

BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA

CASE NO. 28424
ORDER NO. 30882

IN THE MATTER OF A HEARING CALLED ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF HANNA SWD, LLC FOR AN ORDER PURSUANT TO NDAC § 43-02-03-88.1 AUTHORIZING SALTWATER DISPOSAL INTO THE DAKOTA GROUP IN THE JORE SWD 1 WELL, NWSE SECTION 35, T.150N., R.97W., NORTH FORK FIELD, MCKENZIE COUNTY, ND, PURSUANT TO NDAC CHAPTER 43-02-05 AND SUCH OTHER RELIEF AS IS APPROPRIATE.

ORDER OF THE COMMISSION

THE COMMISSION FINDS:

- (1) This cause came on for hearing at 9:00 a.m. on the 26th day of March, 2020.
- (2) The record in this case was left open until April 3, 2020 for written comments due to temporary hearing procedures implemented as a result of the 2020 COVID-19 pandemic. No comments were received and the record was closed on April 3, 2020.
- (3) Pursuant to North Dakota Administrative Code (NDAC) Section 43-02-03-88.1, the Director is authorized to sign, on behalf of the Commission, orders relating to, inter alia, underground injection under NDAC Chapter 43-02-05.
- (4) Hanna SWD, LLC (Hanna) proposes to dispose of saltwater produced with crude oil and other defined Class II wastes by injection into the Dakota Group through the Jore SWD #1 well, to be located in the NW/4 SE/4 of Section 35, Township 150 North, Range 97 West, McKenzie County, North Dakota, in the North Fork Field. This is a vertical well to be drilled.
- (5) The Jore SWD #1 well is proposed to be drilled from a surface location 1822 feet from the south line and 1869 feet from the east line of Section 35.
- (6) Hanna submitted an Application for Injection and attachments pursuant to NDAC Section 43-02-03-88.1 and NDAC Section 43-02-05-04.
- (7) No one appeared in person to support or object to the application and no written comments or objections to the application were received prior to the hearing date.

(8) The Dakota Group in this area contains in excess of 10,000 parts per million of total dissolved solids or is an exempted aquifer.

(9) The proposed injection well is sited in such a fashion that it will inject into a formation which has confining zones that are free of known open faults or fractures within the area of review.

(10) The proposed injection well will be constructed in such a manner as to prevent the movement of fluids into or between underground sources of drinking water.

(11) In order to prevent possible damage to surface lands, and contamination of surface and subsurface waters, this application should be approved.

IT IS THEREFORE ORDERED:

(1) Hanna SWD, LLC, its assigns and successors, is hereby authorized to dispose of Class II fluids and wastes, pursuant to NDAC Chapter 43-02-05, by injection into the Dakota Group through the Jore SWD #1 well, to be located in the NW/4 SE/4 of Section 35, Township 150 North, Range 97 West, North Fork Field, McKenzie County, North Dakota.

(2) The authorization granted herein is conditioned on the operator receiving and complying with all provisions of the injection permit issued by the Oil and Gas Division of the Industrial Commission pursuant to NDAC Section 43-02-05-04 and with all other provisions of NDAC Chapter 43-02-05.

(3) This order shall remain in full force and effect until further order of the Commission.

Dated this 24th day of June, 2020.

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA

By the Director, on behalf of the Commission

/s/ Lynn D. Helms, Director

SFN 5729

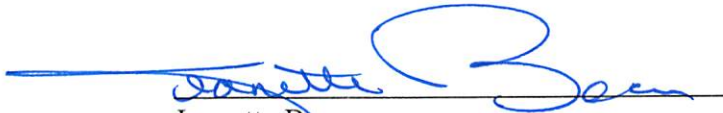
STATE OF NORTH DAKOTA

AFFIDAVIT OF MAILING

COUNTY OF BURLEIGH

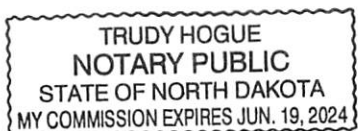
I, Jeanette Bean, being duly sworn upon oath, depose and say: That on the 1st day of July, 2020 enclosed in separate envelopes true and correct copies of the attached Order No. 30882 of the North Dakota Industrial Commission, and deposited the same with the United States Postal Service in Bismarck, North Dakota, with postage thereon fully paid, directed to the following persons by the Industrial Commission in Case No. 28424:

LAWRENCE BENDER
FREDRIKSON & BYRON
PO BOX 1855
BISMARCK ND 58502-1855



Jeanette Bean
Oil & Gas Division

On this 1st day of July, 2020 before me personally appeared Jeanette Bean to me known as the person described in and who executed the foregoing instrument and acknowledged that she executed the same as her free act and deed.





Notary Public
State of North Dakota, County of Burleigh



APPLICATION FOR PERMIT FOR NEW WELL - VERTICAL SALT WATER DISPOSAL

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840

PERMIT INFORMATION

STIPULATIONS

APPLICATION FOR PERMIT FOR NEW WELL - VERTICAL SALT WATER DISPOSAL

API: 3305309487

Page: 2 of 9

File Number: 37701

Well Name: JORE SWD 1

Date: 7/6/2020

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APPLICATION FOR PERMIT FOR NEW WELL - VERTICAL SALT WATER DISPOSAL

API: 3305309487

Page: 3 of 9

File Number: 37701

Well Name: JORE SWD 1

Date: 7/6/2020

OPERATOR INFORMATION

HANNA SWD, LLC

--

5910 N CENTRAL EXPY STE 800
DALLAS, TX 75206

SURFACE OWNER OR TENANT

RICHARD G JORE
2502 BEAVER CREEK RD
WATFORD CITY ND, 58854

WELL INFORMATION

GEOLOGIC INFORMATION

PROPOSED LOGS

* Waiver: Must be requested via a separate sundry.

APPLICATION FOR PERMIT FOR NEW WELL - VERTICAL SALT WATER DISPOSAL

API: 3305309487

Page: 4 of 9

File Number: 37701

Well Name: JORE SWD 1

Date: 7/6/2020

ZONES OF SIGNIFICANCE

UIC INFORMATION

AREA OF REVIEW

APPLICATION FOR PERMIT FOR NEW WELL - VERTICAL SALT WATER DISPOSAL

API: 3305309487

Page: 5 of 9

File Number: 37701

Well Name: JORE SWD 1

Date: 7/6/2020

FEATURES & CEMENT

WELLBORE INFORMATION

WELLBORE CONSTRUCT FEATURES

CEMENT SEGMENTS

CEMENT CLASS

COMPLETION & PERFORATION

COMPLETION INTERVALS

APPLICATION FOR PERMIT FOR NEW WELL - VERTICAL SALT WATER DISPOSAL

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File Number: 37701

Well Name: JORE SWD 1

Date: 7/6/2020

COMPLETION PERFORATIONS

APPROVED DIRECTIONAL POINTS

PROPOSED WORK

OPERATOR ASSERTIONS

APPLICATION FOR PERMIT FOR NEW WELL - VERTICAL SALT WATER DISPOSAL

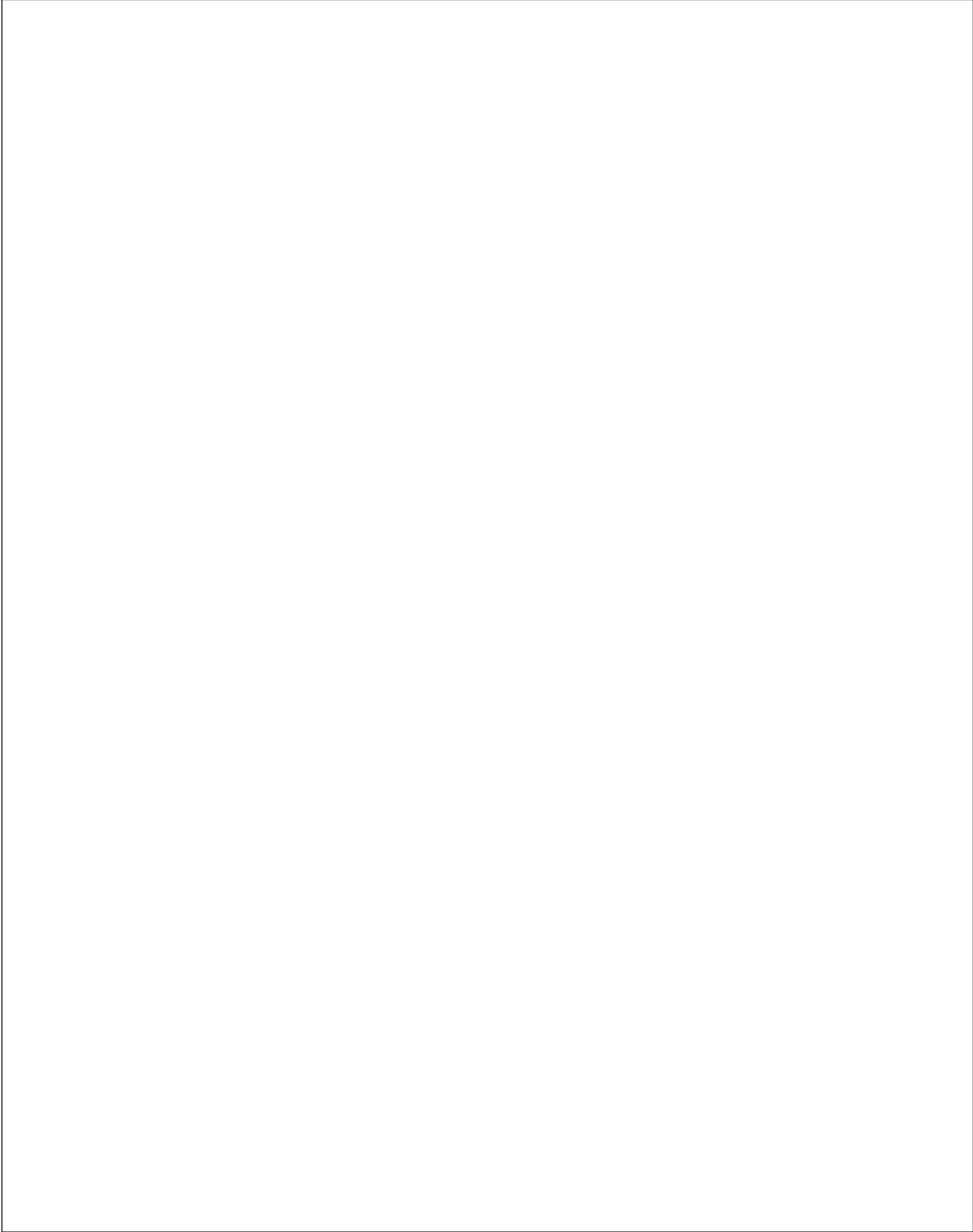
API: 3305309487

Page: 7 of 9

File Number: 37701

Well Name: JORE SWD 1

Date: 7/6/2020



APPLICATION FOR PERMIT FOR NEW WELL - VERTICAL SALT WATER DISPOSAL

API: 3305309487

Page: 8 of 9

File Number: 37701

Well Name: JORE SWD 1

Date: 7/6/2020

SUBMITTED BY

Affirmation: I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Submitted By: Thomas Schumacher

Submitter's Title: Member, Midcon Resource Group, LLC Agent for Hanna SWD, LLC

Submitted Date: 06/09/2020

APPLICATION FOR PERMIT FOR NEW WELL - VERTICAL SALT WATER DISPOSAL

API: 3305309487

Page: 9 of 9

File Number: 37701

Well Name: JORE SWD 1

Date: 7/6/2020

APPROVED BY

Approved By: Ashleigh Day - amday@nd.gov

Approver's Title: UIC Supervisor

Approved Date: 07/06/2020

February 25, 2020

Ms. Ashleigh Day
North Dakota Industrial Commission
Oil and Gas Division
600 East Boulevard
Bismarck, North Dakota 58505-0310

RE: Case No. ____: Application of Hanna SWD, LLC pursuant to Section 43-02-03-88.1 of the N.D. Admin. Code for an order of the Commission authorizing the drilling of a salt water disposal well to be located in the NW/4SE/4 of Section 35, Township 150 North, Range 97 West, North Fork Field, McKenzie County, North Dakota, in the Dakota Group pursuant to chapter 43-02-05 of the N.D.A.C., and providing such other and further relief.

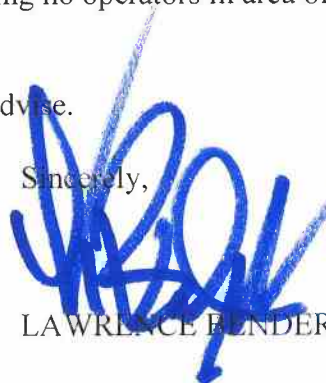
Dear Ms. Day:

Please find enclosed herewith a copy of the following:

- 1 copy of Application of Hanna SWD, LLC;
- 2 copy of Notice of Hearing;
- 3 copy of Affidavit of Service by Mail with regard to service of application and notice of hearing on surface owners;
- 4 Affidavit with regard to there being no operators in area of review; and
- 5 Form 14 with attachments.

Should you have any questions, please advise.

Sincerely,



LAWRENCE BENDER

LB/leo

Enclosure

cc: Mr. Tom Schumacher – (w/enc.) *Via Email*

69409261.1

Attorneys & Advisors
main 701.221.8700
fax 701.221.8750
fredlaw.com

Fredrikson & Byron, P.A.
1133 College Drive, Suite 1000
Bismarck, North Dakota
58501-1215

February 25, 2020

Mr. Bruce Hicks
Assistant Director
North Dakota Industrial Commission
Oil and Gas Division
600 East Boulevard
Bismarck, North Dakota 58505-0310

**RE: APPLICATION OF HANNA
SWD, LLC MARCH 2020
DOCKET**

Dear Mr. Hicks:

Please find enclosed herewith for filing the following:

1. APPLICATION OF HANNA SWD, LLC;
2. NOTICE OF HEARING; and
3. AFFIDAVIT OF SERVICE BY MAIL regarding service of application and notice of hearing on surface owners

As you will note, pursuant to N.D. Admin. Code § 43-02-03-88.2, Hanna SWD requests that its witnesses be allowed to participate at the hearing by telephonic means.

Should you have any questions, please advise.

Sincerely,


LAWRENCE BENDER

LB/leo

Enclosure

cc: Ms. Ashleigh Day - (w/enc.)
Mr. Tom Schumacher - (w/enc.)

69408491.1

Attorneys & Advisors
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fredlaw.com

Fredrikson & Byron, P.A.
1133 College Drive, Suite 1000
Bismarck, North Dakota
58501-1215

BEFORE THE INDUSTRIAL COMMISSION

OF THE STATE OF NORTH DAKOTA

CASE NO. _____

Application of Hanna SWD, LLC pursuant to Section 43-02-03-88.1 of the N.D. Admin. Code for an order of the Commission authorizing the drilling of a salt water disposal well to be located in the NW/4SE/4 of Section 35, Township 150 North, Range 97 West, North Fork Field, McKenzie County, North Dakota, in the Dakota Group pursuant to chapter 43-02-05 of the N.D.A.C., and providing such other and further relief.

APPLICATION OF HANNA SWD, LLC

Hanna SWD, LLC ("Hanna SWD"), for its application to the North Dakota Industrial Commission ("Commission"), respectfully states as follows:

1.

That Hanna SWD is the owner of an interest in the surface estate in the Northwest Quarter Southeast Quarter (NW/4SE/4) of Section 35, Township 150 North, Range 97 West, McKenzie County, North Dakota ("Section 35").

2.

That such lands are within the boundaries of the North Fork Field.

3.

That pursuant to Chapter 43-02-05 of the North Dakota Administrative Code, Hanna SWD is desirous of drilling a well in the NW/4SE/4 of Section 35 for the purposes of utilizing said well for the underground injection of fluids into the Dakota Group produced from wells in the North Fork Field.

4.

That attached herewith and marked Exhibit A is a list of all landowners within the area of review.

5.

That Hanna SWD requests that the Commission enter its order authorizing the underground injection of fluids into the Dakota Group in a well located in the NW/4SE/4 of Section 35, Township 150 North, Range 97 West, North Fork Field, McKenzie County, North Dakota, pursuant to Chapter 43-02-05 of the North Dakota Administrative Code and providing such other and further relief as the Commission deems necessary.

WHEREFORE, Hanna SWD requests the following:

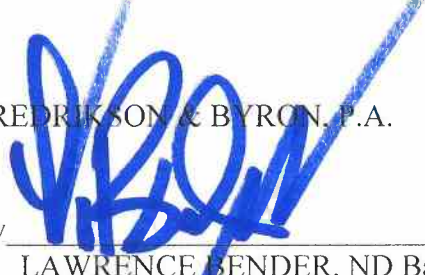
(a) That this matter be set for the regularly scheduled March 2020 hearings of the Commission;

(b) That the Commission issue its order granting the relief requested and such other and further relief as the Commission may deem appropriate; and

(c) That pursuant to Section 43-02-03-88.2 of the North Dakota Administrative Code, Hanna SWD's witnesses in this matter be allowed to participate by telephonic means.

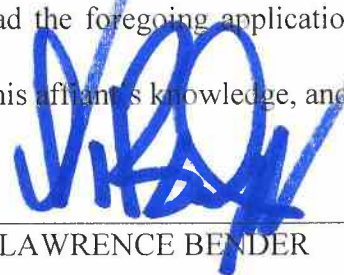
DATED this 25 day of February, 2020.

FREDRIKSON & BYRON, P.A.

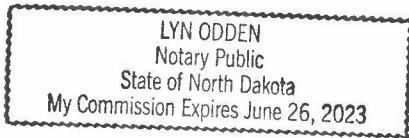
By 
LAWRENCE BENDER, ND Bar #03908
Attorneys for Applicant, Hanna SWD, LLC
1133 College Drive, Suite 1000
P. O. Box 1855
Bismarck, ND 58502-1000
(701) 221-8700

STATE OF NORTH DAKOTA)
) ss.
COUNTY OF BURLEIGH)

LAWRENCE BENDER, being first duly sworn on oath, deposes and says that he is the attorney for the applicant named herein, that he has read the foregoing application, knows the contents thereof, and that the same is true to the best of this affiant's knowledge, and belief.


LAWRENCE BENDER

Subscribed and sworn to before me this 25 day of February, 2020.





Notary Public
Burleigh County, North Dakota
My Commission Expires:

EXHIBIT A

**SURFACE OWNERS WITHIN 1/4 MILE OF JORE SWD 1 WELL
NW/4SE/4 OF SECTION 35-T150N-R97W**

RICHARD G JORE
2502 BEAVER CREEK RD
WATFORD CITY, ND 58854

ABRAXAS PETROLEUM CORPORATION
18803 MEISNER DRIVE
SAN ANTONIO TX 78258

US FOREST SERVICE
MCKENZIE RANGER DISTRICT
1905 S MAIN STREET
WATFORD CITY ND 58854

ND DEPT OF TRUST LANDS
1707 N 9TH STREET
BISMARCK ND 58501-5523

69408225.1

UIC List of Attachments

- Application (6 pages)
- List of Attachments
- Operator Description
- Proposed Well Location
- Lithologic Description of the Proposed Injection and Confining Zones
- Maximum Injection Pressure Calculation
- Estimated Injection Rates
- Depth to Base of Fresh Water Zone
- Injection Plan
- Sources of Injected Fluid
- Logging and Test Data
- Containment Calculations
- Diking Variance Request
- Map of ¼-Mile Area of Review
- List of Wells in AOR
- Corrective Action Statement
- Affidavit of Operator in AOR
- Copy of Operator Notification Letter
- Affidavit of Mailing for Operator Notification Letter
- Map of Surficial Aquifers and Wellhead Protection Areas
- Shallow Aquifer Statement
- Freshwater Investigation
- Nearest Freshwater Source Statement
- Analyses of the Water from the Nearest Freshwater Wells (4 pages)
- Analysis of Representative Sample of Injection Fluid (2 pages)
- Land Ownership Description
- Copy of Notice Sent and Affidavit of Service by Mail (3 pages)
- Completion Procedure
- Schematic of Proposed Well Bore Construction
- Schematic of Float Joint
- Schematic of Wellhead Construction
- Schematic of Surface Construction, Tanks and Containment
- Schematic of Tank Capacity and Purpose
- Schematic of Traffic Flow
- Liner Specification Sheet
- Approach Permit for Facility (2 pages)

Operator Description

Hanna SWD, LLC
5910 North Central Expressway, Suite 800
Dallas, TX 75206
Phone: 701-484-7106

Proposed Well Location

Well Name: JORE SWD 1
Location: 1,822 FSL, 1,869 FEL NWSE of Section 35-150N-97W
County: McKenzie County, ND
Field: North Fork Field
Ground Elevation: 2,323.5'
Finish Pad Elevation: ~2,325'
KB: ~2,338'

Lithologic Description of the Proposed Injection & Confining Zone

Upper Confining Zone: Mowry Formation

Estimated Top: 4,950'

Description: Shale, medium to dark gray, soft to medium firm, flakey to splintery, trace of bentonitic clay, no effective porosity or permeability. ~365' thick.

Injection Zone: Inyan Kara Formation

Estimated Gross Zone: 5,315'-5,755', ~440' thick

Estimated Perforated Interval: 5,475'-5,720'

Description: Sandstone, white to very light gray, angular, medium to coarse grained with silty inter-beds, good inter-granular porosity and very good permeability.

Lower Confining Zone: Swift Formation

Estimated Top: 5,755'

Description: Shale, gray-green, fissile to splintery, dull to sub waxy texture, calcareous, with local limey and sandy units, no effective porosity or permeability. ~495' thick.

Lithology Reference: North Dakota Stratigraphic Column

TVDs listed above were calculated from NDIC's call of geologic tops in the offsetting RAVIN 26-35-2H well (WF # 21994) referenced from the estimated KB elevation of 2,338'.

Maximum Injection Pressure Calculation

$$P_{\max} = P_{\text{fracture}} - P_{\text{hydrostatic}} + P_{\text{friction}}$$
$$P_{\max} = (D * G_f) - (.052 * 8.34 * SG * D) + (0)$$

where

P_{\max}	= Maximum Surface Injection Pressure
P_{fracture}	= Estimated fracture pressure of upper confining zone
$P_{\text{hydrostatic}}$	= Pressure of fluid column
P_{friction}	= Pressure loss due to friction within tubing (Considered 0 for added SF)
D	= Depth to top of injection zone (5,315')
SG	= Specific Gravity of injection fluid from analysis (1.22)
G_f	= Fracture Gradient of Upper Confining Zone (Mowry Shale estimated 0.8)

therefore

$$P_{\max} = (D * G_f) - (0.052 * 8.34 * SG * D) + (0)$$
$$P_{\max} = (5,315 * .8) - (0.052 * 8.34 * 1.22 * 5,315) + (0)$$
$$P_{\max} = 4,252 - 2,812 = 1,440 \text{ psi}$$

Estimated Injection Rates

The estimated average injection rate is 10,000 BWPD at an estimated pressure of 800 psi. Maximum injection rate will be 25,000 BWPD at 1,435 psi.

Depth to Base of Fresh Water Zone

The Fox Hills Formation is the lowest-most freshwater aquifer in this area and overlies the Pierre Formation. Depth to base of freshwater zone is approximately 1,924' as calculated from the Pierre Shale Top MM-23 map referenced from the ground elevation of 2,324'.

Injection Plan

Hanna SWD, LLC plans to drill a directional salt water disposal well to a MD of 6,537'. The well will be completed as a salt water disposal well in the Dakota Group. Produced water from wells within the surrounding area will be piped through a gathering system of low pressure buried poly lines to the site. The water will be stored on location, pressurized, and disposed of in the Dakota Group. The site is expected to handle 10,000-25,000 barrels per day at a pressure of 1,435 psi or less.

Sources of Injected Fluid

The source of produced water will be piped Class II water from any existing or future production wells in this area as defined by the NDIC Oil & Gas records. The operator, well name and number, well file #, location, water type, volumes, and transportation method of all water will be reported monthly on a Form 16A (NDIC Saltwater Disposal Report).

Logging and Test Data

This is a proposed well. All available logs and test data that are run on the well during completion will be promptly submitted to the NDIC.

Containment Calculations

Paragraph (3b) of NDAC 43-02-03-53 state in part, “Dikes must be of sufficient dimension to contain the total capacity of the largest tank plus one day’s fluid production”.

Largest tank proposed	3,000 bbls
Requested Max. Daily Injection Rate of JORE SWD 1	<u>25,000 bbls</u>
Required Containment	28,000 bbls
Total Tank Capacity	5,490 bbls
Primary containment as proposed (90.5’x135.5’x3’ lined steel)	6,552 bbls
Tank Displacement @ 3’	<u>641 bbls</u>
Net Primary containment at the JORE SWD 1 facility	5,911 bbls
Secondary containment as proposed at the JORE SWD 1	35,115 bbls***

**** See attached Sheet 4 that details the proposed containment at the JORE SWD 1.

Tank Capacity and Berm Displacement											
Qty	Tank Purpose	Tank Size	Tank Capacity (Bbls)	Capacity Subtotal (Bbls)	Tank Radius (Ft)	Tank Area (Sq Ft)	Tank Displacement (Cubic Ft)	Tank Displacement (Bbls)	Displacement Subtotal (Bbls)	Berm Depth	
1	De-Sanding	10'x35'	490	490	5	79	237	42	42	3	
1	Separator	15'6"x30'	1000	1,000	7.75	189	567	101	101		
2	Oil	12'x25'	500	1,000	6	113	339	60	120		
1	Saltwater	30'x24'	3000	3,000	15	707	2121	378	378		
Total Tank Capacity >>				5,490				Total Tank Displacement >>		641	



Diking Variance Request

43-02-03-53-3(b)... Dikes must be of sufficient dimension to contain the total capacity of the largest tank plus one day's fluid production. The director may lower the required capacity of the dike if the necessity can be demonstrated to the director's satisfaction.

Background: Total tank capacity at the proposed JORE SWD 1 will initially be 5,490 bbls and consist of 1-490 bbls, 2-500 bbls, 1-1000 bbls, and 1-3000 bbls tanks. There will be ~6,552 bbls of primary containment about these tanks constructed of a 90.5'x135.5'x3' steel berm with liner. Tank displacement is 641 bbls which yields a net primary containment of approximately 5,911 bbls.

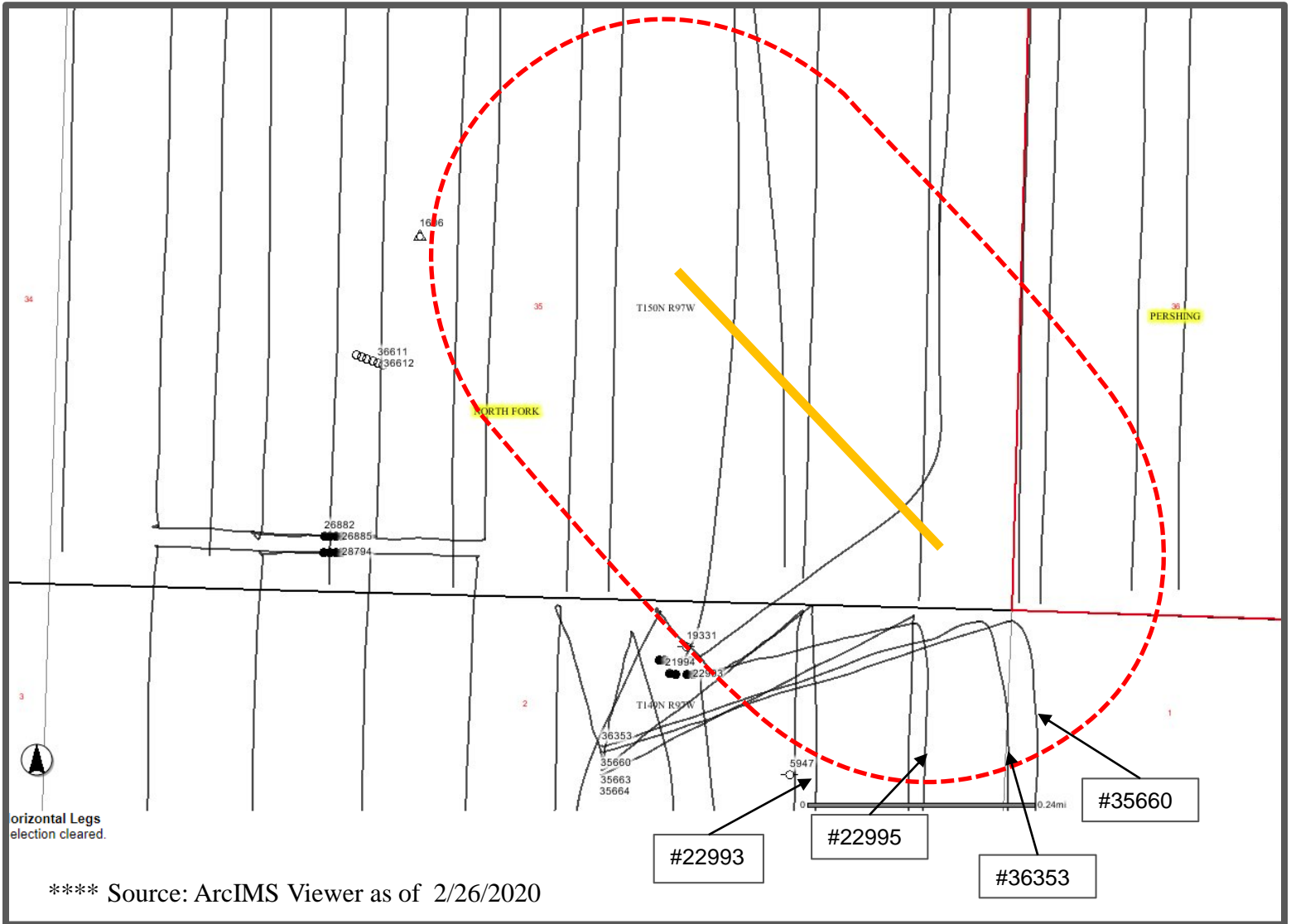
Hanna SWD, LLC respectfully requests relief from 43-02-03-53-3(b) to increase its injection rate at the JORE SWD 1 to 25,000 bbls/day with the following justifications: 1) The facility will be manned 24/7 by a two-man trained crew who continuously audit all aspects of the operation including injection rate, receipt rate, pressures, and tank levels; 2) the facility is equipped with a SCADA system with tank, rate, and pressure sensors, spill detection, and other automation that prevent receipt of additional fluids if tank levels exceed safety thresholds and shut the system in if any other anomaly occurs; 3) the increased injection rate will lower tank volumes; 4) a perimeter berm will be installed having a containment volume of ~35,115 bbls as detailed in the attached Sheet 4 schematic.

Map of the ¼-Mile Area of Review

JORE SWD 1- Hanna SWD, LLC

NWSE Section 35-150-97

North Fork Field-McKenzie County, ND



1/4-Mile Area of Review



Proposed JORE SWD 1 Well Bore

Wells Within Quarter Mile AOR of JORE SWD 1 that Penetrate Injection Zone													
File	Api	Operator	Well Name	Field Name	QQ	Section	Township	Range	Lat	Lon	Type	Status	Cement Comments
22995	33-053-04152-00-00	ABRAXAS PETROLEUM CORP.	JORE FEDERAL 2-11-1H	NORTH FORK	LOT2	2	149	97	47.7598759	-103.0552161	OG	A	CBL indicating TOC of 3155'
22993	33-053-04150-00-00	ABRAXAS PETROLEUM CORP.	JORE FEDERAL 2-11-2H	NORTH FORK	LOT2	2	149	97	47.7598757	-103.0548335	OG	A	CBL indicating TOC of 3480'
36353	33-053-09028-00-00	ABRAXAS PETROLEUM CORP.	JORE YELLOWSTONE 2H	NORTH FORK	LOT2	2	149	97	47.7587472	-103.0568404	OG	SI	No CBL on file
35660	33-053-08788-00-00	ABRAXAS PETROLEUM CORP.	JORE YELLOWSTONE 1H	NORTH FORK	LOT2	2	149	97	47.7586595	-103.0568426	OG	SI	No CBL on file

Corrective Action Statement of Wells within ¼-Mile Area of Review

There are four wells detailed on the map and listed in the chart above that are directionally drilled through the Dakota and penetrate the injection zone within the quarter mile AOR.

1. #22995-CBL on file indicates adequate cement isolation with TOC at ~3155'. No corrective action required.
2. #22993-CBL on file indicates adequate cement isolation with TOC at ~3480'. No corrective action required.
3. #35660-This well has been shut in and there is no CBL on file @ the NDIC. Corrective Action- Hanna SWD, LLC will confirm the cement isolation for this well when the CBL becomes available.
4. #36353-This well has been shut in and there is no CBL on file @ the NDIC. Corrective Action- Hanna SWD, LLC will confirm the cement isolation for this well when the CBL becomes available.

June 5, 2020

Ms. Ashleigh Day
North Dakota Industrial Commission
Oil and Gas Division
600 East Boulevard
Bismarck, North Dakota 58505-0310

RE: Case No. 28424: Application of Hanna SWD, LLC for an order pursuant to NDAC § 43-02- 03-88.1 authorizing saltwater disposal into the Dakota Group in the Jore SWD 1 well, NWSE Section 35, T.150N., R.97W., North Fork Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

Dear Ms. Day:

Please find enclosed herewith a copy of the following:

- 1 Affidavit of Service by Mail with regard to service on operator;
- 2 Copy of letter sent to operator; and
- 3 Copy of proof of service via Federal Express.

Should you have any questions, please advise.

Sincerely,


LAWRENCE BENDER

LB/leo

Enclosure

cc: Mr. Tom Schumacher – (w/enc.) *Via Email*
70213745.1

Attorneys & Advisors
main 701.221.8700
fax 701.221.8750
fredlaw.com

Fredrikson & Byron, P.A.
1133 College Drive, Suite 1000
Bismarck, North Dakota
58501-1215

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OF THE STATE OF NORTH DAKOTA**

CASE NO. 28424

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AFFIDAVIT OF SERVICE BY MAIL

STATE OF NORTH DAKOTA)
) ss.
COUNTY OF BURLEIGH)

Amber Nelson, being first duly sworn, deposes and says that on the 4th day of June, 2020, she served the attached:

LETTER

by placing a true and correct copy thereof in an envelope addressed as follows:

**ABRAXAS PETROLEUM CORPORATION
18803 MEISNER DRIVE
SAN ANTONIO TX 78258**


and depositing the same in a Federal Express Envelope for Federal Express delivery from Bismarck, North Dakota.



Amber Nelson

Subscribed and sworn to before me this 4th day of June, 2020.

**LYN ODDEN
Notary Public
State of North Dakota
My Commission Expires June 26, 2023**



Notary Public
My Commission expires:
70205895.1

June 4, 2020

VIA FEDERAL EXPRESS

ABRAXAS PETROLEUM CORPORATION
18803 MEISNER DRIVE
SAN ANTONIO TX 78258

RE: Case No. 28424: Application of Hanna SWD, LLC for an order As a result of recent changes to NDAC § 43-02-03-88.1 authorizing saltwater disposal into the Dakota Group in the Jore SWD 1 well, NWSE Section 35, T.150N., R.97W., North Fork Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

Dear Sir/Madam:

As a result of recent changes to the rules of the North Dakota Industrial Commission, Oil and Gas Division (Commission"), Hanna is required to notify any operators of existing or permitted wellbores penetrating the injection zone within the quarter-mile radius around the proposed Jore SWD 1 well, and have proof of service of that notification. The attached letter which was previously sent to you, serves as notification of the proposed disposal well.

The above-captioned application was heard on March 26, 2020. Should you have an objection to the application, please direct it to the North Dakota Industrial Commission, Oil and Gas Division, 600 East Boulevard, Bismarck, North Dakota 58505, within 10 days of receipt of this letter.

Sincerely,


LAWRENCE BENDER

LB/leo

Enclosure

70200805.1

Attorneys & Advisors
main 701.221.8700
fax 701.221.8750
fredlaw.com

Fredrikson & Byron, P.A.
1133 College Drive, Suite 1000
Bismarck, North Dakota
58501-1215

Midcon Resource Group, LLC
1515 Burnt Boat Drive Suite C #337
Bismarck, ND 58503

February 26, 2020

Abraxas Petroleum Corporation
18803 Meisner Drive
San Antonio TX 78258

RE: Notice of Proposed Saltwater Disposal Well
Proposed Well Name: JORE SWD 1
Surface Location: 1822 FSL 1869 FEL NWSE Section 35-T150N-R97W
Bottom Hole Location: 427 FSL 433 FEL SESE Section 35-T150N-R97W

To Whom It Concerns,

This letter is to advise you that Hanna SWD, LLC is required by the Commission to notify you that one or more of your existing or permitted wellbores penetrates the injection zone within the quarter mile area of review of the above referenced proposed saltwater disposal well. This well is planned to be directionally drilled. Abraxas Petroleum Corporation has 10 business days from receipt of this notice to submit written comments or objections to the Commission at the following address:

NDIC Oil and Gas Division
600 E. Boulevard Ave., Dept. 405
Bismarck, ND 58505-0840

Verbal questions regarding this application may be directed to Ashleigh Day, UIC Supervisor for the NDIC Oil & Gas Division, at (701) 328-8020. You may also contact Nick Johnson at (214) 699-4820 with questions regarding the application.

Sincerely,



Thomas O Schumacher
Member, Midcon Resource Group, LLC

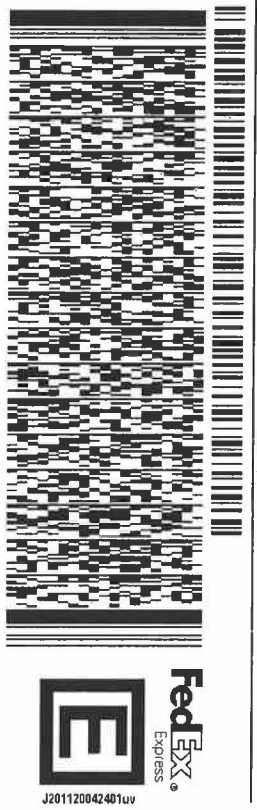
ORIGIN ID: BISA (701) 221-8700
 BISMARCK OFFICE
 1133 COLLEGE DRIVE
 SUITE 1000
 BISMARCK, ND 58501
 UNITED STATES US

SHIP DATE: 04 JUN 20
 ACTWGT: 1.00 LB
 CAD: 113883210/NET4220
 BILL SENDER

ABRAXAS PETROLEUM CORPORATION
18803 MEISNER DRIVE

SAN ANTONIO TX 78258

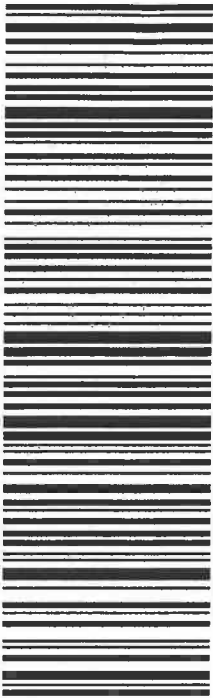
(701) 221-8700 REF: 063582.0061
 INV DEPT
 PO



56BJ1/C7DD/FE4A

TRK# 7706 2801 8073
 0201
 FRI - 05 JUN 3:00P
 STANDARD OVERNIGHT

XH SATA
 TX-US
78258 SAT



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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770628018073



Delivered
Friday 6/05/2020 at 10:42 am



DELIVERED

Signature release on file

[GET STATUS UPDATES](#)

[OBTAIN PROOF OF DELIVERY](#)

FROM
Bismarck, ND US

TO
SAN ANTONIO, TX US

Shipment Facts

TRACKING NUMBER
770628018073

SERVICE
FedEx Standard Overnight

DOOR TAG NUMBER
DT105675298633

WEIGHT
0.5 lbs / 0.23 kgs

TOTAL PIECES
1

TOTAL SHIPMENT WEIGHT
0.5 lbs / 0.23 kgs

TERMS
Shipper

SHIPPER REFERENCE
063582.0061

PACKAGING
FedEx Envelope

SPECIAL HANDLING SECTION
Deliver Weekday

STANDARD TRANSIT
 6/05/2020 by 3:00 pm

SHIP DATE
 Thu 6/04/2020

ACTUAL DELIVERY
Fri 6/05/2020 10:42 am

Travel History

Local Scan Time



Friday, 6/05/2020

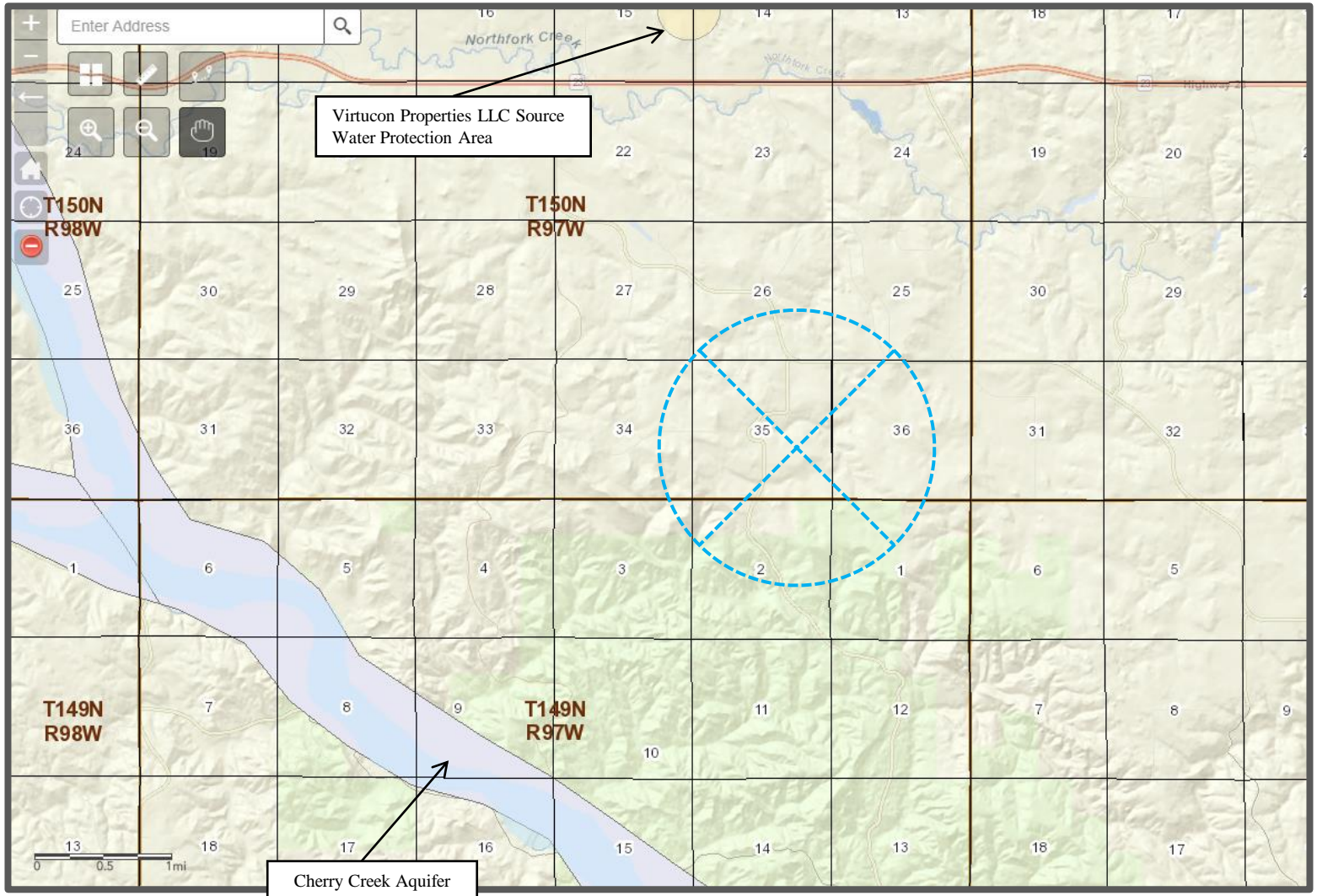
10:42 am	SAN ANTONIO, TX	Delivered Package delivered to recipient address - release authorized
8:56 am	SAN ANTONIO, TX	Delivery exception Customer not available or business closed
7:55 am	SAN ANTONIO, TX	On FedEx vehicle for delivery
7:17 am	SAN ANTONIO, TX	At local FedEx facility
5:27 am	SAN ANTONIO, TX	At destination sort facility
4:03 am	MEMPHIS, TN	Departed FedEx location

Thursday, 6/04/2020

11:39 pm	MEMPHIS, TN	Arrived at FedEx location
6:34 pm	BISMARCK, ND	Left FedEx origin facility
4:19 pm	BISMARCK, ND	Picked up
2:05 pm		Shipment information sent to FedEx

Map of Surficial Aquifers and Wellhead Protection Area

JORE SWD 1- Hanna SWD, LLC
NWSE Section 35-150-97
North Fork Field-McKenzie County, ND

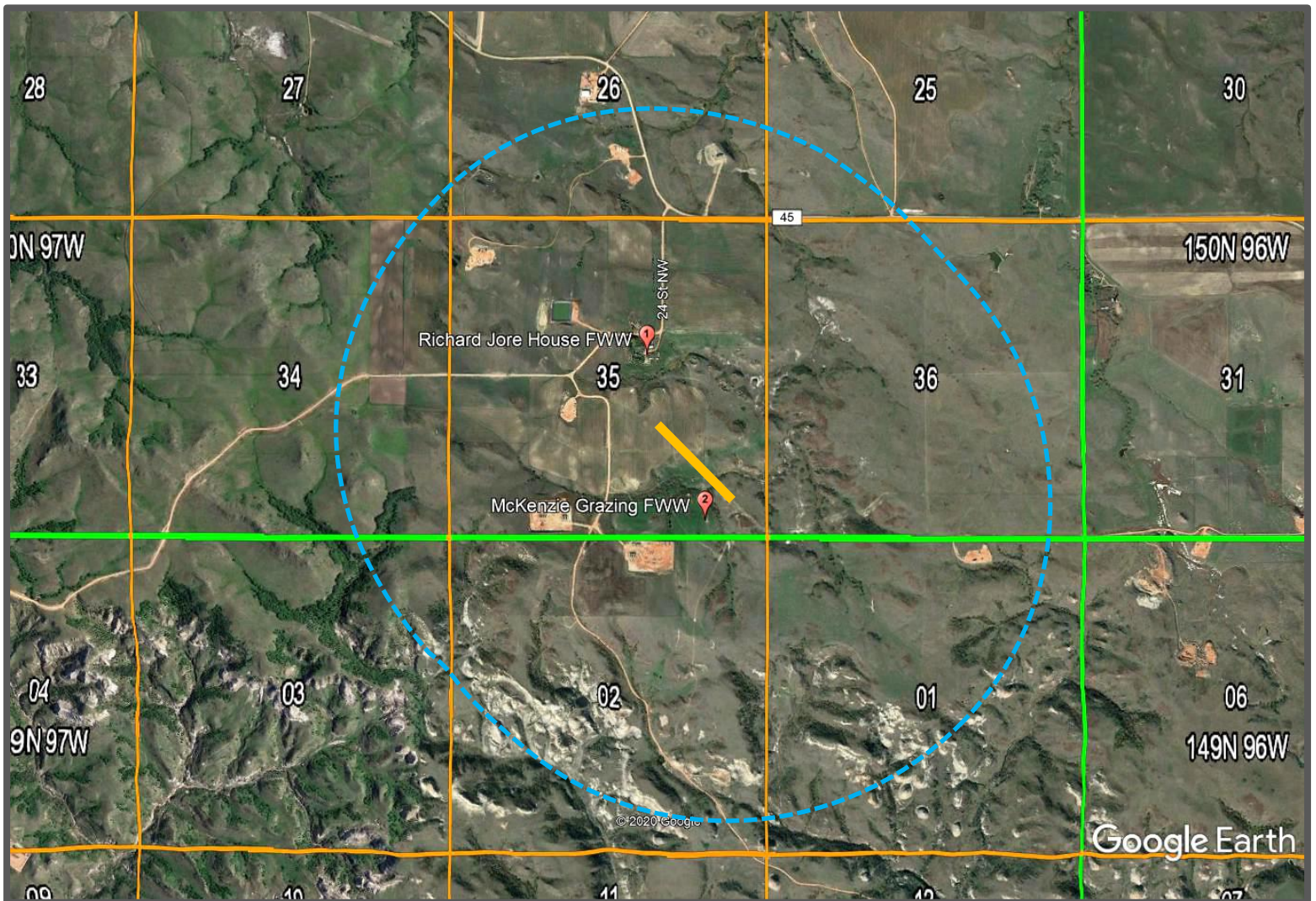


1-Mile AOR

Shallow Aquifer Statement

The ND Hub Explorer mapping utility details the proposed location more than three miles from an aquifer or wellhead protection area.

Freshwater Investigation
JORE SWD 1- Hanna SWD, LLC
NWSE Section 35-150-97
North Fork Field-McKenzie County, ND



1-Mile AOR



Proposed JORE SWD 1 Well Bore

1. Richard Jore House FWW located SWNE of Section 35-150-97, coordinates 47.769081, -103.0557635.
[Analysis attached.](#)
2. McKenzie Grazing FWW located SESE of Section 35-150-97, coordinates 47.761554, -103.051849.
[Analysis attached.](#)

**** Per Richard Jore, 50-year resident of the area, all other wells in the area have long been abandoned.

Nearest Freshwater Source Statement

The two freshwater wells to the proposed JORE SWD 1 are the Richard Jore House FWW (1) and the McKenzie Grazing FWW (2).

Analyses of the Water from the Nearest Freshwater Wells (4 pages)

JORE SWD 1- Hanna SWD, LLC
 NWSE Section 35-150-97
 North Fork Field-McKenzie County, ND

MINNESOTA VALLEY TESTING LABORATORIES, INC.

MVTL

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
 2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
 51 W. Lincoln Way ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
 ACIL

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.

AN EQUAL OPPORTUNITY EMPLOYER

Page: 1 of 2

Hanna SWD LLC
 5910 N Central Expressway Suite 800
 Dallas TX 75206

Report Date: 19 Feb 20
 Lab Number: 20-W232
 Work Order #: 82-0276
 Account #: 045721
 Date Sampled: 5 Feb 20 11:20
 Date Received: 6 Feb 20 8:00
 Sampled By: Client

Project Name: Jore/Johnsrud SWD #1
 Sample Description: Richard Jore House FWW
 Sample Site: 47.769081-103.0557635
 Sample Location: SWNE Sec35 Twp 150N R97W

Temp at Receipt: 4.9C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Metal Digestion				EPA 200.2	6 Feb 20	HT
pH	* 8.1	units	N/A	SM4500 H+ B	7 Feb 20 17:00	HT
Conductivity (EC)	4616	umhos/cm	N/A	SM2510-B	7 Feb 20 17:00	HT
Total Alkalinity	1120	mg/l CaCO3	20	SM2320-B	7 Feb 20 17:00	HT
Phenolphthalein Alk	< 20	mg/l CaCO3	20	SM2320-B	7 Feb 20 17:00	HT
Bicarbonate	1120	mg/l CaCO3	20	SM2320-B	7 Feb 20 17:00	HT
Carbonate	< 20	mg/l CaCO3	20	SM2320-B	7 Feb 20 17:00	HT
Hydroxide	< 20	mg/l CaCO3	20	SM2320-B	7 Feb 20 17:00	HT
Tot Dis Solids(Summation)	3570	mg/l	12.5	SM1030-F	11 Feb 20 11:56	Calculated
Percent Sodium of Cations	98.2	%	NA	N/A	11 Feb 20 11:56	Calculated
Total Hardness as CaCO3	46.5	mg/l	NA	SM2340-B	11 Feb 20 11:56	Calculated
Hardness in grains/gallon	2.72	gr/gal	NA	SM2340-B	11 Feb 20 11:56	Calculated
Cation Summation	59.4	meq/L	NA	SM1030-F	11 Feb 20 11:56	Calculated
Anion Summation	54.4	meq/L	NA	SM1030-F	10 Feb 20 10:54	Calculated
Percent Error	4.34	%	NA	SM1030-F	11 Feb 20 11:56	Calculated
Sodium Adsorption Ratio	85.5		NA	USDA 20b	11 Feb 20 11:56	Calculated
Specific Gravity	1.0011	at 60/60F	NA	ASTM D1298	7 Feb 20 16:36	RAG
Fluoride	1.10	mg/l	0.10	SM4500-F-C	7 Feb 20 17:00	HT
Sulfate	1530	mg/l	5.00	ASTM D516-07	7 Feb 20 11:20	EV
Chloride	5.9	mg/l	1.0	SM4500-Cl-E	10 Feb 20 10:54	EV
Nitrate-Nitrite as N	0.21	mg/l	0.10	EPA 353.2	6 Feb 20 12:31	EV
Calcium - Total	8.4	mg/l	1.0	6010D	11 Feb 20 11:56	SZ
Magnesium - Total	6.2	mg/l	1.0	6010D	11 Feb 20 11:56	SZ
Sodium - Total	1340	mg/l	1.0	6010D	11 Feb 20 11:56	SZ

RL = Method Reporting Limit

The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix # = Due to concentration of other analytes
 ! = Due to sample quantity + = Due to internal standard response

CERTIFICATION: ND # ND-00016

MINNESOTA VALLEY TESTING LABORATORIES, INC.

MVTL

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2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724

51 W. Lincoln Way ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

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AN EQUAL OPPORTUNITY EMPLOYER

Page: 1 of 2

Hanna SWD LLC
5910 N Central Expressway Suite 800
Dallas TX 75206

Report Date: 19 Feb 20
Lab Number: 20-W233
Work Order #: 82-0276
Account #: 045721
Date Sampled: 5 Feb 20 11:42
Date Received: 6 Feb 20 8:00
Sampled By: Client

Project Name: Jore/Johnsrud SWD #1
Sample Description: McKenzie Grazing FWW
Sample Site: 47.761554-103.051849
Sample Location: SESE Sec35 Twp150 R97W

Temp at Receipt: 4.9C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Metal Digestion				EPA 200.2	6 Feb 20	HT
pH	* 8.3	units	N/A	SM4500 H+ B	6 Feb 20 17:00	HT
Conductivity (EC)	2820	umhos/cm	N/A	SM2510-B	6 Feb 20 17:00	HT
Total Alkalinity	1660	mg/l CaCO3	20	SM2320-B	6 Feb 20 17:00	HT
Phenolphthalein Alk	< 20	mg/l CaCO3	20	SM2320-B	6 Feb 20 17:00	HT
Bicarbonate	1646	mg/l CaCO3	20	SM2320-B	6 Feb 20 17:00	HT
Carbonate	< 20	mg/l CaCO3	20	SM2320-B	6 Feb 20 17:00	HT
Hydroxide	< 20	mg/l CaCO3	20	SM2320-B	6 Feb 20 17:00	HT
Tot Dis Solids(Summation)	1900	mg/l	12.5	SM1030-F	11 Feb 20 11:56	Calculated
Percent Sodium of Cations	98.8	%	NA	N/A	11 Feb 20 11:56	Calculated
Total Hardness as CaCO3	16.6	mg/l	NA	SM2340-B	11 Feb 20 11:56	Calculated
Hardness in grains/gallon	0.97	gr/gal	NA	SM2340-B	11 Feb 20 11:56	Calculated
Cation Summation	38.7	meq/L	NA	SM1030-F	11 Feb 20 11:56	Calculated
Anion Summation	33.6	meq/L	NA	SM1030-F	10 Feb 20 10:54	Calculated
Percent Error	7.06	%	NA	SM1030-F	11 Feb 20 11:56	Calculated
Sodium Adsorption Ratio	93.9		NA	USDA 20b	11 Feb 20 11:56	Calculated
Specific Gravity	1.0007	at 60/60F	NA	ASTM D1298	7 Feb 20 16:36	RAG
Fluoride	3.99	mg/l	0.10	SM4500-F-C	6 Feb 20 17:00	HT
Sulfate	< 5	mg/l	5.00	ASTM D516-07	7 Feb 20 11:20	EV
Chloride	15.3	mg/l	1.0	SM4500-C1-E	10 Feb 20 10:54	EV
Nitrate-Nitrite as N	< 0.1	mg/l	0.10	EPA 353.2	6 Feb 20 12:31	EV
Calcium - Total	3.2	mg/l	1.0	6010D	11 Feb 20 11:56	SZ
Magnesium - Total	2.1	mg/l	1.0	6010D	11 Feb 20 11:56	SZ
Sodium - Total	880	mg/l	1.0	6010D	11 Feb 20 11:56	SZ

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CERTIFICATION: ND # ND-00016

Analysis of Representative Sample of Injection Fluid (2 pages)

JORE SWD 1- Hanna SWD, LLC
 NWSE Section 35-150-97
 North Fork Field-McKenzie County, ND

MINNESOTA VALLEY TESTING LABORATORIES, INC.

MVTL

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
 2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
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Page: 1 of 2

Hanna SWD LLC
 5910 N Central Expressway Suite 800
 Dallas TX 75206

Report Date: 19 Feb 20
 Lab Number: 20-W237
 Work Order #: 82-0276
 Account #: 045721
 Date Sampled: 5 Feb 20 14:17
 Date Received: 6 Feb 20 8:00
 Sampled By: Client

Project Name: Jore/Johnsrud SWD #1
 Sample Description: Walls SWD 1
 Sample Site: 47.752487-102.947405
 Sample Location: NWSE Sec3 Twp 149N R96W

Temp at Receipt: 4.9C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Metal Digestion				EPA 200.2	7 Feb 20	HT
pH	* 5.9	units	N/A	SM4500 H+ B	6 Feb 20 17:00	HT
Conductivity (EC)	204220	umhos/cm	N/A	SM2510-B	6 Feb 20 17:00	HT
Total Alkalinity	118	mg/l CaCO3	20	SM2320-B	6 Feb 20 17:00	HT
Phenolphthalein Alk	< 20	mg/l CaCO3	20	SM2320-B	6 Feb 20 17:00	HT
Bicarbonate	118	mg/l CaCO3	20	SM2320-B	6 Feb 20 17:00	HT
Carbonate	< 20	mg/l CaCO3	20	SM2320-B	6 Feb 20 17:00	HT
Hydroxide	< 20	mg/l CaCO3	20	SM2320-B	6 Feb 20 17:00	HT
Tot Dis Solids(Summation)	308000	mg/l	12.5	SM1030-F	11 Feb 20 11:56	Calculated
Percent Sodium of Cations	73.9	%	NA	N/A	11 Feb 20 11:56	Calculated
Total Hardness as CaCO3	55100	mg/l	NA	SM2340-B	11 Feb 20 11:56	Calculated
Hardness in grains/gallon	3220	gr/gal	NA	SM2340-B	11 Feb 20 11:56	Calculated
Cation Summation	5100	meq/L	NA	SM1030-F	11 Feb 20 11:56	Calculated
Anion Summation	5400	meq/L	NA	SM1030-F	10 Feb 20 10:54	Calculated
Percent Error	-2.86	%	NA	SM1030-F	11 Feb 20 11:56	Calculated
Sodium Adsorption Ratio	160		NA	USDA 20b	11 Feb 20 11:56	Calculated
Specific Gravity	1.220 @ 63F		NA	ASTM D1298	7 Feb 20 16:36	RAG
Fluoride	1.35	mg/l	0.10	SM4500-F-C	6 Feb 20 17:00	HT
Sulfate	282	mg/l	5.00	ASTM D516-07	7 Feb 20 11:20	EV
Chloride	191000	mg/l	1.0	SM4500-Cl-E	10 Feb 20 10:54	EV
Nitrate-Nitrite as N	< 10 @	mg/l	0.10	EPA 353.2	6 Feb 20 12:31	EV
Calcium - Total	20100	mg/l	1.0	6010D	11 Feb 20 11:56	SZ
Magnesium - Total	1190	mg/l	1.0	6010D	11 Feb 20 11:56	SZ
Sodium - Total	86500	mg/l	1.0	6010D	11 Feb 20 11:56	SZ

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CERTIFICATION: ND # ND-00016

MVTL

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Sampled By: Client

Project Name: Jore/Johnsrud SWD #1
Sample Description: Walls SWD 1
Sample Site: 47.752487-102.947405
Sample Location: NWSE Sec3 Twp 149N R96W

Temp at Receipt: 4.9C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Potassium - Total	8900	mg/l	1.0	6010D	11 Feb 20 11:56	SZ
Barium - Total	34.8	mg/l	0.10	6010D	10 Feb 20 12:37	SZ
Iron - Total	124	mg/l	0.10	6010D	10 Feb 20 12:37	SZ
Manganese - Total	14.4	mg/l	0.05	6010D	10 Feb 20 12:37	SZ
Chromium - Total	< 0.04 @	mg/l	0.0020	6020B	18 Feb 20 19:09	CC

* Holding time exceeded

Approved by:

Claudette K. Carroll

Stacy Zander

Claudette K. Carroll, Laboratory Manager, Bismarck, ND

Stacy Zander, Energy Laboratory Supervisor, Bismarck, ND

RL = Method Reporting Limit

The reporting limit was elevated for any analyte requiring a dilution as coded below:

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! = Due to sample quantity + = Due to internal standard response

CERTIFICATION: ND # ND-00016

Land Ownership Description

JORE SWD 1- Hanna SWD, LLC

NWSE Section 35-150-97

North Fork Field-McKenzie County, ND



1/4-Mile Area of Review



Proposed JORE SWD 1 Well Bore

SURFACE OWNERS WITHIN 1/4-MILE OF THE JORE SWD 1			
Parcel #	Section-Township-Range	Description	Landowner Name & Address
13-00-16100	35-150N-97W	NE (160 acres)	RICHARD G JORE
13-00-16200	35-150N-97W	E2SW, NWSW (120 acres)	2502 BEAVER CREEK RD
13-00-16300	35-150N-97W	SE (160 acres)	WATFORD CITY, ND 58854
58-00-00300	2-149N-97W	Lot 2 (40.38 acres)	
13-00-16400	35-150N-97W	NW (160 acres)	ABRAXAS PETROLEUM CORPORATION
			18803 MEISNER DRIVE
			SAN ANTONIO TX 78258
58-00-00225	1-149N-97W	W2 (320.30 acres)	US FOREST SERVICE
58-00-00450	2-149N-97W	S2, S2N2, Lot 1 (520.26 acres)	MCKENZIE RANGER DISTRICT
			1905 S MAIN STREET
			WATFORD CITY ND 58854
13-00-16500	36-150N-97W	All (640.00 acres)	ND DEPT OF TRUST LANDS
			1707 N 9th STREET
			BISMARCK ND 58501-5523

**** Source <https://mckenzie.gworks.com/> GIS Platform as of 02/25/2020



May 28, 2020

VIA EMAIL

Ms. Ashleigh Day
North Dakota Industrial Commission
Oil and Gas Division
600 East Boulevard
Bismarck, North Dakota 58505-0310

RE: Case No. 28424: Application of Hanna SWD, LLC for an order pursuant to NDAC § 43-02- 03-88.1 authorizing saltwater disposal into the Dakota Group in the Jore SWD 1 well, NWSE Section 35, T.150N., R.97W., North Fork Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate

Dear Ms. Day:

Please find enclosed herewith a copy of the following:

- 1 Letter addressed to each surface owner; and
- 2 Affidavit of Service by Mail with accompanying proof of service for each via certified mail.

Should you have any questions, please advise.

Sincerely,



LAURENCE BENDER

LB/leo

Enclosure

cc: Mr. Tom Schumacher – (w/enc.) *Via Email*
70153599.1

Attorneys & Advisors
main 701.221.8700
fax 701.221.8750
fredlaw.com

Fredrikson & Byron, P.A.
1133 College Drive, Suite 1000
Bismarck, North Dakota
58501-1215

May 12, 2020

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RICHARD G. JORE
2502 BEAVER CREEK RD
WATFORD CITY, ND 58854

RE: Case No. 28424: Application of Hanna SWD, LLC for an order As a result of recent changes to NDAC § 43-02-03-88.1 authorizing saltwater disposal into the Dakota Group in the Jore SWD 1 well, NWSE Section 35, T.150N., R.97W., North Fork Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

Dear Mr. Jore:

This letter is to advise you that Hanna SWD, LLC ("Hanna") filed an application as captioned above.

As a result of recent changes to the rules of the North Dakota Industrial Commission, Oil and Gas Division (Commission"), Hanna is required to notify landowners within a quarter-mile radius around the proposed Jore SWD 1 well by certified mail, return receipt requested. It is our understanding that you own, or have paid taxes on, a property within a quarter-mile radius of the referenced location. This letter serves as notification of the proposed disposal well.

The above-captioned application was heard on March 26, 2020. Should you have an objection to the application, please direct it to the North Dakota Industrial Commission, Oil and Gas Division, 600 East Boulevard, Bismarck, North Dakota 58505, within 30 days of the date of this letter.

Sincerely,



LAWRENCE BENDER

LB/leo

Enclosure

Attorneys & Advisors
main 701.221.8700
fax 701.221.8750
fredlaw.com

Fredrikson & Byron, P.A.
1133 College Drive, Suite 1000
Bismarck, North Dakota
58501-1215

7017 3380 0001 1332 0968

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

Richard G Jore & Byron, P.A.
1332 College Drive
Suite 1000
Bismarck, ND 58503 E Lyn

For delivery information, visit our website at www.usps.com®.

Bismarck, ND 58503 E Lyn

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Extra Services & Fees (check box, add fee as appropriate)		
Postage:		
Certified Fee:	\$3.55	_____
Return Receipt:	\$2.85	_____
Total Postage & Fees:		_____



RICHARD G JORE
2502 BEAVER CREEK RD
WATFORD CITY, ND 58854

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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1. Article Addressed to: *Lyn*

RICHARD G JORE
2502 BEAVER CREEK RD
WATFORD CITY, ND 58854



9590 9402 3577 7305 1484 40

2. Article Number (Transfer from service label)

7017 3380 0001 1332 0968

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A. Signature
X Richard Jore TG Agent
 Addressee

B. Received by (Printed Name): *Richard Jore TG* C. Date of Delivery: *5-19-20*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
- | | |
|------------------------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
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| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

PS Form 3811, July 2015 PSN 7530-02-000-9053

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Fredrikson

& BYRON, P.A.

May 12, 2020

CERTIFIED MAIL,
RETURN RECEIPT REQUESTED

ABRAXAS PETROLEUM CORPORATION
18803 MEISNER DRIVE
SAN ANTONIO TX 78258

RE: Case No. 28424: Application of Hanna SWD, LLC for an order pursuant to NDAC § 43-02-03-88.1 authorizing saltwater disposal into the Dakota Group in the Jore SWD 1 well, NWSE Section 35, T.150N., R.97W., North Fork Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

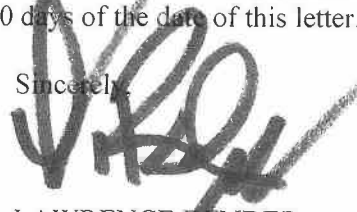
Dear Sir or Madam:

This letter is to advise you that Hanna SWD, LLC ("Hanna") filed an application as captioned above.

As a result of recent changes to the rules of the North Dakota Industrial Commission, Oil and Gas Division (Commission"), Hanna is required to notify landowners within a quarter-mile radius around the proposed Jore SWD 1 well by certified mail, return receipt requested. It is our understanding that Abraxas owns, or has paid taxes on, a property within a quarter-mile radius of the referenced location. This letter serves as notification of the proposed disposal well.

The above-captioned application was heard on March 26, 2020. Should you have an objection to the application, please direct it to the North Dakota Industrial Commission, Oil and Gas Division, 600 East Boulevard, Bismarck, North Dakota 58505, within 30 days of the date of this letter.

Sincerely,



LAWRENCE BENDER

LB/leo

Enclosure

Attorneys & Advisors
main 701.221.8700
fax 701.221.8750
fredlaw.com

Fredrikson & Byron, P.A.
1133 College Drive, Suite 1000
Bismarck, North Dakota
58501-1215

7017 3380 0001 1332 0975

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Postage: _____

Certified Fee: \$3.55 _____

Return Receipt: \$2.85 _____

Total Postage & Fees: _____

Postmark
 Here

ABRAXAS PETROLEUM CORPORATION
 18803 MEISNER DRIVE
 SAN ANTONIO TX 78258

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>V. Villalobos</i></p> <p>C. Date of Delivery <i>5/21</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>ABRAXAS PETROLEUM CORPORATION 18803 MEISNER DRIVE SAN ANTONIO TX 78258</p> <p>9590 9402 3577 7305 1484 33</p> <p>2. Article Number (Transfer from service label) 7017 3380 0001 1332 0975</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery</p> <p><input checked="" type="checkbox"/> Certified Mail®</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p> <p><input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Signature Confirmation Restricted Delivery</p>

May 12, 2020

CERTIFIED MAIL,
RETURN RECEIPT REQUESTED

US FOREST SERVICE
MCKENZIE RANGER DISTRICT
1905 S MAIN STREET
WATFORD CITY ND 58854

RE: Case No. 28424: Application of Hanna SWD, LLC for an order pursuant to NDAC § 43-02-03-88.1 authorizing saltwater disposal into the Dakota Group in the Jore SWD 1 well, NWSE Section 35, T.150N., R.97W., North Fork Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

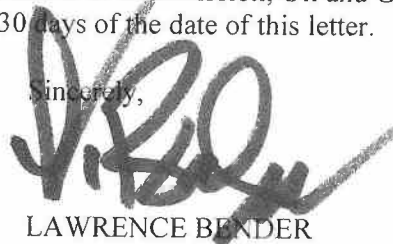
Dear Sir or Madam:

This letter is to advise you that Hanna SWD, LLC ("Hanna") filed an application as captioned above.

As a result of recent changes to the rules of the North Dakota Industrial Commission, Oil and Gas Division (Commission"), Hanna is required to notify landowners within a quarter-mile radius around the proposed Jore SWD 1 well by certified mail, return receipt requested. It is our understanding that the US Forest Service owns, or has paid taxes on, a property within a quarter-mile radius of the referenced location. This letter serves as notification of the proposed disposal well.

The above-captioned application was heard on March 26, 2020. Should you have an objection to the application, please direct it to the North Dakota Industrial Commission, Oil and Gas Division, 600 East Boulevard, Bismarck, North Dakota 58505, within 30 days of the date of this letter.

Sincerely,



LAWRENCE BENDER

LB/leo

Enclosure

Attorneys & Advisors
main 701.221.8700
fax 701.221.8750
fredlaw.com

Fredrikson & Byron, P.A.
1133 College Drive, Suite 1000
Bismarck, North Dakota
58501-1215

7017 3380 0001 1332 0982

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com.

U.S. Forest Service & Byron, P.A.
College Drive
Suite 1000
Bismarck, ND 58501

Certified Mail Fee
\$
Extra Services & Fees (check box, add fee as appropriate)
Postage:
Certified Fee: \$3.55
Return Receipt: \$2.85
Total Postage & Fees:



US FOREST SERVICE
MCKENZIE RANGER DISTRICT
1905 S MAIN STREET
WATFORD CITY ND 58854

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to: *Lynn*

US FOREST SERVICE
MCKENZIE RANGER DISTRICT
1905 S MAIN STREET
WATFORD CITY ND 58854



2. Article Number (Transfer from service label)

7017 3380 0001 1332 0982

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[Signature] Agent
 Addressee

B. Received by (Printed Name) *Laura Tomms* C. Date of Delivery *5/15/2020*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
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 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

May 12, 2020

CERTIFIED MAIL,
RETURN RECEIPT REQUESTED

ND DEPT OF TRUST LANDS
1707 N 9TH STREET
BISMARCK ND 58501-5523

RE: Case No. 28424: Application of Hanna SWD, LLC for an order pursuant to NDAC § 43-02-03-88.1 authorizing saltwater disposal into the Dakota Group in the Jore SWD 1 well, NWSE Section 35, T.150N., R.97W., North Fork Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

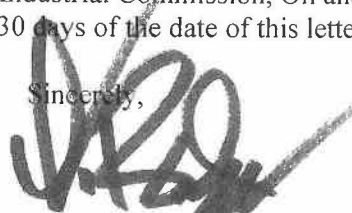
Dear Sir or Madam:

This letter is to advise you that Hanna SWD, LLC ("Hanna") filed an application as captioned above.

As a result of recent changes to the rules of the North Dakota Industrial Commission, Oil and Gas Division (Commission"), Hanna is required to notify landowners within a quarter-mile radius around the proposed Jore SWD 1 well by certified mail, return receipt requested. It is our understanding that ND Department of Trust Lands owns, or has paid taxes on, a property within a quarter-mile radius of the referenced location. This letter serves as notification of the proposed disposal well.

The above-captioned application was heard on March 26, 2020. Should you have an objection to the application, please direct it to the North Dakota Industrial Commission, Oil and Gas Division, 600 East Boulevard, Bismarck, North Dakota 58505, within 30 days of the date of this letter.

Sincerely,



LAWRENCE BENDER

LB/leo

Enclosure

70044174.1

Attorneys & Advisors
main 701.221.8700
fax 701.221.8750
fredlaw.com

Fredrikson & Byron, P.A.
1133 College Drive, Suite 1000
Bismarck, North Dakota
58501-1215

7017 3380 0001 1332 0999

U.S. Postal Service
Fredrikson & Byron, P.A
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Suite 1000
Bismarck, ND 58501

For delivery information, visit our website at www.usps.com.

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Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

- Postage:
- Certified Fee: \$3.55
- Return Receipt: \$2.85
- Total Postage & Fees:
- Adult Signature Restricted Delivery



lyn
25424

ND DEPT OF TRUST LANDS
1707 N 9TH STREET
BISMARCK ND 58501-5523

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

lyn

ND DEPT OF TRUST LANDS
1707 N 9TH STREET
BISMARCK ND 58501-5523

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Shaw*

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

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- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

2. Article Number (Transfer from service label)

7017 3380 0001 1332 0999

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA

Case No. 28424

Application of Hanna SWD, LLC for an order pursuant to NDAC § 43-02- 03-88.1 authorizing saltwater disposal into the Dakota Group in the Jore SWD 1 well, NWSE Section 35, T.150N., R.97W., North Fork Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

AFFIDAVIT OF SERVICE BY MAIL

STATE OF NORTH DAKOTA)
) ss.
COUNTY OF BURLEIGH)

Amber Nelson, being first duly sworn, deposes and says that on the 12th day of May, 2020, she served the attached:

Letter

by placing a true and correct copy thereof in an envelope addressed as follows:

**RICHARD G JORE
2502 BEAVER CREEK RD
WATFORD CITY, ND 58854**

**ABRAXAS PETROLEUM
CORPORATION
18803 MEISNER DRIVE
SAN ANTONIO TX 78258**

**US FOREST SERVICE
MCKENZIE RANGER DISTRICT
1905 S MAIN STREET
WATFORD CITY ND 58854**

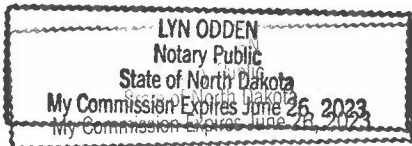
**ND DEPT OF TRUST LANDS
1707 N 9TH STREET
BISMARCK ND 58501-5523**

and depositing the same, with postage prepaid, certified mail, return receipt requested, in the United States mail at Bismarck, North Dakota.



Amber Nelson

Subscribed and sworn to before me this 12th day of May, 2020.





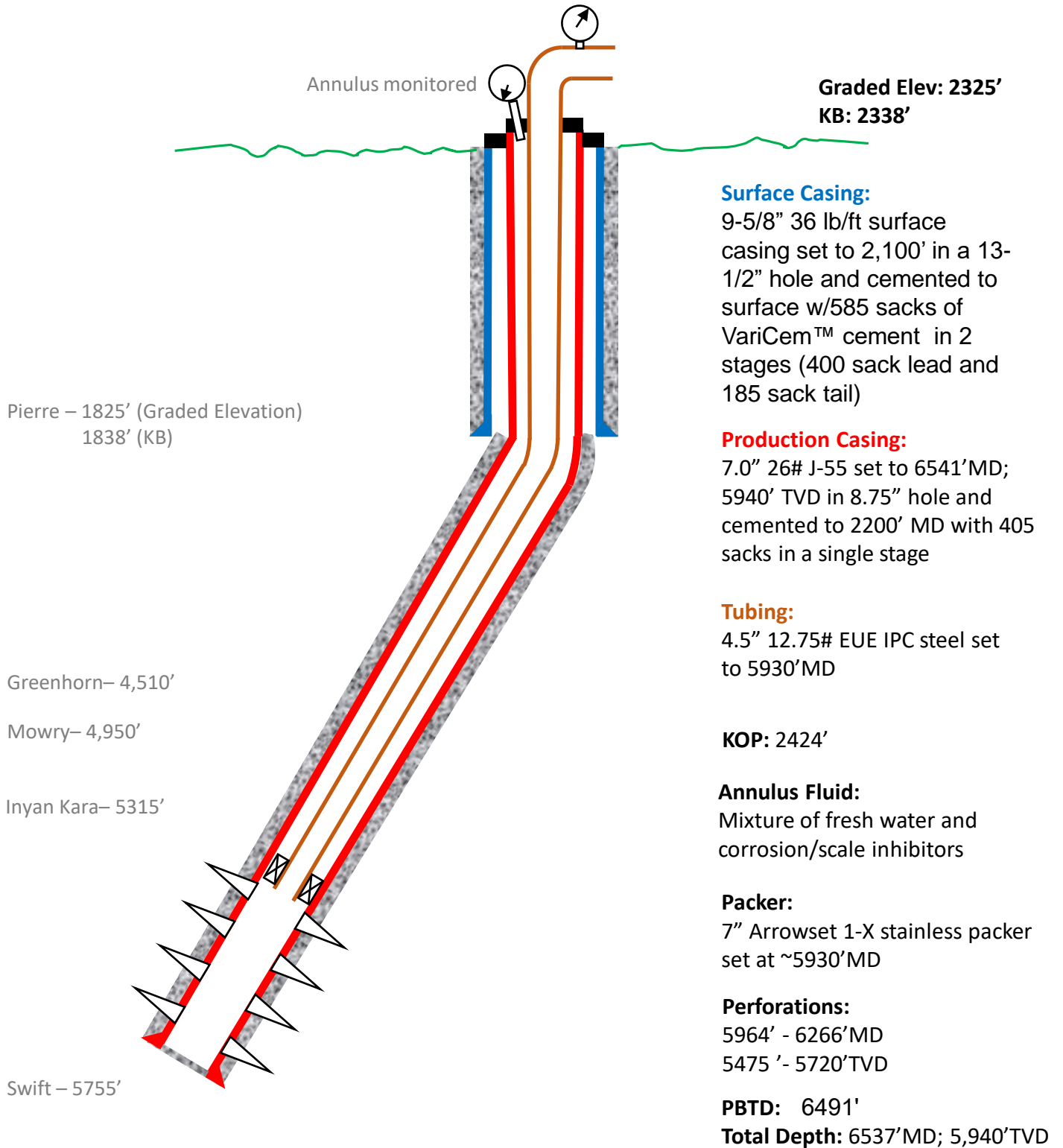
Notary Public
My Commission expires:

JORE SWD 1 - Completion Procedure

Notify NDIC Field Inspector at least 24 hours prior to initiating site construction. MIRU. NU BOP. Drill 13-1/2" hole with fresh water mud to 2,100' (at least 50' of casing into Pierre Shale). Run 9-5/8" 36 lb/ft surface casing and cement to surface with 585 sacks of VariCem™ cement (400 sack lead/185 sack tail). WOC. Drill out with 8-3/4" bit to a projected depth of 6,537'MD; 5,940' TVD with salt water gel system. Run 7" 26 lb/ft production string to ~6,537' and cement with 405 sacks of NeoCem™ in a single stage to ~2,200'. WOC. Test 7" casing to 1,500 psi for 30 minutes. Log well w/GR & CBL and submit to NDIC. Perforate 7" casing within Inyan Kara interval at approximately 5,964' – 6,266'MD; 5,475' - 5,720'TVD (exact depths TBD from log). Acidize if necessary. TIH w/new 4-1/2" EUE IPC tubing and set Arrowset I-X packer @ +/- 5,930'MD (must be within 100' of top perf). Schedule Mechanical Integrity Test (MIT) with NDIC Field Inspector. Perform witnessed 1000 psi, 15 minute MIT and with approval from field inspector, plumb and initiate injection. Submit Completion Report (Form 6) and Sundry Notice (Form 4) with Date of 1st Injection.

Schematic of Proposed Well Bore Construction

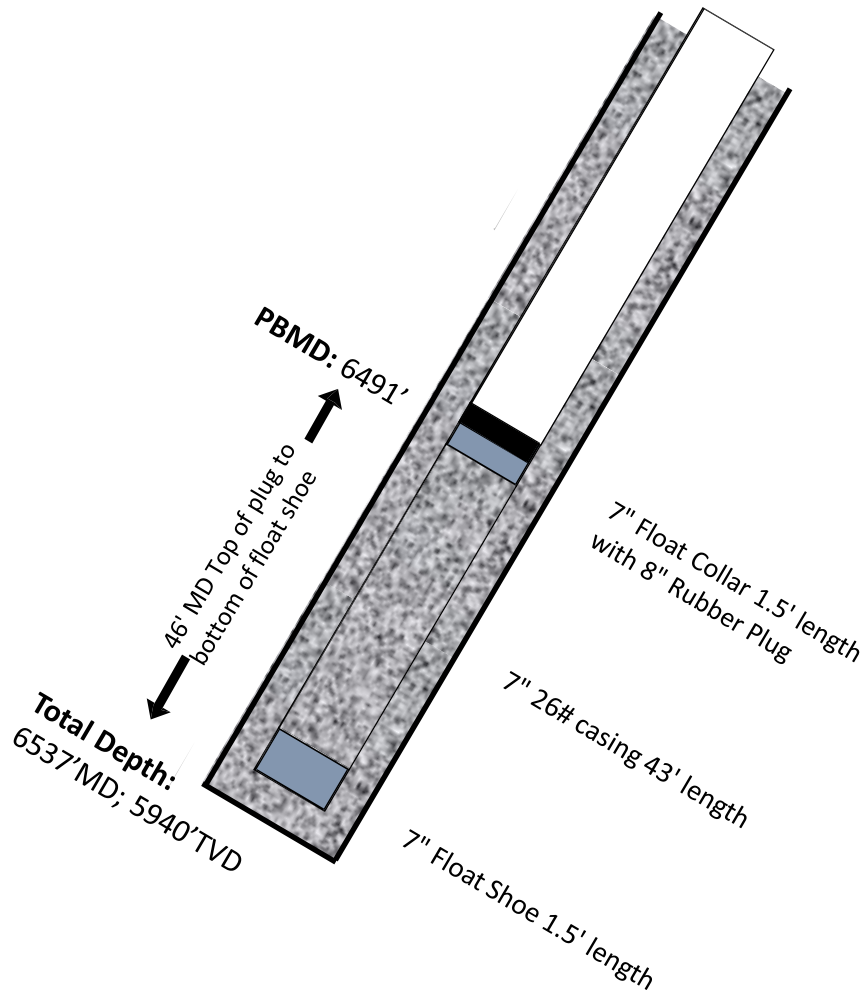
JORE SWD 1- Hanna SWD, LLC
NWSE Section 35-150-97
North Fork Field-McKenzie County, ND



**** Not to scale. All depths referenced from estimated KB elevation of 2338' and calculated from NDIC's call of geologic tops in the offsetting RAVIN 26-35-2H (WF# 21994)

Schematic of Float Joint

JORE SWD 1- Hanna SWD, LLC
NWSE Section 35-150-97
North Fork Field-McKenzie County, ND



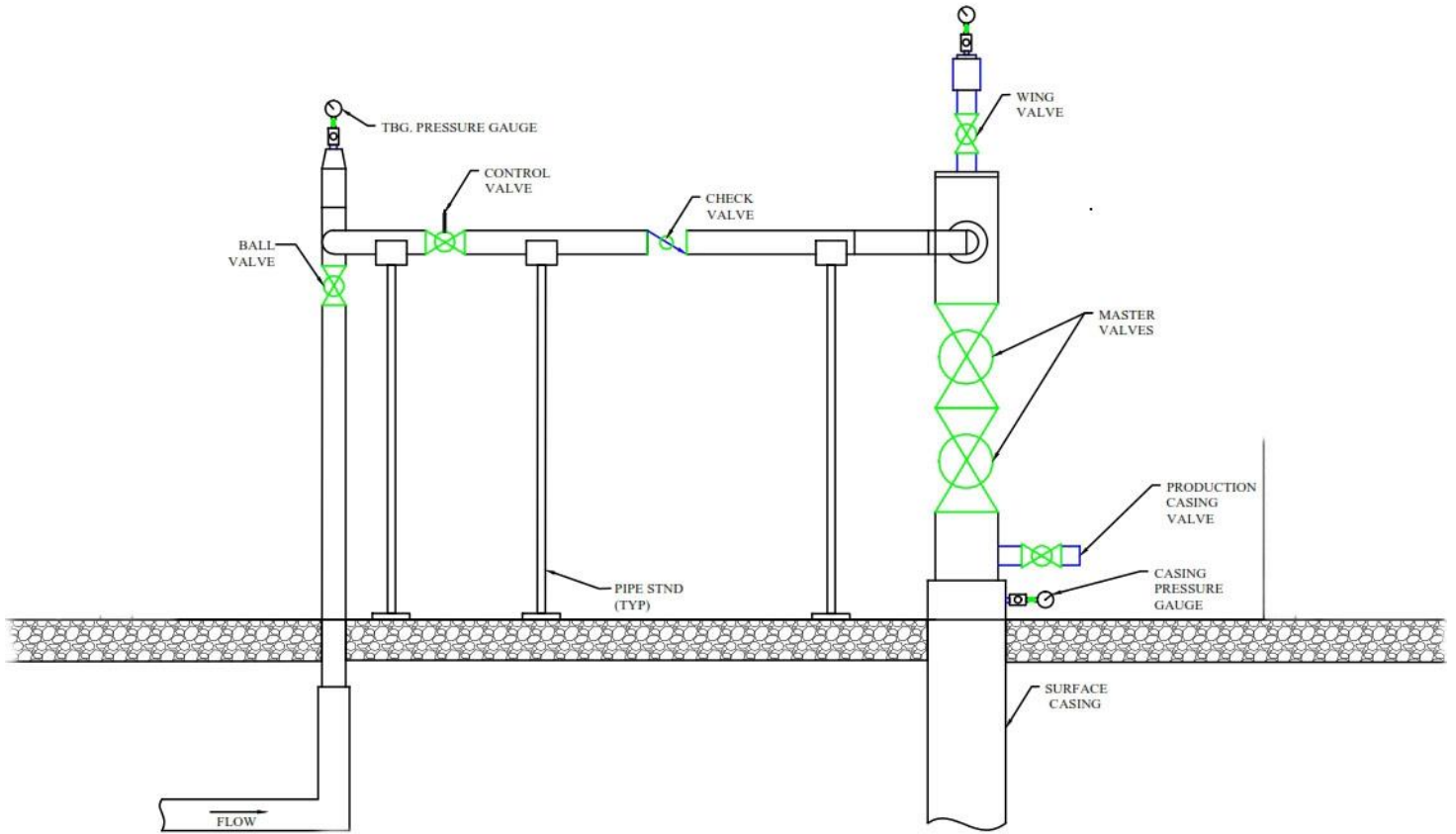
**** Not to scale. All depths referenced from estimated KB elevation of 2338' and calculated from NDIC's call of geologic tops in the offsetting RAVIN 26-35-2H (WF# 21994)

Schematic of Wellhead Construction

JORE SWD 1- Hanna SWD, LLC

NWSE Section 35-150-97

North Fork Field-McKenzie County, ND



Schematic of Surface Construction, Tanks and Containment

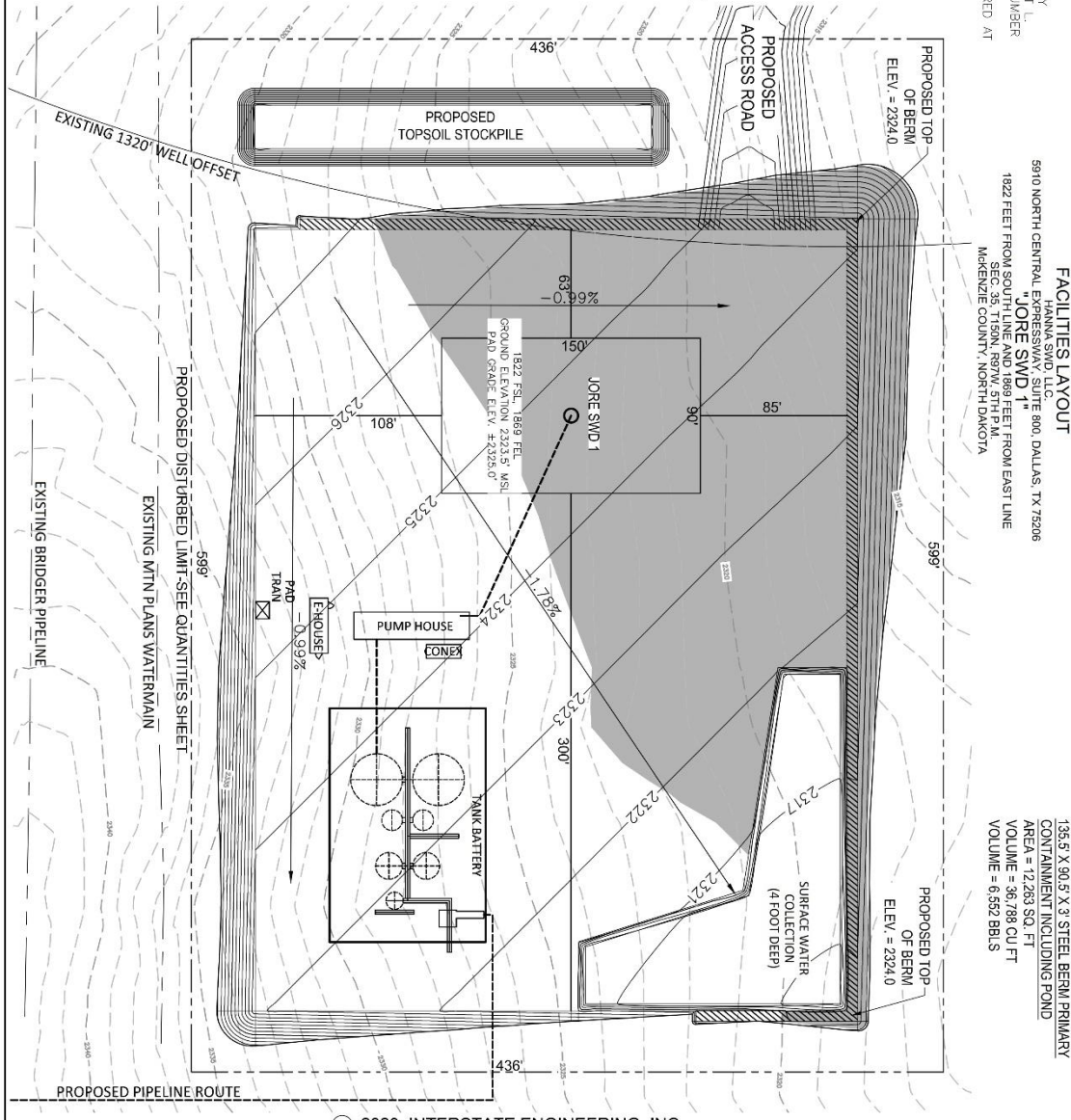
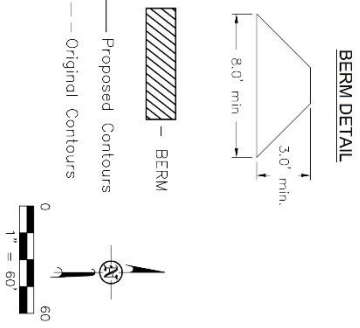
JORE SWD 1- Hanna SWD, LLC
 NWSE Section 35-150-97
 North Fork Field-McKenzie County, ND



THIS DOCUMENT WAS ORIGINALLY ISSUED AND SEALED BY ROBERT L. PROOVIE, P.E., REGISTRATION NUMBER 2884 ON 7/27/2020. AND THE ORIGINAL DOCUMENTS ARE STORED AT THE OFFICES OF INTERSTATE ENGINEERING, INC.

NOTES:
 EARTHEN BERM SECONDARY CONTAINMENT ASSUMING A TOP OF BERM ELEVATION OF 2324.0 AROUND THE CONTAINMENT POND AND CONTAINMENT WATER IS ALLOWED TO BACK UP ONTO THE PAD. THE TOTAL DESIGNED OVERALL CONTAINMENT VOLUME WILL BE 36,115 BARRELS.
 ALL QUANTITIES ARE SUBJECT TO CHANGE DURING CONSTRUCTION. A COMPLETE UTILITY LOCATE IS RECOMMENDED. ALL SLOPES NOT TO EXCEED 2:1, AND NOT BE FLATTER THAN 4:1

NOTE: All utilities shown are preliminary only, a complete utilities location is recommended before construction.



FACILITIES LAYOUT
 HANNA SWD, LLC
 5910 NORTH CENTRAL EXPRESSWAY, SUITE 800, DALLAS, TX 75206
 1822 FEET FROM SOUTH LINE AND 1822 FEET FROM EAST LINE
 SEC. 35, T150N, R97W, 5TH P.M.
 MCKENZIE COUNTY, NORTH DAKOTA

136.5' X 90.5' X 3' STEEL BERM PRIMARY
 CONTAINMENT INCLUDING POND
 AREA = 12,693 SQ. FT
 VOLUME = 36,788 CU FT
 VOLUME = 6,562 BBLS

© 2020, INTERSTATE ENGINEERING, INC.

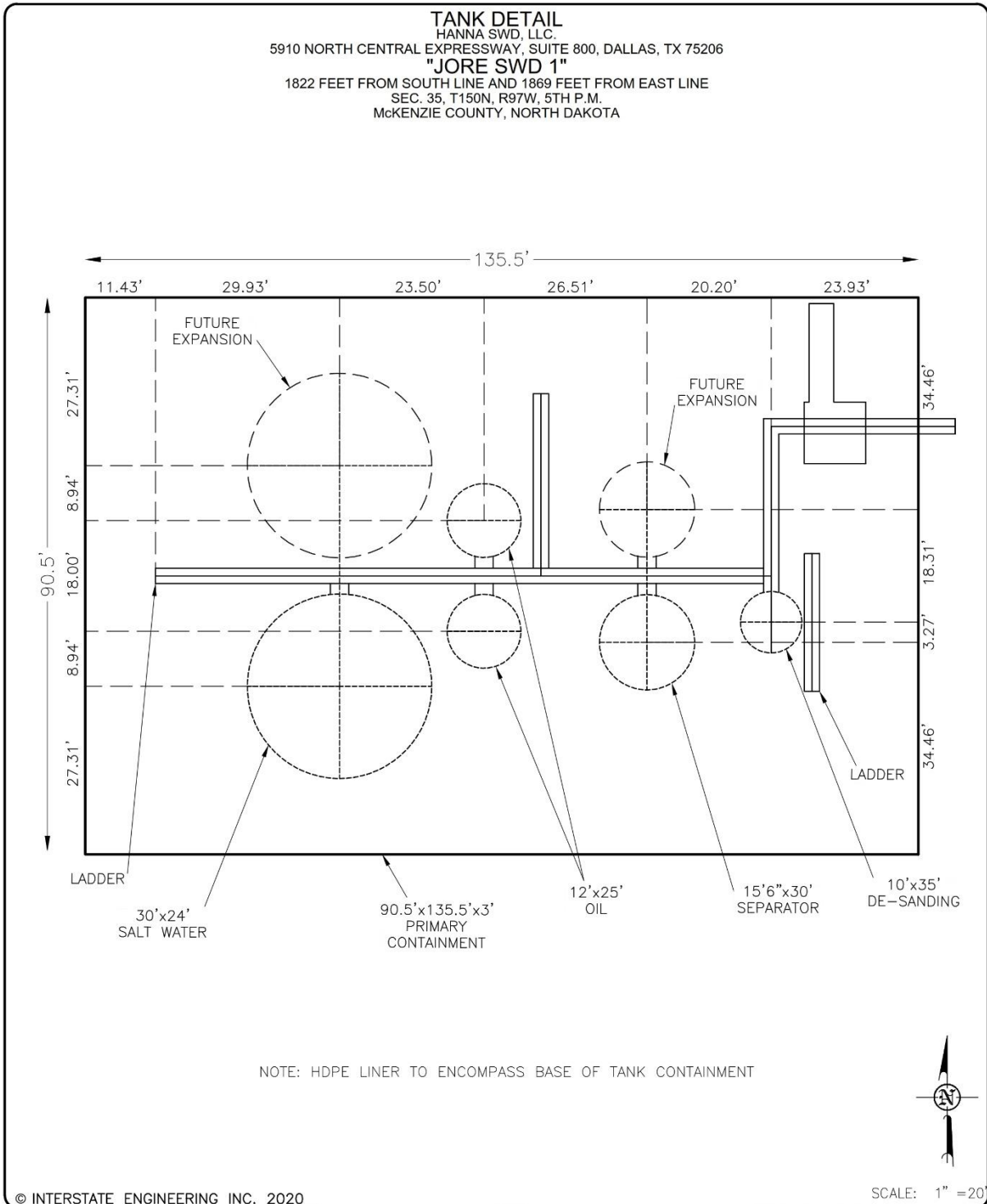
<h1 style="font-size: 2em;">4</h1> <p>SHEET NO.</p>	<p>INTERSTATE ENGINEERING Professionals you need, people you trust</p>	Interstate Engineering, Inc. P.O. Box 268 141 2nd Avenue South West Belfield, North Dakota 58622 Ph: (701) 575-2247 Fax: (701) 575-2281 www.interstateeng.com Other offices in Minnesota, Montana and South Dakota	FACILITIES LAYOUT HANNA SWD, LLC SECTION 35, T150N, R97W MCKENZIE COUNTY, NORTH DAKOTA		<table border="1"> <thead> <tr> <th>Revised No.</th> <th>Date</th> <th>By</th> <th>Description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Revised No.	Date	By	Description												
			Revised No.	Date		By	Description														
Drawn By: JDM Checked By: JDM	Project No.: 520-09-007 Date: FEB 2020	4/20/2020 10:54:20 AM 1/21/2020 10:54:20 AM 1/21/2020 10:54:20 AM																			

Schematic of Tank Capacity and Purpose

JORE SWD 1- Hanna SWD, LLC

NWSE Section 35-150-97

North Fork Field-McKenzie County, ND



© INTERSTATE ENGINEERING INC. 2020

7 SHEET NO.	 INTERSTATE ENGINEERING <i>Professionals you need, people you trust</i>	Interstate Engineering, Inc. P.O. Box 266 141 2nd Avenue Southwest Belfield, North Dakota 58622 Ph (701) 575-2247 Fax (701) 575-2251 www.ieng.com Other offices in Minnesota, Montana and South Dakota	TANK DETAIL HANNA SWD, LLC. SEC. 35, T150N, R97W, 5TH P.M. McKENZIE COUNTY, NORTH DAKOTA Drawn By: JDM Checked By: RLP Project No.: S20-09-007 Date: FEB. 2020	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Revision No.</th> <th>Date</th> <th>By</th> <th>Description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Revision No.	Date	By	Description																
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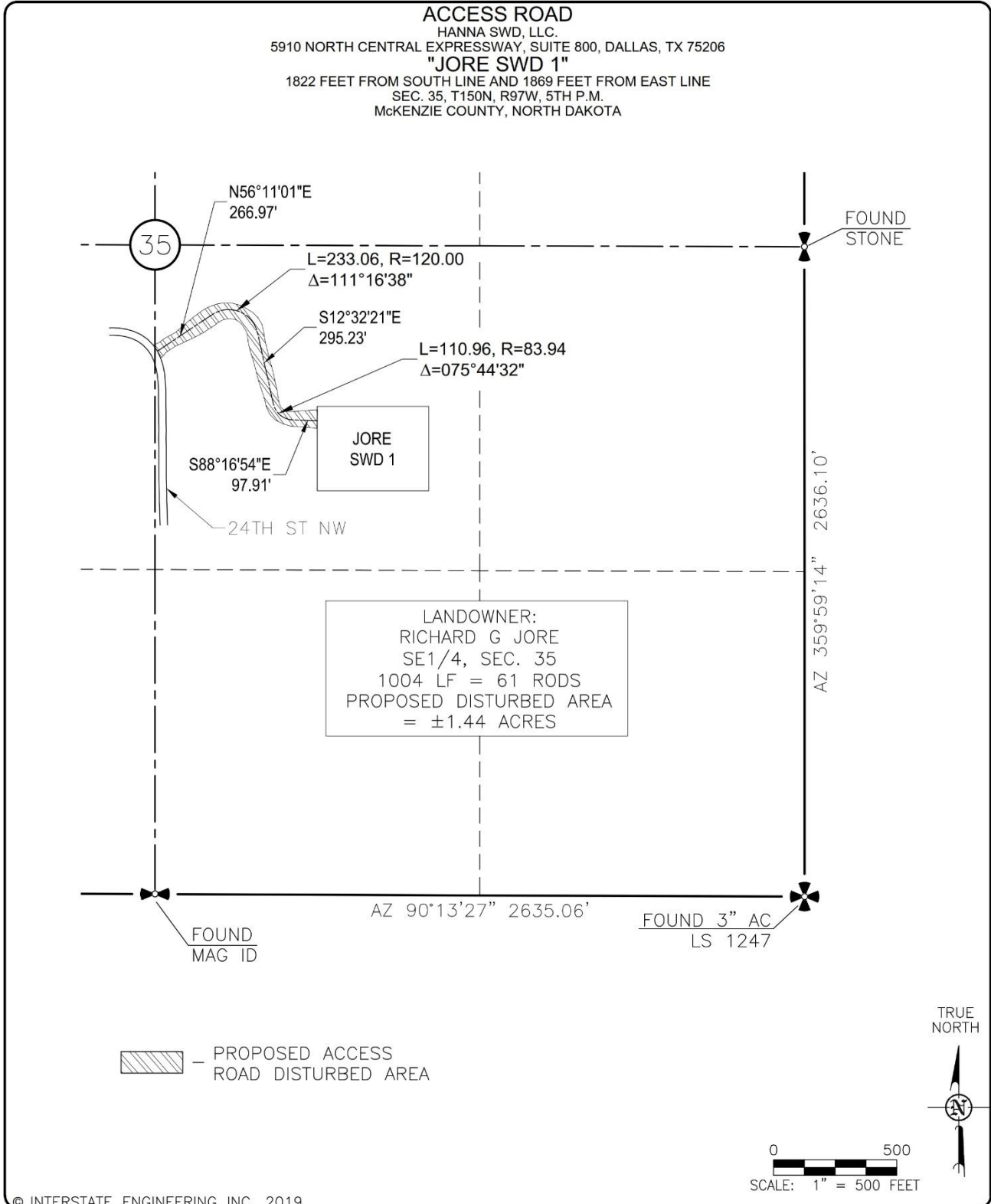
Tank Capacity and Berm Displacement										
Qty	Tank Purpose	Tank Size	Tank Capacity (Bbls)	Capacity Subtotal (Bbls)	Tank Radius (Ft)	Tank Area (Sq Ft)	Tank Displacement (Cubic Ft)	Tank Displacement (Bbls)	Displacement Subtotal (Bbls)	Berm Depth
1	De-Sanding	10'x35'	490	490	5	79	237	42	42	3
1	Separator	15'6"x30'	1000	1,000	7.75	189	567	101	101	
2	Oil	12'x25'	500	1,000	6	113	339	60	120	
1	Saltwater	30'x24'	3000	3,000	15	707	2121	378	378	
Total Tank Capacity >>			5,490				Total Tank Displacement >>	641		



Schematic of Traffic Flow

JORE SWD 1- Hanna SWD, LLC
 NWSE Section 35-150-97
 North Fork Field-McKenzie County, ND

**** The proposed JORE SWD 1 will be a limited use, pipeline-only facility. Traffic will consist of one or two visits a day from staff to monitor the site. It is Hanna SWD, LLC's expectation that a traffic flow diagram detailing a staging area is not required.



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6
 SHEET NO.

INTERSTATE ENGINEERING
 Professionals you need, people you trust

Interstate Engineering, Inc.
 P.O. Box 266
 141 2nd Avenue Southwest
 Belfield, North Dakota 58622
 Ph (701) 575-2247
 Fax (701) 575-2251
 www.iengi.com
 Other offices in Minnesota, Montana and South Dakota

ACCESS ROAD
 HANNA SWD, LLC.
 SEC. 35, T150N, R97W, 5TH P.M.
 MCKENZIE COUNTY, NORTH DAKOTA

Drawn By: JDM
 Checked By: RLP
 Project No.: S20-09-007
 Date: FEB. 2020

Revision No.	Date	By	Description

Liner Specification Sheet

JORE SWD 1- Hanna SWD, LLC
 NWSE Section 35-150-97
 North Fork Field-McKenzie County, ND

ArmorLiner™ 30 15.6 OZ GEOMEMBRANE

INTERTAPE POLYMER GROUP® TECHNICAL DATA SHEET

DESCRIPTION

A heavyweight fabric incorporating a special weave pattern to enhance thickness, flatness, and tear properties. The coating recipe is designed to improve toughness and abrasion resistance.

FABRIC SPECIFICATIONS

Weave: Woven black HDPE scrim
 Coating: LDPE, 5.5 mil average each side (130 g/m²/side)
 Color: White, black or other colored coatings available
 Weight: 15.6 oz/yd² (528g/m²) +/- 5 %

ROLL SPECIFICATIONS

Cores: 4 inch I.D. or 5 inch I.D. available
 Width: Up to 144 in (-0, +2.5) as ordered
 Length: Minimum 250 yds/roll; up to 1000 yds/roll

These values are typical data and are not intended as limiting specifications.



100 Paramount Drive, Suite 300 | Sarasota, FL 34232 | USA
 Customer Service: 800.IPG.8273 | 800.474.8273
 Technical Service (Canada): 800.565.4533
 Technical Service (US): 800.565.1450
 www.itape.com | info@itape.com

PERFORMANCE PROPERTIES

The following data are typical values based on ASTM standard tests. This data should not be considered specification.

Thickness ASTM D1777	Nominal 30mil (0.75mm), ± 10%
Grab Tensile (N) ASTM D7004	MD 345 lb (1532) / TD 420 lb (1865)
Strip Tensile (N/5cm) ASTM D7003	MD 235 lb/in (2087) / TD 300 lb/in (2664)
Tongue Tear –large scale (N) ASTM D5884	MD 50 lb (222) / TD 55 lb (244)
Mullen Burst ASTM D751	700 psi 4823 kPa
MVTR ASTM E96 Proc. BW	0.17 g/m ² ·24hr (0.02 perms)
Hydraulic Conductivity (Permeability) Calculated from MVTR	1.07 x 10 ⁻¹² cm/s
Hydrostatic Resistance ASTM D751	610 psi 4196 kPa
Puncture Resistance ASTM D4833	202 lb 900 N
Carbon Black Content ASTM D4218	7.5%
Carbon Black Dispersion ASTM D5596	Category 1
Dimensional Stability ASTM D1204	MD -2.8% / TD -1.5%
Low Temperature Flex ASTM D2136	MD&TD: Pass @ -65°C (-85°F)
Seam Strength (shear), min. ASTM D7747	Seam shear should be >80% of the strip tensile of the base fabric.
Seam Strength (peel), min. ASTM D413	4 lb/in / 35 N/5cm
Accelerated UV Weathering¹ ASTM G151 ASTM G154	>90 % strength retention after 2000 hrs exposure @ 0.77 W/m ² /nm, or 1200 hrs exposure @ 1.35 W/m ² /nm

¹ Q.U.V [A-340 Lamps]; 8 hrs UV @ 60°C; 4hrs condensation @ 50°C

While we believe them to be reliable, the statements and information herein are only for general guidance and are not warrants or guarantees for accuracy and completeness. The user must, by test or otherwise, determine suitability for this purpose. There is no warranty of fitness for a particular purpose. Our standard term and conditions of sale apply exclusively to all orders, and all liability for damages of any kind, including consequential, exceeding purchase price is excluded. No one is authorized by us to make oral warranties. We reserve the right to make changes without notice or obligation in our products and publications.

EFFECTIVE: 2/14

Contact your IPG representative for warranty details.



**** A 30mil liner is proposed to be installed under the primary tank containment of the proposed JORE SWD 1 facility

Approach Permit for Facility

JORE SWD 1- Hanna SWD, LLC
 NWSE Section 35-150-97
 North Fork Field-McKenzie County, ND

McKENZIE COUNTY APPROACH PERMIT

Permit HS200207RR

PERMIT TO CONSTRUCT AN APPROACH TO A COUNTY MAINTAINED ROAD

Revised Application Effective May 12, 2014

Hanna SWD, LLC

of

5910 North Central Expressway, Suite 800 Dallas, TX 75206

Approach Owner

Address, City, State & Zip

	Road where approach will be located	Section	Township (N)	Range (W)	Approach Type	If Multifamily, how many units? OR How many trucks per day?	For Official Use Only (Fee)
Approach 1	115M Ave NW	35	150	97	OP	1	500.00
Approach 2							
Total Fee:							500.00

Pipeline-only saltwater well with no traffic. Apprx. staked coordinates 47.766785 -103.058322.

APPROACH USE

Farm / Field Access (FF)

Limited use. Access to farm land or a field.

Residential- Single Family (SF)

Moderate use. Access to a single family home or farm.

Residential- Multi Family (MF)

High use. Access to multiple homes, farms, temporary housing including work camps.

Commercial (CM)

High truck use. Access to a commercial/industrial installation.

Oil Pad (OP)

Moderate! truck use. Access to an Oil Pad.

Site Name: JORE SWD 1

Email Address: tom@midcongroup.com

Rich Rehm, COO

7014847106

Printed Name of Authorized Agent of the Contractor or Approach Owner

Telephone Number



PAID

WHERE SHOULD THE APPROVED PERMIT BE SENT TO:

Hanna SWD, LLC

7014847106

Approach Owner or Agent Name for Approach Owner

Telephone Number

Address

5910 North Central Expressway, Suite 800

Address

Dallas, TX 75206

City, State & Zip Code

The Contractor must comply with all terms and conditions stated herein, especially the minimum engineering standards. Failure to comply with this CONDITIONAL CONSENT shall cause the consent to be rescinded and the Contractor must remove the approach from the right-of-way immediately or be responsible for the costs incurred by the County in removing the same. The County specifically reserves the right to remove the approach from right-of-way for non-compliance and reimbursement will be made to the County by the Contractor for doing the same.



Approach Permit for Facility (cont.)

JORE SWD 1- Hanna SWD, LLC
NWSE Section 35-150-97
North Fork Field-McKenzie County, ND

Terms and Conditions

Approach Specs

Top width: 24' minimum- 40' maximum

8:1 Minimum Inslopes Required

Black Dirt & Seeding* Required

Signs (if required)

Culvert (if required)

Applicant responsibility to

conduct hydrology study

to determine culvert size

Runoff Area (if required)

*County Approved Grass Seed Mix- Check with owner before using

Seed Mixture Per Live Seed

Grass Species lb/acre

Fairway Crested Wheat Grass 6

Slender Wheat Grass" 4

Russian Wild Rye 2

Oats 15

46-0-0 Fertilizer 20

" Pubescent Wheat Grass may be substituted

Approach Location Rules

- Approaches must be staked prior to review. Any approach without a stake will be assessed a fee of \$200. No exceptions.
- Any unauthorized approaches will be assessed a fine of \$5,000
 - No building of approaches prior to approval
 - No use of existing change of use approach without approval
- Approaches must be a minimum of 500 ft. apart from each other
- Approaches must be a minimum of 500 ft. away from the junction of county roads and state highways.
- No more than 4 approaches per mile, per side of the road
- The county recommends culverts at a minimum size of 18 inch; however a hydrology study will have to be conducted by the applicant to determine the proper size for 25 year flood event. The county is not responsible for improper culvert installation.
- Applications must include map/plat to proposed location. Any application that does not have maps/plats of location will not be reviewed.
- Construction of approach must happen within 1 year or applicant must reapply.

Consent to construct an approach to a county maintained road is granted on these terms and conditions:

1. The Contractor must pay for all damage to the existing road caused by his activities.
2. The Contractor is responsible for any and all claims of damage, personal injury, or bodily injury that might result from their activities in McKenzie County. Furthermore, the Contractor agrees to indemnify and hold harmless McKenzie County for any and all claims of damage, either personal injury or property or any type of claim for damages of any nature whatsoever, whether valid or invalid, that is made against McKenzie County on account of the activities conducted by the Contractor.
3. The minimum road top width shall be 24 feet with adequate surfacing applies.
4. If required, a culvert sized adequately for a 25 year flood event shall be installed.
5. A clear sight stopping distance for the posted speed limit shall be used as a minimum clear sight distance.
6. If the approach will be used by the general public (as a section line road) a run off on the opposite side will be required. Signing will be required as shown in the current version of the "Manual of Uniform Traffic Control Devices". The installation and maintenance of the signs are the responsibility of the Contractor.
7. Any intersection that may constitute a hazard shall require dangerous intersection or other warning signs. These signs may be required after the construction of the approach if it proves to be a hazard to the public.
8. The approach shall be constructed with good workmanship so as to leave a neat appearing project.
9. Once completed the entire disturbed area with the exception of the road top shall be covered with black dirt and seeded with an approved seed mix.
10. Any disturbed area within the right-of-way shall be rehabilitated and seeded using a approved seed mix.
11. Maps and construction plans shall be included with this application.
12. Submit application once approach has been staked

AUTHORIZED AGENT OF THE CONTRACTOR

I, the undersigned, being an authorized agent of the Contractor described in the above, do hereby agree on behalf of the Contractor that all terms and conditions listed will be complied with, and any assignment of the approach described above shall include and assignment of this liability to comply with the terms and conditions as stated herein.

Signature of Authorized Agent of the Contractor or Approach Owner

2/7/19

Date

Heilman, Tracy A.

From: Heilman, Tracy A.
Sent: Friday, February 28, 2020 9:55 AM
To: 'Faller, Krista'; Lamb, Marcia D.; Herbel, Lisa M.; Tivis, Sandra K.; Jensen, Jeanie S.; Jastrzebski, Gayle M.; Dolezal, Tracey K.; Sperry, Tamra L.; Schmidt, Jeri G.; Carpenter, Darlene K.; Johnsrud, Erica; Knutson, Beth A.; Brost, Shana L.; Pappa, Stephanie; 'heidik@co.mountrail.nd.us'; Pollman, LeAnn M.; Buzalsky, Lorrie; Haag, Kay A.; 'devra.smestad@wardnd.com'; Innis, Beth M.; 'CityofKilldeer@killdeer.com'; 'vawnitabest@gmail.com'
Cc: Kadrmas, Bethany R.
Subject: NDIC Notice - 3/25/20 and 3/26/20 Dockets
Attachments: CountyNoticeLetterhead-Mar26.pdf; CountyNoticeLetterhead-Mar25.pdf; docket032520.pdf; docket032620.pdf

Please see the attached letters. If you are not the appropriate recipient, or if you would like this electronic notice sent to an additional email address, please let me know.

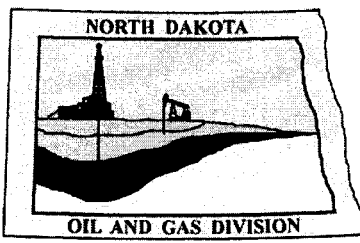
Tracy Heilman

Administrative Assistant, Oil and Gas Division

701.328.8038 • theilman@nd.gov • www.dmr.nd.gov



701.328.8020 • 600 E Boulevard Ave Dept. 405 • Bismarck, ND 58505



Oil and Gas Division

Lynn D. Helms - Director Bruce E. Hicks - Assistant Director

Department of Mineral Resources

Lynn D. Helms - Director

North Dakota Industrial Commission

www.dmr.nd.gov/oilgas/

February 28, 2020

Via Electronic Mail

North Dakota County Auditors of Adams, Billings, Bottineau, Bowman, Burke, Divide, Dunn, Golden Valley, Hettinger, McHenry, McKenzie, McLean, Mercer, Mountrail, Renville, Slope, Stark, Ward, Williams

RE: Case No(s). 28384, 28220, 28221, 28223, 28421, 28422, 28423, and 28424

Dear Auditors:

The above captioned cases are docketed for hearing on March 26, 2020. Written notice is being provided for cases pertaining to disposal of saltwater and oilfield wastes. Attached is a copy of the March 26, 2020 docket.

If you have any questions, do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Tracy Heilman". The signature is written in a cursive style with a long horizontal flourish at the end.

Tracy Heilman
Administrative Assistant



**BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA**

CASE NO. 28424

Application of Hanna SWD, LLC pursuant to Section 43-02-03-88.1 of the N.D. Admin. Code for an order of the Commission authorizing the drilling of a salt water disposal well to be located in the NW/4SE/4 of Section 35, Township 150 North, Range 97 West, North Fork Field, McKenzie County, North Dakota, in the Dakota Group pursuant to chapter 43-02-05 of the N.D.A.C., and providing such other and further relief.

APPLICATION OF HANNA SWD, LLC

Hanna SWD, LLC ("Hanna SWD"), for its application to the North Dakota Industrial Commission ("Commission"), respectfully states as follows:

1.

That Hanna SWD is the owner of an interest in the surface estate in the Northwest Quarter Southeast Quarter (NW/4SE/4) of Section 35, Township 150 North, Range 97 West, McKenzie County, North Dakota ("Section 35").

2.

That such lands are within the boundaries of the North Fork Field.

3.

That pursuant to Chapter 43-02-05 of the North Dakota Administrative Code, Hanna SWD is desirous of drilling a well in the NW/4SE/4 of Section 35 for the purposes of utilizing said well for the underground injection of fluids into the Dakota Group produced from wells in the North Fork Field.

4.

That attached herewith and marked Exhibit A is a list of all landowners within the area of review.

5.

That Hanna SWD requests that the Commission enter its order authorizing the underground injection of fluids into the Dakota Group in a well located in the NW/4SE/4 of Section 35, Township 150 North, Range 97 West, North Fork Field, McKenzie County, North Dakota, pursuant to Chapter 43-02-05 of the North Dakota Administrative Code and providing such other and further relief as the Commission deems necessary.

WHEREFORE, Hanna SWD requests the following:

- (a) That this matter be set for the regularly scheduled March 2020 hearings of the Commission;
- (b) That the Commission issue its order granting the relief requested and such other and further relief as the Commission may deem appropriate; and
- (c) That pursuant to Section 43-02-03-88.2 of the North Dakota Administrative Code, Hanna SWD's witnesses in this matter be allowed to participate by telephonic means.

DATED this 25 day of February, 2020.

FREDRIKSON & BYRON, P.A.

By [Signature]
LAWRENCE BENDER, ND Bar #03908
Attorneys for Applicant, Hanna SWD, LLC
1133 College Drive, Suite 1000
P. O. Box 1855
Bismarck, ND 58502-1000
(701) 221-8700

STATE OF NORTH DAKOTA)
) ss.
COUNTY OF BURLEIGH)

LAWRENCE BENDER, being first duly sworn on oath, deposes and says that he is the attorney for the applicant named herein, that he has read the foregoing application, knows the contents thereof, and that the same is true to the best of this affiant's knowledge, and belief.

[Signature]
LAWRENCE BENDER

Subscribed and sworn to before me this 25 day of February, 2020.

LYN ODDEN
Notary Public
State of North Dakota
My Commission Expires June 26, 2023

[Signature]
Notary Public
Burleigh County, North Dakota
My Commission Expires:

EXHIBIT A

**SURFACE OWNERS WITHIN 1/4 MILE OF JORE SWD 1 WELL
NW/4SE/4 OF SECTION 35-T150N-R97W**

RICHARD G JORE
2502 BEAVER CREEK RD
WATFORD CITY, ND 58854

ABRAXAS PETROLEUM CORPORATION
18803 MEISNER DRIVE
SAN ANTONIO TX 78258

US FOREST SERVICE
MCKENZIE RANGER DISTRICT
1905 S MAIN STREET
WATFORD CITY ND 58854

ND DEPT OF TRUST LANDS
1707 N 9TH STREET
BISMARCK ND 58501-5523

69408225 . 1

BEFORE THE INDUSTRIAL COMMISSION

OF THE STATE OF NORTH DAKOTA

CASE NO. _____

Application of Hanna SWD, LLC pursuant to Section 43-02-03-88.1 of the N.D. Admin. Code for an order of the Commission authorizing the drilling of a salt water disposal well to be located in the NW/4SE/4 of Section 35, Township 150 North, Range 97 West, North Fork Field, McKenzie County, North Dakota, in the Dakota Group pursuant to chapter 43-02-05 of the N.D.A.C., and providing such other and further relief.


NOTICE OF HEARING

PLEASE TAKE NOTICE that Hanna SWD, LLC ("Hanna SWD") has made application to the North Dakota Industrial Commission ("Commission") for an order as set forth above. A hearing will be held at 9:00 a.m. on March 26, 2020, at the Department of Mineral Resources Conference Room, Oil and Gas Division, 1000 East Calgary Avenue, Bismarck, North Dakota, to consider the application of Hanna SWD and to consider comments or objections directed to the Commission.

For any questions, please contact either Mr. Nick Johnson, a representative of Hanna SWD at (214) 699-4820, or Ms. Ashleigh Day a representative of the Commission, Oil and Gas Division, at (701) 328-8020.

Dated this 25 day of February, 2020.

FREDRIKSON & BYRON, P.A.

By 
LAWRENCE BENDER, ND Ba. #03908
Attorneys for Applicant, Hanna SWD, LLC
1133 College Drive, Suite 1000
P. O. Box 1855
Bismarck, ND 58502-1000
(701) 221-8700

**BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA**

CASE NO. _____

Application of Hanna SWD, LLC pursuant to Section 43-02-03-88.1 of the N.D. Admin. Code for an order of the Commission authorizing the drilling of a salt water disposal well to be located in the NW/4SE/4 of Section 35, Township 150 North, Range 97 West, North Fork Field, McKenzie County, North Dakota, in the Dakota Group pursuant to chapter 43-02-05 of the N.D.A.C., and providing such other and further relief.

AFFIDAVIT OF SERVICE BY MAIL

STATE OF NORTH DAKOTA)
) ss.
COUNTY OF BURLEIGH)

Amber Nelson, being first duly sworn, deposes and says that on the 24 day of February, 2020, she served the attached:

Notice of Hearing and Application of Hanna SWD, LLC

by placing a true and correct copy thereof in an envelope addressed as follows:

**RICHARD G JORE
2502 BEAVER CREEK RD
WATFORD CITY, ND 58854**

**ABRAXAS PETROLEUM CORPORATION
18803 MEISNER DRIVE
SAN ANTONIO TX 78258**

**US FOREST SERVICE
MCKENZIE RANGER DISTRICT
1905 S MAIN STREET
WATFORD CITY ND 58854**

**ND DEPT OF TRUST LANDS
1707 N 9TH STREET
BISMARCK ND 58501-5523**

and depositing the same, with postage prepaid, in the United States mail at Bismarck, North Dakota.

Amber Nelson

Amber Nelson

Subscribed and sworn to before me this *26* day of February, 2020.

Lyn Odden

Notary Public

My Commission expires:
69408756.1

LYN ODDEN
Notary Public
State of North Dakota
My Commission Expires June 26, 2023



Fredrikson
& BYRON, P.A.

February 25, 2020

Mr. Bruce Hicks
Assistant Director
North Dakota Industrial Commission
Oil and Gas Division
600 East Boulevard
Bismarck, North Dakota 58505-0310

**RE: APPLICATION OF HANNA
SWD, LLC MARCH 2020
DOCKET**

Dear Mr. Hicks:

Please find enclosed herewith for filing the following:

1. APPLICATION OF HANNA SWD, LLC;
2. NOTICE OF HEARING; and
3. AFFIDAVIT OF SERVICE BY MAIL regarding service of application and notice of hearing on surface owners

As you will note, pursuant to N.D. Admin. Code § 43-02-03-88.2, Hanna SWD requests that its witnesses be allowed to participate at the hearing by telephonic means.

Should you have any questions, please advise.

Sincerely,

LAWRENCE BENDER

LB/leo
Enclosure
cc: Ms. Ashleigh Day - (w/enc.)
Mr. Tom Schumacher - (w/enc.)

69408491.1

Attorneys & Advisors
main 701.221.8700
fax 701.221.8750
fredlaw.com

Fredrikson & Byron, P.A.
1133 College Drive, Suite 1000
Bismarck, North Dakota
58501-1215

**BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA**

CASE NO. _____

Application of Hanna SWD, LLC pursuant to Section 43-02-03-88.1 of the N.D. Admin. Code for an order of the Commission authorizing the drilling of a salt water disposal well to be located in the NW/4SE/4 of Section 35, Township 150 North, Range 97 West, North Fork Field, McKenzie County, North Dakota, in the Dakota Group pursuant to chapter 43-02-05 of the N.D.A.C., and providing such other and further relief.

AFFIDAVIT OF SERVICE BY MAIL

STATE OF NORTH DAKOTA)
) ss.
COUNTY OF BURLEIGH)

Amber Nelson, being first duly sworn, deposes and says that on the 26 day of February, 2020, she served the attached:

LETTER

by placing a true and correct copy thereof in an envelope addressed as follows:

**ABRAXAS PETROLEUM CORPORATION
18803 MEISNER DRIVE
SAN ANTONIO TX 78258**

and depositing the same, with postage prepaid, in the United States mail at Bismarck, North Dakota.



Amber Nelson

Subscribed and sworn to before me this 26 day of February, 2020.

LYN ODDEN
Notary Public
State of North Dakota
My Commission Expires June 26, 2023



Notary Public
My Commission expires:
69460438.1

Received

February 27, 2020

FEB 27 2020

ND Oil & Gas Division

HAND DELIVERED

Mr. Bruce Hicks
Assistant Director
North Dakota Industrial Commission
Oil and Gas Division
600 East Boulevard
Bismarck, North Dakota 58505-0310

**RE: APPLICATION OF HANNA
SWD, LLC MARCH 2020
DOCKET**

Dear Mr. Hicks:

Please find enclosed herewith for filing an AFFIDAVIT OF SERVICE BY MAIL regarding service of a letter on the operator.

Should you have any questions, please advise.

Sincerely,


LAWRENCE BENDER

LB/leo
Enclosure
cc: Ms. Ashleigh Day - (w/enc.)
Mr. Tom Schumacher - (w/enc.)

69462446.1

Attorneys & Advisors
main 701.221.8700
fax 701.221.8750
fredlaw.com

Fredrikson & Byron, P.A.
1133 College Drive, Suite 1000
Bismarck, North Dakota
58501-1215

**NOTICE OF HEARING
N.D. INDUSTRIAL COMMISSION
OIL AND GAS DIVISION**

The North Dakota Industrial Commission will hold a public hearing at 9:00 a.m. Thursday, March 26, 2020, at the N.D. Oil & Gas Division, 1000 East Calgary Ave., Bismarck N.D. At the hearing the Commission will receive testimony and exhibits. Persons with any interest in the cases listed below, take notice.

PERSONS WITH DISABILITIES: If at the hearing you need special facilities or assistance, contact the Oil and Gas Division at 701-328-8038 by Friday, March 13, 2020.

STATE OF NORTH DAKOTA TO:

Case No. 28368: Application of Peregrine Petroleum Partners, Ltd. for an order amending the field rules for the Flat Top Butte and/or Rough Rider-Bakken Pool to create and establish an overlapping 1600-acre spacing unit comprised of the S/2 of Section 2 and all of Sections 11 and 14, T.145N., R.101W., McKenzie County, ND, authorizing the drilling of two horizontal wells on said overlapping 1600-acre spacing unit and such other relief as is appropriate.

Case No. 28369: Application of for Ovinity Production Inc. an order amending the field rules for the South Tobacco Garden-Bakken Pool, McKenzie County, ND, to alter and amend the definition of the stratigraphic limits of the pool and such other relief as is appropriate.

Case No. 28373: Application of EOG Resources, Inc. for an order amending the field rules for the Clarks Creek-Bakken Pool to alter the setback requirement for the west boundary of an existing 1440-acre spacing unit comprised of Sections 13, 24 and 25, less Lots 1, 2, 3 and 4 in each section, T.151N., R.95W., McKenzie County, ND, from 500 feet to 100 feet, and such other relief as is appropriate.

Case No. 28377: Application of Nine Point Energy, LLC for an order amending the field rules for the Briar Creek-Bakken Pool, Williams and McKenzie Counties, ND, to create and establish a 1920-acre spacing unit comprised of Sections 5, 8 and 17, T.152N., R.104W., authorizing the drilling of a total not to exceed eight wells on said proposed 1920-acre spacing unit, and such other relief as is appropriate.

Case No. 28379: Application of WPX Energy Williston, LLC for an order amending the field rules for the Squaw Creek-Bakken Pool, McKenzie County, ND, to create and establish two overlapping 1280-acre spacing units comprised of Sections 7 and 8; and Sections 8 and 9, T.149N., R.94W., authorizing the drilling of a horizontal well on or near the section line between existing spacing units of each proposed overlapping 1280-acre spacing unit and such other relief as is appropriate.

Case No. 28384: On a motion of the Commission to review the authorization and permit under Order No. 28454 for Hydroil Solutions LLC to operate a treating plant located in the SWSW of Section 7, T.152N., R.101W., McKenzie County, ND, known as the Hydroil Solutions McKenzie Treating Plant No. 1 (Facility No. 700140-01) and such other relief as is appropriate.

Case No. 28386: Application of Continental Resources, Inc. for an order amending the field rules for the Catwalk-Bakken Pool, Williams and McKenzie Counties, ND, to create and establish two overlapping 3200-acre spacing units comprised of all of Sections 7, 8, 17 and 18 and the W/2 of Sections 9 and 16; and all of Sections 19, 20, 29 and 30 and the W/2 of Sections 21 and 28, T.154N., R.100W., authorizing the drilling of a horizontal well on or near the section line between the existing spacing units of each proposed overlapping 3200-acre spacing unit, and such other relief as is appropriate.

AFFIDAVIT OF PUBLICATION

MAR - 6 2020

ND OIL & GAS DIVISION

STATE OF NORTH DAKOTA)
County of McKenzie) ss

I, Cathleen Naeb being first duly sworn, on my oath, say that I am the Production Manager of the McKenzie County Farmer, a weekly newspaper of general circulation, published in the city of Watford City, in said county and state, and that the advertisement headed:

ND Industrial Commission Oil and Gas Division - Notice of

March 26, 2020 Hearing

a printed copy of which is here annexed, was published in the regular and entire issue of said newspaper during the period and time of publication, and that the notice was published in the newspaper proper, and not in a supplement, once a week for one week, as follows:

Straight Matter Lines	<u>332</u>		
First Time Line Rate	<u>91¢</u>	<u>\$302.12</u>	<u>03-04, 2020</u>
Subsequent Line Rates	<u>91¢</u>		
	<u>91¢</u>		
Column Inches			
First Time Inch Rate	<u>\$6.71</u>		
Subsequent Inch Rates	<u>\$6.71</u>		

Total Cost of Legal, \$ 302.12

Cathleen Naeb

Subscribed and sworn to before me this 4th day of March

A.D. 2020

Notary Public,
State of North Dakota

Lisa K. Shipman

LISA K. SHIPMAN
Notary Public
State of North Dakota
My Commission Expires July 9, 2022

My Commission Expires th

Case No. 28388: Application of Continental Resources, Inc. for an order amending the field rules for the Sanish-Bakken Pool, McKenzie and Mountrail Counties, ND, to create and establish two overlapping 1680-acre spacing units comprised of all of Sections 16 and 17 and the W/2, W/2 E/2 of Section 15; and all of Sections 20 and 21 and the W/2, W/2 E/2 of Section 22, T.153N., R.93W., authorizing the drilling of a total not to exceed fourteen wells on each proposed 1680-acre spacing unit, and such other relief as is appropriate.

Case No. 28053: (Continued) In the matter of the authority of Equinor Energy LP, to recover from Versa Energy, LLC as an owner of a working interest in the Stallion 33-28 #1H well (File No. 21431) presently producing in paying quantities from Sections 28 and 33, T.151N., R.101W., McKenzie County, ND, a risk penalty as provided in NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28220: (Continued) Application of WM of North Dakota Energy Disposal Solutions, LLC for an order pursuant to NDAC § 43-02-03-51 et seq. authorizing the construction of a treating plant to be located in the S/2 SE/4 of Section 35, T.151N., R.96W., McKenzie County, ND, and such other relief as is appropriate.

Case No. 28221: (Continued) Application of WM of North Dakota Energy Disposal Solutions, LLC for an order authorizing the drilling of a saltwater disposal well to be utilized for fracture injection into the Dakota Group in a well to be known as the Blue Buttes 1 well, to be located in the NENE of Section 35, T.151N., R.96W., Blue Buttes Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

Case No. 28222: (Continued) A motion of the Commission to determine the amount of bond to be required of WM of North Dakota Energy Disposal Solutions, LLC for the Blue Buttes 1 well to be drilled in the NENE of Section 35, T.151N., R.96W., Blue Buttes Field, McKenzie County, ND, to be utilized for fracture injection into the Dakota Group, pursuant to NDAC § 43-02-03-15, and such other relief as is appropriate.

Case No. 28223: (Continued) Application of WM of North Dakota Energy Disposal Solutions, LLC for an order authorizing the drilling of a saltwater disposal well to be utilized for fracture injection into the Dakota Group in a well to be known as the Blue Buttes 2 well, to be located in the SWNE of Section 35, T.151N., R.96W., Blue Buttes Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

Case No. 28224: (Continued) A motion of the Commission to determine the amount of bond to be required of WM of North Dakota Energy Disposal Solutions, LLC for the Blue Buttes 2 well to be drilled in the SWNE of Section 35, T.151N., R.96W., Blue Buttes Field, McKenzie County, ND, to be utilized for fracture injection into the Dakota Group, pursuant to NDAC § 43-02-03-15, and such other relief as is appropriate.

Case No. 28390: Application of Ovitiv Production Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 28 and 33, T.154N., R.96W., Grinnell-Bakken Pool, Williams and McKenzie Counties, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28391: Application of Ovitiv Production Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 28, 29, 32 and 33, T.154N., R.96W., Grinnell-Bakken Pool, Williams and McKenzie Counties, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28392: Application of Ovitiv Production Inc. for an order authorizing the drilling, completing and producing of a total not to exceed fourteen wells on an existing 1280-acre spacing unit described as Sections 28 and 33, T.154N., R.96W., Grinnell-Bakken Pool, McKenzie and Williams Counties, ND, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 28393: Application of Ovitiv Production Inc. for an order authorizing the drilling, completing and producing of a total not to exceed fourteen wells on two existing 1280-acre spacing units described as Sections 30 and 31, T.151N., R.98W.; and Sections 6 and 7, T.150N., R.98W., Siverston-Bakken Pool, McKenzie County, ND, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 28394: Application of Ovitiv Production Inc. for an order authorizing the drilling, completing and producing of a total not to exceed fourteen wells on three existing 1280-acre spacing units described as Sections 2 and 11; Sections 5 and 8; and Sections 6 and 7, T.150N., R.99W., Tobacco Garden-Bakken Pool, McKenzie County, ND, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 28395: Application of XTO Holdings, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 20 and 21, T.149N., R.97W., North Fork Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28396: Application of XTO Holdings, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 13 and 24, T.149N., R.98W., and Sections 18 and 19, T.149N., R.97W., North Fork-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28397: Application of XTO Holdings, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 16, 17, 20 and 21, T.149N., R.97W., North Fork-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28398: Application of XTO Holdings, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 20, 21, 28 and 29, T.149N., R.97W., Haystack Butte-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28402: Application of Continental Resources, Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as all of Sections 19, 20, 29 and 30 and the W/2 of Sections 21 and 28, T.154N., R.100W., Catwalk and/or Last Chance-Bakken Pool, Williams and McKenzie Counties, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28404: Application of Continental Resources, Inc. as provided for in NDAC § 43-02-03-88.1 for an order allowing the production from the following described wells: Wiley 13-25HSL2 well (File No. 37192), and the Wiley 14-25HSL well (File No. 37193), to be produced into the Bailey-Wiley Central Tank Battery or production facility, all located in Section 25, T.150N., R.97W., Pershing Field, McKenzie County, ND, pursuant to NDAC § 43-02-03-48.1 and such other relief as is appropriate.

Case No. 28408: Application of EOG Resources, Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as the W/2 of Sections 17 and 20 and the E/2 of Sections 18 and 19, T.151N., R.94W., Antelope-Sanish Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28409: Application of EOG Resources, Inc. provided for in NDAC § 43-02-03-88.1 for an order allowing the production and tank vapors from the following described wells: Clarks Creek 63-07H well (File No. 34678); Clarks Creek 65-07HX well (File No. 37356); and, Clarks Creek 151-0720H well (File No. 34380), to be produced and to allow all fluids including vapors to be commingled into the Clarks Creek Section 7 SESE 2 Central Facility Central Tank Battery or production facility, all located in Section 7, T.151N., R.94W., McKenzie County, ND, pursuant to NDAC § 43-02-03-48.1 and such other relief as is appropriate.

Case No. 28410: Application of WPX Energy Williston, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 7 and 8, T.149N., R.94W., Squaw Creek-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28411: Application of WPX Energy Williston, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 8 and 9, T.149N., R.94W., Squaw Creek-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28412: Application of WPX Energy Williston, LLC for an order authorizing the drilling, completing and producing of a total not to exceed eight wells on an existing 640-acre spacing unit described as Section 8, T.149N., R.94W., Squaw Creek-Bakken Pool, McKenzie County, ND, and such other relief as is appropriate.

Case No. 28424: Application of Hanna SWD, LLC for an order pursuant to NDAC § 43-02-03-88.1 authorizing saltwater disposal into the Dakota Group in the Jore SWD 1 well, NWSE Section 35, T.150N., R.97W., North Fork Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

Signed by,
Doug Burgum, Governor
Chairman, NDIC
(March 4, 2020)
-mcf-

*** Proof of Publication ***

State of North Dakota)
) SS:
County of Burleigh)

Before me, a Notary Public for the State of North Dakota personally appeared Jill Lindsay who being duly sworn, deposes and says that he (she) is the Clerk of Bismarck Tribune Co., and that the publication(s) were made through the

Bismarck Tribune on the following dates:

3/5/2020

Signed Jill Lindsay

OIL & GAS DIVISION

600 E BLVD AVE #405

BISMARCK, ND 58505

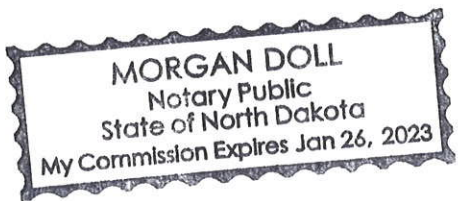
ORDER NUMBER 2506

Sworn and subscribed to before me this 6th day of

March 2020

Morgan Doll
Notary Public in and for the State of North Dakota

M



Section: Legals

Category: 5380 Public Notices

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MAR 11 2020

ND Oil & Gas Division

NOTICE OF HEARING
N.D. INDUSTRIAL COMMISSION
OIL AND GAS DIVISION
The North Dakota Industrial Commission will hold a public hearing at 9:00 a.m. Thursday, March 26, 2020, at the N.D. Oil & Gas Division, 1000 East Calgary Ave., Bismarck, N.D. At the hearing the Commission will receive testimony and exhibits. Persons with any interest in the cases listed below, take notice.
PERSONS WITH DISABILITIES: If at the hearing you need special facilities or assistance, contact the Oil and Gas Division at 701-328-8038 by Friday, March 13, 2020.
STATE OF NORTH DAKOTA TO:
Case No. 28368: Application of Peregrine Petroleum Partners, Ltd. for an order amending the field rules for the Flat Top Butte and/or Rough Rider-Bakken Pool to create and establish an overlapping 1600-acre spacing unit comprised of the S/2 of Section 2 and all of Sections 11 and 14, T.145N., R.101W., McKenzie County, ND, authorizing the drilling of two horizontal wells on said overlapping 1600-acre spacing unit and such other relief as is appropriate.
Case No. 28369: Application of for Oviniv Production Inc. an order amending the field rules for the South Tobacco Garden-Bakken Pool, McKenzie County, ND, to alter and amend the definition of the stratigraphic limits of the pool and such other relief as is appropriate.
Case No. 28370: Application of Slawson Exploration Co., Inc. for an order for the Big Bend-Bakken Pool, Mountrail County, ND, as follows: (i) create and establish an overlapping 1920-acre spacing unit comprised of Sections 22, 27 and 34, T.152N., R.91W., authorizing a total not to exceed seven wells on said proposed overlapping 1920-acre spacing unit; (ii) amending Order No. 30408 and any other orders of the Commission to reduce the number of wells authorized on an existing 640-acre spacing unit comprised of Section 22, T.152N., R.91W., from a total not to exceed ten wells to a total not to exceed three wells on said existing 640-acre spacing unit; and (iii) amending Order No. 30408 and any other orders of the Commission to reduce the number of wells authorized on an existing 1280-acre spacing unit comprised of Sections 27 and 34, T.152N., R.91W., from a total not to exceed ten wells to a total not to exceed four wells on said existing 1280-acre spacing unit, and such other relief as is appropriate.
Case No. 28371: Application of Slawson Exploration Co., Inc. for an order for the Big Bend-Bakken Pool, Mountrail County, ND, as follows: (i) create and establish an overlapping 2560-acre spacing unit comprised of Section 36, T.152N., R.92W., Sections 31, T.152N., R.91W., Section 1, T.151N., R.92W., and Section 6, T.151N., R.91W., authorizing the drilling of a total not to exceed ten horizontal wells on said proposed overlapping 2560-acre spacing unit; (ii) authorizing the drilling, completing and producing of a total not to exceed ten wells on two existing 1280-acre spacing units described as Sections 24 and 25, T.152N., R.92W.; and Sections 19 and 30, T.152N., R.91W.; and (iii) amend any previous orders for the Big Bend-Bakken Pool to terminate an existing 5120-acre spacing unit comprised of Sections 24, 25, and 36, T.152N., R.92W., Sections 19, 30, and 31, T.152N., R.91W., Section 1, T.151N., R.92W. and Section 6, T.151N., R.91W., and such other relief as is appropriate.

Case No. 28372: Application of Slawson Exploration Co., Inc. for an order for the Big Bend-Bakken Pool, Mountrail County, ND, to create and establish an overlapping 3840-acre spacing unit comprised of Sections 22, 23, 26, 27, 34 and 35, T.152N., R.91W., authorizing the drilling of two horizontal wells on or near the section line between the existing spacing units of said proposed overlapping 3840-acre spacing unit, and such other relief as is appropriate.

Case No. 27932: (Continued) Application of Slawson Exploration Co., Inc. for an order for the Big Bend-Bakken Pool, Mountrail County, ND, as follows: (i) create and establish an overlapping 3840-acre spacing unit comprised of Sections 29, 30, 31 and 32, T.152N., R.92W., and Sections 5 and 6, T.151N., R.92W., authorizing the drilling of a total not to exceed two horizontal wells on or near the section line between the existing spacing units of said proposed overlapping 3840-acre spacing unit, and (ii) amend any previous orders for the Big Bend-Bakken Pool to terminate an existing 1280-acre spacing unit comprised of Sections 29 and 30, T.152N., R.92W., and also terminate an existing 2560-acre spacing unit comprised of Sections 31 and 32, T.152N., R.92W. and Sections 5 and 6, T.151N., R.92W., and such other relief as is appropriate.

Case No. 28373: Application of EOG Resources, Inc. for an order amending the field rules for the Clarks Creek-Bakken Pool to alter the setback requirement for the west boundary of an existing 1440-acre spacing unit comprised of Sections 13, 24 and 25, less Lots 1, 2, 3 and 4 in each section, T.151N., R.95W., McKenzie County, ND, from 500 feet to 100 feet, and such other relief as is appropriate.

Case No. 28374: Application of KODA Resources for an order amending the field rules for the Fertile Valley-Bakken Pool, Divide County, ND, to create and establish eight 1280-acre spacing units comprised of Sections 1 and 12; Sections 2 and 11; Sections 3 and 10; Section 14 and 23; Sections 15 and 22; Sections 26 and 35; and Sections 27 and 34, T.160N., R.103W., and Sections 13 and 24, T.160N., R.102W., authorizing the drilling of a horizontal well on each proposed 1280-acre spacing unit, and such other relief as is appropriate.

Case No. 28375: Application of KODA Resources for an order reinstating temporary spacing for the Grenora-Bakken Pool to create and establish nine 1280-acre spacing units comprised of Sections 1 and 12; Sections 2 and 11; Sections 3 and 10; Sections 13 and 24; Sections 14 and 23; Sections 15 and 22; Sections 25 and 36; Sections 26 and 35; and Sections 27 and 34, T.159N., R.103W., Williams County, ND, authorizing the drilling of a horizontal well on each spacing unit, and such other relief as is appropriate.

Case No. 28376: Application of KODA Resources for an order reinstating proper spacing for the Bar Butte-Bakken Pool to create and establish nine 1280-acre spacing units comprised of Sections 1 and 12; Sections 2 and 11; Sections 3 and 10; Sections 13 and 24; Sections 14 and 23; Sections 15 and 22; Sections 25 and 36; Sections 26 and 35; and Sections 27 and 34, T.159N., R.102W., Williams County, ND, authorizing the drilling of a horizontal well on each spacing unit, and such other relief as is appropriate.

Case No. 28377: Application of Nine Point Energy, LLC for an order amending the field rules for the Briar Creek-Bakken Pool, Williams and McKenzie Counties, ND, to create and establish a 1920-acre spacing unit comprised of Sections 5, 8 and 17, T.152N., R.104W., authorizing the drilling of a total not to exceed eight wells on said proposed 1920-acre spacing unit, and such other relief as is appropriate.

Case No. 28378: Application of WPX Energy Williston, LLC for an order amending the field rules for the Heart Butte-Bakken Pool, Dunn County, ND, to create and establish two overlapping 2560-acre spacing units comprised of Sections 25 and 36, T.148N., R.93W., and Sections 30 and 31, T.148N., R.92W.; and Sections 29, 30, 31 and 32, T.148N., R.92W., authorizing the drilling of a horizontal well on or near the section line between existing spacing units of each proposed overlapping 2560-acre spacing unit, and such other relief as is appropriate.

Case No. 28379: Application of WPX Energy Williston, LLC for an order amending the field rules for the Squaw Creek-Bakken Pool, McKenzie County, ND, to create and establish two overlapping 1280-acre spacing units comprised of Sections 7 and 8; and Sections 8 and 9, T.149N., R.94W., authorizing the drilling of a horizontal well on or near the section line between existing spacing units of each proposed overlapping 1280-acre spacing unit and such other relief as is appropriate.

Case No. 28380: Application of Kraken Oil & Gas, LLC for an order amending the field rules for the Sanish-Bakken Pool, Mountrail County, ND, as follows: (i) create and establish an overlapping 1920-acre spacing unit comprised of Sections 21, 28 and 33, T.154N., R.92W., authorizing the drilling of a total not to exceed nine horizontal wells on said proposed overlapping 1920-acre spacing unit; (ii) create and establish an overlapping 2560-acre spacing unit comprised of Sections 27, 28, 33 and 34, T.154N., R.92W., authorizing the drilling of a horizontal well on or near the section line between the existing spacing units of said proposed overlapping 2560-acre spacing unit; and, (iii) create and establish an overlapping 3840-acre spacing unit comprised of Sections 20, 21, 28, 29, 32 and 33, T.154N., R.92W., authorizing the drilling of a horizontal well on or near the section line between the existing spacing units of said proposed overlapping 3840-acre spacing unit, and such other relief as is appropriate.

Case No. 28381: Application of Kraken Oil & Gas, LLC for an order amending the field rules for the Robinson Lake-Bakken Pool, Mountrail County, ND, to create and establish an overlapping 3840-acre spacing unit comprised of Sections 24, 25 and 36, T.154N., R.93W. and Sections 19, 30 and 31, T.154N., R.92W., authorizing the drilling of a horizontal well on or near the section line between the existing spacing units of said proposed overlapping 3840-acre spacing unit, and such other relief as is appropriate.

Case No. 28382: Application of XTO Energy Inc. for an order amending Order No. 29630 and any other orders of the Commission for the Haystack Butte-Bakken Pool, Dunn County, ND, to eliminate the requirement that a well shall be drilled and completed on a 640-acre spacing unit described as Section 31, T.148N., R.97W., before allowing a section line well to be drilled and completed on an existing overlapping 3840-acre spacing unit described as Sections 19, 20, 29, 30, 31, and 32, T.148N., R.97W., and such other relief as is appropriate.

Case No. 28383: Application of XTO Energy Inc. for an order amending the field rules for the Heart Butte-Bakken Pool, Mountrail and Dunn Counties, ND, to create and establish an overlapping 1280-acre spacing unit comprised of the SW/4 of Section 1, the S/2 of Section 2, the SE/4 of Section 3, the NE/4 of Section 10, the N/2 of Section 11, and the NW/4 of Section 12, T.149N., R.92W., authorizing the drilling of a horizontal well on or near the section line between existing spacing units of said proposed overlapping 1280-acre spacing unit and such other relief as is appropriate.

Case No. 28384: On a motion of the Commission to review the authorization and permit under Order No. 28454 for Hydroil Solutions LLC to operate a treating plant located in the SWSW of Section 7, T.152N., R.101W., McKenzie County, ND, known as the Hydroil Solutions McKenzie Treating Plant (No. 1 (Facility No. 700140-01)) and such other relief as is appropriate.

Case No. 28284: (Continued) Application of Rimrock Oil & Gas Williston LLC for an order amending the field rules for the Bailey-Bakken Pool, Dunn County, ND, to create and establish two 1920-acre spacing units comprised of Sections 27, 28 and 29; and Sections 32, 33 and 34, T.147N., R.93W., authorizing the drilling of a total not to exceed ten wells on each proposed 1920-acre spacing unit, and such other relief as is appropriate.

Case No. 28385: Application of Continental Resources, Inc. for an order amending the field rules for the Catwalk-Bakken Pool, Williams County, ND, as follows: (i) authorizing the drilling, completing and producing of a well with the lateral to be located approximately 450 feet from the south line of an existing 1600-acre spacing unit comprised of all of Sections 17 and 18 and the W/2 of Section 16, T.154N., R.100W.; and (ii) authorizing the drilling, completing and producing of a well with the lateral to be located approximately 450 feet from the north line of an existing 1600-acre spacing unit comprised of all of Sections 19 and 20 and the W/2 of Section 21, T.154N., R.100W., both as exceptions to the provisions of NDAC § 43-02-03-18 and such other relief as is appropriate.

Case No. 28386: Application of Continental Resources, Inc. for an order amending the field rules for the Catwalk-Bakken Pool, Williams and McKenzie Counties, ND, to create and establish two overlapping 3200-acre spacing units comprised of all of Sections 7, 8, 17 and 18 and the W/2 of Sections 9 and 16; and all of Sections 19, 20, 29 and 30 and the W/2 of Sections 21 and 28, T.154N., R.100W., authorizing the drilling of a horizontal well on or near the section line between the existing spacing units of each proposed overlapping 3200-acre spacing unit, and such other relief as is appropriate.

Case No. 28387: Application of Continental Resources, Inc. for an order amending the field rules for the East Fork-Bakken Pool, Williams County, ND, to create and establish an overlapping 2560-acre spacing unit comprised of Sections 16, 17, 20 and 21, T.156N., R.99W., authorizing the drilling of a total not to exceed two horizontal wells on or near the section line between the existing spacing units of said proposed overlapping 2560-acre spacing unit, and such other relief as is appropriate.

Case No. 28388: Application of Continental Resources, Inc. for an order amending the field rules for the Sanish-Bakken Pool, McKenzie and Mountrail Counties, ND, to create and establish two overlapping 1680-acre spacing units comprised of all of Sections 16 and 17 and the W/2, W/2 E/2 of Section 15; and all of Sections 20 and 21 and the W/2, W/2 E/2 of Section 22, T.153N., R.93W., authorizing the drilling of a total not to exceed fourteen wells on each proposed 1680-acre spacing unit, and such other relief as is appropriate.

Case No. 28389: In the matter of the authority of Equinor Energy LP, to recover from Versa Energy, LLC as an owner of a working interest in the Jennifer 26-35 IH well (File No. 23033) presently producing in paying quantities from Sections 26 and 35, T.156N., R.100W., Williams County, ND, a risk penalty as provided in NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28053: (Continued) In the matter of the authority of Equinor Energy LP, to recover from Versa Energy, LLC as an owner of a working interest in the Stallion 33-28 IH well (File No. 21431) presently producing in paying quantities from Sections 28 and 33, T.151N., R.101W., McKenzie County, ND, a risk penalty as provided in NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28295: (Continued) In the matter of Whiting Oil and Gas Corp.'s request to suspend and revoke Kraken Development III, LLC's permit to drill the Littlefoot LW 25-36 #2TFH well (File No. 37340) located in the SENE, Section 26, T.153N., R.92W., Mountrail County, ND.

Case No. 28297: (Continued) In the matter of Whiting Oil and Gas Corp.'s request to suspend and revoke Kraken Development III, LLC's permit to drill the Littlefoot LW 25-36 #1H well (File No. 37342) located in the NENE, Section 26, T.153N., R.92W., Mountrail County, ND.

Case No. 28220: (Continued) Application of WM of North Dakota Energy Disposal Solutions, LLC for an order pursuant to NDAC § 43-02-03-51 et seq. authorizing the construction of a treating plant to be located in the S/2 SE/4 of Section 35, T.151N., R.96W., McKenzie County, ND, and such other relief as is appropriate.

Case No. 28221: (Continued) Application of WM of North Dakota Energy Disposal Solutions, LLC for an order authorizing the drilling of a saltwater disposal well to be utilized for fracture injection into the Dakota Group in a well to be known as the Blue Buttes 1 well, to be located in the NENE of Section 35, T.151N., R.96W., Blue Buttes Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

Case No. 28222: (Continued) A motion of the Commission to determine the amount of bond to be required of WM of North Dakota Energy Disposal Solutions, LLC for the Blue Buttes 1 well to be drilled in the NENE of Section 35, T.151N., R.96W., Blue Buttes Field, McKenzie County, ND, to be utilized for fracture injection into the Dakota Group, pursuant to NDAC § 43-02-03-15, and such other relief as is appropriate.

Case No. 28223: (Continued) Application of WM of North Dakota Energy Disposal Solutions, LLC for an order authorizing the drilling of a saltwater disposal well to be utilized for fracture injection into the Dakota Group in a well to be known as the Blue Buttes 2 well, to be located in the SWNE of Section 35, T.151N., R.96W., Blue Buttes Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

Case No. 28224: (Continued) A motion of the Commission to determine the amount of bond to be required of WM of North Dakota Energy Disposal Solutions, LLC for the Blue Buttes 2 well to be drilled in the SWNE of Section 35, T.151N., R.96W., Blue Buttes Field, McKenzie County, ND, to be utilized for fracture injection into the Dakota Group, pursuant to NDAC § 43-02-03-15, and such other relief as is appropriate.

Case No. 28390: Application of Oviniv Production Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 28 and 33, T.154N., R.96W., Grinnell-Bakken Pool, Williams and McKenzie Counties, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28391: Application of Oviniv Production Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 28, 29, 32 and 33, T.154N., R.96W., Grinnell-Bakken Pool, Williams and McKenzie Counties, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28392: Application of Oviniv Production Inc. for an order authorizing the drilling, completing and producing of a total not to exceed fourteen wells on an existing 1280-acre spacing unit described as Sections 28 and 33, T.154N., R.96W., Grinnell-Bakken Pool, McKenzie and Williams Counties, ND, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 28393: Application of Oviniv Production Inc. for an order authorizing the drilling, completing and producing of a total not to exceed fourteen wells on two existing 1280-acre spacing units described as Sections 30 and 31, T.151N., R.98W., and Sections 6 and 7, T.150N., R.98W., Silverston-Bakken Pool, McKenzie County, ND, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 28394: Application of Oviniv Production Inc. for an order authorizing the drilling, completing and producing of a total not to exceed fourteen wells on three existing 1280-acre spacing units described as Sections 2 and 11; Sections 5 and 8; and Sections 6 and 7, T.150N., R.99W., Tobacco Garden-Bakken Pool, McKenzie County, ND, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 28395: Application of XTO Holdings, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 20 and 21, T.149N., R.97W., North Fork Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28396: Application of XTO Holdings, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 13 and 24, T.149N., R.90W. and Sections 18 and 19, T.149N., R.97W., North Fork-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28397: Application of XTO Holdings, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 16, 17, 20 and 21, T.149N., R.97W., North Fork-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28398: Application of XTO Holdings, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 20, 21, 28 and 29, T.149N., R.97W., Haystack Butte-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28399: Application of XTO Holdings, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as the SW/4 of Section 1, the S/2 of Section 2, the SE/4 of Section 3, the NE/4 of Section 10, the W/2 of Section 11 and the NW/4 of Section 12, T.149N., R.92W., Heart Butte-Bakken Pool, Mountrail and Dunn Counties, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28400: Application of Continental Resources, Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 16, 17, 20 and 21, T.156N., R.99W., East Fork-Bakken Pool, Williams County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28401: Application of Continental Resources, Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as all of Sections 7, 8, 17 and 18 and the W/2 of Sections 9 and 16, T.154N., R.100W., Williston and/or Catwalk-Bakken Pool, Williams County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28402: Application of Continental Resources, Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as all of Sections 19, 20, 29 and 30 and the W/2 of Sections 21 and 28, T.154N., R.100W., Catwalk and/or Last Chance-Bakken Pool, Williams and McKenzie Counties, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28403: Application of Continental Resources, Inc. for an order for the Epping-Bakken Pool, Williams County, ND, authorizing the drilling, completing and producing of a total not to exceed two horizontal wells on or near the section line of an existing overlapping 2560-acre spacing unit described as Sections 1 and 12, T.155N., R.100W. and Sections 6 and 7, T.155N., R.99W., and such other relief as is appropriate.

Case No. 28404: Application of Continental Resources, Inc. as provided for in NDAC § 43-02-03-88.1 for an order allowing the production from the following described wells: Wiley 13-25HSL2 well (File No. 37192); and the Wiley 14-25HSL well (File No. 37193); to be produced into the Bailey-Wiley Central Tank Battery or production

facility, all located in Section 25, T.150N., R.97W., Pershing Field, McKenzie County, ND, pursuant to NDAC § 43-02-03-88.1 and such other relief as is appropriate.

Case No. 28405: Application of Liberty Resources Management Co. LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 29, 30, 31 and 32, T.159N., R.95W., McGregor-Bakken Pool, Williams County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28406: Application of Liberty Resources Management Co. LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 26, 27, 34 and 35, T.158N., R.93W., Engel Lake-Bakken Pool, Mountrail County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28407: Application of Liberty Resources Management Co. LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 27, 28, 33 and 34, T.158N., R.93W., Engel Lake-Bakken Pool, Mountrail County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28408: Application of EOG Resources, Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as the W/2 of Sections 17 and 20 and the E/2 of Sections 18 and 19, T.151N., R.94W., Antelope-Sanish Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28409: Application of EOG Resources, Inc. provided for in NDAC § 43-02-03-88.1 for an order allowing the production and tank vapors from the following described wells: Clarks Creek 63-07H well (File No. 34678); Clarks Creek 65-07HX well (File No. 37356); and, Clarks Creek 151-0720H well (File No. 34380), to be produced and to allow all fluids including vapors to be commingled into the Clarks Creek Section 7 SESE 2 Central Facility Central Tank Battery or production facility, all located in Section 7, T.151N., R.94W., McKenzie County, ND, pursuant to NDAC § 43-02-03-88.1 and such other relief as is appropriate.

Case No. 28410: Application of WPX Energy Williston, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 7 and 8, T.149N., R.94W., Squaw Creek-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28411: Application of WPX Energy Williston, LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests for wells drilled on the overlapping spacing unit described as Sections 8 and 9, T.149N., R.94W., Squaw Creek-Bakken Pool, McKenzie County, ND, as provided by NDCC § 38-08-08 but not reallocating production for wells producing on other spacing units and such other relief as is appropriate.

Case No. 28412: Application of WPX Energy Williston, LLC for an order authorizing the drilling, completing and producing of a total not to exceed eight wells on an existing 640-acre spacing unit described as Section 8, T.149N., R.94W., Squaw Creek-Bakken Pool, McKenzie County, ND, and such other relief as is appropriate.

Case No. 28413: Application of KODA Resources for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 1 and 12, T.160N., R.103W., Fertile Valley-Bakken Pool, Divide County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28414: Application of KODA Resources for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 13 and 24, T.160N., R.103W., Fertile Valley-Bakken Pool, Divide County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28415: Application of KODA Resources for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 27 and 34, T.160N., R.102W., Fertile Valley-Bakken Pool, Divide County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28416: Application of KODA Resources for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 28 and 35, T.160N., R.100W., Smoky Butte-Bakken Pool, Divide County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28417: Application of KODA Resources for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 4 and 9, T.159N., R.102W., Hanks-Bakken Pool, Williams County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28418: Application of KODA Resources for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 3 and 10, T.159N., R.102W., Bar Butte-Bakken Pool, Williams County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28419: Application of KODA Resources for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 25 and 36, T.159N., R.102W., Bar Butte-Bakken Pool, Williams County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28420: Application of KODA Resources for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 26 and 35, T.159N., R.102W., Bar Butte-Bakken Pool, Williams County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 28421: Application of KODA Resources Operating, LLC pursuant to NDAC § 43-02-03-88.1 for an order authorizing the drilling of a saltwater disposal well, the Porter 26-2 SWD, to be located in the NENE of Section 26, T.159N., R.102W., Bar Butte Field, Williams County, ND, in the Dakota Group pursuant to NDAC Chapter 43-02-05, and such other relief as is appropriate.

Case No. 28422: Application of KODA Resources Operating, LLC for an order pursuant to NDAC § 43-02-03-88.1 authorizing saltwater disposal into the Dakota Group in the Ekin 26-1 SWD well, NENW Section 26, T.160N., R.100W., Smoky Butte Field, Divide County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

Case No. 28423: Application of Zavanna, LLC pursuant to NDAC § 43-02-03-88.1 for an order authorizing the drilling of a saltwater disposal well, the Shepherd 1-3 SWD, to be located in Lot 2 of Section 3, T.155N., R.100W., Stony Creek Field, Williams County, ND, in the Dakota Group pursuant to NDAC Chapter 43-02-05, and such other relief as is appropriate.

Case No. 28424: Application of Hanna SWD, LLC for an order pursuant to NDAC § 43-02-03-88.1 authorizing saltwater disposal into the Dakota Group in the Jore SWD 1 well, NWSE Section 35, T.150N., R.97W., North Fork Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

Signed by:
Doug Burgum, Governor
Chairman, NDIC