

• Tank Battery  
 ▲ Post-plot Source

**Structure**

- Barn
- Building
- Cellar
- Dam
- House
- Other
- Shed
- Shop
- Stone/Brick Work
- Tank
- Trailer

**Water Well**

- Spring
- Water
- Windmill

**Petroleum Pipeline**

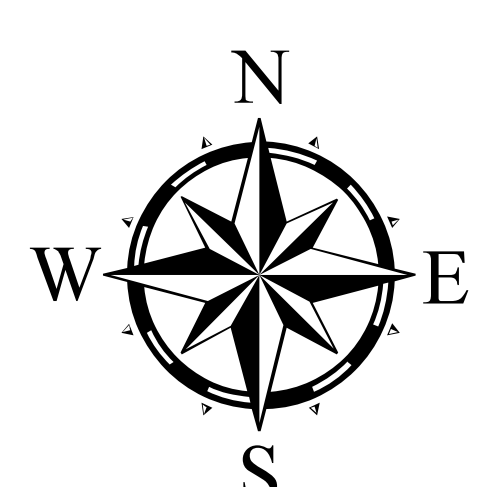
- Co2
- Gas
- Oil
- Water

**Waterline**

- PVC
- Poly Pipe
- Steel
- Unknown

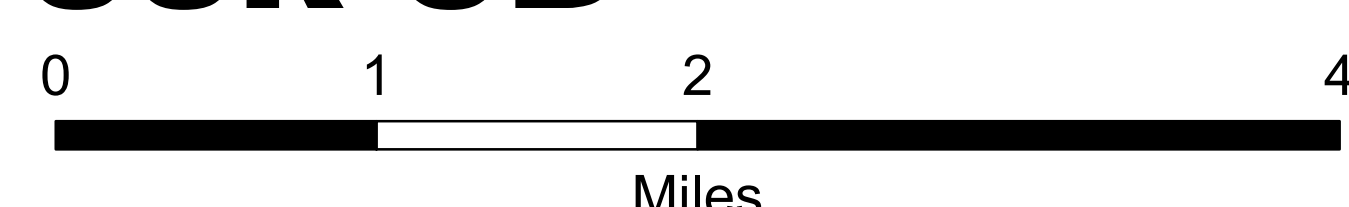
■ Buffers  
 ■ NW Russian Creek Project Outline

State: North Dakota  
 County(s): Dunn, Billings  
 Coordinate System: US State Plane  
 Zone: North Dakota North  
 Datum: NAD 1983 Feet  
 Projection: Lambert Conformal Conic Two Parallel

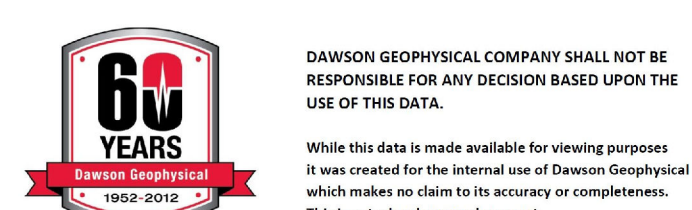
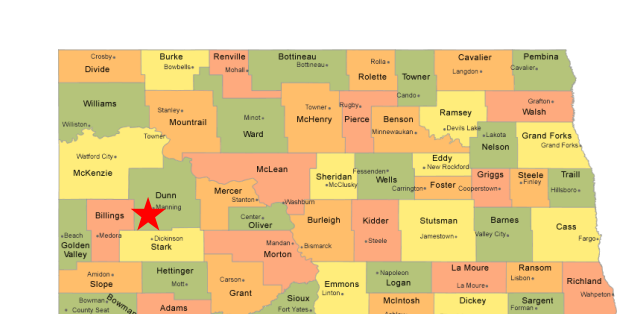


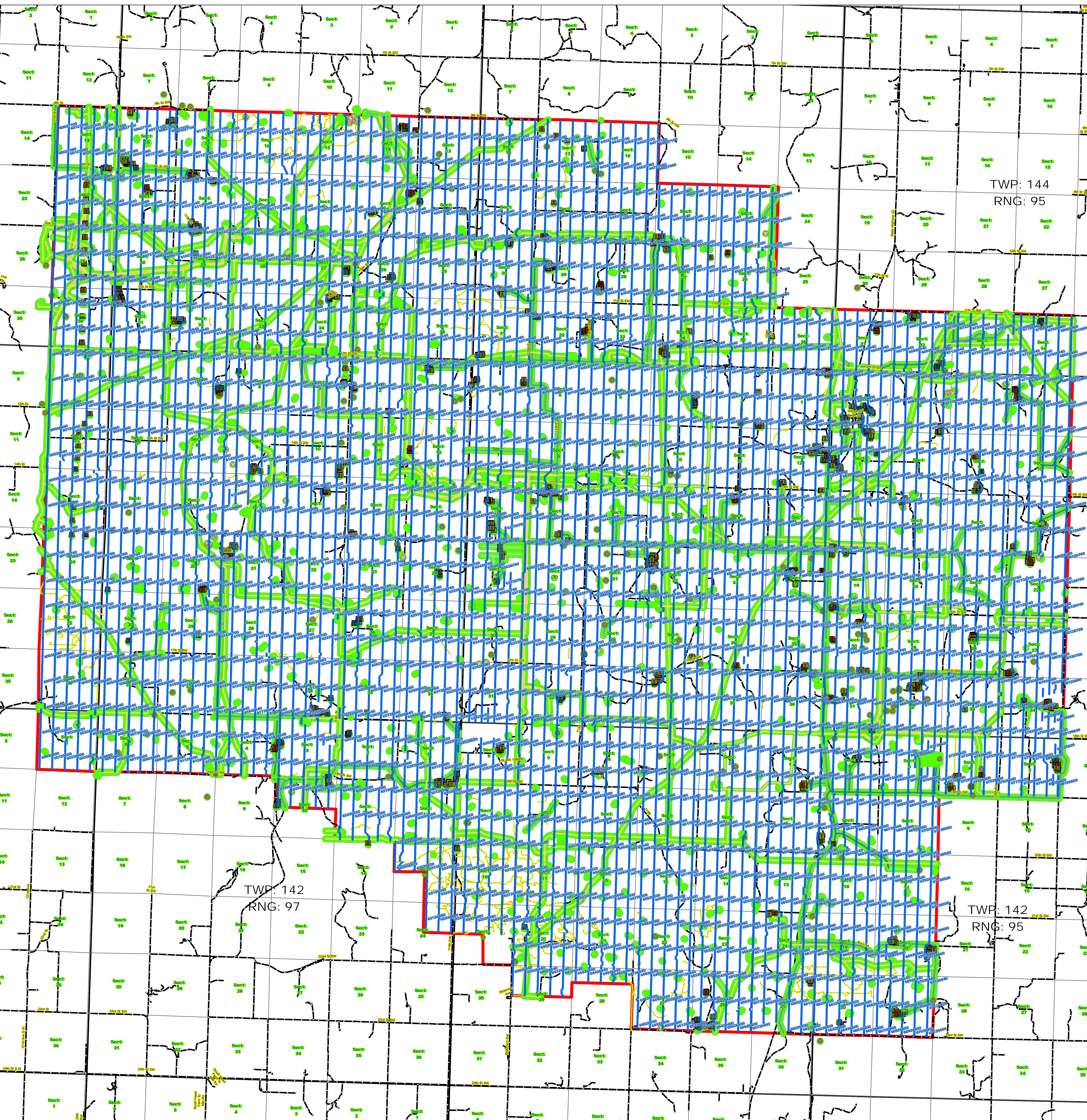
# North West Russian Creek 3D

127,730.9 Acres  
 199.58 Sq. Miles



Date: 3/27/2014





• Post-plot Receiver

**Structure**

- Barn
- Building
- Cellar
- Dam
- House
- Other
- Shed
- Shop
- Stone/Brick Work
- Tank
- Trailer

**Water Well**

- Spring
- Water
- Windmill

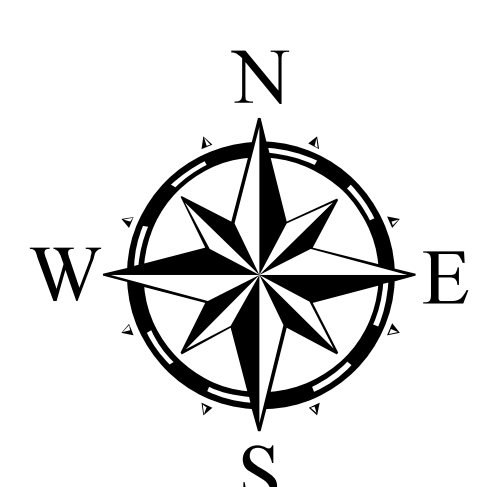
**Petroleum Pipeline**

- Co2
- Gas
- Oil
- Water

**Waterline**

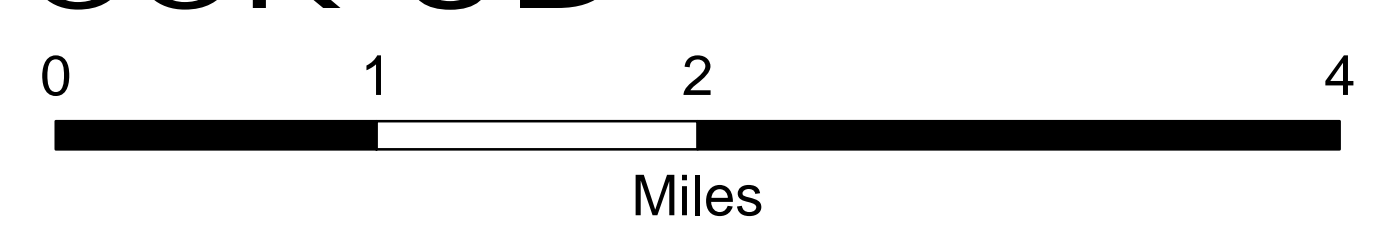
- PVC
- Poly Pipe
- Steel
- Unknown
- Buffers
- Access Route
- Roads
- NW Russian Creek Project Outline

State: North Dakota  
 County(s): Dunn, Billings  
 Coordinate System: US State Plane  
 Zone: North Dakota North  
 Datum: NAD 1983 Feet  
 Projection: Lambert Conformal Conic Two Parallel



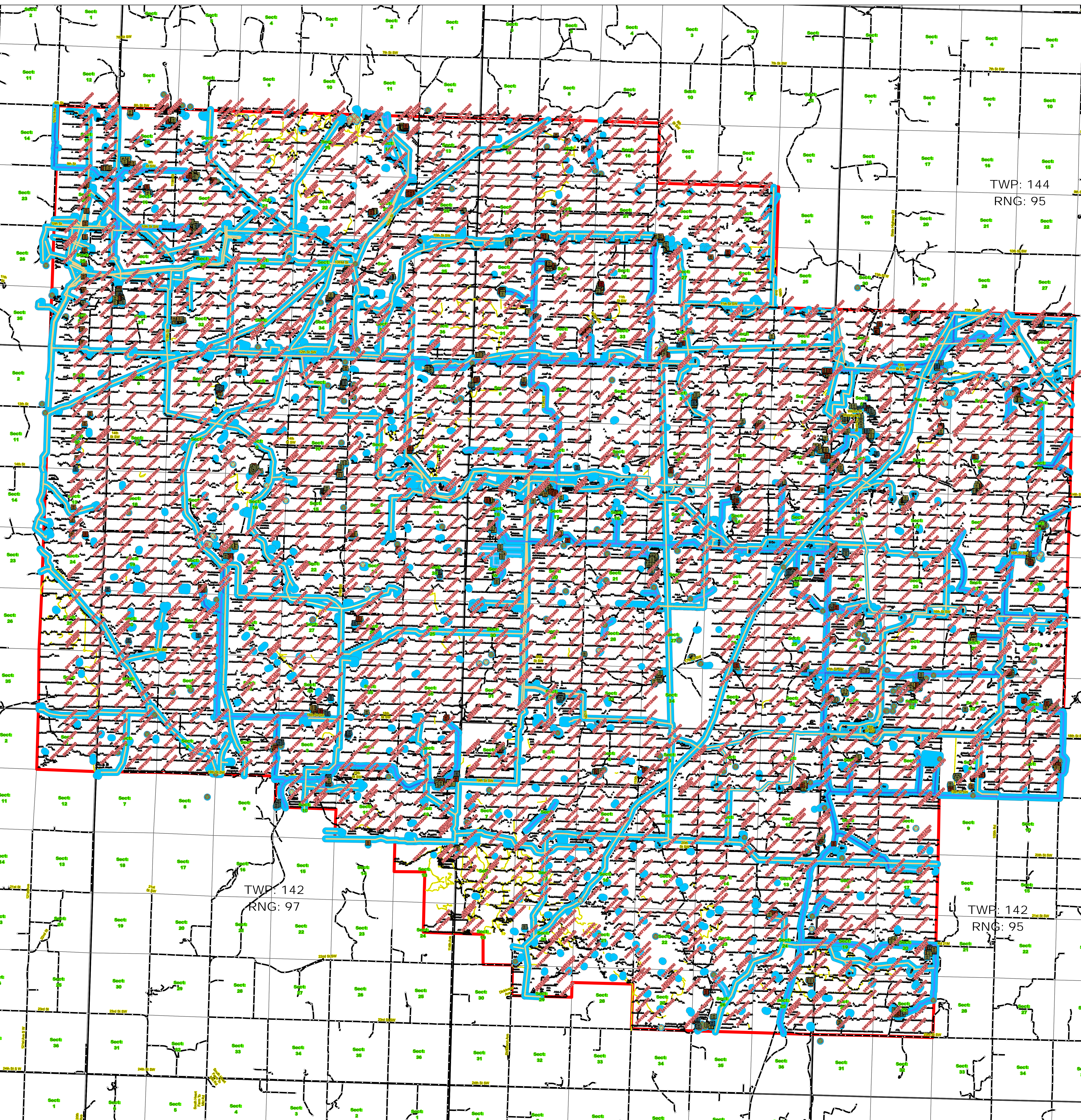
# North West Russian Creek 3D

127,730.9 Acres  
 199.58 Sq. Miles



Date: 3/28/2014





- Tank Battery
  - ▲ Post-plot Source
- Structure**
- Barn
  - Building
  - Cellar
  - Dam
  - House
  - Other
  - Shed
  - Shop
  - Stone/Brick Work
  - Tank
  - Trailer
- Water Well**
- Spring
  - Water
  - Windmill
- Petroleum Pipeline**
- Co2
  - Gas
  - Oil
  - Water
- Waterline**
- PVC
  - Poly Pipe
  - Steel
  - Unknown
  - Buffers
  - Access Route
  - Roads
  - NW Russian Creek Project Outline

State: North Dakota  
 County(s): Dunn, Billings  
 Coordinate System: US State Plane  
 Zone: North Dakota North  
 Datum: NAD 1983 Feet  
 Projection: Lambert Conformal Conic Two Parallel

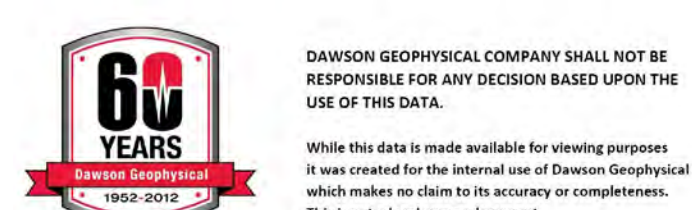


# North West Russian Creek 3D

127,730.9 Acres  
 199.58 Sq. Miles



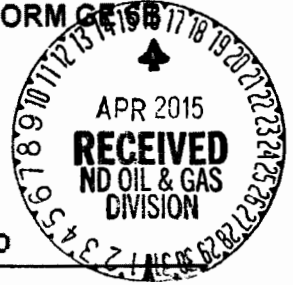
Miles  
 Date: 3/28/2014





**GEOPHYSICAL EXPLORATION AFFIDAVIT OF COMPLETION REPORT - FORM GE 158**

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 51456 (03-2011)



PERMIT NAME (Required): NW Russian Creek 3D

PERMIT NUMBER: 97-0243

**AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)**

STATE OF North Dakota )

COUNTY OF Stark )

Before me, Emily Peacock, a Notary Public in and for the said

County and State, this day personally appeared Derrall W. Romine

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

\_\_\_\_\_ , 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.

Derrall W. Romine

Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 8th day of April, 2014 .

EMILY PEACOCK  
NOTARY PUBLIC, STATE OF NORTH DAKOTA  
MY COMMISSION EXPIRES SEPT 4, 2019

Notary Public

Emily Peacock

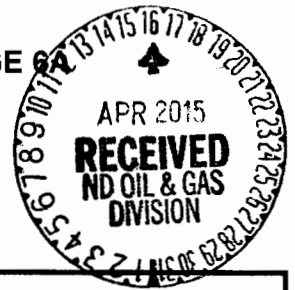
My Commission Expires

9/4/19



# GEOPHYSICAL EXPLORATION COMPLETION REPORT - FORM GE 6B

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 51456 (03-2011)



Permit No. <b>97-0243</b>	
Shot Hole Operations <b>None</b>	*Non-Explosive Operations <b>Vibroseis Method</b>

## SECTION 1

Geophysical Contractor <b>Dawson Geophysical Company</b>	
Project Name and Number <b>NW Russian Creek 3D</b>	County(s) <b>Dunn &amp; Billings</b>
Township(s) <b>142, 143, 144</b>	Range(s) <b>95, 96, 97, 98</b>
Drilling and Plugging Contractors <b>None</b>	
Date Commenced <b>November 4, 2013</b>	Date Completed <b>March 28, 2014</b>

## SECTION 2

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

## SECTION 3

Flowing Holes and/or Blowouts S.P.#s
Procedure for Plugging Flowing Holes and/or Blowouts
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 (Form GE 6B).



William J. Michaeli  
Owner, President  
Office: (970) 471-4878  
Fax: (918) 649-0217

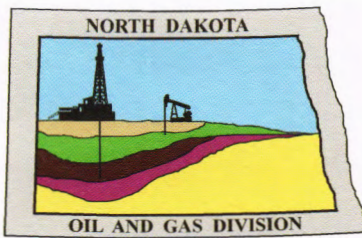
March 25, 2014

To whom it may concern,

The intent of this letter to notify the North Dakota Industrial Commission (NDIC) that Occidental Oil & Gas through their contractor Michaeli Land Services has provided all surface owners within the North West Russian Creek 3D project and all surface owners with lands located within one-half mile of the project a copy of NDCC Section 38-08.1-04.1 and NDCC Chapter 38-11.1 as notification requirements to conduct geophysical operations

Sincerely,

William J. Michaeli  
Michaeli Land Services, LLC  
(970) 471-4878  
bill@michaeliland.com



# 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/](http://www.dmr.nd.gov/oilgas/)

OCTOBER 30, 2013

MR. DARRELL W. ROMINE  
DAWSON GEOPHYSICAL COMPANY  
508 WEST WALL STREET  
STE 800  
MIDLAND, TX 79701

RE:    NW RUSSIAN CREEK 3-D  
       GEOPHYSICAL EXPLORATION PERMIT # 97-0243  
       DUNN & BILLINGS COUNTIES  
       NON-EXPLOSIVE & EXPLOSIVE METHOD

Dear MR. ROMINE:

Please be advised that we are in receipt of your Geophysical Exploration permit application and it is conditionally approved; effective for one year from OCTOBER 30, 2013. **PURSUANT TO NDAC 43-02-12-05 (DISTANCE RESTRICTION) non-explosive AND explosive exploration method may not be conducted not less than 300 feet AND 660 feet respectively from a water well, building, underground cistern, pipelines, and flowing spring. 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".**

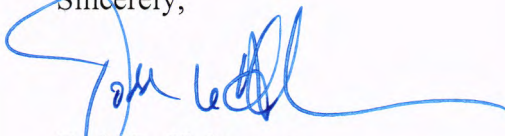
Review the following conditions for your permit:

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. SD card or email: [ttorstenson@nd.gov](mailto:ttorstenson@nd.gov) with all source and receiver points,
  - e. Letter stating that the Geophysical Company has given all surface owner's a copy of the Section and Chapter of the NDCC as stated in paragraph 5.
4. The following information must be submitted within 30 days of the completion of the project by the SUBCONTRACTOR(s) (when applicable):
  - a. Plugging Report
  - b. Plugging Affidavit
5. It is required that within seven days of initial contact between the permitting agent and the operator of the land, the permitting agent shall provide the operator of the land and each landowner owning land within one-half mile of the land on which geophysical exploration activities are to be conducted a written copy of NDCC Section 38-08.1-04.1 (Exploration Permit) and NDCC Chapter 38-11.1 (Oil and Gas Production Damage Compensation). The permitting agent shall file an affidavit with this office confirming compliance with such notification. For your convenience, a copy of both Sections are enclosed.
6. 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.
7. 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/>
8. 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  
DMR 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)



1) a. Company <b>Dawson Geophysical Company</b>		Address <b>508 W Wall, Ste 800, Midland, TX 79701</b>			
Contact <b>Derrall W. Romine</b>		Telephone <b>(432) 681-3000</b>		Fax <b>(432) 684-3030</b>	
Surety Company <b>U.S. Specialty Ins. Co.</b>		Bond Amount <b>\$50,000.00</b>		Bond Number <b>B005272</b>	
2) a. Subcontractor(s)		Address		Telephone	
b. Subcontractor(s)		Address		Telephone	
3) Party Manager <b>Derrall W. Romine</b>		Address (local)		Telephone (local) <b>(248) 719-6178</b>	
4) Project Name or Line Numbers <b>NW Russian Creek 3D</b>					
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D, Other) <b>3D Vibroseis Non-Explosive; Shot-Hole</b>					
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 checked="" type="checkbox"/> 660 feet - Shot Hole - Distance setbacks apply to water wells, buildings, underground cisterns, pipelines, and flowing springs.					
7) Size of Hole <b>3-D 3.5"</b>	Amt of Charge <b>5.5 lbs</b>	Depth <b>40-60 ft</b>	Source points per sq. mi. <b>230</b>	No. of sq. mi. <b>210</b>	
Size of Hole <b>2-D</b>	Amt of Charge	Depth	Source points per In. mi.	No. of In. mi.	
8) Approximate Start Date <b>October 1, 2013</b>			Approximate Completion Date <b>March 15, 2015</b>		

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

9) Location of Proposed Project - County <i>Dunn &amp; Billings</i>					
Section(s), Township(s) & Range(s)	Section <b>See Exhibit "A"</b>	T.	R.		
	Section <b>See Map Attachment</b>	T.	R.		
	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
Signature <i>Matt Michaeli</i>	Printed Name <b>Matthew A. Michaeli</b>	Title <b>Permit Agent</b>	
Email Address(es) matt@michaeliland.com			

(This space for State office use)	
Permit No. <b>970243</b>	Approval Date <b>10/30/13</b>
Approved by <i>[Signature]</i>	
Title <b>Mineral Resources Permit Manager</b>	

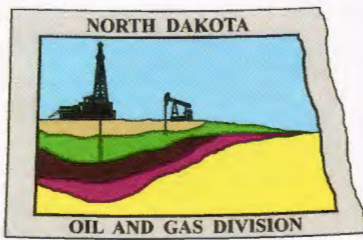
**Permit Conditions**

- \* 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.

**NW Russian Creek 3D**  
**Dawson Geophysical Company**  
**Dunn County, North Dakota**

**Form GE 1 Exhibit "A" Legal Description**

<b>Township</b>	<b>Range</b>	<b>Sections</b>
144 N	98 W	13, 24-25, 36
143 N	98 W	1, 12-13, 24-25, 36
142 N	98 W	1
144 N	97 W	13-36
144 N	96 W	16-23; 26-36
144 N	95 W	31-34
143 N	97 W	1-36
143 N	96 W	1-36
143 N	95 W	3-10; 15-22; 27-34
142 N	97 W	1-6; 10-13; 24
142 N	96 W	1-29
142 N	95 W	3-8; 17-20; 29-30



# 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/](http://www.dmr.nd.gov/oilgas/)

OCTOBER 30, 2013

The Honorable Joan Jurgens  
Billings County Auditor  
P.O. Box 168  
Medora, ND 58645-0168

RE: Geophysical Exploration  
Permit #97-0243

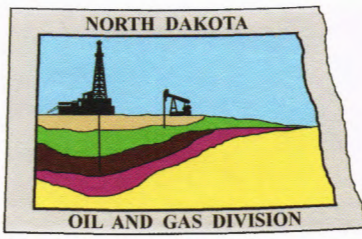
Dear Ms. Jurgens:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that DAWSON GEOPHYSICAL was issued the above captioned permit on OCTOBER 30, 2013 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,

Todd L. Holweger  
DMR Permit manager



# 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/](http://www.dmr.nd.gov/oilgas/)

OCTOBER 30, 2013

The Honorable Reinhard Hauck  
Dunn County Auditor  
205 Owens Street  
Manning, ND 58642-0105

RE: Geophysical Exploration  
Permit #97-0243

Dear Mr. Hauck:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that DAWSON GEOPHYSICAL was issued the above captioned permit on OCTOBER 30, 2013 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,

Todd L. Holweger  
DMR Permit manager



# North Dakota Industrial Commission Department of Mineral Resources Oil & Gas Division

## FORM GE 1 FILING AUTHORIZATION

COMPANY NAME: Dawson Geophysical Company

ADDRESS: 508 W. Wall, Ste 800

CITY: Midland STATE: TX ZIP: 79701

This form authorizes the person(s) listed below to submit a NDIC Geophysical Exploration Permit – Form GE 1 for approval on behalf of the designated company as listed above.

A new authorization will be required if any changes are to be made to the authorized individuals on the form.

The data submitted from the authorized individuals listed below have been checked and conform to the standards and procedures set forth by the NDIC Department of Mineral Resources.

The authorized individual(s) will ensure that the company, as listed above, and party manager receive a copy of the approved Form GE 1

<u>Authorized Individuals</u>	<u>E-Mail Address</u>	<u>Phone Number</u>
Matthew A. Michaeli	matt@michaeliland.com	734-308-4506
Stephen Gilliam	stephen.gilliam@michael	817-966-4028

Company Authorized Signature:  Date: 9-20-2013

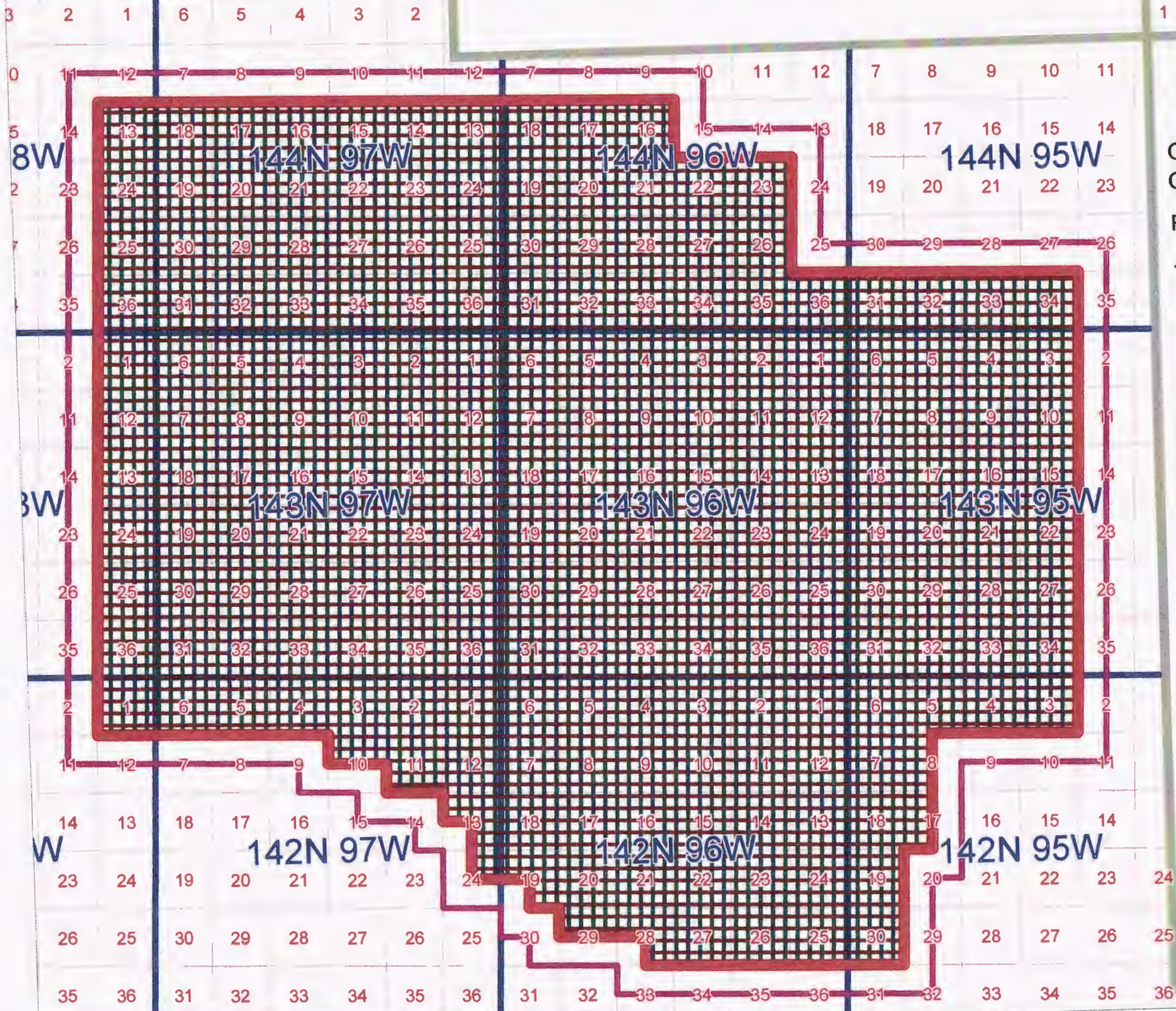
Printed Name: Derrall W. Romine Title: Advance Project Manager

Phone: 248-719-6178 Email Address: romine@dawson3d.com

\*\*\*\*\*  
Witness Signature:  Date: 9-20-2013

Witness Printed Name:  Bobby BRANTLEY

# NW RUSSIAN CREEK 3D SURFACE PERMIT MAP




## LEGEND

OCCIDENTAL  
OIL & GAS CORP.

Project ID: 20613

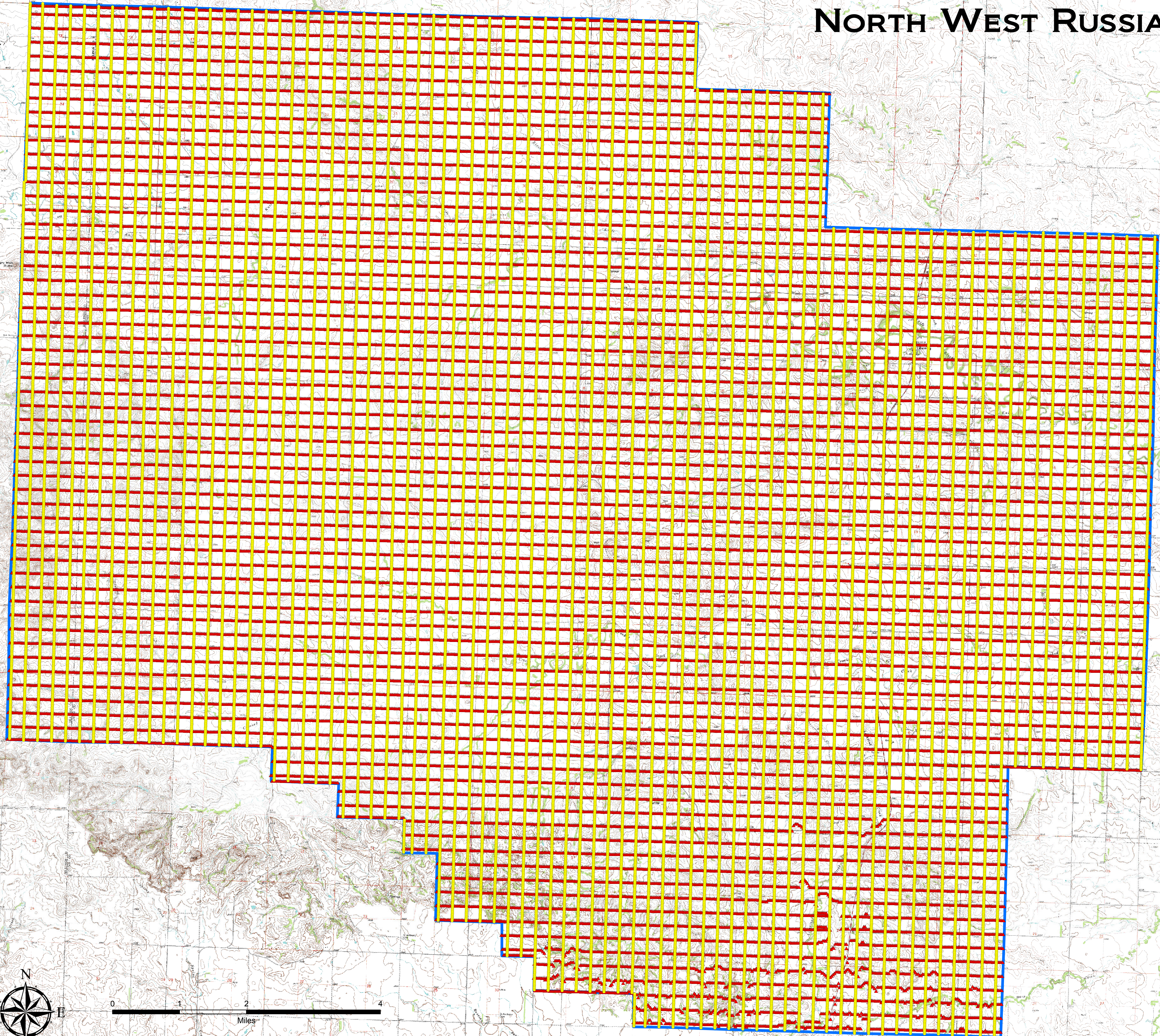
127,300 Acres

-  3D Outline
-  1/2-Mile Halo





# NORTH WEST RUSSIAN CREEK 3D



- Pre-plot Receiver
- ▲ Pre-plot Source
- RussianOutline



DAWSON GEOPHYSICAL COMPANY SHALL NOT BE RESPONSIBLE FOR ANY DECISION BASED UPON THE USE OF THIS DATA.  
While this data is made available for viewing purposes it was created for the internal use of Dawson Geophysical which makes no claim to its accuracy or completeness. This is not a legal survey document.

