

SFN 5729

STATE OF NORTH DAKOTA

AFFIDAVIT OF MAILING

COUNTY OF BURLEIGH

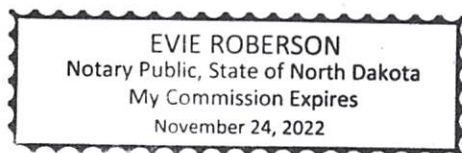
I, Jeanette Bean, being duly sworn upon oath, depose and say: That on the 18th day of October, 2017 enclosed in separate envelopes true and correct copies of the attached Order No. 28440 of the North Dakota Industrial Commission, and deposited the same with the United States Postal Service in Bismarck, North Dakota, with postage thereon fully paid, directed to the following persons by the Industrial Commission in Case No. 26026:


PETRO HARVESTER OPERATING CO
PETER RADOVANOVIC
5851 LEGACY CIRCLE, SUITE 500
PLANO TX 75024



Jeanette Bean
Oil & Gas Division

On this 18th day of October, 2017 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.





Evie Roberson
Notary Public
State of North Dakota, County of Burleigh

BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA

CASE NO. 26026
ORDER NO. 28440

IN THE MATTER OF A HEARING CALLED ON
A MOTION OF THE COMMISSION TO
CONSIDER THE APPLICATION OF PETRO
HARVESTER OPERATING CO. LLC FOR AN
ORDER PURSUANT TO NDAC § 43-02-03-88.1
AUTHORIZING SALTWATER DISPOSAL INTO
THE DAKOTA GROUP IN THE STC1 SWD #1
WELL, NWNE SECTION 2, T.163N., R.93W.,
SHORT CREEK FIELD, BURKE 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 23rd day of August, 2017.
- (2) 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.
- (3) Petro Harvester Operating Company, LLC (Petro Harvester) proposed to dispose of saltwater produced with crude oil and other defined Class II wastes by injection into the Dakota Group through the STC1 SWD #1 well to be located in the NW/4 NE/4 of Section 2, Township 163 North, Range 93 West, Short Creek Field, Burke County, North Dakota. This is a well to be drilled.
- (4) Petro Harvester submitted an Application for Injection and attachments pursuant to NDAC Section 43-02-03-88.1 and NDAC Section 43-02-05-04.
- (5) 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.
- (6) The Dakota Group in this area contains in excess of 10,000 parts per million of total dissolved solids or is an exempted aquifer.
- (7) 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.

(8) 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.

(9) 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) Petro Harvester Operating Company, LLC, its assigns and successors, is hereby permitted to dispose of Class II fluids, pursuant to NDAC Chapter 43-02-05, by injection into the Dakota Group through the STC1 SWD #1 well, to be located in the NW/4 NE/4 of Section 2, Township 163 North, Range 93 West, Short Creek Field, Burke County, North Dakota.

(2) The permission 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 17th day of October, 2017.

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA

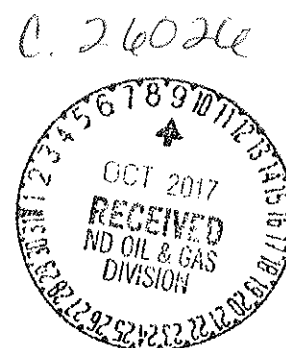
By the Director, on behalf of the Commission

/s/ Lynn D. Helms, Director



APPLICATION FOR INJECTION - FORM 14

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 18669 (08-2012)



PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM. PLEASE SUBMIT THE ORIGINAL AND TWO COPIES
APPROVAL MUST BE OBTAINED BEFORE WORK COMMENCES.

Permit Type <input type="checkbox"/> Enhanced Recovery <input checked="" type="checkbox"/> Saltwater Disposal <input type="checkbox"/> Gas Storage	Injection Well Type <input type="checkbox"/> Converted <input checked="" type="checkbox"/> Newly Drilled	Commercial SWD <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Operator PETRO HARVESTER OPERATING COMPANY LLC.	Telephone Number 214-681-7600	Will Oil be Skimmed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Address 5851 Legacy Circle, Suite 500	City Plano	State TX
Well Name and Number STC1 SWD 1	Field or Unit Short Creek	Zip Code 75024

LOCATIONS

At Surface 280 F N L	2180 F E L	Qtr-Qtr NWNE	Section 2	Township 163 N	Range 93 W	County Burke
Bottom Hole Location 1435 F N L	798 F E L	Qtr-Qtr SENE	Section 2	Township 163 N	Range 93 W	County Burke

Geologic Name of Injection Zone Dakota	Top 3866 Feet	Injection Interval 4,068-5,252 MD (3,866-4,271 TVD) Feet
Geologic Name of Top Confining Zone Mowry	Thickness 315 Feet	Geologic Name of Bottom Confining Zone Swift Thickness 307 Feet
Bottom Hole Fracture Pressure of the Top Confining Zone 3073 PSI		Gradient 0.80 PSI/Ft
Estimated Average Injection Rate and Pressure 6000 BPD @ 800 PSI		Estimated Maximum Injection Rate and Pressure 12000 BPD @ 1070 PSI
Geologic Name of Lowest Known Fresh Water Zone Fox Hills		Depth to Base of Fresh Water Zone 1,125 Feet
Total Depth of Well (MD & TVD) 5,482 MD, 4,350 TVD Feet	Logs Previously Run on Well	

CASING, TUBING, AND PACKER DATA (Check ☐ If Existing)

NAME OF STRING	SIZE	WEIGHT (Lbs/Ft)	SETTING DEPTH	SACKS OF CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface <input checked="" type="checkbox"/>	9 5/8	36	1350	345	surface	proposed
Intermediate <input type="checkbox"/>						
Long String <input checked="" type="checkbox"/>	7	26	5482	374	1600'	proposed

	TOP	BOTTOM	SACKS OF CEMENT
Liner <input type="checkbox"/>			

Proposed Tubing	SIZE	WEIGHT (Lbs/Ft)	SETTING DEPTH	TYPE
	4 1/2	11.6	4000	J-55 internally coated


Proposed Packer Setting Depth 4,000 Feet	Model AS-1X (SET @4000' MD - 3840' TVD)	<input type="checkbox"/> Compression <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Tension
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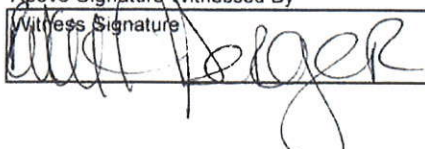
FOR STATE USE ONLY

Permit Number and Well File Number	
UIC Number	Approval Date
By	
Title	

COMMENTS

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I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.		Date 07/21/0217
Signature 	Printed Name Peter Radovanovic	Title Engineering Manager

Above Signature Witnessed By		
Witness Signature 	Witness Printed Name Rikie Herzberger	Witness Title Engineering Technician

Instructions

1. Attach a list identifying all attachments.
2. The operator, well name and number, field or unit, well location, and any other pertinent data shall coincide with the official records on file with the Commission. If it does not, an explanation shall be given.
3. If an injection well is to be drilled, an Application for Permit to Drill - Form 1 (SFN 4615) shall also be completed and accompanied by a plat prepared by a registered surveyor and a drilling fee.
4. Attach a lithologic description of the proposed injection zone and the top and bottom confining zones.
5. Attach a plat depicting the area of review (1/4-mile radius) and detailing the location, well name, and operator of all wells in the area of review. Include: injection wells, producing wells, plugged wells, abandoned wells, drilling wells, dry holes, and water wells. The plat shall also depict faults, if known or suspected.
6. Attach a description of the needed corrective action on wells penetrating the injection zone in the area of review.
7. Attach a brief description of the proposed injection program.
8. Attach a quantitative analysis from a state-certified laboratory of fresh water from the two nearest fresh water wells. Include legal descriptions.
9. Attach a quantitative analysis from a state-certified laboratory of a representative sample of water to be injected.
10. Attach a list identifying all source wells, including location.
11. Attach a legal description of land ownership within the area of review. List ownership by tract or submit in plat form.
12. Attach an affidavit of mailing certifying that all landowners within the area of review have been notified of the proposed injection well. This notice shall inform the landowners that comments or objections may be submitted to the Commission within 30 days, or that a hearing will be held at which comments or objections may be submitted, whichever is applicable. Include copies of letters sent.
13. Attach all available logging and test data on the well which has not been previously submitted.
14. Attach schematic drawings of the injection system including current well bore construction and proposed well bore and surface facility construction.
15. Attach a Sundry Notice - Form 4 (SFN 5749) detailing the proposed procedure.
16. Attach a diagram representing the traffic flow and the maximum number of trucks staged on site.
17. Attach a printout of a map obtained at <http://www.nd.gov/gis/apps/HubExplorer/> with surficial aquifers (under hydrography) active, and proposed location plotted on printout.
18. Read Section 43-02-05-04 of the North Dakota Administrative Code to ensure that this application is complete.
19. The original and two copies of this application and attachments shall be filed with the Industrial Commission of North Dakota, Oil and Gas Division, 600 East Boulevard, Dept. 405, Bismarck, ND 58505-0840.



**SALTWATER DISPOSAL APPLICATION
PETRO HARVESTER OPERATING LLC.**

STC1 SWD 1

SESW Section 2 – T163N – R93W

280' FNL & 2180' FEL of Section 2

Short Creek Field

Burke County, North Dakota

LIST OF ATTACHMENTS

- 1) Lithologic description of injection zones and confining zones
- 2) Map of area of review
- 3) Review of wells within area of review
- 4) Description of injection program
- 5) Fresh-water analysis
- 6) Representative injection water analysis
- 7) List of source wells
- 8) Plat of land ownership within area of review
- 9) Affidavit certifying all landowner with area of review have been notified
- 10) Injection system schematic
- 11) Sundry Notice – Form 4 for request for diking variance
- 12) Sundry Notice – Form 4 for proposed procedure
- 13) Traffic Flow Diagram
- 14) Surficial aquifers map
- 15) Approach Permit
- 16) Drill plan for pad drilling



ATTACHMENT #1

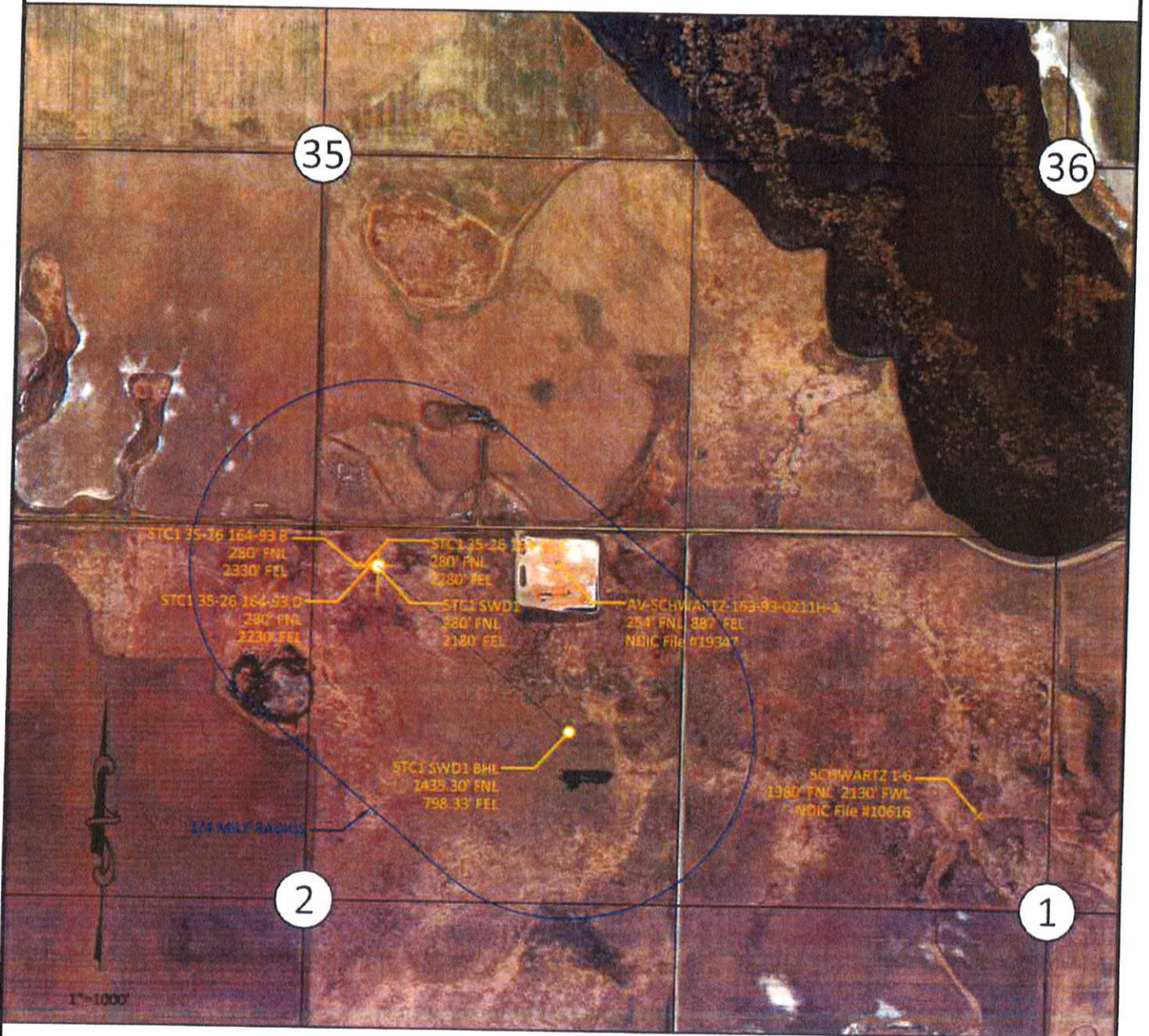
LITHOLOGIC DESCRIPTION OF INJECTION ZONE AND CONFINING ZONES STC1 SWD 1

<u>WELL:</u>	STC1 SWD 1 NWNE Sec 2, T 163N, R 93 W
<u>UPPER CONFINING ZONE:</u>	The Cretaceous Mowry Formation is the upper confining bed. This formation consists of dark-gray, micaceous shale. It is approximately 315 feet thick in this area based on the AV-Schwartz 163-93 0211H-1 offset well.
<u>INJECTION ZONE:</u>	The Cretaceous Dakota Sand will be the injection zone in this well. This formation consists of alternating sandstone, siltstone and shale. This formation is expected to have a gross thickness of approximately 405 feet based on the geological prognosis. The Dakota contains several potential injection zones between 3866' to 4271' TVD. The net thickness of the sandstone beds is expected to be 200 feet and consists of fine to coarse-grained quartzose sand.
<u>LOWER CONFINING ZONE:</u>	The Jurassic Swift Formation is the lower confining bed. This formation consists of dark-gray to green, fissile, silty shale. Gross Swift thickness is approximately 307 feet.


ATTACHMENT #2

Quarter Mile Radius Map

APPLICANT Petro Harvester Operating Company LLC
 ADDRESS PO Box 335 Mohall, ND 58761
 WELL NAME & No. STC1 SWD1
280 FEET FROM North LINE AND 2180 FEET FROM East LINE
 Lat: 48° 58' 49.94502" N Long: 102° 42' 27.33089" W
 SECTION 2, T. 163 N., R. 93 W., 5th P.M.
Burke COUNTY, NORTH DAKOTA



NOTE: There are no permanently occupied dwellings within 1/4 mile of the STC1 SWD1 well location.

SCALE	1" = 1000'	DATE	7-19-17	REVISED	
 <p>Consulting Engineers & Land Surveyors</p> <p>915 East Elm Street PO Box 237 Bottineau ND 58318 316 Eastdale Drive PO Box 1277 Bismarck ND 58502 110 Sth Yocum Southwest Minot ND 58701</p>					
DRAWN BY	NWA	DRAWING NO	M17-65		



ATTACHMENT #3

REVIEW OF WELLS WITHIN QUARTER MILE RADIUS
STC1 SWD 1

Petro Harvester Operating LLC identified one (1) well within the quarter mile area of review:

NDIC FILE #	WELL NAME	QQ	SEC	TWP	RNG	SURFACE FOOTAGES		STATUS
19347	AV-Schwartz-163-93-0211H-1	LOT 1	2	163 N	93 W	254 FNL	887 FEL	Active

Petro Harvester has identified zero (0) wells that require corrective action. The review of the mentioned well is detailed below.

AREA OF REVIEW – AV-SCHWARTZ-163-93-0211H-1

NDIC FILE #:	19347	Surface Casing Size:	9 5/8"
Well Name:	AV-Schwartz-163-93-0211H-1	Surface Casing Depth:	1233'
Location:	Lot 1 Sec 2, T 163 N, R 93W	Production Casing Size:	7"
Footages:	254 FNL / 887 FEL	Production Casing Depth:	8052'
Status:	ACTIVE	Logs:	AIG, CAL, CBL, CND, DTSM
*Operator:	See note below		
Status Date:	7/18/2012		

**Petro Harvester Operating Company LLC purchased the subject well from Hess Bakken Investments II, LLC and assumed operatorship on April 1, 2017. The Notice of Transfer Of Oil And Gas Wells - Form 15, as of the date of this application, has not been approved by the Commission.*

Comments: The AV-Schwartz-163-93-0211H-1 is a multilateral well targeting the Three Forks and Bakken formations. The TD of 17,708' MD (Lateral 2) was reached on 9/22/2010. The Bakken lateral was hydraulically fractured on 6/20/2012. Eighteen (18) stages were stimulated with job totals of 1,170,842 lbs of proppant and 18,951 bbls of fluid. The well is currently producing from the Bakken lateral via rod pump. A cement bond log was conducted and the top of cement was identified at 2,580'.

No corrective action is needed for this well.



ATTACHMENT #5

**FRESH WATER ANALYSIS
REQUEST FOR WAIVING OF FRESH WATER ANALYSIS
STC1 SWD 1**

All fresh water wells within a one-mile radius surrounding the STC1 SWD 1 are nonoperational and thus two (2) fresh water sample analyses cannot be provided by Petro Harvester. After extensive field scouting of the area within a one-mile radius of the STC1 SWD 1 proposed well path, Petro Harvester identified two (2) potential fresh water wells. Unfortunately, both wells have been abandoned for a significant period of time and it is not possible to collect a water sample.

Due to the aforementioned situation, Petro Harvester is requesting the waiving of collection of two (2) fresh water analyses as required under NDAC 43-02-05-04 - Permit Requirements, letter L in the STC1 SWD 1 application for injection.

REVIEW OF FRESHWATER WELLS AFFIDAVIT
Industrial Commission of North Dakota
Oil and Gas Division
600 East Boulevard, Dept. 405
Bismarck, ND 58505-0840

STATE OF TEXAS)
)SS.
COUNTY OF COLLIN)

1. I, Peter Radovanovic, do hereby confirm that I am employed by Petro Harvester Operating Company, LLC as an Engineering Manager with responsibilities in the State of North Dakota and I have personal knowledge of the matters set forth in this affidavit.
2. Pursuant to section 43-02-05-04 of the North Dakota Administrative Code, water analyses from the two nearest freshwater wells within a one-mile radius of the proposed injection well must be sampled.
3. Petro Harvester Operating Company, LLC has conducted a thorough search within the one-mile radius and has determined that no (0) freshwater wells exist within the area of review.

Dated this 21st day of July, 2017.



Peter Radovanovic

STATE OF TEXAS)
)SS.
COUNTY OF COLLIN)

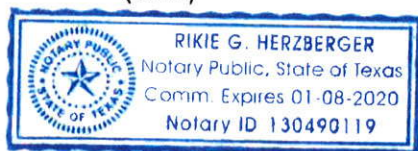
Subscribed to and sworn before me this 21 day of July, 2017.



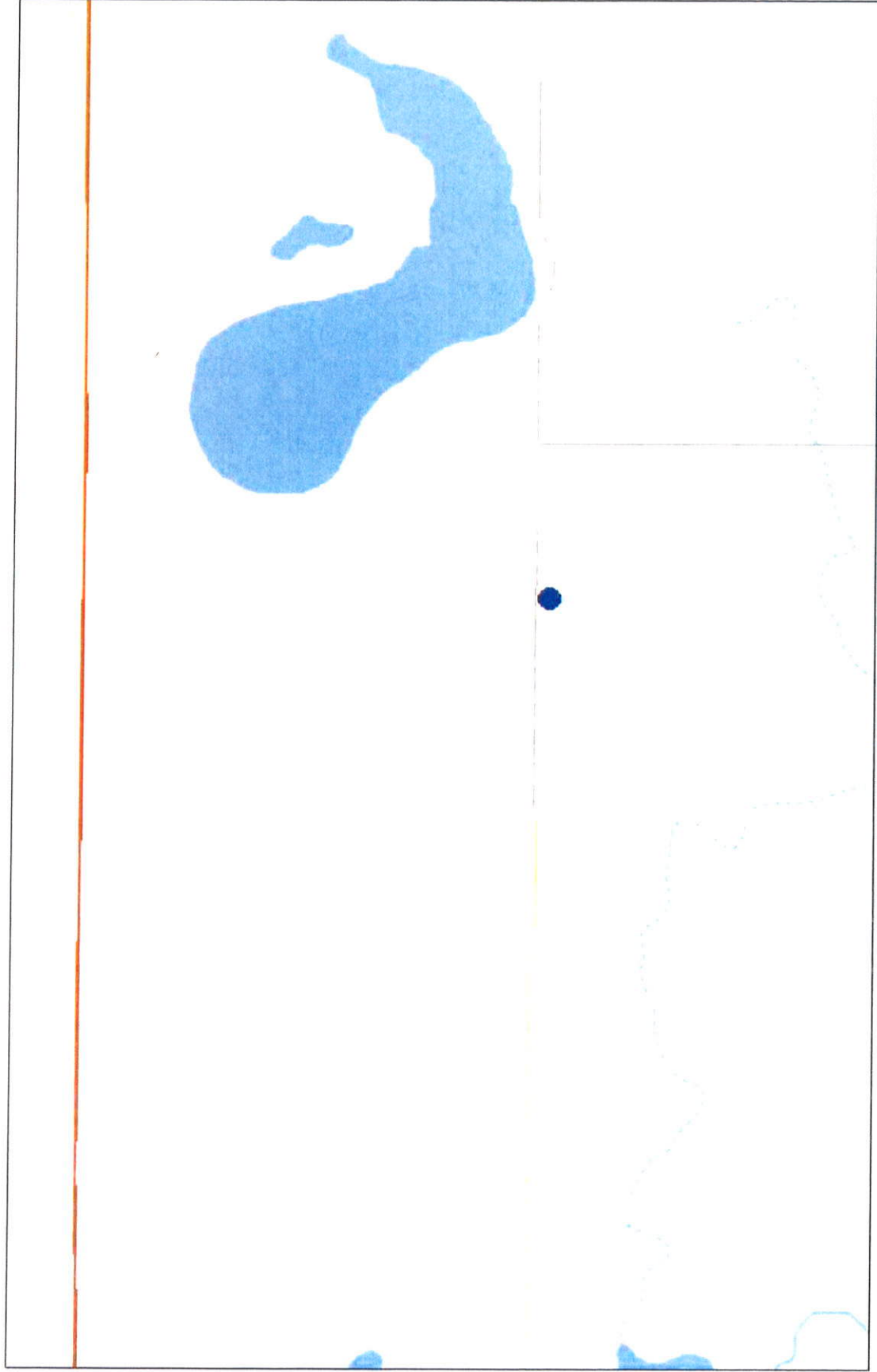
Notary Public
State of Texas

My Commission Expires: 1/8/20

(SEAL)

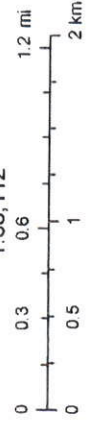


STC1 SWD 1

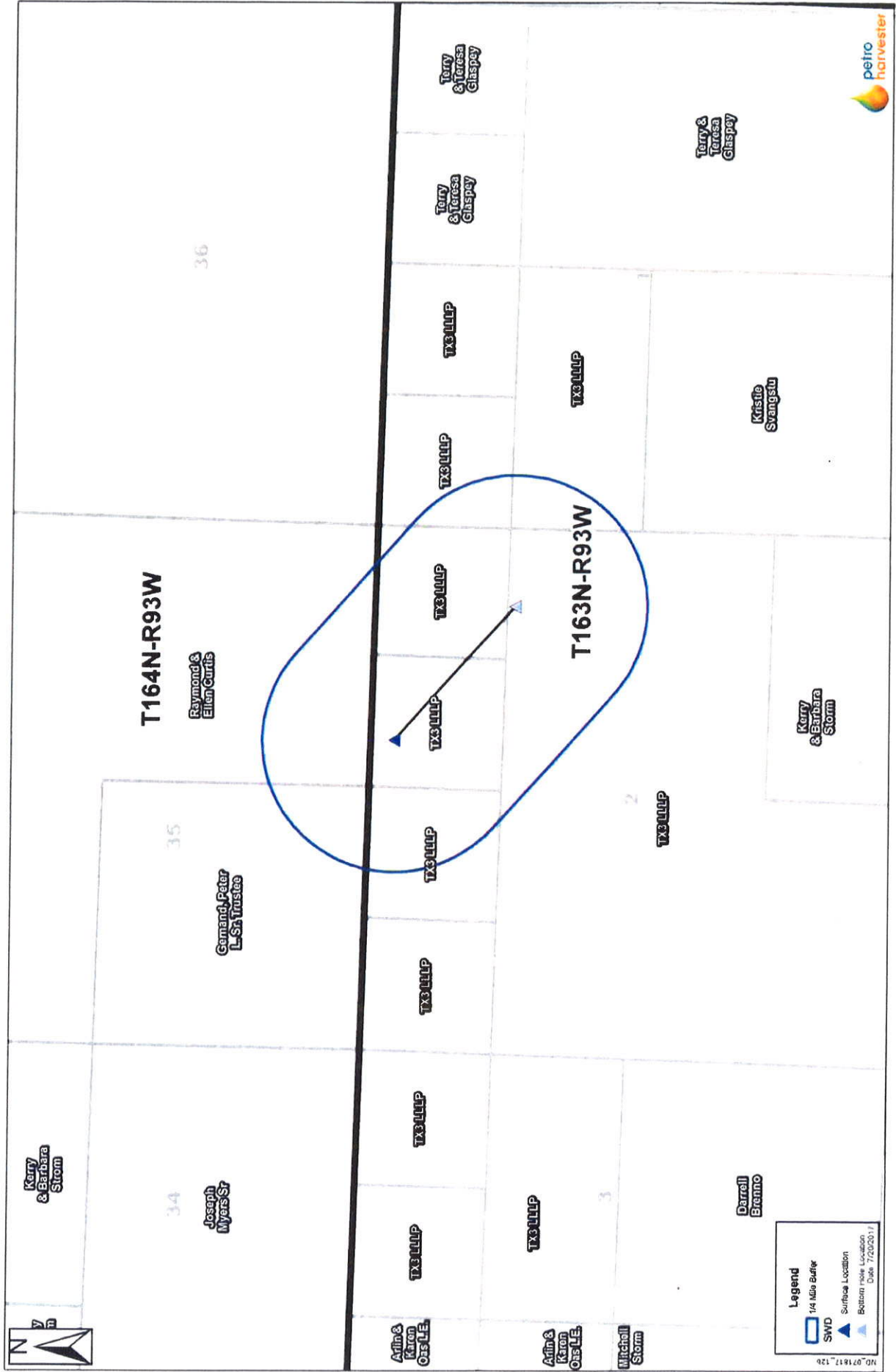


July 20, 2017

1:36,112



North Dakota state agencies and the ND GIS Hub



AFFIDAVIT OF MAILING

STATE OF NORTH DAKOTA)
)SS
COUNTY OF BURKE)

The undersigned, Samuel Willis, of lawful age, being first duly sworn on his oath states that he is a duly authorized agent of Petro Harvester Operating Company, LLC, do hereby certify that I have sent a Notice of Application for Fluid Injection to each surface owner within a radius of ¼ mile from the location of the proposed injection well (STC1 SWD 1, T163N-R93W, Section 2 – NWNE, Burke County, North Dakota).

The following list contains the names and addresses of all landowners and a legal description of land ownership:

Surface Ownership

Legal Description

TX3 LLLP
662 Sunset Court
Shoreview, MN 55126

Township 163 North, Range 93 West
Section 2: N2 (Lots: 1, 2, 3), N2SE
Section 1: Lot: 4, S2NW

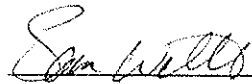
Raymond S. Curtis
601 – 24th Ave. SW, Apt. #105
Minot, ND 58701

Township 164 North, Range 93 West
Section 35: SE

Peter L. Gernand Sr. North Dakota Real Estate Trust
Peter L. Gernand Sr., Trustee
6195 E. 3250 North Road
Potomac, IL 61865

Township 164 North, Range 93 West
Section 35: SW

IN WITNESS WHEREOF, the undersigned has hereunto set his hand this 20th day of July, 2017.



(Affiant's Signature)

EXHIBIT ____
Affidavit of mailing certifying all
Landowners with the area of
Review have been notified

ACKNOWLEDGEMENT

State of Texas)

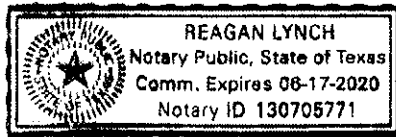
County of Collin)

On this 20th day of July, 2017 before me, a Notary Public, personally appeared Samuel Willis known to me to be the person whose name subscribed to the foregoing instrument as an agent of Petro Harvester Operating Company, LLC, and acknowledged to me that he executed the same as his free act and deed for the purposes therein expressed, in the capacity stated, and as the act and deed of said company.

Reagan Lynch

Notary Public

My Commission Expires: 6-17-2020



EXHIBIT__

Affidavit of mailing certifying all
Landowners with the area of
Review have been notified



July 20, 2017

TX3 LLLP
662 Sunset Court
Shoreview, MN 55126

Certified Mail Return Receipt Requested
RE: Proposed Saltwater Disposal Well
STC1 SWD 1
T163N-R93W, Section 2 - NWNE

Dear Owner:

This letter serves to notify you that Petro Harvester Operating Company, LLC ("Petro Harvester") plans to drill a new saltwater disposal well and inject fluids (saltwater) from source wells in the area into the referenced well. Water will be injected into the Dakota Formation for the purpose of disposal operations.

In accordance with the rules and regulations of the NDIC, Petro Harvester is required to give notice that it has made application to perform this work to each landowner within a one-quarter mile radius of the injection site. On either August 23 or 24, 2017, the NDIC will conduct a hearing regarding this application in the Department of Mineral Resources Conference Room, located at 1016 East Calgary Avenue, Bismarck ND 58503. Your comments or objections regarding this application may be directed to the Commission at that time.

You may attend the hearing or written comments or objections may be submitted up to the time of the hearing to the following address:

North Dakota Industrial Commission
600 E. Boulevard Avenue, Dept. 405
Bismarck, North Dakota 58505

If you have any comments or objections, please direct them to the North Dakota Industrial Commission, Oil and Gas Division. If you have any questions about the project, please feel free to contact me at office: 972-244-8102.

Sincerely,
Petro Harvester Operating Company, LLC

Samuel P. Willis, CPL
Senior Landman

Cc: North Dakota Industrial Commission, Oil and Gas Division
600 East Boulevard
Bismarck, ND 58505



July 20, 2017

Raymond S. Curtis
601 – 24th Ave. SW, Apt. #105
Minot, ND 58701

Certified Mail Return Receipt Requested
RE: Proposed Saltwater Disposal Well
STC1 SWD 1
T163N-R93W, Section 2 - NWNE

Dear Owner:

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Sincerely,
Petro Harvester Operating Company, LLC

Samuel P. Willis, CPL
Senior Landman

Cc: North Dakota Industrial Commission, Oil and Gas Division
600 East Boulevard
Bismarck, ND 58505



July 20, 2017

Peter L. Gernand Sr. North Dakota Real Estate Trust
Peter L. Gernand Sr., Trustee
6195 E. 3250 North Road
Potomac, IL 61865

Certified Mail Return Receipt Requested
RE: Proposed Saltwater Disposal Well
STC1 SWD 1
T163N-R93W, Section 2 - NWNE

Dear Owner:

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In accordance with the rules and regulations of the NDIC, Petro Harvester is required to give notice that it has made application to perform this work to each landowner within a one-quarter mile radius of the injection site. On either August 23 or 24, 2017, the NDIC will conduct a hearing regarding this application in the Department of Mineral Resources Conference Room, located at 1016 East Calgary Avenue, Bismarck ND 58503. Your comments or objections regarding this application may be directed to the Commission at that time.

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North Dakota Industrial Commission
600 E. Boulevard Avenue, Dept. 405
Bismarck, North Dakota 58505

If you have any comments or objections, please direct them to the North Dakota Industrial Commission, Oil and Gas Division. If you have any questions about the project, please feel free to contact me at office: 972-244-8102.

Sincerely,

Petro Harvester Operating Company, LLC

Samuel P. Willis, CPL
Senior Landman

Cc: North Dakota Industrial Commission, Oil and Gas Division
600 East Boulevard
Bismarck, ND 58505



ATTACHMENT #4

**DESCRIPTION OF INJECTION PROGRAM
STC1 SWD 1**



This disposal facility is being constructed to dispose of produced saltwater from Petro Harvester's Madison wells. Initially, the source wells will consist of the STC1 35-26 164-93 B, STC1 35-26 164-93 C and STC1 35-26 164-93 D wells that are currently being applied for. These wells are to be horizontally drilled and completed using a multistage, hydraulic fracture design. An on-lease water transfer line will connect the STC1 SWD 1 to the water production tanks for the aforementioned wells. Hydraulic fracture flow-back fluid and produced salt water from these horizontal wells will be disposed at the STC1 SWD 1. Depending on Petro Harvester's drilling program, produced water from other wells may be tie-in or trucked to this facility in the future.

The facility is expected to handle between 6,000 – 12,000 bwpd at a pressure of 1,070 psig.



ATTACHMENT #7

**LIST OF SOURCE WELLS
STC1 SWD 1**

The source wells for the STC1 SWD 1 have not yet been drilled. The three wells that will provide water have been applied for and are as follows:

NDIC FILE #	WELL NAME	QQ	SEC	TWP	RNG	SURFACE FOOTAGES	
	STC1 35-26 164-93 B	NWNE	2	163 N	93 W	280 FNL	2330 FEL
	STC1 35-26 164-93 C	NWNE	2	163 N	93 W	280 FNL	2280 FEL
	STC1 35-26 164-93 D	NWNE	2	163 N	93 W	280 FNL	2230 FEL

The source wells are horizontal, multi-staged, hydraulically fractured wells that are targeting the Midale and Nesson formations of the Madison Group. It is possible that future Midale and Nesson wells will be drilled in the future and would act as source wells for the STC1 SWD 1.

Water analyses for the sources wells will be provided once the source wells are drilled and on production.

ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

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

Phone: (701) 572-7355

WATER ANALYSIS REPORT

Sample Number: W-16-3083

Date of Analysis: 07/14/2016

Company: Petro Harvester Operating Co.

City: Plano

State: TX

Well Number: Busch Trust 31-30B

Date Received: 06/01/2016

DST Number:

Sample Source: Middle Treater

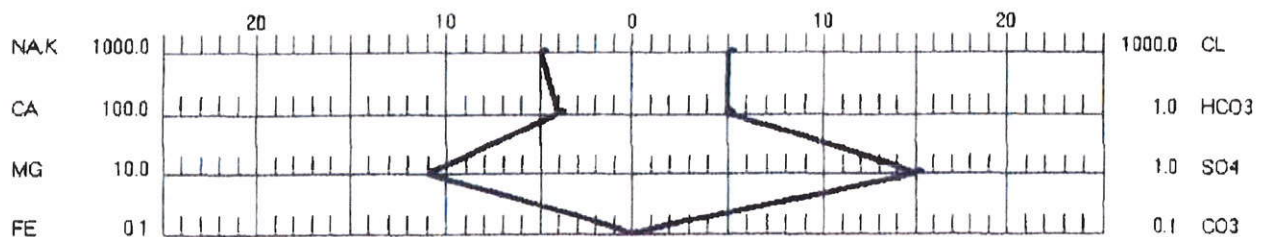
Location: **SESW** Section: **31** Township: **164N** Range: **92W** County: BurkeFormation: **MAISON**

Depth:

Distribution: Distribution List

Resistivity @ 77 °F	0.040 Ohm-Meters	pH	7.72
Specific Gravity @ 77 °F	1.200	H2S	Negative
Total Dissolved Solids (Calculated)	294669 mg/L	(245557 ppm)
Sodium Chloride (Calculated)	290155 mg/L	(241795 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	440.0	8817	CHLORIDE	4963.2	175960
MAGNESIUM	110.0	1337	CARBONATE	0.0	0
SODIUM	4523.8	104000	BICARBONATE	5.0	305
IRON	0.0	0.0	SULFATE	15.2	731
CHROMIUM	0.1	0.9	NITRATE	0.0	0
BARIUM	0.1	4.3			
POTASSIUM	79.3	3100			
STRONTIUM	9.4	414.0			
ZINC	0.0	0.0			

WATER ANALYSIS PATTERN

Remarks Sampled 5-25-16

Analyzed By: C. Jungels



ATTACHMENT #16

**DRILLING PLAN FOR PAD DRILLING
STC1 SWD 1**

Petro Harvester plans on batch drilling the pad:

Move on pad.

Spud the STC1 SWD 1 Drill and set surface casing. Skid

Spud the STC1 35-26 164-93 D Drill and set surface casing. Skid

Spud the STC1 35-26 164-93 C Drill and set surface casing. Skid

Spud the STC1 35-26 164-93 B Drill and set surface casing.

Drill the intermediate section for STC1 35-26 164-93 B. Set 7" intermediate casing. Skid

Drill the intermediate section for STC1 35-26 164-93 C. Set 7" intermediate casing. Skid

Drill the intermediate section for STC1 35-26 164-93 D. Set 7" intermediate casing. Skid

Drill the production section for STC1 SWD 1 – Set 7" injection/production casing. Well complete. Skid

Drill the production section for STC1 35-26 164-93 D. Set 4 1/2" production liner. Well Complete. Skid

Drill the production section for STC1 35-26 164-93 C. Set 4 1/2" production liner. Well Complete. Skid

Drill the production section for STC1 35-26 164-93 B. Set 4 1/2" production liner. Well Complete.

Move off pad.



SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5749 (09-2006)

Well File No.

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input checked="" type="checkbox"/> Notice of Intent	Approximate Start Date October 9, 2017	<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Report of Work Done	Date Work Completed	<input type="checkbox"/> Redrilling or Repair	<input type="checkbox"/> Shooting
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date	<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
		<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
		<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
		<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
		<input checked="" type="checkbox"/> Other	Request for diking variance

Well Name and Number STC1 SWD 1					
Footages 280 F N L 2180 F E L		Qtr-Qtr NWNE	Section 2	Township 163 N	Range 93 W
Field Short Creek	Pool Dakota	County Burke			

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s) TBD			
Address	City	State	Zip Code

DETAILS OF WORK

Petro Harvester requests diking variance from NDAC 43-02-03-53 for the STC1 SWD 1. The facility is currently planned to dispose of 6,000 - 12,000 bbls per days and will have six (6) - 400 bbls tanks contained within a 175 ft x 120 ft x 3 ft metal containment with an impermeable liner. The capacity of the primary containment is limited to 10,607 bbls and total containment on site, including the 2' earthen dike, is 95,558 bbls. Petro Harvester has included multiple engineering controls, including high and high-high tank alarms and shut-downs to mitigate the volume of any spill at the well pad. Petro Harvester also has dedicated operators that visit the facility twice daily. Please refer to the attachment for details on the engineering controls and containment volume calculations.

** Approval Contingent on Submission of as-built site schematic once facility construction is complete.*

Company Petro Harvester Operating Co.		Telephone Number 214-618-7600	
Address 5851 Legacy Circle, Suite 500			
City Plano		State TX	Zip Code 75024
Signature 	Printed Name Peter Radovanovic		
Title Engineering Manager	Date July 21, 2017		
Email Address peter.radovanovic@petroharvester.com			

FOR STATE USE ONLY	
<input type="checkbox"/> Received	<input type="checkbox"/> Approved
Date	
By	
Title	



ATTACHMENT #11
SPILL PREVENTION PLAN
Exemption from NDAC 43-02-03-53 – Diking Variance
STC1 SWD 1

Petro Harvester requests diking variance from NDAC 43-02-03-53 for the STC1 SWD 1. The facility is currently planned to dispose of 6,000 – 12,000 bbls of produced water per day into the Dakota formation and have six (6)-400 bbl tanks on location. Due to the expected disposal volumes, the metal containment surrounding the water tanks would have to be constructed impractically high to satisfy the NDAC 43-02-03-53 Saltwater Handling Facilities guidelines.

The facility is designed to include multiple engineering controls that will limit any release within the containment area. All tanks have level transmitters to determine the water levels in real-time with alarm set points (High and High-High). The High tank alarms trigger a cell-phone call out to field personal notifying the high tank level. The High-High alarm automatically shuts-in the pipeline inlet valve and shuts down the production pumps at the source wells.

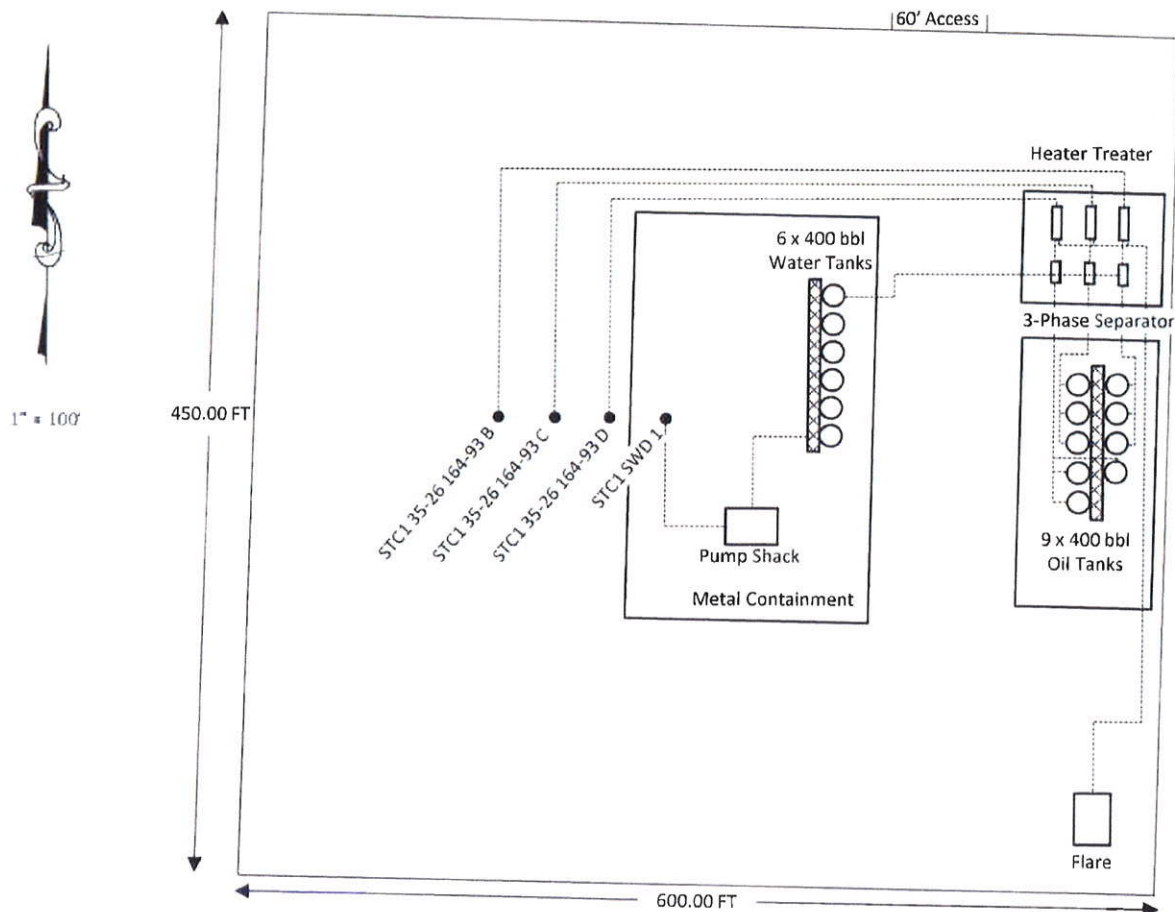
The water storage tanks will reside within the metal containment. A dirt berm surrounds the entire facility perimeter, thereby providing additional storage containment and limiting any potential releases to the well pad area.

Petro Harvester has dedicated operators that visit the facility twice a day.

The engineering controls described above, along with the installed metal containment and earthen dike are the basis for Petro Harvester's request for a diking variance to NDAC 43-03-03-53 Saltwater Handling Facilities.

Well:	STC1 SWD 1
Well Type:	Dakota Saltwater Disposal Well
Field:	Short Creek
County:	Burke
Surface Location:	280' FNL / 2180' FEL of Section 2 - T163N - R93W 48° 58' 49.94502" N 102° 42' 27.33089" W (NAD 83)
Bottomhole Location:	1435' FNL / 798' FEL of Section 2 - T163N - R93W 48° 58' 38.52909" N 102° 42' 06.66380" W (NAD 83)

PROPOSED SURFACE FACILITY CONSTRUCTION



Construction Notes:

1. A 3' wide x 2' tall berm shall be placed around the wellsite
2. A metal berm shall be installed around the disposal well and facilities estimated size 175' x 120' x 3'
3. A 65' x 70' x 3' earthen berm will be placed around the heater treaters and separators



PRIMARY AND SECONDARY CONTAINMENT CAPACITY CALCULATIONS

Primary Containment

- Metal containment size: 175' x 120' x 3'
- 400 bbl tank size: 15.6' diameter
- Proposed number of tanks: 6

$$\begin{aligned}V_{\text{primary}} &= V_{\text{metal}} - V_{\text{tanks}} \\&= (175' \times 120' \times 3') - (6) \times \pi/4 \times (15.6')^2 \times 3' \\&= 63,000 \text{ ft}^3 - 3,440 \text{ ft}^3 \\V_{\text{primary}} &= 59,560 \text{ ft}^3 (10,607 \text{ bbls})\end{aligned}$$

Secondary Containment

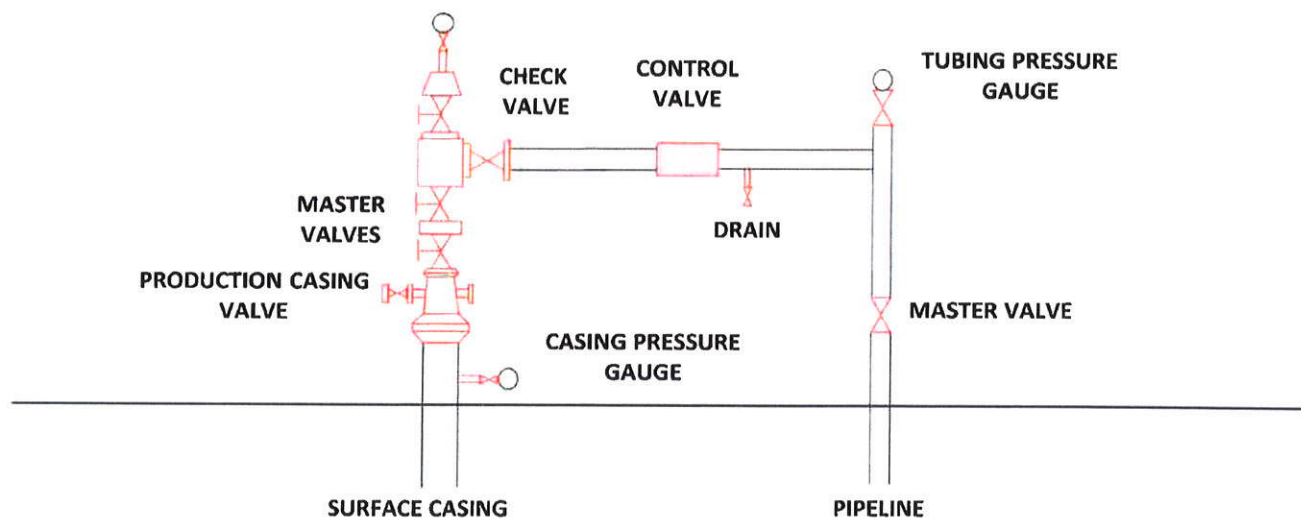
- Earthen perimeter dike size: 450' x 600' x 2'
- Earthen perimeter dike surrounding
 - Oil Tanks: 85' x 70'
 - Treaters/Separators: 65' x 70'

$$\begin{aligned}V_{\text{second}} &= V_{\text{earthen}} - V_{\text{metal}} - V_{\text{earthen tanks/sep/treat}} \\&= (450' \times 600' \times 2') - (175' \times 120' \times 2') - (85' \times 70' \times 2') - (65' \times 70' \times 2') \\&= 540,000 \text{ ft}^3 - 42,000 \text{ ft}^3 - 11,900 \text{ ft}^3 - 9,100 \text{ ft}^3 \\V_{\text{second}} &= 477,000 \text{ ft}^3 (84,951 \text{ bbls})\end{aligned}$$

Total Containment on Site: 536,560 ft³ (95,558 bbls)

Well:	STC1 SWD 1
Well Type:	Dakota Saltwater Disposal Well
Field:	Short Creek
County:	Burke
Surface Location:	280' FNL / 2180' FEL of Section 2 - T163N - R93W 48° 58' 49.94502" N 102° 42' 27.33089" W (NAD 83)
Bottomhole Location:	1435' FNL / 798' FEL of Section 2 - T163N - R93W 48° 58' 38.52909" N 102° 42' 06.66380" W (NAD 83)

PROPOSED SURFACE WELLHEAD





SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5749 (09-2006)

Well File No.

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM.
PLEASE SUBMIT THE ORIGINAL AND ONE COPY.

<input checked="" type="checkbox"/> Notice of Intent	Approximate Start Date October 9, 2017	<input type="checkbox"/> Drilling Prognosis	<input type="checkbox"/> Spill Report
<input type="checkbox"/> Report of Work Done	Date Work Completed	<input type="checkbox"/> Redrilling or Repair	<input checked="" type="checkbox"/> Shooting
<input type="checkbox"/> Notice of Intent to Begin a Workover Project that may Qualify for a Tax Exemption Pursuant to NDCC Section 57-51.1-03.	Approximate Start Date	<input type="checkbox"/> Casing or Liner	<input type="checkbox"/> Acidizing
		<input type="checkbox"/> Plug Well	<input type="checkbox"/> Fracture Treatment
		<input type="checkbox"/> Supplemental History	<input type="checkbox"/> Change Production Method
		<input type="checkbox"/> Temporarily Abandon	<input type="checkbox"/> Reclamation
		<input type="checkbox"/> Other	

Well Name and Number STC1 SWD 1			
Footages	Qtr-Qtr	Section	Township
280 F N L 2180 F E L	NWNE	2	163 N
Field	Pool	Range	
Short Creek	Dakota	93 W	
County			
Burke			

24-HOUR PRODUCTION RATE			
Before		After	
Oil	Bbls	Oil	Bbls
Water	Bbls	Water	Bbls
Gas	MCF	Gas	MCF

Name of Contractor(s) TBD			
Address	City	State	Zip Code

DETAILS OF WORK

Drill to proposed TD

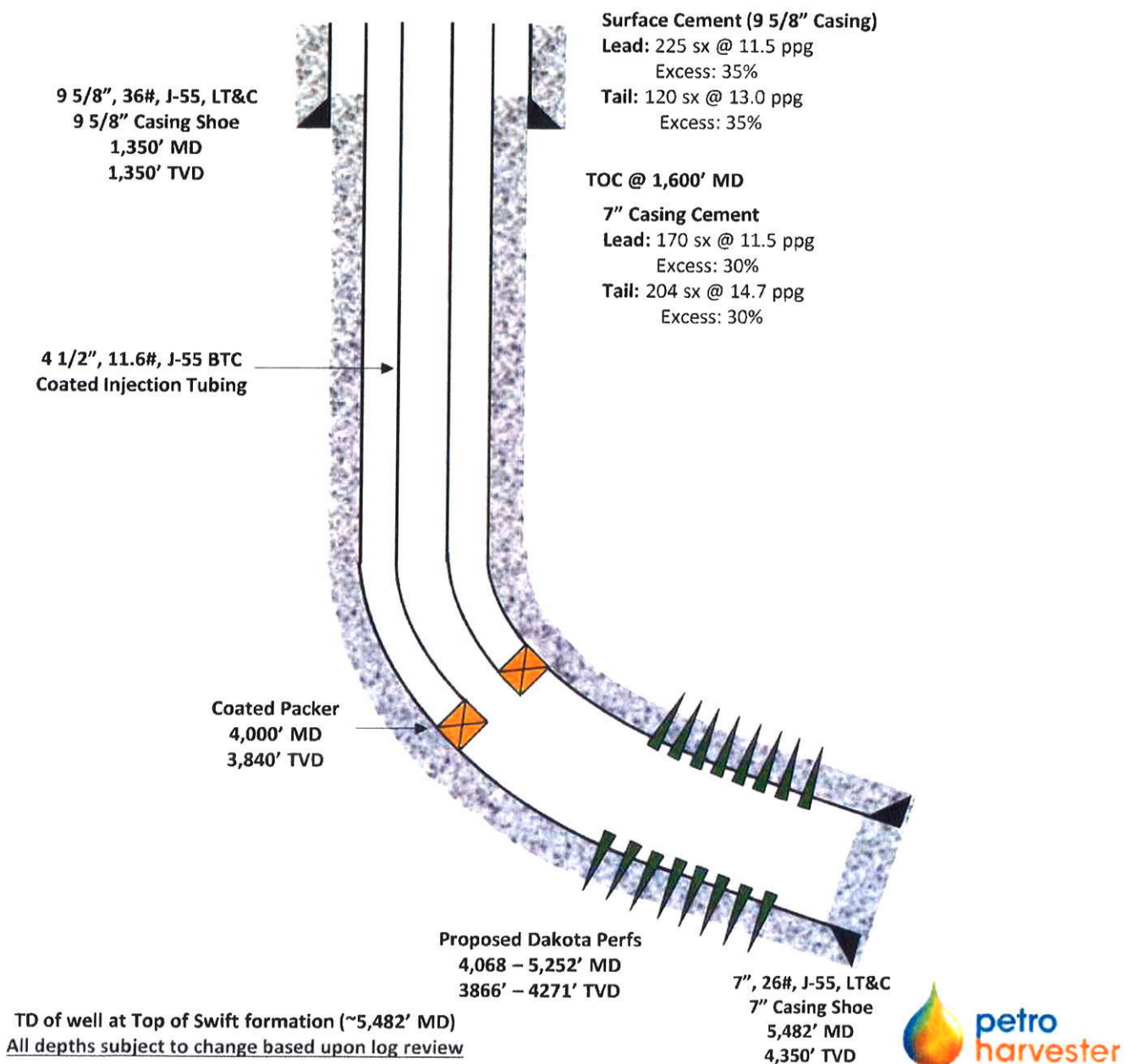
1. Notify Jim Potts, NDIC field rep prior to beginning operations.
2. MIRU completion rig. Make up 6" bit and casing scraper, pick up 4 1/2 IPC tbg, tag PBTD, Circ wellbore with clean produced field water. 7" shoe will not be drilled out.
3. Trip out, rig up wireline and run CBL/CCL with GR to surface.
4. Perforate 6 spf from 4,068 - 5,252' MD (3,866 - 4,271' TVD). Actual depths subect to change once logs are reviewed. Tools will be rolled downhole if possible, if not, will use tubing conveyed perforating.
5. Make up nickel plated packer, RIH and set w/ 20k tension, within 100' MD of top perf.
6. Swab on well, if needed, treat perms w/ 1,000 gal 15% HCL.
7. Notify Jim Potts, NDIC field rep prior to performing MIT. Pressure test casing to 1,000 psig
8. Submit sundry with date of first injection.

Company Petro Harvester Operating Co.		Telephone Number 214-618-7600	
Address 5851 Legacy Circle. Suite 500			
City Plano	State TX	Zip Code 75024	
Signature 	Printed Name Peter Radovanovic		
Title Engineering Manager	Date July 21, 2017		
Email Address peter.radovanovic@petroharvester.com			

FOR STATE USE ONLY	
<input type="checkbox"/> Received	<input type="checkbox"/> Approved
Date	
By	
Title	

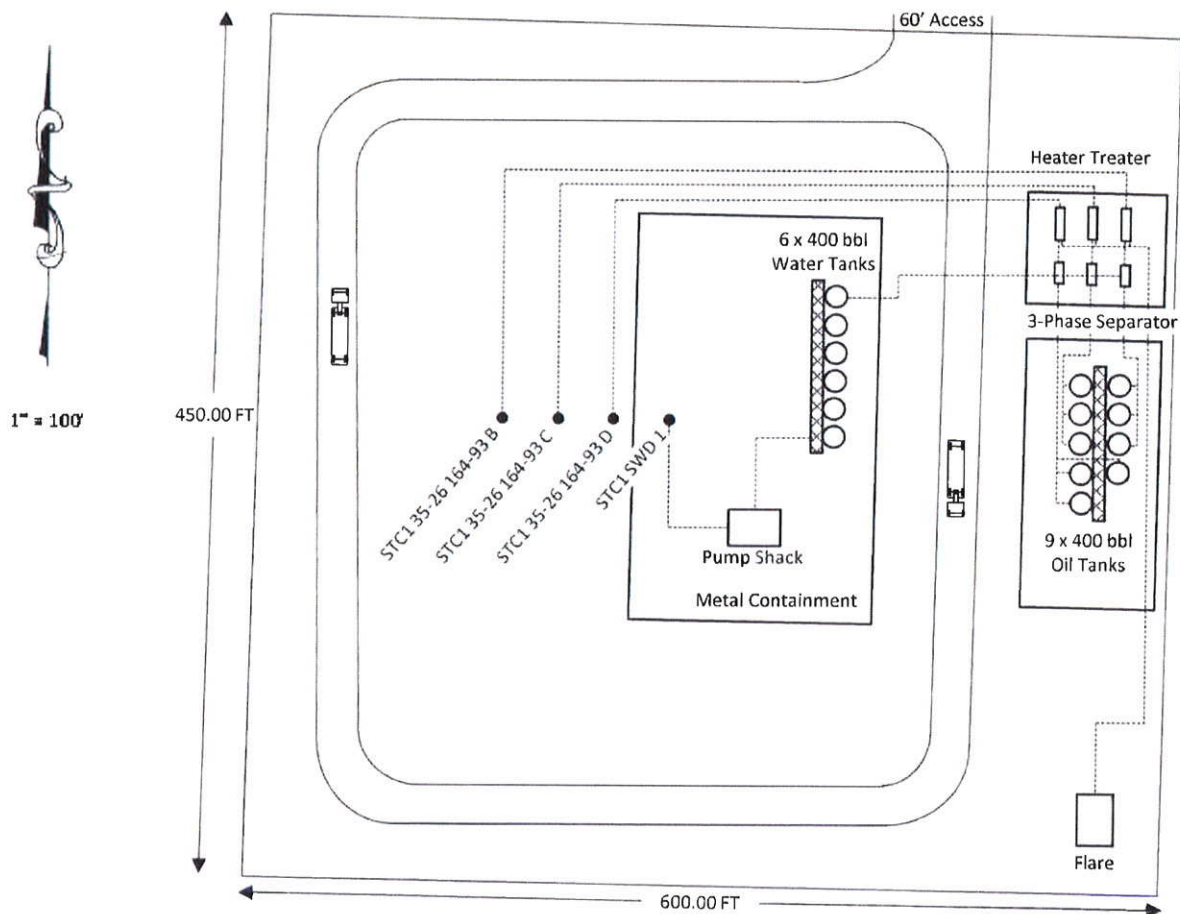
Well:	STC1 SWD 1
Well Type:	Dakota Saltwater Disposal Well
Field:	Short Creek
County:	Burke
Surface Location:	280' FNL / 2180' FEL of Section 2 - T163N - R93W 48° 58' 49.94502" N 102° 42' 27.33089" W (NAD 83)
Bottomhole Location:	1435' FNL / 798' FEL of Section 2 - T163N - R93W 48° 58' 38.52909" N 102° 42' 06.66380" W (NAD 83)

PROPOSED WELLBORE SCHEMATIC



Well:	STC1 SWD 1
Well Type:	Dakota Saltwater Disposal Well
Field:	Short Creek
County:	Burke
Surface Location:	280' FNL / 2180' FEL of Section 2 - T163N - R93W 48° 58' 49.94502" N 102° 42' 27.33089" W (NAD 83)
Bottomhole Location:	1435' FNL / 798' FEL of Section 2 - T163N - R93W 48° 58' 38.52909" N 102° 42' 06.66380" W (NAD 83)

PROPOSED TRAFFIC FLOW DAIGRAM



Traffic Notes:

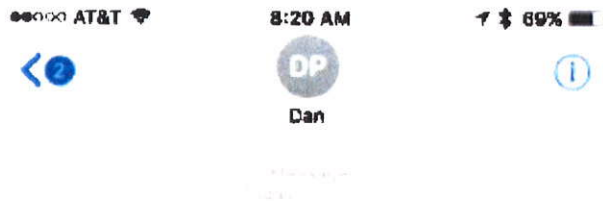
1. No truck traffic is initially expected since injected water will be from on lease wells and pipeline connected



ATTACHMENT #15

APPROACH PERMIT
STC1 SWD 1

Please see below the text message correspondence with the Short Creek Township board granting permission to use and construct an approach for the STC1 SWD 1.



This is Dan Peterson. You have the Short creek Township boards permission to add an approach off of 108th ST NW into section 2.

Kadrmass, Bethany R.

From: Kadrmass, Bethany R.
Sent: Friday, July 28, 2017 10:01 AM
To: Carroll, Patricia J.; Lamb, Marcia D.; Hummel, Richard J.; Tivis, Sandra K.; Jensen, Jeanie S.; Jastrzebski, Gayle M.; Dolezal, Tracey K.; Sperry, Tamra L.; Schmidt, Jeri G.; Carpenter, Darlene K.; Svihovec, Linda M.; Korgel, Leslie D.; Brost, Shana L.; Pappa, Stephanie; Pollman, LeAnn M.; Buzalsky, Lorrie; Haag, Kay A.; devra.smestad@wardnd.com; Innis, Beth M.; lisal@co.mountrail.nd.us; Enget, Wade G.; CityofKilldeer@killdeer.com; vawnitabest@gmail.com
Cc: Heilman, Tracy A.
Subject: NDIC Notice - 08/23/17 and 08/24/17 Dockets
Attachments: CountyNoticeLtr082317.pdf; CountyNoticeLtr082417.pdf; docket082317.pdf; docket082417.pdf

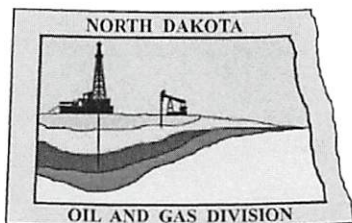
Please see the attached letters. If you are not the appropriate recipient, or if you would like this electronic notice sent to an additional email address, please let me know.

Bethany Kadrmass

North Dakota Oil and Gas Division

P: 701-328-8020 | F: 701-328-8022

brkadrmass@nd.gov | www.dmr.nd.gov/oilgas



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/

July 28, 2017

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). 26026

Dear Auditors:

The above captioned case is docketed for hearing on August 23, 2017. Written notice is being provided for cases pertaining to disposal of saltwater and oilfield wastes. Attached is a copy of the August 23, 2017 docket.

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

Sincerely,

Bethany Kadrmas
Legal Assistant

THE BURKE COUNTY TRIBUNE
AFFIDAVIT OF PUBLICATION

STATE OF NORTH DAKOTA)
COUNTY OF BURKE)

Kristi M. Bohl of said County and State, being first duly sworn, on her oath, says that she is the owner of The Burke County Tribune, a weekly newspaper of general circulation, printed at Bowbells, in said County and State, and that she has been during the time hereinafter mentioned, and that the The Notice of Publication of

Notice of Hearing

26021

a printed copy of which is hereto 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 supplement, once each week for 1 successive weeks, to wit:

8-2 2017 _____ 20____ 20____
_____ 20____ 20____ 20____

Kristi M. Bohl
Kristi M. Bohl, Publisher

Subscribed and sworn to before me this 2nd day of

August, 2017.

Lyann Olson

Notary Public in and for
Burke County, North Dakota

1st time 68 lines at .74 per line 50.32

2nd time _____ lines at _____ per line _____

3rd time _____ lines at _____ per line _____

1st time _____ column inches at _____ per line _____

2nd time _____ column inches at _____ per line _____

RECEIVED

TOTAL _____

AUG 04 2017

ND Oil & Gas Div.

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. Wednesday, August 23, 2017, 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 Thursday, August 10, 2017.

STATE OF NORTH DAKOTA TO:

Case No. 26021: Application of Petro Harvester Operating Co., LLC, for an order to (i) extend the outline and amend the applicable orders for the Short Creek Field to include all of Sections 26, 27, 34 and 35, T.164N., R.93W., Burke County, ND; (ii) establish four standup 400-acre spacing units described as the W/2 of Sections 27 and 34; the E/2 of Sections 27 and 34; the W/2 of Sections 26 and 35; and the E/2 of Sections 26 and 35, T.164N., R.93W. in the Short Creek-Madison Pool and allow up to two horizontal wells to be drilled on each unit; (iii) to establish a minimum setback of 200 feet for the "heel and toe" of each horizontal well authorized in the spacing units described above; and (iv) granting such other relief as may be appropriate.

LYANN OLSON
Notary Public
State of North Dakota
My Commission Expires Aug. 6, 2020

Case No. 26022: Application of Petro Harvester Operating Co., LLC for an order amending the applicable orders for the Woburn-Madison Pool, Burke County, ND to (i) establish a 1280-acre spacing unit described as all of Sections 4 and 9, T.162N., R.90W. and allow one horizontal well to be drilled on the unit; (ii) extend the outline and amend the applicable orders for the Woburn Field to include all of Sections 28 and 33, T.163N., R.90W., Burke County, ND and establish a 1280-acre spacing unit in the Woburn-Madison Pool consisting of said Sections 28 and 33, with one horizontal well to be drilled on the unit; (iii) establish a minimum setback of 200 feet for the "heel and toe" of each horizontal well authorized in the spacing units described above; and (iv) granting such other relief as may be appropriate.

Case No. 26026: Application of Petro Harvester Operating Co., LLC for an order pursuant to NDAC § 43-02-03-88.1 authorizing saltwater disposal into the Dakota Group in the STC1 SWD #1 well, NWNE Section 2, T.163N., R.93W., Short Creek Field, Burke County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

Signed by,
Doug Burgum, Governor
Chairman, NDIC
August 2, 2017



**Classified
Advertising
Invoice**

Bismarck Tribune

PO BOX 540
Waterloo, IA 50704-0540

888-418-6474

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AUG 14 2017
ND Oil & Gas Div.

OIL & GAS DIVISION

**600 E BLVD AVE #405
BISMARCK ND 58505**

Customer: 60010203
Phone: (701) 328-8020
Date: 08/05/2017

CREDIT CARD PAYMENT (circle one)



Card #: _____

Exp Date: _____

Signature: _____

Credit card users: Fax to 319-291-4014

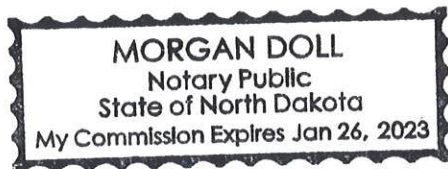
PLEASE DETACH AND RETURN TOP PORTION WITH YOUR PAYMENT

Lee Enterprises no longer accepts credit card payments sent via e-mail. Emails containing credit card numbers will be blocked. Please use the coupon above to send a credit card payment to remittance address located in the upper right corner. You may also send the coupon to a secure fax at 319-291-4014.

Date	Date	Times Run	Description	Lines	Class Code	Order Amt	Net Amt Due
08/05/17	08/05/17	1	Bismarck Tribune	243.00	Legals	201.69	201.69

Affidavit of Publication

State of North Dakota) SS County of Burleigh
Before me, a Notary Public for the State of North Dakota
personally appeared JR 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:
8/5 Signed [Signature]
sworn and subscribed to before me this 5th
day of August 2017
Notary Public in and for the State of North Dakota



Please return invoice or put order number on check. Thank You.

Remarks

Total Due: 201.69

Bismarck Tribune
www.bismarcktribune.com
PO BOX 540
Waterloo, IA 50704-0540

Terms: PAYMENT IS DUE UPON RECEIPT OF INVOICE

**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. Wednesday, August 23, 2017, 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 Thursday, August 10, 2017.

STATE OF NORTH DAKOTA TO:

Case No. 26014: In the matter of a hearing called on a motion of the Commission to consider the confiscation, under NDCC §§ 38-08-04 and 38-08-04.9, of all production-related equipment, and salable oil at the Savelkoul #7-21 well (File No. 24147), NENW Section 7, T.159N., R.84W., Renville County, ND, operated by Strike Oil, Inc., or any working interest owner.

Case No. 26015: In the matter of a hearing called on a motion of the Commission to consider the confiscation, under NDCC §§ 38-08-04 and 38-08-04.9, of all production-related equipment, and salable oil at the Artz #22-42 well (File No. 17606), SENE Section 22, T.163N., R.82W., Bottineau County, ND, operated by Strike Oil, Inc., or any working interest owner.

Case No. 26016: In the matter of a hearing called on a motion of the Commission to consider the confiscation, under NDCC §§ 38-08-04 and 38-08-04.9, of all production-related equipment, and salable oil at the Artz #15-13 well (File No. 17632), NWSEW Section 15, T.163N., R.82W., Bottineau County, ND, operated by Strike Oil, Inc., or any working interest owner.

Case No. 26017: In the matter of a hearing called on a motion of the Commission to consider the confiscation, under NDCC §§ 38-08-04 and 38-08-04.9, of all production-related equipment, and salable oil at the North Dakota State #36-12 well (File No. 21242), SWNW Section 36, T.164N., R.84W., Renville County, ND, operated by Strike Oil, Inc., or any working interest owner.

Case No. 25660: (Continued) Application of QEP Energy Co. for an order suspending, and after hearing revoking, a permit issued to EOG Resources, Inc. for the drilling of the Bear Den 29-3130H (File No. 33303), Bear Den 30-3130H (File No. 33301), Bear Den 31-3130H (File No. 33300), Bear Den 32-3130H (File No. 33306), Bear Den 34-3130H (File No. 33310), Bear Den 109-3130H (File No. 33309), Bear Den 110-3130H (File No. 33308), Bear Den 111-3130H (File No. 33302), Bear Den 113-3130H (File No. 33307), Bear Den 115-3130H (File No. 33299), Bear Den 116-3130H (File No. 33298), Bear Den 117-3130H (File No. 33304), and Bear Den 118-3130H (File No. 33305) wells on a spacing unit for the Spotted Horn-Bakken Pool consisting of Sections 30 and 31, T.150N., R.94W., McKenzie County, ND, and for such

other and further relief as may be appropriate.

Case No. 26018: Application of Remuda Energy Development, LLC, for an order amending the applicable orders to authorize the implementation of an enhanced hydrocarbon recovery project in the Little Missouri-Pierre Unit, Bowman County, ND, through the injection of water or other fluids into one or more wellbores within the unit, or for such other and further relief as may be appropriate.

Case No. 26019: Application of Oasis Petroleum North America LLC for an order amending the applicable orders for the Banks-Bakken Pool, McKenzie County, ND to reduce the setback on either side of the common boundary between two 1280-acre spacing units described as Sections 13 and 24, T.152N., R.98W., and Sections 18 and 19, T.152N., R.97W., to 200 feet, or granting such other relief as may be appropriate.

Case No. 26020: Application of Oasis Petroleum North America LLC for an order amending the applicable orders for the Banks and/or Elidah-Bakken Pools, McKenzie County, ND to establish an overlapping 5120-acre spacing units consisting of Sections 13, 14, 23, 24, 25, 26, 35, and 36, T.152N., R.98W., and authorize up to four horizontal wells to be drilled on the unit, and for such other relief as may be appropriate.

Case No. 26021: Application of Petro Harvester Operating Co., LLC, for an order to (i) extend the outline and amend the applicable orders for the Short Creek Field to include all of Sections 26, 27, 34 and 35, T.164N., R.93W., Burke County, ND; (ii) establish four standup 400-acre spacing units described as the W/2 of Sections 27 and 34; the E/2 of Sections 27 and 34; the W/2 of Sections 26 and 35; and the E/2 of Sections 26 and 35, T.164N., R.93W., in the Short Creek-Madison Pool and allow up to two horizontal wells to be drilled on each unit; (iii) to establish a minimum setback of 200 feet for the "heel and toe" of each horizontal well authorized in the spacing units described above; and (iv) granting such other relief as may be appropriate.

Case No. 26022: Application of Petro Harvester Operating Co., LLC, for an order amending the applicable orders for the Woburn-Madison Pool, Burke County, ND to (i) establish a 1280-acre spacing unit described as all of Sections 4 and 9, T.162N., R.90W., and allow one horizontal well to be drilled on the unit; (ii) extend the outline and amend the applicable orders for the Woburn Field to include all of Sections 28 and 33, T.163N., R.90W., Burke County, ND and establish a 1280-acre spacing unit in the Woburn-Madison Pool consisting of said Sections 28 and 33, with one horizontal well to be drilled on the unit; (iii) establish a minimum setback of 200 feet for the "heel and toe" of each horizontal well authorized in the spacing units described above; and (iv) granting such other relief as may be appropriate.

Case No. 26023: Application of Marathon Oil Co. for an order amending the applicable orders for the Eagle Nest-Bakken Pool to establish a 1920-acre spacing unit described as Sections 4, 9, and 16, T.148N., R.95W., Dunn County, ND, and allow up to eleven horizontal wells to be drilled on the spacing unit, and granting such other relief as may be appropriate.

Case No. 25720: (Continued) Application of Petro-Hunt, L.L.C. for an order authorizing the flaring of gas from the USA 153-96-24C-13-2H (File No. 28461), USA 153-96-24C-13-3H (File No. 28462), USA 153-96-24C-13-4H (File No. 28463), USA 153-96-24C-13-5H (File No. 28464), and USA 153-96-24D-13-6H (File No. 28465) wells completed in the Keene-Bakken Pool, McKenzie County, ND, for a temporary period of time as an exception to the provisions of Commission Order No. 24665 and such other relief as may be appropriate.

Case No. 25931: (Continued) Application of Hess Bakken Investments II, LLC, for an order amending the applicable orders for the Capa-Bakken Pool to establish an overlapping 2560-acre spacing unit consisting of Sections 25, 26, 35 and 36, T.155N., R.96W., Williams County, ND, and authorize one horizontal well to be drilled on the unit, and granting such other relief as may be appropriate.

Case No. 25014: (Continued) Proper spacing for the development of the Big Stone-Bakken Pool, Williams County, ND, redefine the field limits, and enact such special field rules as may be necessary. Hess Bakken Investments II, LLC; Whiting Oil and Gas Corp.

Case No. 26024: Application of Kraken Oil & Gas, LLC pursuant to NDAC § 43-02-03-88.1 for an order allowing oil and gas produced from the Feller 22-15 #2H (File No. 33215), Feller 22-15 #3H (File No. 33216), Feller 22-15 #4H (File No. 33217), Feller 22-15 #5H (File No. 33218), Feller 22-15 #6H (File No. 33219), and Feller-Redfield LE 22-15 #1H (File No. 33713) wells, Sections 14, 15, 22 and 23, T.157N., R.99W., Williams County, ND, to be commingled in a central production facility located in the NWNE of Section 27, T.157N., R.99W., pursuant to NDAC § 43-02-03-48.1 or granting such other and further relief as may be appropriate.

Case No. 26025: Application of Marathon Oil Co. pursuant to NDAC § 43-02-03-88.1 for an order allowing oil and gas produced from the Stohler 41-3H (File No. 16860), Hillesland 31-3TFH (File No. 30266), Rita 41-3TFH (File No. 33598), Sections 3 and 10, T.146N., R.94W., and Stanton 41-3H (File No. 33597), Sections 2, 3, 10 and 11, T.146N., R.94W., Dunn County, ND, wells to be commingled in a central production facility located in Lot 1 of Section 3, T.146N., R.94W., pursuant to NDAC § 43-02-03-48.1 or granting such other and further relief as may be appropriate.

Case No. 26026: Application of Petro Harvester Operating Co., LLC for an order pursuant to NDAC § 43-02-03-88.1 authorizing saltwater disposal into the Dakota Group in the STCI SWD #1 well, NWNE Section 2, T.163N., R.93W., Short Creek Field, Burke County, ND, pursuant to NDAC Chapter 43-02-05 and such other relief as is appropriate.

Case No. 25946: (Continued) Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 16, 21, 28 and 33, T.156N., R.98W., Wheelock-Bakken Pool, Williams County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate.

Case No. 25947: (Continued) Application of Hess Bakken Investments II, LLC, for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 25, 26, 35 and 36, T.155N., R.96W., Capa-Bakken Pool, Williams County, ND, as provided by NDCC § 38-08-08, and such other relief as is appropriate. Signed by: Doug Burgum, Governor Chairman, NDIC

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