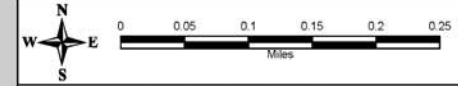


WEST ROTH 2020 3D

Equipment:	Wheeled	Receiver Interval:	250m
Source:	Vibe	Source Interval:	250m
Depth:	N/A	Receiver Spacing:	50m
Size:	N/A	Source Spacing:	50m
Drill Points:	N/A	Receiver Points:	390
Vibe Points:	336	Project Area:	sq. Miles

Vibe Map Date: 2/4/2020

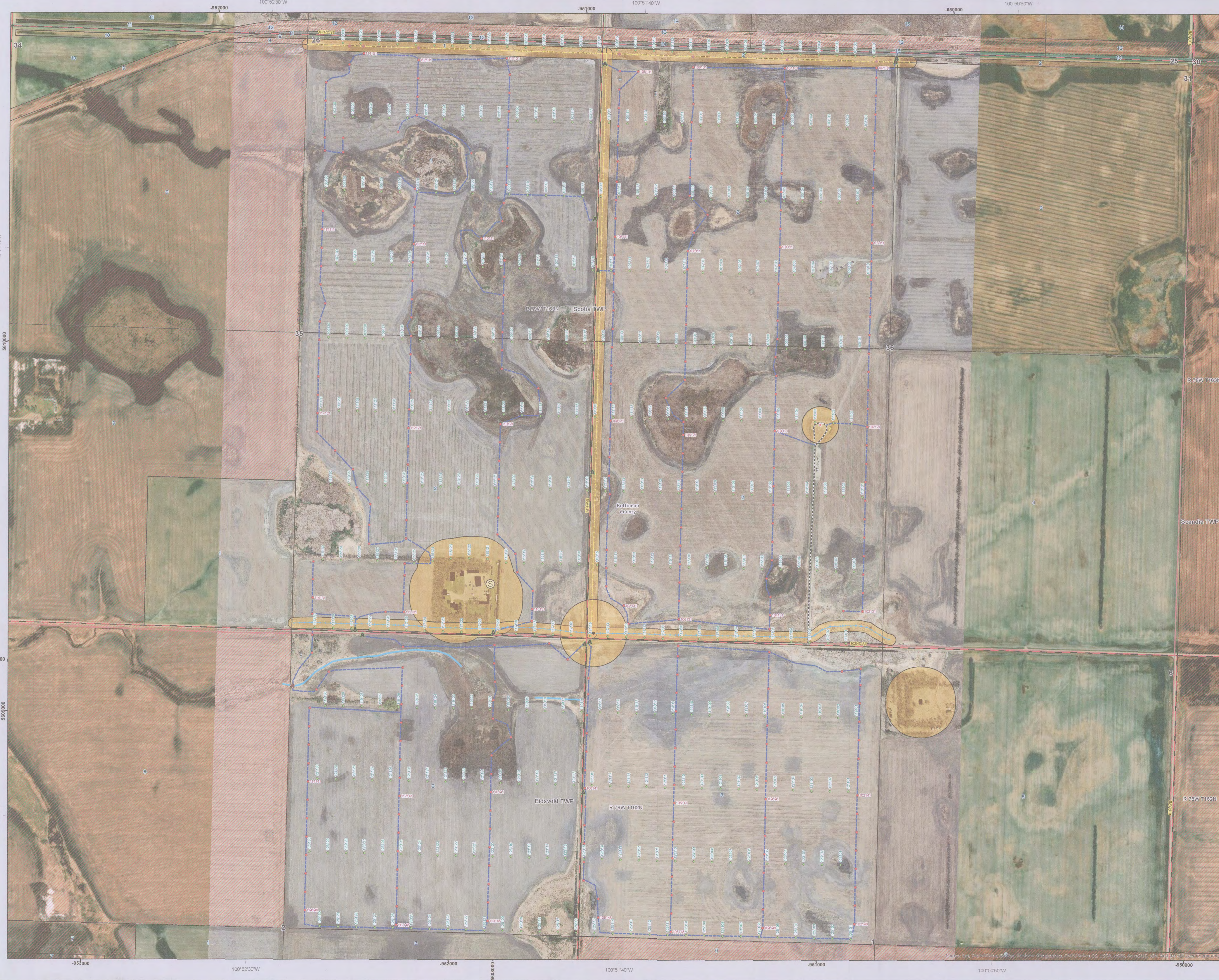


Projection: UTM Zone 14 Datum: NAD83 Scale: 1:4,500

Legend	
● POSTPLOT_SOURCE	— SOURCETRACKS
● POSTPLOT_RECEIVER	— DITCH
● PREPLOT_RECEIVER	--- TRAIL
● PREPLOT_SOURCE	— WATERLINE
— ROADS_COUNTY	— FIBEROPTIC
— ROADS_STATE	— BUFFERS
▲ ACCESS	■ BUILDINGS
● CONCRETE	■ SECTIONS
● CROSSING	■ TOWNSHIPS
● ELECTRIC	■ COUNTIES
● FIBER	■ PARCELS_WESTROTH-2020-3D
● WATERLINE	■ STATUS
● WELLHEAD	■ VERRAL
● -ALL OTHER VALUES-	■ GOOD
● STAGING	■ -ALL OTHER VALUES-



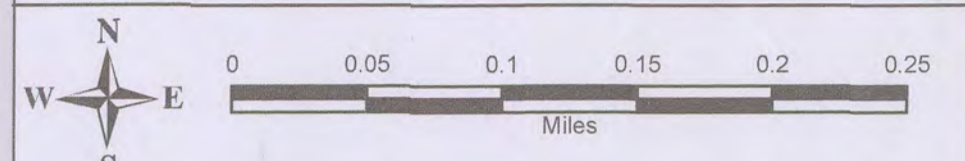
Source: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, ACS, Esri Japan, MSIL, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



WEST ROTH 2020 3D

Equipment:	Wheeled	Receiver Interval:	250m
Source:	Vibe	Source Interval:	250m
Depth:	N/A	Receiver Spacing:	50m
Size:	N/A	Source Spacing:	50m
Drill Points:	N/A	Receiver Points:	390
Vibe Points:	336	Project Area:	sq Miles

Layout Map Date: 2/4/2020



Projection: UTM Zone 14 Datum: NAD83 Scale: 1:4,500

Legend

● POSTPLOT_SOURCE	--- SOURCETRACKS
● POSTPLOT_RECEIVER	--- DITCH
● PREPLOT_RECEIVER	--- TRAIL
● PREPLOT_SOURCE	--- WATERLINE
--- ROADS_COUNTY	--- FIBEROPTIC
--- ROADS_STATE	--- BUFFERS
▲ ACCESS	■ BUILDINGS
◆ CONCRETE	■ SECTIONS
◆ CROSSING	■ TOWNSHIPS
◆ ELECTRIC	■ COUNTIES
◆ FIBER	■ PARCELS_WESTROTH-2020-3D
◆ WATERLINE	■ STATUS
◆ WELLHEAD	■ VERBAL
● <ALL OTHER VALUES>	■ GOOD
⊙ STAGING	■ <ALL OTHER VALUES>



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

CARTOGRAPHY BY NORTHEAST DRAFTED BY S. WOJCIKOWSKI



SEISMIC COMPLETION REPORT
INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 51456 (03-2005)

RECEIVED
APR 16 2020
ND OIL & GAS DIVISION

Permit No. 97-0295	
Shot Hole Operations	*Non-Explosive Operations Vibroseis

SECTION 1

Geophysical Contractor BayGeo, Inc.	
Project Name and Number West Roth 2020 3-D	County(s) Bottineau County
Township(s) 162-163N	Range(s) 79W
Drilling and Plugging Contractors NA	
Date Commenced February 22, 2020	Date Completed February 24, 2020

SECTION 2

First S.P. # NA	Last S.P. # NA										
Loaded Holes (Undetonated Shot Points) NA											
S.P.#'s											
Charge Size											
Depth											
Reasons Holes Were Not Shot											

SECTION 3

Flowing Holes and/or Blowouts S.P.#'s None
Procedure for Plugging Flowing Holes and/or Blowouts NA
Include a 7.5 minute USGS topographic quadrangle map or a computer generated post-plot facsimile of the approximate scale displaying each individual shot hole, SP #, line #, and legal location.

*Non-Explosive Operations - Complete Section 1 and Affidavit.

RECEIVED
APR 16 2020
ND OIL & GAS DIVISION

AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)

STATE OF Michigan)

COUNTY OF Grand Traverse)

Before me, Pam Hornak, a Notary Public in and for the said

County and State, this day personally appeared Philip VanHollebeke


who being first duly sworn, deposes and says that (s)he is employed by _____

BayGeo, Inc., that (s)he has read North Dakota

Century Code Section 38-08.1, that the foregoing seismic project has been completed in

accordance with North Dakota Administrative Code Rule 43-02-12 and that the statements on

the reverse side of this document are true.


Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 23 day of March, 2020

Notary Public 

My Commission Expires 8/26/25

PAMELA SUE HORNAK
NOTARY PUBLIC, STATE OF MI
COUNTY OF LEBLANCH
MY COMMISSION EXPIRES Aug 26, 2025
ACTING IN COUNTY OF Grand Traverse



January 31, 2020

Mr. Ron Carr
Vice President
BayGeo, Inc.
528 Hughes Drive,
Traverse City, MI 49696

RE: WEST ROTH 2020 3-D
GEOPHYSICAL EXPLORATION PERMIT #97-0295
BOTTINEAU COUNTY
NON-EXPLOSIVE METHOD

Dear Mr. Carr:

Be advised that your Geophysical Exploration permit is conditionally approved; effective for one year from January 31, 2020.

PERMIT STIPULATIONS:

- **PURSUANT TO NDAC 43-02-12-05 (DISTANCE RESTRICTION)**
 - Non-explosive exploration methods may not be conducted less than 300 feet from water wells, buildings, underground cisterns, pipelines, and flowing springs.
- **In addition, pursuant to NDAC 43-02-12-06 (NOTIFICATION OF WORK PERFORMED), "The director is authorized to suspend operations of the entire geophysical project, or any portion thereof, if further activity will cause excessive damage to the surface of the land".**

Review the following conditions for your permit:

1. A pre-program meeting with state seismic inspector Tom Torstenson is required. You must contact him at 701-290-1546 (cell) or 701-227-7436 at least 24 hours prior to any exploration operations. Also, a copy of the entire permit is required for all contractors at the pre-program meeting.
2. All variances for distance restrictions are to be furnished, and a pre-plot map displaying any source points that do not comply with the distance restriction rule must be supplied to the inspector.
3. The following information must be submitted within 30 days of the completion of the project by the Geophysical Company:
 - a. Completion Report,

- b. Completion Affidavit,
 - c. Post Plot Map. It must show all water wells, buildings, underground cisterns, pipelines, and flowing springs that fall within the program area and within one half mile of the perimeter of the program.
 - d. Must provide a GIS layer using NAD83 in an Esri shape file format and an Image file (.img) on a Flash Drive or email: ttorstenson@nd.gov with all source and receiver points,
4. The permit agent shall notify the operator of the land at least seven days before commencement of any geophysical exploration activity, unless waived by mutual agreement of both parties. The notice must include the approximate time schedule and the location of the planned activity.
 5. Information regarding the location of water wells, springs, etc.; refer to the following ND State Water Commission Mapservice website, at: <http://mapservice.swc.state.nd.us/>
 6. The entire permit can be viewed, as well as the status of various seismic projects in the state, at: <https://www.dmr.nd.gov/oilgas/seismic/seismicstats.asp>

Should you have any questions regarding this matter, feel free to contact me at 701-328-8020, or Tom Torstenson at the number listed in paragraph 1.

Sincerely,



Todd L. Holweger
Permit Manager



GEOPHYSICAL EXPLORATION PERMIT - FORM GE 1

INDUSTRIAL COMMISSION OF NORTH DAKOTA
 OIL AND GAS DIVISION
 600 EAST BOULEVARD DEPT 405
 BISMARCK, ND 58505-0840
 SFN 51459 (03-2011)

Received

JAN 31 2020

1) a. Company BayGeo, Inc.		Address 528 Hughs Drive, Traverse City, MI. 49696		ND Oil & Gas Division	
Contact Ron Carr		Telephone (231) 941-7660	Fax		
Surety Company United States Fire Insurance Co.		Bond Amount \$25,000.00	Bond Number 6134997303		
2) a. Subcontractor(s)		Address		Telephone	
b. Subcontractor(s)		Address		Telephone	
3) Party Manager Greg Southworth		Address (local) TBA		Telephone (local) (989) 965-4131	
4) Project Name or Line Numbers West Roth 2020 3D - Line Nos. S102 thru S114 (even) R101 thru R125 (odd)					
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D, Other) Non-Explosive (Vibroseis)					
6) Distance Restrictions (Must check all that apply)					
<input checked="" type="checkbox"/> 300 feet - NonExplosive - Distance setbacks apply to water wells, buildings, underground cisterns, pipelines, and flowing springs.					
<input type="checkbox"/> 660 feet - Shot Hole - Distance setbacks apply to water wells, buildings, underground cisterns, pipelines, and flowing springs.					
7) Size of Hole 3-D	Amt of Charge n/a	Depth n/a	Source points per sq. mi. 248.7	No. of sq. mi. 1.351	
Size of Hole 2-D	Amt of Charge	Depth	Source points per ln. mi.	No. of ln. mi.	
8) Approximate Start Date February 5, 2020			Approximate Completion Date March 15, 2020		

THE COMMISSION MUST BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF COMMENCEMENT OF GEOPHYSICAL OPERATIONS

9) Location of Proposed Project - County Bottineau					
Section(s), Township(s) & Range(s)	Section	1,2	T.	162N	R. 79W
	Section	35,36	T.	163N	R. 79W
	Section		T.		R.
	Section		T.		R.
	Section		T.		R.
	Section		T.		R.

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.			Date January 31, 2020
Signature 	Printed Name James Switzer	Title Agent	
Email Address(es) James.Switzer@HarbingerX.com			

(This space for State office use)		Permit Conditions	
Permit No. 97-0295	Approval Date 1/31/2020	<ul style="list-style-type: none"> * Permit in hand required at pre-program meeting with field inspector and be aware of all NDIC Rules and Regulations (i.e. distance restrictions). * See attached letter. 	
Approved by 			
Title Mineral Resources Permit Manager			



West Roth 2020 3D

OPERATIONS

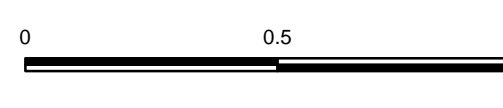
LICENSEE:	BAY GEOPHYSICAL	GEO NO:	
LICENSE NO:	TBA	NTS MAPSHEETS:	
PERMITEE:	TBA	EQUIPMENT:	
PERMIT NO:	TBA	ENERGY SOURCE:	VIBROSEIS
		MAP DATE:	Thursday, January 23, 2020

PROGRAM SUMMARY

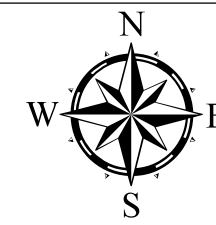
LINE TYPES		LINE TYPES SUBTOTAL
CROSS COUNTRY	█	36.3 km
	█	
	█	
	█	
	█	
	█	
	█	
LANDS CLASSIFICATION SUBTOTAL		36.3 km

PROGRAM TOTAL AREA: 3.4 km²

1:15,000



UTM ZONE	14
DATUM	NAD 83



MAP VERSION

VERSION	DESCRIPTION	DATE
1	Preliminary Plan	
	Operations / Application Map	Jan 21, 2020

Parameters

Receiver:

Type	single/spike
Active Traces	390
Patch (3D)	All Live
Roll in/out	no
Stn Interval	50.00 m
Line Interval (3D)	200.00 m
Array	none
Center	on stn
Point Count	390 pts
Kilometers	19.50 km
No. of Lines	13 lns

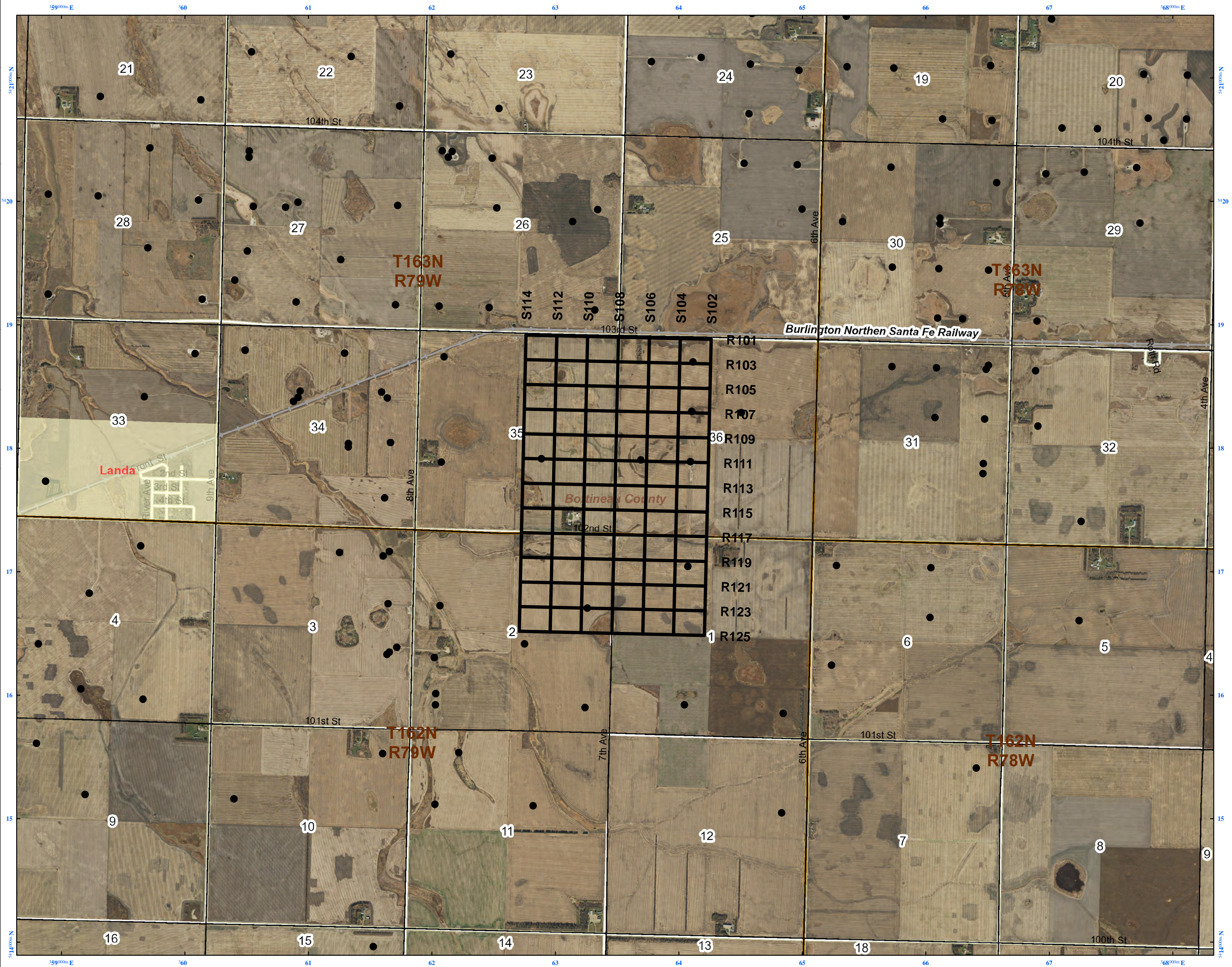
Source:

Type	Dual Vibrator
Effort	10 swps x 12 secs
Stn Interval	50.00 m
Line Interval (3D)	250
Array	2 over ?
Center	on stn
Point Count	336 pts
Kilometers	16.80 km
No. of Lines	7 lns
Extra Source	no

Recording:

Sample Rate	1 ms
Record Length	3 sec

Commencement: Winter 2019/20



IMAGERY:



January 31, 2020

The Honorable Lisa Herbel
Bottineau County Auditor
314 West 5th Ste 10
Bottineau, ND 58318-1204

RE: Geophysical Exploration
Permit # 97-0295

Dear Ms. Herbel:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that BayGeo, Inc. was issued the above captioned permit on January 31, 2020 and will remain in effect for a period of one year. The entire permit can be viewed on our website at: <https://www.dmr.nd.gov/oilgas/seismic/seismicstats.asp>

Should you have any questions, please contact our office.

Sincerely,

A handwritten signature in blue ink, appearing to read "Todd L. Holweger".

Todd L. Holweger
Permit Manager



Harbinger Exploration Corp.

71 Scenic Rise NW, Calgary, Alberta Canada T3L 1A7 Tel: 403-542-6713

January 30, 2020

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

Dear Mr. Todd Holweger:

AFFIDAVIT

Canada)
Province of Alberta) S.S.
)

I, James Switzer, of Calgary, Alberta, Canada, MAKE OATH AND SAY THAT:


1. I, James Switzer, of Calgary, Alberta, Canada an approved agent of BayGeo, Inc., State that all operators of the land and each landowner within one-half mile of the land on which the geophysical exploration activities are to be conducted on the West Roth 2020 3D Seismic exploration program have been provided with a copy of Section 38-08.1 (Exploration Permit) and NDCC Chapter 38.11.1 (Oil and Gas Production Damage Compensation), per the requirement of Geophysical Exploration Permit TBA.

SWORN/AFFIRMED BEFORE ME)

at Calgary

Alberta, on

this 30th day of January



A NOTARY PUBLIC IN AND FOR)

The Province of Alberta





James Switzer

My Commission expires: 06/26/20



Harbinger Exploration Corp.

71 Scenic Rise NW, Calgary, Alberta Canada T3L 1A7 Tel: 403-542-6713

SENT VIA EMAIL/COURIER

January 22, 2020

Industrial Commission of North Dakota
Oil and Gas Division
600 East Boulevard Dept 405
Bismark, ND 58505-0840

Dear Mr. Todd Holweger:

Re: Request for Geophysical Exploration Permit
Geophysical Prospect: West Roth 2020 3D
Company: BayGeo, Inc.
Location: Bottineau County

Please find attached our request for a Geophysical Exploration Permit – Form GE 1 and required additional information. If you have any questions concerning this matter, please contact me at 403-542-6713, or email James.Switzer@HarbingerX.com.

Yours truly,

James Switzer, General Manager
Harbinger Exploration Corp.
James.Switzer@HarbingerX.com

/js
encl.