



PERMIT NAME (Required): Dakota West Ext. 3-D

PERMIT NUMBER: 970190

**AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)**

STATE OF Montana )

COUNTY OF Richland )

Before me, \_\_\_\_\_, a Notary Public in and for the said

County and State, this day personally appeared Rickie Scheetz

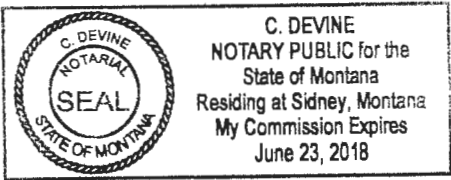
who being first duly sworn, deposes and says that (s)he is employed by \_\_\_\_\_

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 10 day of APRIL, 2015.



Notary Public C. Devine

My Commission Expires June 23, 2018



# 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>970190</b>	
Shot Hole Operations	*Non-Explosive Operations <b>Dakota West Ext. 3-D</b>

## SECTION 1

Geophysical Contractor <b>Geokinetics USA Inc.</b>	
Project Name and Number <b>Dakota West Ext. 3-D</b>	County(s) <b>McKenzie</b>
Township(s) <b>150N</b>	Range(s) <b>101W,102W</b>
Drilling and Plugging Contractors	
Date Commenced <b>June 17, 2010</b>	Date Completed <b>July 7, 2010</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).



**SUNDRY NOTICE**

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SPN 51456 (03-2003)



PERMIT # 970190

Project Name <b>Dakota West Ext 3D</b>
County <b>Mc Kenzie County</b>
Supplemental Information Lockheart Geo will be doing the surveying and recording. Geokinetics will be using the vibe trucks and using Geokinetics employees to operate the vibe trucks.

Company <b>Geokinetics, USA Inc.</b>		
Address <b>1500 City West Blvd, STE 800</b>		
City <b>Houston</b>	State <b>TX</b>	Zip Code <b>77042</b>
By <i>David E. Bush</i> <b>David E. Bush</b>	Date <b>June 11, 2010</b>	
Title <b>US Operations Permit Manager</b>	Telephone Number <b>281-202-7123</b>	

**FOR OFFICE USE ONLY**

Date Received <b>6/11/10</b>
By <i>[Signature]</i>
Title <b>Mineral Resources Permit Manager</b>

**Holweger, Todd L.**

970190

**From:** Mike Comeau [mikec@lockhartgeo.com]  
**Sent:** Friday, June 11, 2010 3:59 PM  
**To:** Holweger, Todd L.  
**Subject:** Lockhart Geophysical Affidavit  
**Attachments:** Affidavit NDOGD.pdf



Mr. Holweger

Original document being mailed UPS today. Please let me know if you need anything else, or something different.

Thank you.

Michael J. Comeau  
Lockhart Geophysical Company  
1600 Broadway, Suite 1660  
Denver, Colorado 80202-4915  
bus: 303-592-5220  
fax: 303-592-5225  
cel: 303-324-8503  
email: mikec@lockhartgeo.com

970190

# AFFIDAVIT



This affidavit is made and effective June 11, 2010.

Lockhart Geophysical Company, a corporation and existing under the laws of Wyoming, with its head office located at: 1600 Broadway, Suite 1660 ~ Denver, Colorado 80202-4915, is being contracted through Geokinetics USA Inc. to complete the Dakota West Extension 3D seismic program located in McKenzie County, ND. Lockhart Geophysical Company is contracted to complete surveying and recording ONLY.

Michael J. Comeau  
President, Lockhart Geophysical Company

## ACKNOWLEDGEMENT

State of Colorado

County of Denver

On June 11, 2010 before me, TRACY ROBINSON, notary, personally appeared MICHAEL J. COMEAU, personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal.

Signature:   
Notary

My commission expires: 7/30/2011



AFFIDAVIT OF SUNDRY (GEOPHYSICAL CONTRACTOR)

STATE OF TEXAS

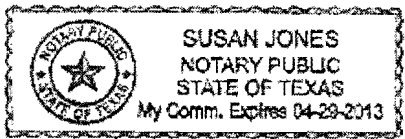
COUNTY OF POLK

Before me, SUSAN JONES, a Notary Public in and for the

said County and State, this day personally appeared David E. Bush who being first duly sworn, deposes and says that  he is employed by Geokinetics USA, Inc., that (s)he has read North Dakota Oil and Gas Rules and regulations, that the foregoing seismic project permit needs to be adjusted to reflect new information included in the Sundry notice attached for permit 970190. Also that the statements on the Sundry are true.

David Bush  
Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 11th day of June, 2010.



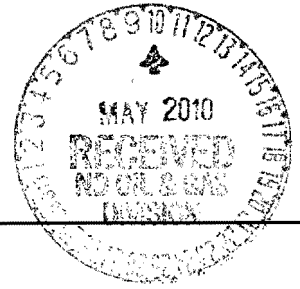
Notary Public Susan Jones

My Commission Expires 4-29-2013



# 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)



970190

1) a. Company <b>Geokinetics USA, Inc.</b>		Address <b>1500 City West Blvd Ste 800</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>Ewing Surveys USA, LLC</b>		Address <b>28248 N. Tatum Blvd. Cave Creek, AZ 85331</b>	
b. Subcontractor(s)		Telephone <b>435-621-2373</b>	
c. Subcontractor(s)		Telephone	
3) Party Manager <b>Nickey Blackney</b>		Address (local)	
Telephone (local)			
4) Project Name or Line Numbers <b>Dakota West Ext 3D</b>			
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D, Other) <b>Non Explosive 3D</b>			
6) Approximate Start Date <b>May 15, 2010</b>		Approximate Completion Date <b>June 30, 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>1, 12, 13</b>	T. <b>150</b>	R. <b>102</b>		
	Section <b>4, 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 21, 28, 29, 30</b>	T. <b>150</b>	R. <b>101</b>		
	Section	T.	R.		
	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>108.83</b>	No. of sq. mi. <b>8.38</b>	9) Must supply latitudes and longitudes of post-plot source and receiver points on an SD card.
Size of Hole <b>2-D NA</b>	Amt of Charge <b>NA</b>	Depth <b>NA</b>	Source points per ln. mi. <b>NA</b>	No. of ln. mi. <b>NA</b>	

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>May 1, 2010</b>
--------------------------------	--------------------------------	----------------------------

(This space for State office use)		Conditions of Approval if any  <b>See Attached letter</b>
Permit No. <b>970190</b>	Approval Date <b>5/13/10</b>	
Approved by <i>Don [Signature]</i>		
Title <b>Mineral Resources Permit Manager</b>		
County Approval Sent <b>McKenzie</b>		

\*See Instructions On Reverse Side

# Oil and Gas Division

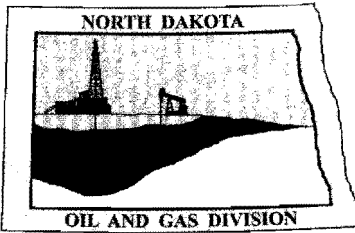
Lynn D. Helms - Director      Bruce E. Hicks - Assistant Director

**Department of Mineral Resources**

Lynn D. Helms - Director

**North Dakota Industrial Commission**

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



May 13, 2010

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

RE:    Geophysical Exploration  
       Permit #97-0190

Dear Frances Olson:

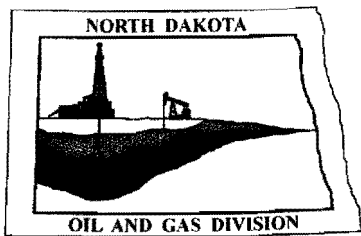
Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Geokinetics USA, Inc. was issued the above captioned permit on May 13, 2010 and will remain in effect for a period of one year. The entire permit can be viewed on our website at: <https://www.dmr.nd.gov/oilgas/seismic/seismicstats.asp>

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

May 13, 2010

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

RE: Dakota West 3D Extension  
Geophysical Exploration Permit #97-0190  
McKenzie County

Dear Mr. Bush:

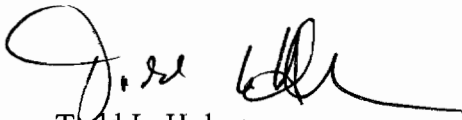
Please be advised that we are in receipt of your Geophysical Exploration permit and it is conditionally approved; effective for one year from May 13, 2010. Review the following conditions for your permit:

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.

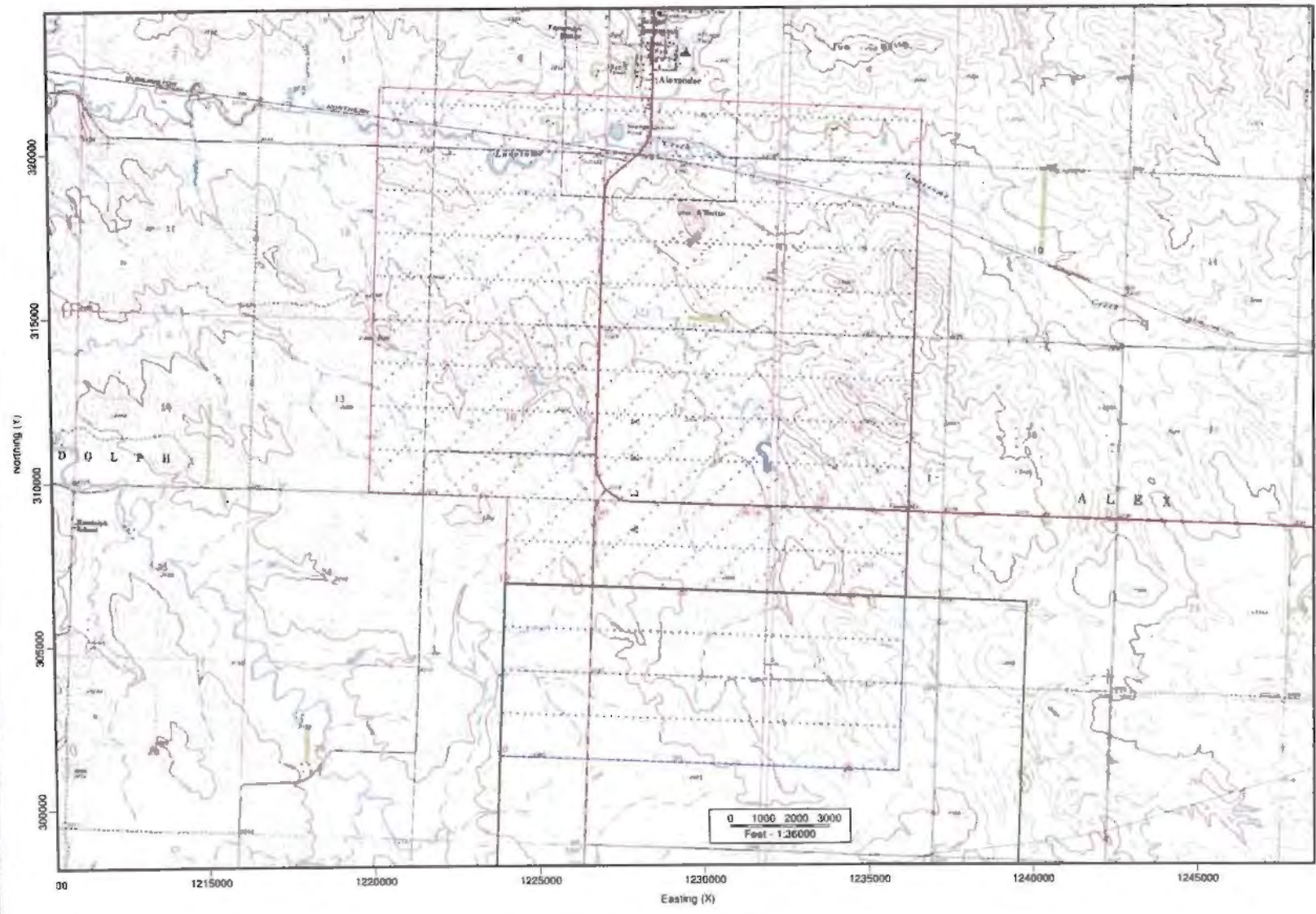
Sincerely,



Todd L. Holweger  
Mineral Resources Permit Manager

# Dakota West 3D Extension

## Design Map. Option 2



<b>Date:</b>	22-Feb-09
<b>Area (sq.miles):</b>	
Rec	10.67
Sou	8.38
<b>Receivers</b>	
Line Interval:	1320
Line Bearing:	92.4
Group Interval:	220
Total:	1071
Per Square Mile:	100.4
<b>Sources</b>	
Line Interval:	1320
Line Bearing:	47.4
Group Interval:	220
Inline Interval:	311.13
Total:	802
Per Square Mile:	95.7
<b>Design</b>	
Type:	Slant 45
Bin Size:	110 x 110
Patch Size:	20 x 120
Max. Fold:	-100
Roll Lines:	yes
Roll Stations:	yes
<b>Statistics</b>	
Xmin:	155.6
Xmax:	18512.10
Ratio:	0.96
Mckenzie County, ND	
North Dakota North (FIPS 3301)	
NAD27, feet	

970190

# Dakota West 3D Ext.

