



**GEOPHYSICAL EXPLORATION PERMIT**  
 INDUSTRIAL COMMISSION OF NORTH DAKOTA  
 OIL AND GAS DIVISION  
 600 EAST BOULEVARD DEPT 405  
 BISMARCK, ND 58505-0840  
 SFN 51469 (03-2003)



1) a. Company <b>Grant Geophysical Corp.</b>		Address <b>16850 Park Row, Houston Tx. 77084</b>	
Contact <b>Trent Middleton</b>		Telephone <b>(403) 255-9388</b>	Fax <b>(403) 255-4697</b>
Surety Company <b>RLI Insurance</b>		Bond Amount <b>\$50,000.00</b>	Bond Number <b>RLB 00002817</b>
2) a. Subcontractor(s) <b>Erickson Contract Survey's</b>		Address <b>333 10th ave S.E. Sidney, Mont.59270</b>	
b. Subcontractor(s)		Telephone <b>(406) 482-6606</b>	
c. Subcontractor(s)		Telephone	
3) Party Manager <b>Rick Scheetz</b>		Address <b>Sidney, Mont.</b>	
Telephone <b>(281) 620-7041</b>			
4) Project Name or Line Numbers <b>Corey Butte 3D</b>			
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D) <b>Non Explosive</b>			
6) Approximate Drilling Start Date <b>10-15-04</b>		Approximate Completion Date	

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

7) Location of Proposed Project - County <b>Bowman County</b>			
Section(s), Township(s) & Range(s)	Sec. <b>30,31</b>	T. <b>129 N</b>	R. <b>101 W</b>
	Sec. <b>25,26,34-36</b>	T. <b>129 N</b>	R. <b>102 W</b>
	Sec.	T.	R.
	Sec.	T.	R.
8) Size of Hole	Amt of Charge	Depth	Shots per Mi.(sq.mi.)
			<b>114</b>
			<b>4.25</b>
Identifying Marks Used on Nonmetallic Plug			
Geophysical ID	a. Plugger ID	b. Plugger ID	c. Plugger ID

9) Anticipated special drilling and plugging procedures?  
**Bowman County**

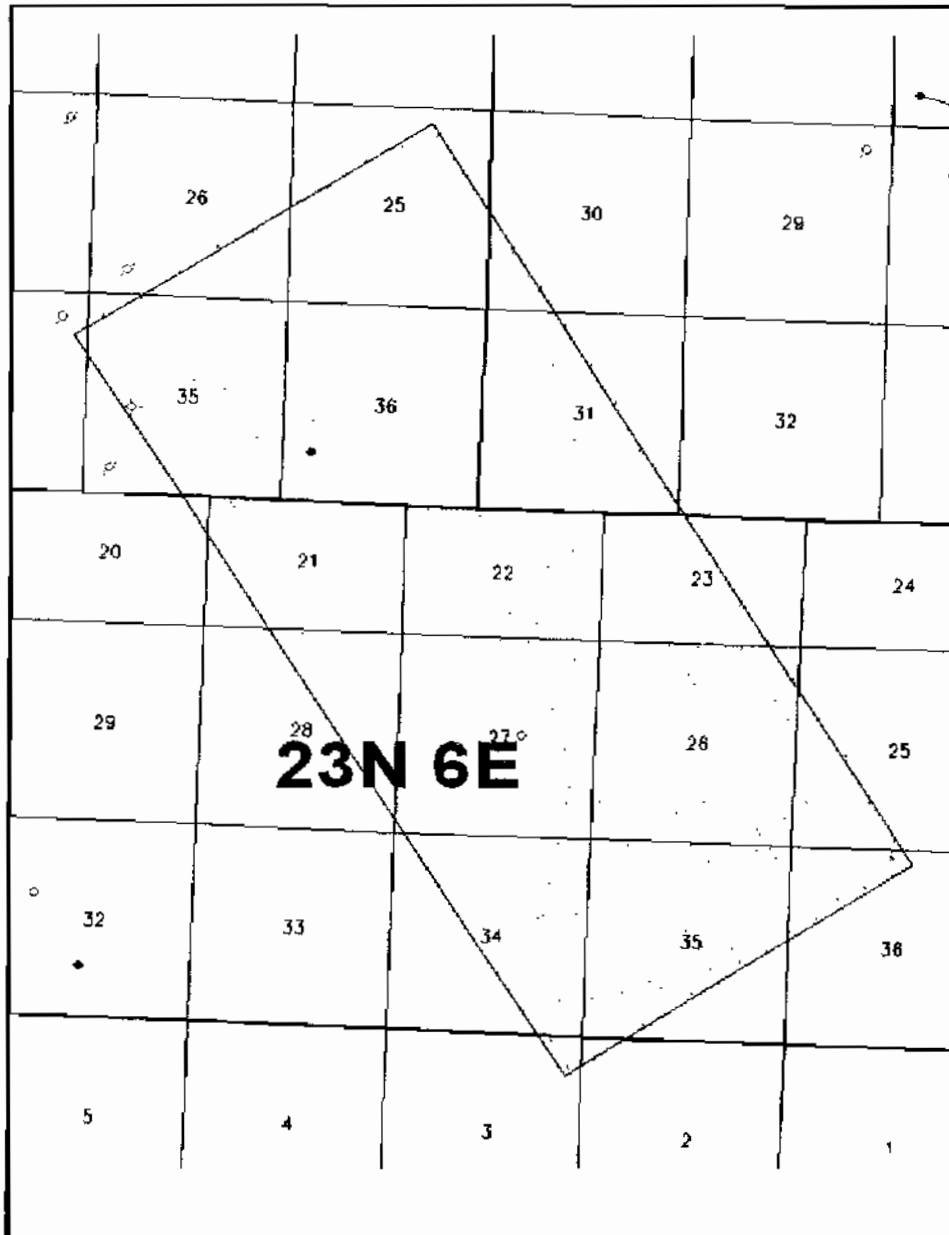
10) Enclose a pre-plot map with proposed location of seismic program lines and powder mag.  
**Bowman County**

Signed <i>Trent Middleton</i>		Title <b>Operations Supervisor</b>		Date <b>September 22, 2004</b>	
(This space for State office use)				Conditions of Approval if any	
Permit No. <b>1970095</b>		Approval Date <b>9/24/04</b>		<i>All attached letters</i>  <i>AMH</i> <b>9/24/04</b>	
Approved by <i>Alfred E. Hutz</i>					
Title <i>Geophysical Regulation Supervisor</i>					
County Approval Sent <i>Bowman</i>					

\*See Instructions On Reverse Side

# Corey Butte 3D

## Design Map and Summary



Survey.osd

Receivers Line Summary:

Average Line Interval	=	880.0	feet
Max # of Included Stations Per Line	=	72	
Average Station Interval	=	220.00	feet
Average Bearing of Lines	=	11.40	degrees

Receivers Summary:

Total # of Included Receivers	=	1372	
Receiver Density	=	159.84	per Sq Mi

Shots Line Summary:

Average Line Interval	=	777.8	feet
Max # of Included Stations Per Line	=	78	
Average Station Interval	=	311.13	feet
Average Bearing of Lines	=	146.40	degrees

Shots Summary:

Total # of Included Shots	=	1111	
Shot Density	=	126.47	per Sq Mi

Obstacle Summary:

Name	Area Sq Mi	Num Shts	Num Recs
Boundary	9.53	1111	1374

Detour Summary:

Requested Parameters:

SI/SL I	=	220/1100
RI/RLI	=	220/ 880

0 5000 10000 15000 20000  
Feet - 1:60000

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

Lynn D. Helms  
DIRECTOR

www.oilgas.nd.gov

Bruce E. Hicks  
ASSISTANT DIRECTOR

Mr. Rick Scheetz

September 24, 2004

Grant Geophysical dba Solid State Geophysical  
P.O. Box 507  
Sidney, MT 59270

RE: Geophysical Exploration Permit # 97-0094 and 97-0095  
Lonetree and Corey Butte 3-D  
Bowman County, North Dakota

Dear Mr. Scheetz:

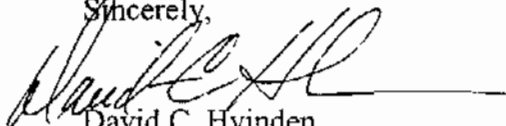
Please be advised that we are in receipt of your Geophysical Exploration permits and have conditionally approved your permits effective for one year from September 24, 2004.

Please 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 701-227-7436 (w) or 701-290-1546 (cell) 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 post plot map must show all water wells, buildings, underground cisterns, pipelines, and flowing springs that fall within the program area and within 300 feet of the perimeter of the program.
4. If available, a SEG P1 with all source and receiver points should be made available to the Oil and Gas Division upon filing of the seismic completion report within 30 days of the completion of the program.

Should you have any questions regarding this matter, feel free to contact me at 701-328-8037, or Tom Torstenson at the number listed in paragraph 1.

Sincerely,



David C. Hvinden  
Geophysical Regulation Supervisor

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

Lynn D. Helms  
DIRECTOR

www.oilgas.nd.gov

Bruce E. Hicks  
ASSISTANT DIRECTOR

September 24, 2004

The Honorable Rory Teigen  
Bowman County Sheriff  
P.O. Box 439  
Bowman, ND 58623

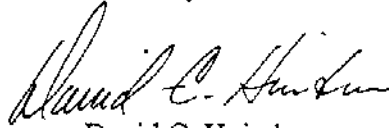
RE: Geophysical Exploration  
Permit # 97-0094 and 97-0095

Dear Sheriff Teigen:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Grant Geophysical Company was issued the above captioned permits on September 24, 2004 and will remain in effect for a period of one year.

Should you have any questions, please contact our office.

Sincerely,



David C. Hvinden  
Geophysical Regulation Supervisor

DCH/dh