



# 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>Schlumberger Technology Corporation</b>		Address <b>300 Schlumberger Drive, Sugar Land, TX 77478</b>	
Contact <b>John Robert Manek</b>	Telephone <b>+1 405 301 7298</b>	Fax <b>+1 318 688 9216</b>	
Surety Company <b>Liberty Mutual Insurance Company</b>	Bond Amount <b>\$25,000</b>	Bond Number <b>16-036-783</b>	
2) a. Subcontractor(s)	Address	Telephone	
b. Subcontractor(s)	Address	Telephone	
c. Subcontractor(s)	Address	Telephone	
3) Party Manager <b>Robert Nichols</b>	Address (local) <b>4996 140th Avenue NW, Williston, ND</b>	Telephone (local)	
4) Project Name or Line Numbers <b>Mylo Wolding VSP</b>			
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D, Other) <b>Non-explosive 2D</b>			
6) Approximate Start Date <b>March 1, 2010</b>		Approximate Completion Date <b>March 12, 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>Mountrail</b>					
Section(s), Township(s) & Range(s)	Section <b>2, 10, 11, 14, 15</b>	T. <b>151N</b>	R. <b>93W</b>		
	Section	T.	R.		
	Section	T.	R.		
	Section	T.	R.		
8) Size of Hole <b>3-D</b>	Amt of Charge	Depth	Source points per sq. mi.	No. of sq. mi.	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. <b>54</b>	No. of ln. mi. <b>2</b>	

10) Anticipated special drilling and plugging procedures?  
**n/a**

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

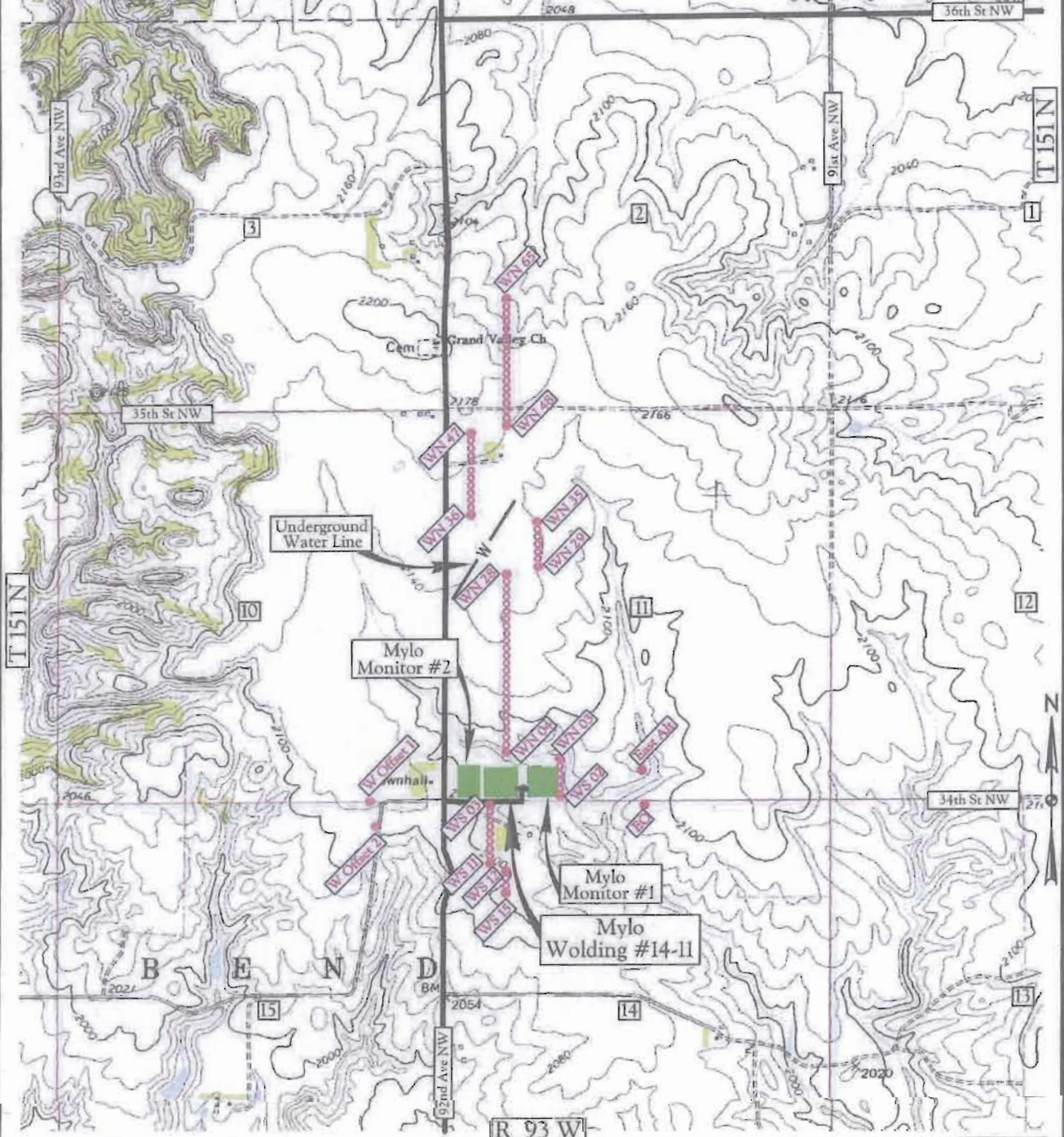
Signed *[Signature]* Title *V.P. STC* Date *02/24/2010*

(This space for State office use)		Conditions of Approval if any  <b>See Attached letter</b>
Permit No. <b>970187</b>	Approval Date <b>2/26/10</b>	
Approved by <i>[Signature]</i>		
Title <b>Mineral Resources Permit Manager</b>		
County Approval Sent <b>Mountrail County</b>		

\*See Instructions On Reverse Side

**Mylo Wolding #14-11**  
**VSP Source Points**  
 S $\frac{1}{2}$ SW $\frac{1}{4}$ , Section 11  
 T 151 N, R 93 W, 5th P.M.  
 Mountrail County, ND

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**Map "B"2**  
**Quad VSP Source Points**

**Legend**

Existing Roads —————

Proposed Roads - - - - -

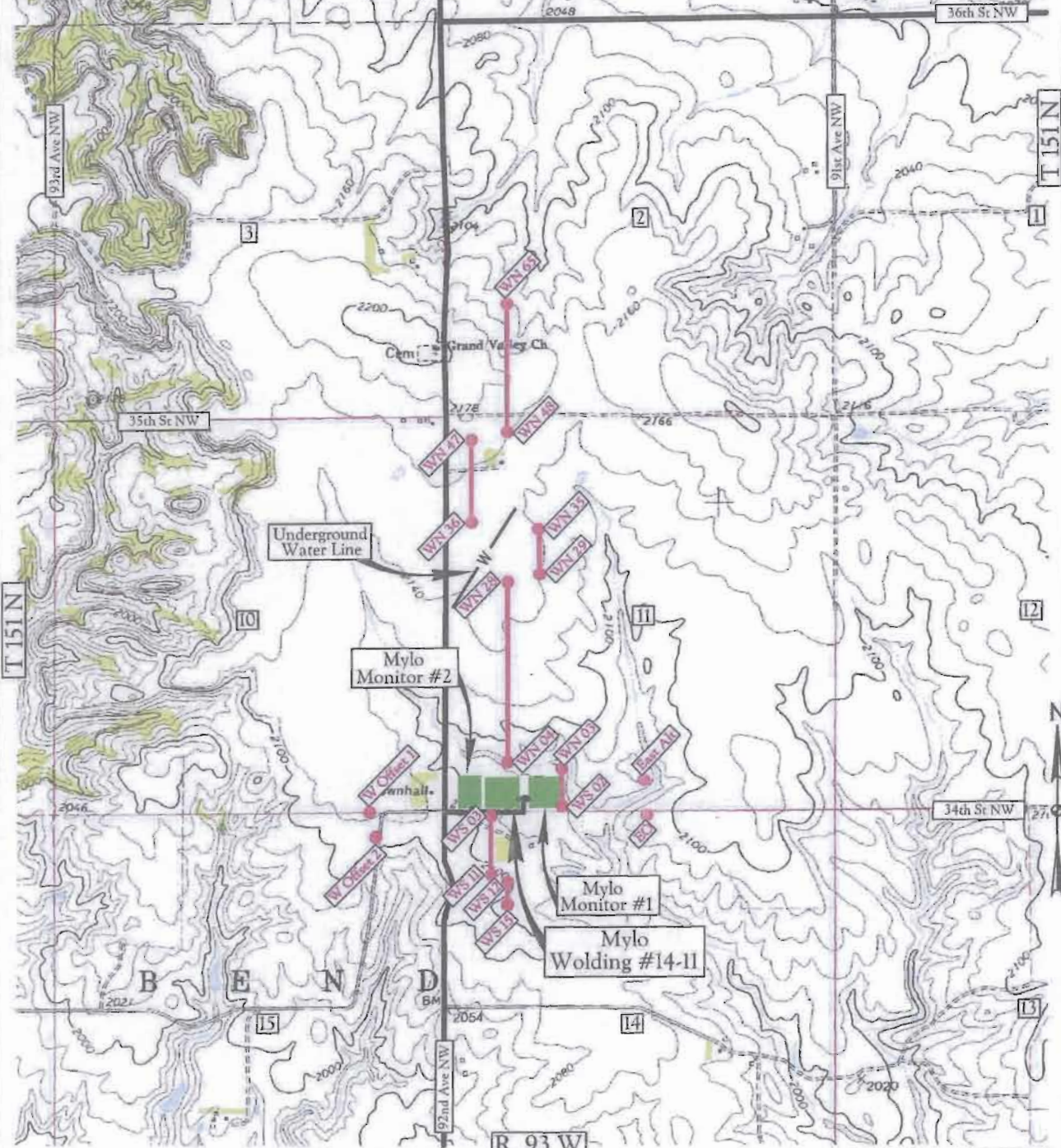
**Kadmas Lee & Jackson**  
 Engineers Surveyors  
 Planners

Scale 1" = 2000'



**Mylo Wolding #14-11  
VSP Source Points  
S<sup>1</sup>/<sub>2</sub>SW<sup>1</sup>/<sub>4</sub>, Section 11  
T 151 N, R 93 W, 5th P.M.  
Mountrail County, ND**

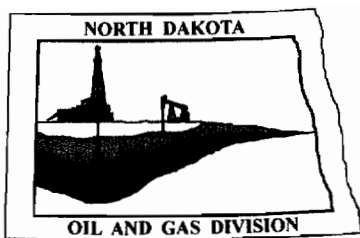
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**Map "B"  
Quad VSP Source Points**

**Legend**  
Existing Roads —————  
Proposed Roads - - - - -

**Kadmas  
Lee &  
Jackson**  
Engineers Surveyors  
Planners  
Scale 1" = 2000'



# 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

February 26, 2010

Mr. John Robert Manek  
Schlumberger Technology Corporation  
300 Schlumberger Drive  
Sugar Land, TX 77478

Mylo Wolding VSP  
Geophysical Exploration Permit #97-0187  
Mountrail County

Dear Mr. Manek:

Please be advised that we are in receipt of your Geophysical Exploration permit and it is conditionally approved; effective for one year from February 26, 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

# Oil and Gas Division

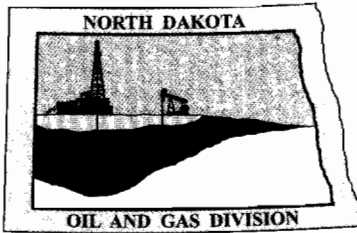
Lynn D. Helms - Director      Bruce E. Hicks - Assistant Director

**Department of Mineral Resources**

Lynn D. Helms - Director

**North Dakota Industrial Commission**

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



February 26, 2010

The Honorable Joan Hollekim  
Mountrail County Auditor  
P.O. Box 69  
Stanley, ND 58784

RE:    Geophysical Exploration  
       Permit #97-0187

Dear Ms. Hollekim:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Schlumberger Technology Corporation was issued the above captioned permit on February 26, 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