-1X (Nickel Plated, Big-Bore) Packer Set @ 5707'					

*Packer will be set no greater than 100' TVD above the top perforation.

*MIT will be performed to 1000 psi on tubing/casing annulus and packer assembly.

Perforation (Estimated)

Formation	Top	Bottom	Stimulation
Dakota	5757' MD	9758' MD	15% HCl + Rock Salt or Polymer Diverter
	5204' TVD	5824' TVD	

*Swift at 5824' TVD

*Top perf at the top of Dakota and bottom perf is 25' above TD.

TMD 9758'
TVD 5526'

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GAS CONSERVATION • BILLINGS

AFFIDAVIT OF MAILING

STATE OF COLORADO §
 §
COUNTY OF DENVER §

The undersigned, Paula Frisbee, of lawful age, first duly sworn on her oath states that she is a duly authorized agent of Phoenix Operating LLC, does hereby certify that she has sent (via certified mail) a Notice of Application for Fluid Injection to the surface and lease owners within a radius of ¼ mile from the location of proposed KIMONO 1 SWD well, SWSE of Section 31, Township 29 North, Range 57 East, Roosevelt County, MT.

The following contains the address and legal description of the land ownership for surface and lease owners.

Surface Owner:

Legal Description:

Puma Petroleum Company
860 Lincoln St #407
Denver, CO 80295

Operator w/ AOR

Ronald K & Elisa Olsen
1495 RO 2 Drive
Culbertson, MT 59218

N ½ & SE ¼ Sec. 31 & S ½ Sec.30
T29N, R57E
Roosevelt County, MT

Salvevold Inc
P.O. Box 417
Culbertson, MT 59218

SW ¼, Section 31
T29N, R57E
Roosevelt County, MT

Charles Young
4397 Road 1020
Froid, MT 59226

NE ¼ Section 4 & NW ¼ Section 3
T28N, R57E
Roosevelt County, MT

Lease Owner:

Legal Description:

BNSF Railway Company
2500 Lou Menk Drive, AOB-3
Fort Worth, TX 76131

W2SW, SESW, SWSE Sec. 29
T29N, R57E
Roosevelt County, MT

Edward Stephon Mosier
821 Village Meadow Drive
Ballwin, MO 63021

W2SW, SESW, SWSE Sec. 29
T29N, R57E
Roosevelt County, MT

Joshua Patterson
2023 Wilkinson Avenue
Panama City Beach, FL 32408

W2SW, SESW, SWSE Sec. 29
T29N, R57E
Roosevelt County, MT

The Marie C. Boyle Revocable Trust
138 South Pinecrest Street
Wichita, KS 67218

W2SW, SESW, SWSE Sec. 29
T29N, R57E
Roosevelt County, MT

The Allen V. Bertelsen and Janet E.
Bertelsen Revocable Trust
15 Annette Park Drive
Bozeman, MT 59715

Lot 1 & 2. E2NW, NE less a 17.37 acre
tract Sec. 30
T29N, R57E
Roosevelt County, MT

Lease Owner:

Christina Veal
9905 Essex Avenue
Oklahoma City, OK 73120

Eldorado Mineral Partners, LLC
1273 Osceola Street
Denver, CO 80204

Kaleb Mosier
9905 Essex Avenue
Oklahoma City, OK 73120

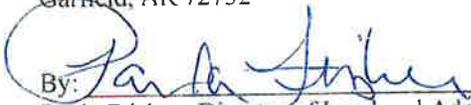
Unionrock Royalties II, LLC
1999 Broadway, Suite 850
Denver, CO 80202

Unionrock Royalties III, LLC
1999 Broadway, Suite 850
Denver, CO 80202

Darin Jon Mosier
6260 East Jester Circle North
Prescott Valley, AZ 86314

John Edd Mosier
3033 North Windsong, Suite 202
Prescott Valley, AZ 86314

Terrie Pitts
13444 Pitts Road
Garfield, AR 72732

By: 
Paula Frisbee, Director of Land and Administration
Phoenix Operating LLC

Legal Description:

W2SW, SESW, SWSE Sec. 29
T29N, R57E
Roosevelt County, MT

W2NW, SENW, W2NE, NESW, NWSE Sec. 29
T29N, R57E
Roosevelt County, MT

W2SW, SESW, SWSE Sec. 29
T29N, R57E
Roosevelt County, MT

W2NW, SENW, W2NE, NESW, NWSE Sec. 29
T29N, R57E
Roosevelt County, MT

W2NW, SENW, W2NE, NESW, NWSE Sec. 29
T29N, R57E
Roosevelt County, MT

W2SW, SESW, SWSE Sec. 29
T29N, R57E
Roosevelt County, MT

W2SW, SESW, SWSE Sec. 29
T29N, R57E
Roosevelt County, MT

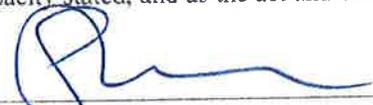
W2SW, SESW, SWSE Sec. 29
T29N, R57E
Roosevelt County, MT

Dated: 02.26.2026

ACKNOWLEDGMENT

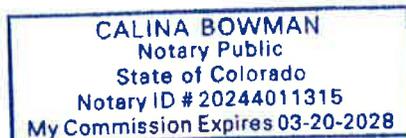
STATE OF COLORADO §
 §
COUNTY OF DENVER §

On this 26th day of February, 2026 before me, a Notary Public, personally appeared Paula Frisbee, Director of Land and Administration known to me to be the person whose name is subscribed to the foregoing instrument as an agent of Phoenix Operating LLC and acknowledged to me that they executed the same as her free act and deed for the purposes therein expressed, in the capacity stated, and as the act and deed of said company.



Notary Public

(Seal)



My Commission Expires: 3/20/2028

Appendix VIII
AFFIDAVIT OF MAILING
KIMONO 1 SWD

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

Appendix IX
LANDOWNER NOTIFICATION LETTERS
KIMONO 1 SWD

Examples of Landowner Notification Letters (Surface, Operator
& Lease)



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

February 26, 2026

To: Lease Owner
Address
City, State, Zip

From: Phoenix Operating LLC
4643 South Ulster Street Suite 1510
Denver, Colorado 80237

Re: Proposed Private Saltwater Disposal Well – KIMONO 1 SWD
Surface Hole: 375' FSL & 2188' FEL, SWSE
Section 31, Township 29 North, Range 57 East, Roosevelt County, MT
Bottom Hole: 379' FSL & 1320' FEL, SWSE
Section 30, Township 29 North, Range 57 East, Roosevelt County, MT

This letter is to advise you that Phoenix Operating LLC (Phoenix) 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), Phoenix is required to give notice that it has made an application to perform this work to each lease 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 me with Phoenix Operating LLC at (701) 770-8484.

Respectfully,

Ashleigh Borud

Ashleigh Borud
Surface Land Lead – Firebird Services, LLC
aborud@phoenixenergy.com

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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Phoenix Operating LLC

4643 S Ulster Street, Suite 1510, Denver, CO 80237 | 855-565-4244



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

February 26, 2026

To: Operator Owner
Address
City, State, Zip

From: Phoenix Operating LLC
4643 South Ulster Street Suite 1510
Denver, Colorado 80237

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Respectfully,

Ashleigh Borud

Ashleigh Borud
Surface Land Lead – Firebird Services, LLC
aborud@phoenixenergy.com



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

February 26, 2026

To: Surface Owner
Address
City, State, Zip

From: Phoenix Operating LLC
4643 South Ulster Street Suite 1510
Denver, Colorado 80237

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Surface Land Lead – Firebird Services, LLC
aborud@phoenixenergy.com

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GAS CONSERVATION • BILLINGS

Phoenix Operating LLC

4643 S Ulster Street, Suite 1510, Denver, CO 80237 | 855-565-4244



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

February 26, 2026

To: BNSF Railway Company
2500 Lou Menk Drive, AOB-3
Fort Worth, TX 76131

From: Phoenix Operating LLC
4643 South Ulster Street Suite 1510
Denver, Colorado 80237

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Respectfully,

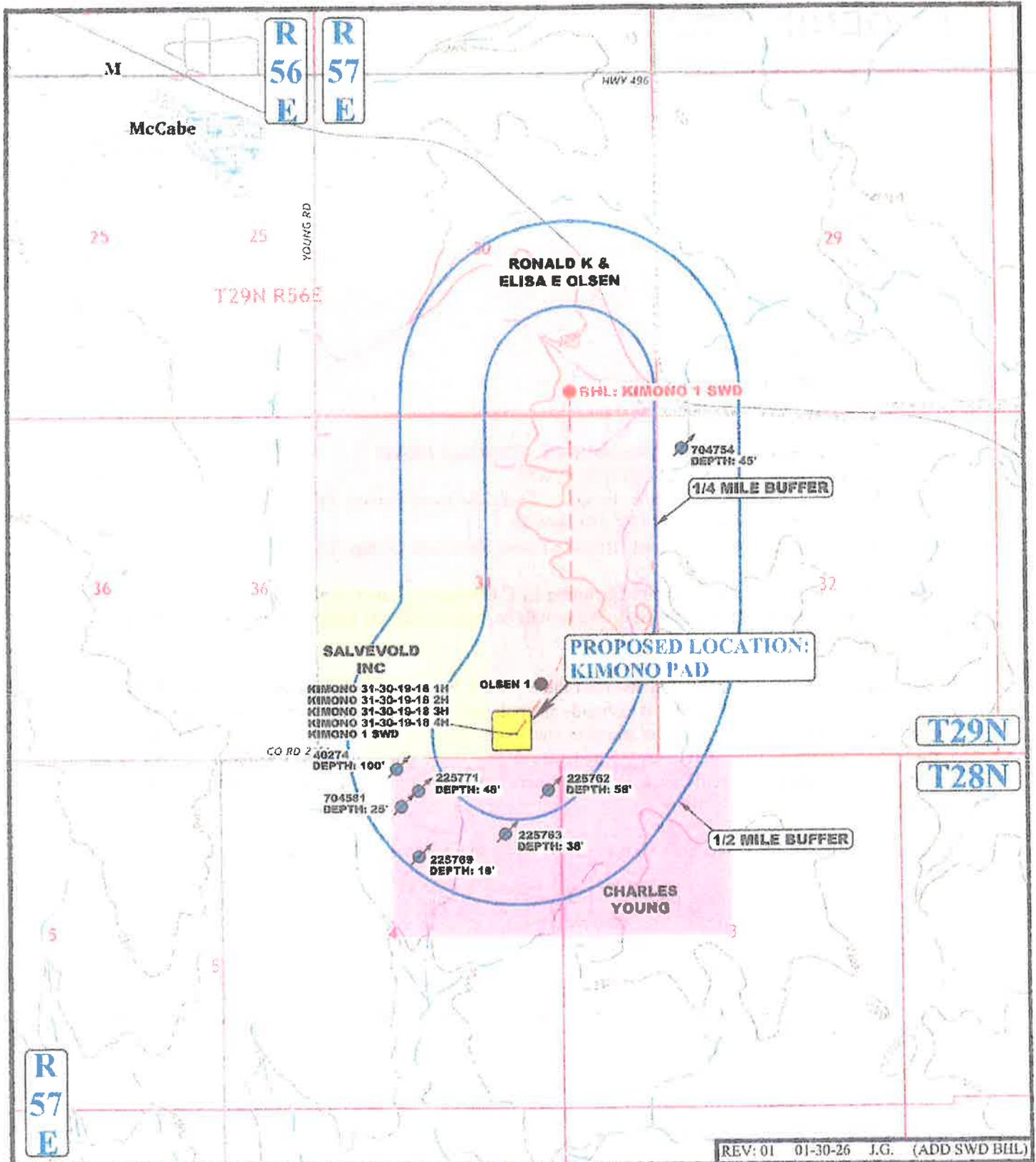
Paula Frisbee

Paula Frisbee
Director of Land and Administration

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



REV: 01 01-30-26 J.G. (ADD SWD BHL)

- LEGEND:**
- OIL/GAS WELLS
 - ⊕ WATER WELLS
 - BOTTOM HOLE LOCATION



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



PHOENIX OPERATING LLC

KIMONO PAD
 SW 1/4 SE 1/4, SECTION 31, T29N, R57E, P.M.M.
 ROOSEVELT COUNTY, MONTANA

SURVEYED BY	C.B., D.D.	04-14-25	SCALE
DRAWN BY	C.S.C.	11-08-25	1 : 24,000
WELL PROXIMITY MAP			TOPO C