



# GEOPHYSICAL EXPLORATION COMPLETION REPORT - FORM GE 6A

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>970178</b>	
Shot Hole Operations	*Non-Explosive Operations <b>3-D Vibroseis</b>

## SECTION 1

Geophysical Contractor <b>Geokinetics USA Ic.</b>	
Project Name and Number <b>Dakota West 3-D</b>	County(s) <b>McKenzie</b>
Township(s) <b>149,150</b>	Range(s) <b>101</b>
Drilling and Plugging Contractors <b>N/A</b>	
Date Commenced <b>December 4, 2009</b>	Date Completed <b>December 19, 2009</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).



**GEOPHYSICAL EXPLORATION AFFIDAVIT OF 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 NAME (Required): Dakota West 3-D

PERMIT NUMBER: 970178

**AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)**

STATE OF Montana )

COUNTY OF Hill )

Before me, JENA HANSON, a Notary Public in and for the said

County and State, this day personally appeared Rickie Scheetz

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

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

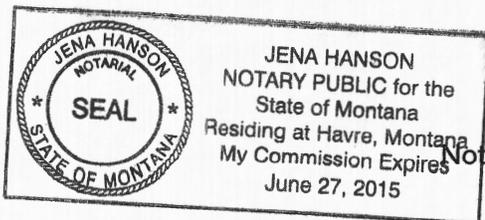
Century Code Section 38-08.1, that the foregoing seismic project has been completed in

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

the reverse side of this document are true.

[Signature]  
Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 20<sup>th</sup> day of May, 15.



Notary Public Jena Hanson

My Commission Expires 6/27/15



# GEOPHYSICAL EXPLORATION PERMIT

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
 OIL AND GAS DIVISION  
 600 EAST BOULEVARD DEPT 405  
 BISMARCK, ND 58505-0840  
 SFN 51459 (02-2008)



1) a. Company <b>Geokinetics USA, Inc.</b>		Address <b>1500 City West Blvd. Ste 800, Houston, Texas 77042</b>	
Contact <b>David E. Bush</b>		Telephone <b>713-840-3380</b>	Fax <b>713-840-3395</b>
Surety Company <b>U.S. Specialty Insurance Company</b>		Bond Amount <b>\$50,000.00</b>	Bond Number <b>B004059</b>
2) a. Subcontractor(s) <b>Erickson Contract Surveying</b>		Address <b>Sidney, Montana 59270</b>	Telephone <b>406-482-6606</b>
b. Subcontractor(s)		Address	Telephone
c. Subcontractor(s)		Address	Telephone
3) Party Manager <b>Juan Trevino</b>		Address (local)	Telephone (local)
4) Project Name or Line Numbers <b>Dakota West 3D</b>			
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D, Other) <b>Non Explosive 3D</b>			
6) Approximate Start Date <b>November 15, 2009</b>		Approximate Completion Date <b>November 15, 2010</b>	

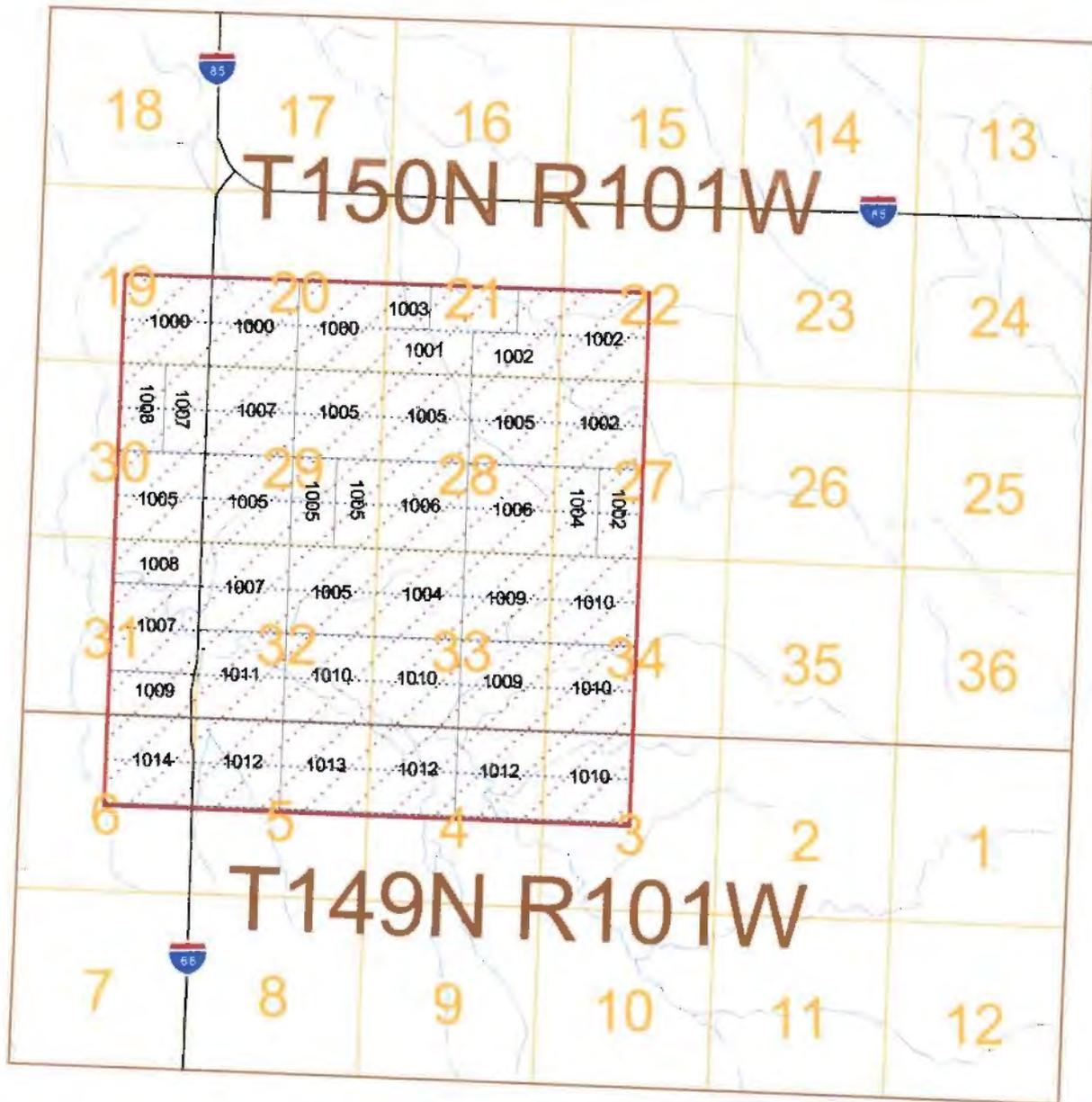
**THE COMMISSION MUST BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF COMMENCEMENT OF DRILL/PLUG OPERATIONS**

7) Location of Proposed Project - County <b>McKenzie County</b>					
Section(s), Township(s) & Range(s)	Section <b>19, 20, 21, 22, 27, 28, 29</b>	T. <b>150</b>	R. <b>101</b>		
	Section <b>30, 31, 32, 33, 34</b>	T. <b>150</b>	R. <b>101</b>		
	Section <b>3, 4, 5, 6,</b>	T. <b>149</b>	R. <b>101</b>		
	Section	T.	R.		
8) Size of Hole <b>3-D NA</b>	Amt of Charge <b>NA</b>	Depth <b>NA</b>	Source points per sq. mi. <b>143.68</b>	No. of sq. mi. <b>9.02</b>	9) Must supply latitudes and longitudes of post-plot source and receiver points on an SD card.
Size of Hole <b>2-D</b>	Amt of Charge	Depth	Source points per ln. mi.	No. of ln. mi.	

10) Anticipated special drilling and plugging procedures?  
**NA**

11) Enclose a pre-plot map with proposed location of seismic program lines and powder mag.

Signed <i>David E. Bush</i>		Title <b>Permit Manager</b>	Date <b>October 15, 2009</b>
(This space for State office use)			Conditions of Approval if any  <i>See Attached letter</i>
Permit No. <b>270178</b>	Approval Date <b>11/16/09</b>		
Approved by <i>David E. Bush</i>	Title <b>Mineral Resources Permit Manager</b>		
County Approval Sent <b>McKenzie</b>			



# Dakota West 3D Surface Map

Area of Interest  
 McKenzie County  
 North Dakota  
 5.00 Square Miles  
 5,780.40 Acres

October 15, 2009

State Plane  
 North Dakota North  
 NAD 83  
 Scale - 1" = 1,000'



**Map Legend**

- Project Outline
- Section Lines
- Stream
- Wetland
- Unconsolidated
- Contour
- Section
- Section



This map has been carefully prepared from official records, maps, engineering data, photographs, and/or other information, which is presented as a courtesy only. We neither warrant nor assume any liability for completeness or accuracy, whether expressed or implied.



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

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November 16, 2009

The Honorable Frances Olson  
McKenzie County Auditor  
P.O. Box 543  
Watford City, ND 58854-0543

RE:    Geophysical Exploration  
       Permit #97-0178

Dear Frances Olson:

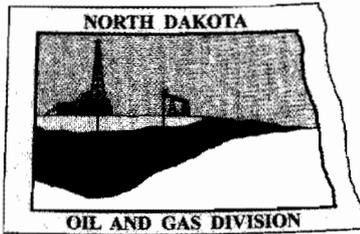
Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Geokinetics USA, Inc. was issued the above captioned permit on November 16, 2009 and will remain in effect for a period of one year. The entire permit can be viewed on our website at: <https://www.dmr.nd.gov/oilgas/seismic/seismicstats.asp>

Should you have any questions, please contact our office.

Sincerely,

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

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

November 16, 2009

Mr. David Bush  
Permit Manager  
Geokinetics USA, Inc  
1500 CityWest Blvd.  
Suite 800  
Houston, TX 77042

RE:    Dakota West 3-D  
      Geophysical Exploration Permit #97-0178  
      McKenzie County

Dear Mr. Bush:

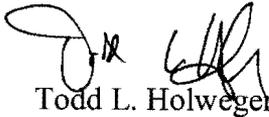
Please be advised that we are in receipt of your Geophysical Exploration permit and it is conditionally approved; effective for one year from November 16, 2009. Review the following conditions for your permit:

1. A pre-program meeting with state seismic inspector Tom Torstenson may be required. You must contact him at 701-290-1546 (cell) or 701-227-7436 at least 24 hours prior to any exploration operations.
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 a letter 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 for the locations 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>

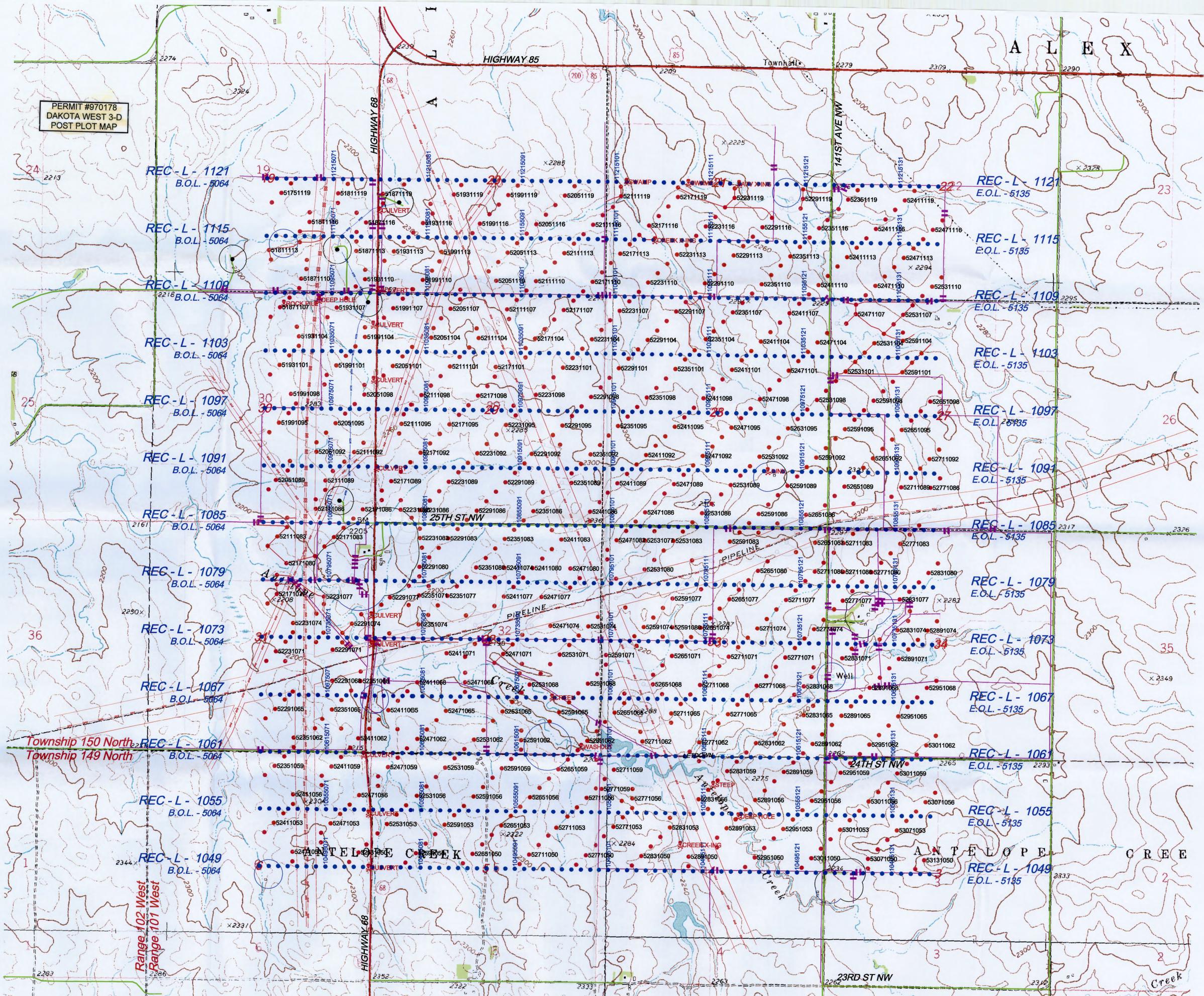
Should you have any questions regarding this matter, feel free to contact me at 701-328-8020, or Tom Torstenson at the number listed in paragraph 1.

Sincerely,



Todd L. Holweger  
Mineral Resources Permit Manager

PERMIT #970178  
DAKOTA WEST 3-D  
POST PLOT MAP



A L E X

HIGHWAY 85

HIGHWAY 68

141ST AVE NW

REC-L-1121  
B.O.L. - 5064

REC-L-1121  
E.O.L. - 5135

REC-L-1115  
B.O.L. - 5064

REC-L-1115  
E.O.L. - 5135

REC-L-1109  
B.O.L. - 5064

REC-L-1109  
E.O.L. - 5135

REC-L-1103  
B.O.L. - 5064

REC-L-1103  
E.O.L. - 5135

REC-L-1097  
B.O.L. - 5064

REC-L-1097  
E.O.L. - 5135

REC-L-1091  
B.O.L. - 5064

REC-L-1091  
E.O.L. - 5135

REC-L-1085  
B.O.L. - 5064

REC-L-1085  
E.O.L. - 5135

REC-L-1079  
B.O.L. - 5064

REC-L-1079  
E.O.L. - 5135

REC-L-1073  
B.O.L. - 5064

REC-L-1073  
E.O.L. - 5135

REC-L-1067  
B.O.L. - 5064

REC-L-1067  
E.O.L. - 5135

REC-L-1061  
B.O.L. - 5064

REC-L-1061  
E.O.L. - 5135

REC-L-1055  
B.O.L. - 5064

REC-L-1055  
E.O.L. - 5135

REC-L-1049  
B.O.L. - 5064

REC-L-1049  
E.O.L. - 5135

Township 150 North  
Township 149 North

Range 102 West  
Range 101 West

HIGHWAY 68

23RD ST NW

ANTELOPE CREEK