

**LEGEND**

- Fenceline
- Highway
- Secondary Road
- Twotrack
- Powerline
- Pipeline
- Railway
- Water Well
- Oil&Gas Well
- Gate
- Control
- Section Corner

149  
148

# Boxcar Butte 3D

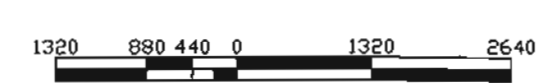
September 25, 1997  
Complete  
Scale 1:1000

- 1618 Preplot Source Points
- 1523 Preplot Receiver Points
- 1620 Surveyed Source Points
- 1522 Surveyed Receiver Points

**CONTROL SET BY EAGLE SURVEYS INTERNATIONAL**

MAP #	DATE	LATITUDE	LONGITUDE	ELEVATION	MAP #	LATITUDE	LONGITUDE	ELEVATION
82001	47 38 52.18236 N	103 39 38.09523 W	720.460	82001	47 38 52.07190 N	103 39 36.39013 W	720.460	82001
82002	47 38 51.43316 N	103 41 58.89910 W	791.144	82002	47 38 51.55104 N	103 42 57.17973 W	791.144	82002

**Eagle Surveys International Inc.**  
Houston, Texas



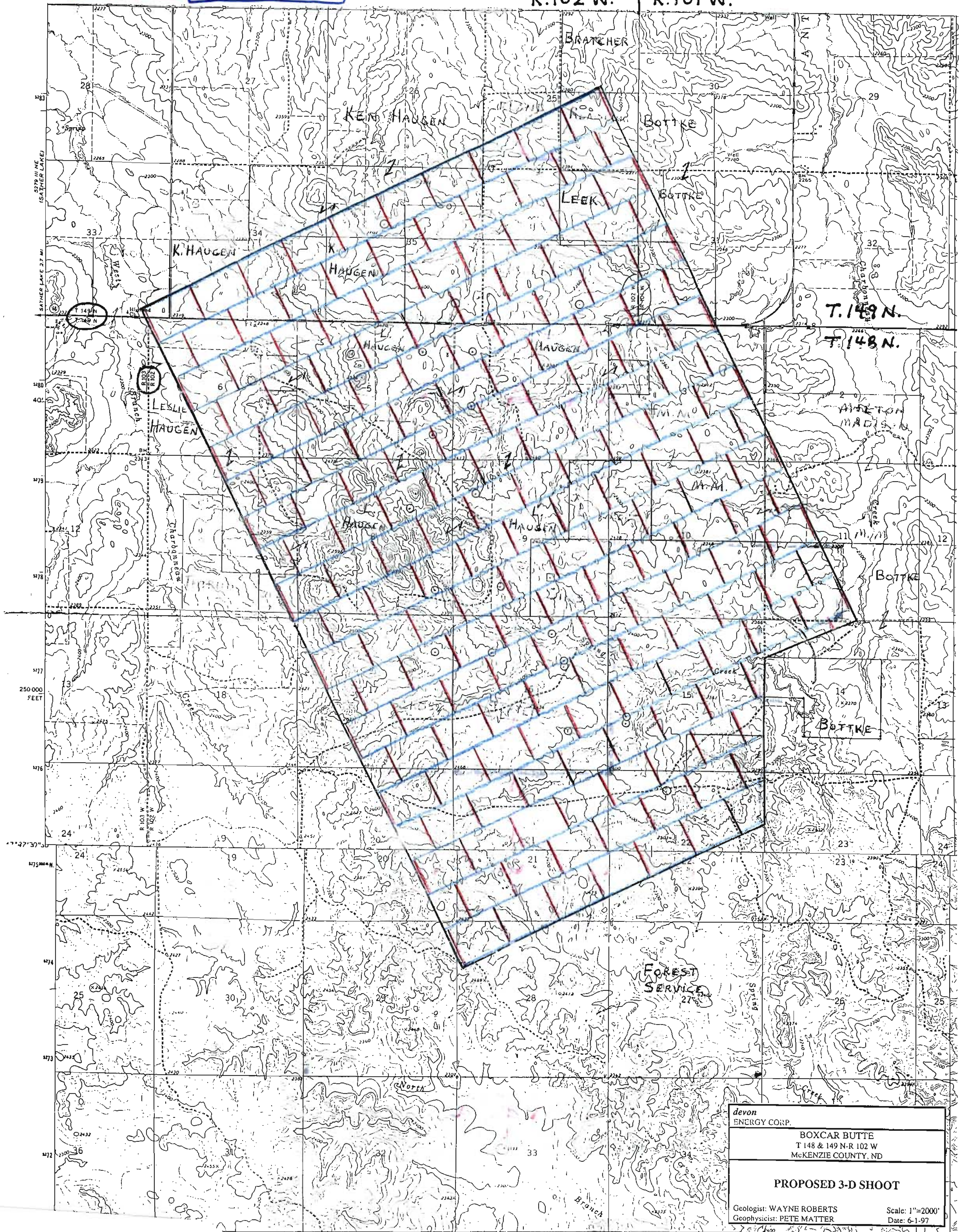


# SOLID STATE GEOPHYSICAL: GEOPHYSICAL CONTRACTOR

DRILL LINES

RECORDING LINES

R. 102 W. | R. 101 W.



devon  
ENERGY CORP.  
BOXCAR BUTTE  
T 148 & 149 N-R 102 W  
McKENZIE COUNTY, ND  
**PROPOSED 3-D SHOOT**  
Geologist: WAYNE ROBERTS  
Geophysicist: PETE MATTER  
Scale: 1"=2000'  
Date: 6-1-97

CLIENT: DEVON ENERGY CORP.





PERMIT NO.: <b>97-0008</b>	<b>*NON-EXPLOSIVE OPERATIONS*</b>
SHOT HOLE OPERATIONS: <b>BOX CAR BUTTE 3D.</b>	

**SECTION 1**

GEOPHYSICAL CONTRACTOR: <b>SOLID STATE GEOPHYSICAL CORP</b>	
PROJECT NAME AND NUMBER: <b>BOX CAR BUTTE 3D</b>	COUNTY(S): <b>MCKENZIE N.D.</b>
TOWNSHIP(S): <b>T48N</b>	RANGE(S): <b>102 W</b>
DRILLING & PLUGGING CONTRACTORS: <b>BARRY VAN HOOK (CONTRACTED DIRECT TO CLIENT)</b>	
DATE COMMENCED: <b>SEP 1, 1997</b>	DATE COMPLETED: <b>NOV-9, 1997</b>

**SECTION 2**

FIRST S.P. #:	LAST S.P. #:									
LOADED HOLES (UNDETONATED SHOT POINTS)										
S.P. #'s:	509 198	557 179	569 179	563 159	557 155	557 160				
CHARGE SIZE::	10 LB.									
DEPTH:	60'									
REASONS HOLES WERE NOT SHOT: <b>FAULTY OR DAMAGED DETONATORS. WIRES WERE PULLED.</b>										

**SECTION 3**

FLOWING HOLES AND/OR BLOWOUTS: S.P.#'s	<b>FLOWING - NONE</b> <b>BLOWOUTS - NONE REPORTED.</b>
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PROCEDURE FOR PLUGGING FLOWING HOLES: AND/OR BLOWOUTS:
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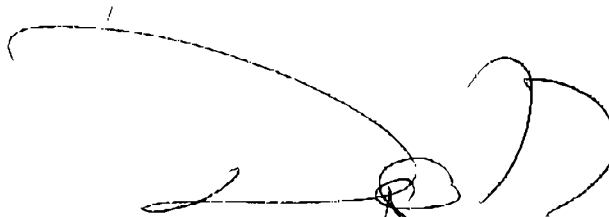
Include a 7.5 minute USGS topographic quadrangle map or a computer generated post-plot facsimile of the approximate scale displaying each individual shot hole, SP #, line #, and legal location.

\*Non-Explosive Operations - Complete Section 1 and Affidavit.

### AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)

STATE OF ~~NORTH DAKOTA~~ Montana )  
 )  
COUNTY OF Flathead )

Before me, Rita H. Hanson, a Notary Public in and for the said County and State, this day personally appeared David J. Fuller who being first duly sworn, deposes and says, that (s)he is employed by Solid State Geophysical, 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.

  
\_\_\_\_\_  
Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 26<sup>th</sup> day of January, 98.

Notary Public Rita H. Hanson

My Commission Expires 9-9-99

NORTH DAKOTA INDUSTRIAL COMMISSION

**OIL AND GAS DIVISION**

Wesley D. Norton  
DIRECTOR

F.E. Wilborn  
ASSISTANT DIRECTOR

January 14, 1998

Mr. Dave Filler  
Solid State Geophysical Corporation  
100 2nd Street East  
Whitefish MT 59937

**RE: Completion Information  
Boxcar Butte 3D  
ND Permit No. 97-0008**

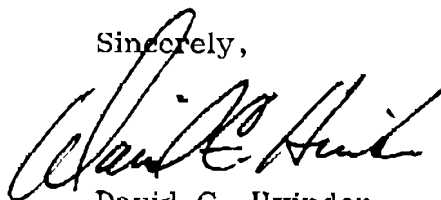
Dear Mr. Filler:

Please be advised that pursuant to North Dakota Administrative Code Section 43-02-12-06 (enclosed) any person performing geophysical exploration shall file a seismic completion report within thirty days of completion of the project.

For your convenience I have enclosed a few copies of our seismic completion reports. Please complete and submit the report and affidavit along with the required post-plot map.

Should you have any questions with regard to this matter, feel free to contact our office.

Sincerely,



David C. Hvinden  
Geophysical Regulation Supervisor

DCH/th  
enc.

AFFIDAVIT OF PLUGGING (HOLE PLUGGER)



STATE OF <sup>Montana</sup> ~~NORTH DAKOTA~~ )  
COUNTY OF Richland )

Before me, Dianne Ebel, a Notary Public in and for the said County and State, this day personally appeared Nancy K. Van Hook who being first duly sworn, deposes and says that (s)he is employed by Exploration Drilling, Inc., that (s)he has read North Dakota Century Code Section 38-08.1 and that the foregoing seismic project has been plugged in accordance with North Dakota Administrative Code Rule 43-02-12 and that the statements on the attached documents are true.

Nancy K. Van Hook  
Hole Plugger Representative

Subscribed in my presence and sworn before me this 12<sup>th</sup> day of November, 1997.

Notary Public Dianne Ebel

My Commission Expires 8/23/98

NORTH DAKOTA INDUSTRIAL COMMISSION

**OIL AND GAS DIVISION**

Wesley D. Norton  
DIRECTOR

F.E. Wilborn  
ASSISTANT DIRECTOR

November 6, 1997

Mr. Mike Iba  
IBA Drilling Co. Inc.  
P.O. Box 1041  
Glendive, MT 59330

RE: Seismic Hole Plugging Reports  
Boxcar Butte 3D - Solid State  
ND Permit #97-0008  
McKenzie County, ND

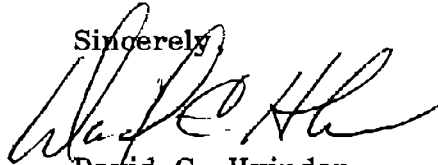
Dear Mr. Iba:

Please find enclosed copies of seismic hole plugging reports and affidavits of plugging. Upon completion of each program, all subcontractors are required to submit their seismic hole plugging logs and an affidavit of plugging.

Please complete the enclosed affidavit and attach it to the above captioned program logs. Also, we request that you consider using the enclosed seismic hole plugging reports for subsequent jobs.

If you have any questions, please contact our office.

Sincerely,



David C. Hvinden  
Geophysical Regulations Supervisor

DCH/dh

Enclosures

NORTH DAKOTA INDUSTRIAL COMMISSION

**OIL AND GAS DIVISION**

Wesley D. Norton  
DIRECTOR

F.E. Wilborn  
ASSISTANT DIRECTOR

November 6, 1997

Mr. Barry Van Hook  
Exploration Drilling Inc.  
Route 2, Box 2150  
Sidney, MT 58270

RE: Seismic Hole Plugging Reports  
Boxcar Butte 3D - Solid State  
ND Permit #97-0008  
McKenzie County, ND

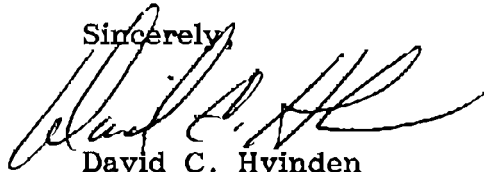
Dear Mr. Van Hook:

Please find enclosed copies of seismic hole plugging reports and affidavits of plugging. Upon completion of each program, all subcontractors are required to submit their seismic hole plugging logs and an affidavit of plugging.

Please complete the enclosed affidavit and attach it to the above captioned program logs. Also, we request that you consider using the enclosed seismic hole plugging reports for subsequent jobs.

If you have any questions, please contact our office.

Sincerely,



David C. Hvinden  
Geophysical Regulations Supervisor

DCH/dh

Enclosures



ATT: DAVE-

701-328-8022

APPLICATION FOR PERMIT TO ENGAGE IN GEOPHYSICAL EXPLORATION  
INDUSTRIAL COMMISSION OF NORTH DAKOTA

OIL AND GAS DIVISION  
600 E BOULEVARD AVE  
BISMARCK, ND 58505

SOLID STATE GEOPHYSICAL, CORP.

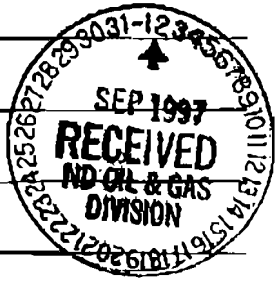
1) Company

b. Permanent Address & Telephone Number  
100 2ND STREET EAST, WHITEFISH, MT, 59937

c. Name & Telephone Number of Company Representative  
DAVID FILLER - 406-863-4848

2) Registered Agent & Address  
- GEORGE SHRIGLEY, CELL 403-502-2694

3) a. Surety Company & Address  
AETNA LIFE & CASUALTY, TORONTO



b. Bond Type & Number  
Shot-Hole 715101077435 Non-Explosive \$25,000 No.  
Driller/Hole Plugger \$10,000 No.  
c. Bond Expiration \_\_\_\_\_

4) a. Subcontractor (check)  
Driller EXPLORATION DRILLING INC. Hole Plugger SOME IBA Only

b. Permanent Address & Telephone Number  
R72, Box 2150 SIDNEY MT 59270

c. Name & Telephone Number of Company Representative  
BARRY VAN HOOK

5) a. Surety Company & Address  
BANK OF N. DAK., BISMARCK CASH

b. Bond Number CASH Expiration \_\_\_\_\_

6) Location of Proposed Project  
County(s) McKENZIE COUNTY ND  
Section(s), Township(s) & Range(s)  
CONVENTIONAL - 4 3/4" AUGER 3 1/2"  
Sec. 30, 31 T 149 R 101  
Sec. 25, 33-36 T 149 R 102  
Sec. 2-11, 14-17, 20-22 T 148 R 102

7) Size of Hole	Amount of Charge	Depth	Shots Per Mile	Number of Miles	Identifying Marks Used on Non-metallic Plug
<u>3 1/2 - 4 3/4</u>	<u>10 LBS</u>	<u>60'</u>	<u>24</u>	<u>52</u>	<u>ID# ED1</u>

8) a. Proposed hole plugging procedure. AS PER REGULATIONS  
b. If other than shot-hole describe method of geophysical operation.

9) a. Project Name or Line Numbers BOX CAR BUTTE 3D | b. Approx. Date Work Will Start SEP 1, 1997 | c. Approx. Date of Completion OCT 1, 1997

10) Enclose a Bureau of Land Management Map (1" = 2 Miles) with proposed line on it.

SIGNED [Signature] TITLE REGIONAL MANAGER DATE 29/NOV/97

(This space for State office use)  
NO. 97-0008 DATE 9/2/97  
APPROVAL DATE 9/2/97  
APPROVED BY [Signature]  
Geophysical Regulation Supervisor  
Approvals sent McKenzie 9/2/97

CONDITIONS OF APPROVAL IF ANY:



NORTH DAKOTA INDUSTRIAL COMMISSION

**OIL AND GAS DIVISION**

Wesley D. Norton  
DIRECTOR

F.E. Wilborn  
ASSISTANT DIRECTOR

September 2 , 1997

Dave Filler  
Solid State Geophysical Corp.  
100 2nd St. E  
Whitefish, MT 59937

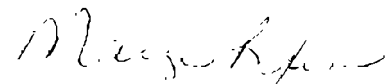
**RE: GEOPHYSICAL EXPLORATION PERMIT NO. 970008  
BOXCAR BUTTE 3D**

Dear Mr. Filler:

This letter will verify the approval of the above-captioned Geophysical Permit effective September 2, 1997.

Please feel free to contact Mr. David Hvinden, Geophysical Regulation Supervisor if you should have any questions.

Sincerely,



Marge Rixen  
Legal Assistant

/mr



NORTH DAKOTA INDUSTRIAL COMMISSION

**OIL AND GAS DIVISION**

Wesley D. Norton  
DIRECTOR

F.E. Wilborn  
ASSISTANT DIRECTOR

September 2, 1997

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

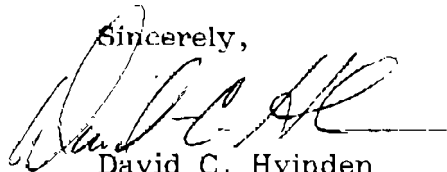
**RE: Geophysical Exploration  
Permit # 97-0008**

Dear Ms. Olson:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Solid State Geophysical Corporation was issued the above captioned permit on September 2, 1997 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/th