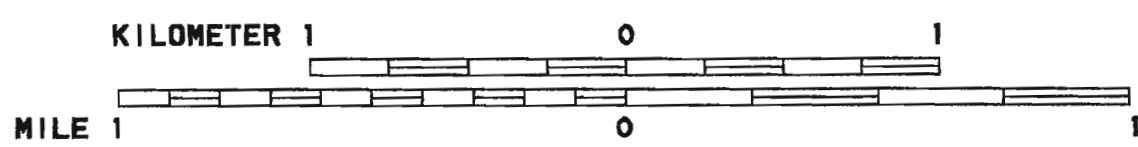


Barnwell of Canada, Limited
DONNYBROOK
 AUTHOR: Capella Exploration Services Ltd.
 DESCRIPTION: Seismic Plot
 FILE NAME: 687
 DATE: 04/06/98
 NTS VERSION: n/a
 UNIVERSAL TRANSVERSE MERCATOR PROJECTION CM = 99
 DATUM = CLARKE 1866



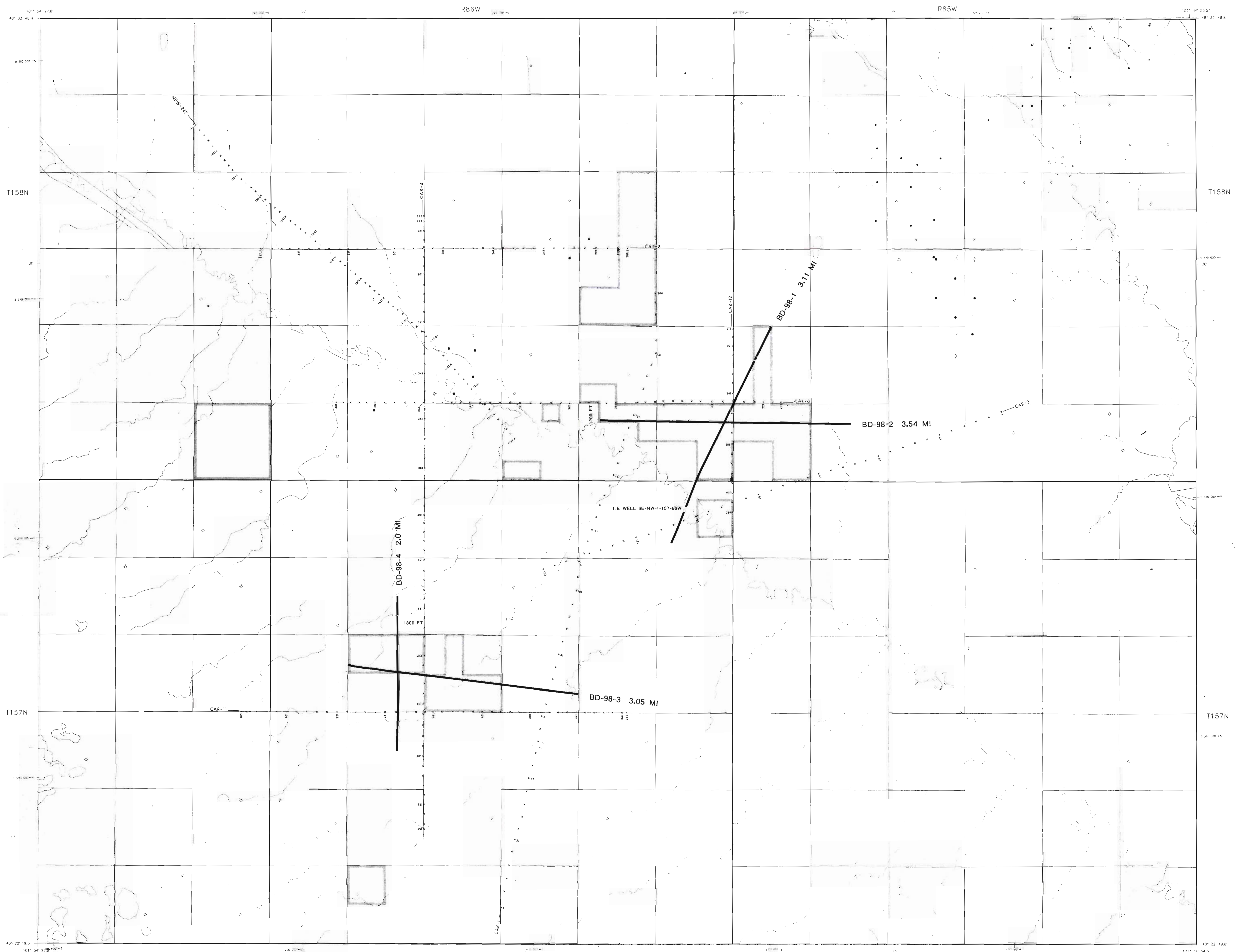
Scale 1:25000

LEGEND

- SHOT POINT
- STATION OR NO HOLE
- SKID OR OFFSET
- NEC OR PIN



970033



WELL LEGEND

○ UNCONFINED/STAINING/OTHER	○ SHUT-IN ABANDONED
● OIL/TURBINE	○ GAS
◆ ABANDONED OIL/TURBINE	○ ABANDONED GAS
■ SPILL/UNREPORTED OIL/SPILL	○ SHUT-IN UNREPORTED OIL
▲ HEAVY OIL EVALUATION	○ GAS INJECTION
● OIL/GAS	○ OBSERVATION
◆ ABANDONED OIL/GAS	○ WATER
● CHEMICAL	○ WATER/OTHER INJECTION
○ CONFINED/TEST/EXPERIMENTAL	○ DISPOSAL
○ SUSPENDED	○ CANCELLED
○ UNREPORTED (location more than 2 years old)	

All Wells Plotted At Surface Location
(See Source Information Appendix 1-1000)

CANEX INFORMATION SERVICES
 SUITE 2200 - 715 - 5th AVENUE S.W.
 CALGARY, ALBERTA
 TELEPHONE: (403) 263-9414
 FACSIMILE: (403) 264-4279

NOTE: THIS MAP IS A TRACKING
 SHOT POINT LOCATION ACCURACY IS
 LIMITED TO COPY USED FOR TRANSFER

SCALE 1:25000

4 0 0 0 METERS

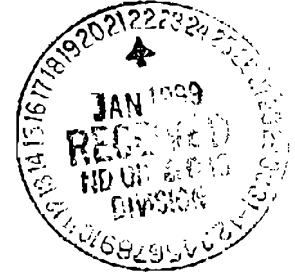
UNIVERSAL TRANSVERSE MERCATOR PROJECTION ZONE 14
 CLARKE 1866 SPHEROID - NAD '27

MAPS PREPARED THIS REPORT		BARNWELL OF CANADA LIMITED	
NO.	TITLE	AREA: DONNYBROOK	
HORIZON		CONTOUR INT.	
TYPE OF MAP		AUTHOR: E.B.D.	
SCALE: 1:25000		DATE: FEB 17, 1998	
GEOLOGICAL INTERPRETATION BY:		REVISION: I	
REVISIONS		TOTAL PROGRAM 11.7 MILES	
SP. LEGEND		E.B. DRAKE GEOPHYSICAL CONSULTANTS LTD.	
● 100% Owned Data			
● 100% Owned Data			
● No Tracing Rights			

9-00033

PERMIT NUMBER: 33

AFFIDAVIT OF PLUGGING (HOLE PLUGGER)



STATE OF NORTH DAKOTA)
)
COUNTY OF Ward)

Before me, Tina Wiedeman, a Notary Public in and for the said County and State, this day personally appeared Shawn Johnson who being first duly sworn, deposes and says that (s)he is employed by Johnson Drilling, 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.

Shawn Johnson
Hole Plugger Representative

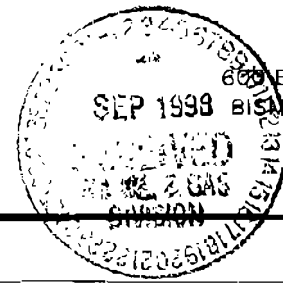
Subscribed in my presence and sworn before me this 21 day of January, 99.

Notary Public Tina Wiedeman

My Commission Expires June 7 2001



SEISMIC COMPLETION REPORT
 INDUSTRIAL COMMISSION OF NORTH DAKOTA
 OIL AND GAS DIVISION
 SFN 51456 (11-97)



609 E BOULEVARD AVE
 BISMARCK, ND 58505

PERMIT NO.: 97-0033	
SHOT HOLE OPERATIONS: Shothole 2D	*NON-EXPLOSIVE OPERATIONS:

SECTION 1

GEOPHYSICAL CONTRACTOR: Williston Seismic Inc.	
PROJECT NAME AND NUMBER: Donnybrook	COUNTY(S):
TOWNSHIP(S): 157-158N	RANGE(S): 85-86W
PERMITTED BY: Boyd Petrosearch	
DATE COMMENCED: Drilling June 3/98 Recording June 27/98	DATE COMPLETED: Drilling June 4/98 Recording June 29/98

SECTION 2

FIRST S.P. #: Line #BD-98-1 S.P. 436	LAST S.P. #: Line #BD-98-3 S.P. 296										
LOADED HOLES (UNDETONATED SHOT POINTS)											
S.P. #'s:											
CHARGE SIZE::											
DEPTH:											
REASONS HOLES WERE NOT SHOT:											

SECTION 3

FLOWING HOLES S.P.#'s
PROCEDURE FOR PLUGGING FLOWING HOLES:
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)

Province of Alberta
~~STATE OF NORTH DAKOTA~~)
)
COUNTY OF Canada)

Before me, John Reynolds, a Notary Public in and for the said County and State, this day personally appeared Lynn Williams who being first duly sworn, deposes and says that (s)he is employed by Williston Seismic 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.

Lynn Williams
Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 31st day of July, 1998.

Notary Public John Reynolds
JOHN E.P. REYNOLDS
Student at Law

My Commission Expires _____

PERMIT NUMBER: 97-0033

AFFIDAVIT OF PLUGGING (HOLE PLUGGER)

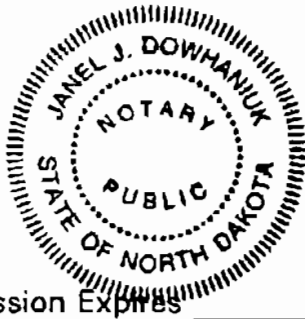
STATE OF NORTH DAKOTA)
)
COUNTY OF Stark)



Before me, Janel J. Dowhanuk, a Notary Public in and for the said County and State, this day personally appeared Susan Lewis Bruner who being first duly sworn, deposes and says that (s)he is employed by AMERICAN SEISMIC SERVICE, 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.

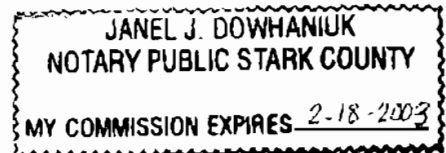
Susan Lewis Bruner
Hole Plugger Representative

Subscribed in my presence and sworn before me this 17th day of November, 1998.



Notary Public Janel J. Dowhanuk

My Commission Expires _____



OIL AND GAS DIVISION

Lynn D. Helms
DIRECTOR

<http://explorer.ndic.state.nd.us>

F.E. Wilborn
ASSISTANT DIRECTOR

October 16, 1998

have off, no logs

Mr. Gordon Bruner
American Seismic Services
302 E. Villard
Dickinson, ND 58601

returned wrong address

RE: Seismic Hole Plugging Reports
Divide County #98-2
ND Permit No. 97-0032

Donnybrook 98
ND Permit No. 97-0033

Dear Gordy:

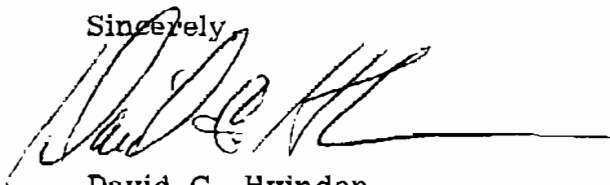
Our records indicate that your company was a plugging contractor for the above captioned program. Please be advised that pursuant to North Dakota Administrative Code Section 43-02-12-06 any person plugging seismic holes must submit a plugging report and affidavit detailing the plugging of each seismic shot hole.

For your convenience we have enclosed some seismic hole plugging reports for use on subsequent jobs and also some affidavits to attach to the requested reports to date.

Also, we did receive a hole plugging affidavit for the Divide County 97-2 3D, job #971672, permit #97-0026, however we never received any logs. Please submit these logs as well.

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

Sincerely



David C. Hvinden
Geophysical Regulation Supervisor

DCH/dh
enc.

2nd NOTICE - 11-12-98 OCH

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

Lynn D. Helms
DIRECTOR

<http://explorer.ndic.state.nd.us>

F.E. Wilborn
ASSISTANT DIRECTOR

October 16, 1998

Mr. Shawn Johnson
Johnson Drilling
RR 4, Box 325
Minot, ND 58701

RE: Seismic Hole Plugging Reports
Divide County 98-2
ND Permit No. 97-0032

Donnybrook 98
ND Permit No. 97-0033

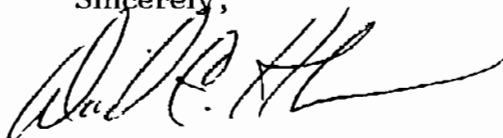
Dear Mr. Johnson:

Our records indicate that your company was a plugging contractor for the above captioned program. Please be advised that pursuant to North Dakota Administrative Code Section 43-02-12-06 any person plugging seismic holes must submit a plugging report and affidavit detailing the plugging of each seismic shot hole.

For your convenience we have enclosed some seismic hole plugging reports for use on subsequent jobs and also some affidavits to attach to the requested reports to date.

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

Sincerely,



David C. Hvinden
Geophysical Regulation Supervisor

DCH/dh
enc.

2nd NOTICE - 11-12-98 DCH



GEOPHYSICAL EXPLORATION PERMIT
 INDUSTRIAL COMMISSION OF NORTH DAKOTA
 OIL AND GAS DIVISION
 SFN 51459 (11-97)



600 E BOULEVARD AVE
 BISMARCK, ND 58505

1) a. Company: Williston Seismic Inc.		Address: 2050, 633 - 6th Ave. S.W. Calgary, Alberta T2P 2	
Contact: Robert Wood		Telephone: (403) 263-7770	Fax: (403-263-7776
Surety Company: ? Amwest Surety Ins. Com.		Bond Amount: \$50,000.00	Bond Number: 1334638
2) a. Subcontractor(s): American Seismic		Address: 302 E. Vilklard Dickson, N.D. 58601	Telephone: (701) 225-9861
b. Subcontractor(s): Tumbleweed		Address: 10120 - 111 Avenue SW Minot, N.D. 58701-2440	Telephone:
c. Subcontractor(s):		Address:	Telephone:
3) Party Manager: Ron Skelton		Address:	Telephone:
4) Project Name or Line Numbers: Donnybrook 98, North Dakota			
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D): Shot hole 2-D			
6) Approximate Drilling Start Date: Feb 24, 1998		Approximate Completion Date: April 15, 1998	

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

7) Location of Proposed Project - County Twp. 157-158, Rge. 85-86, W2M				<i>WARD & RENVILLE</i>				
Section(s), Township(s) & Range(s)		Sec. <i>30, 31</i>	T <i>158</i>	R <i>85</i>				
		Sec. <i>35, 36</i>	T <i>158</i>	R <i>86</i>				
		Sec. <i>1, 8, 15, 16, 17, 20</i>	T <i>157</i>	R <i>86</i>				
		Sec.	T	R				
B) Size of Hole 2 3/8"	Amt. of Charge 5 lbs.	Depth 60 Ft	Shots per Mi.(sq.mi.) 7/Mi.	No. of Mi. (sq. mi.)	Identifying Marks Used on Nonmetallic Plug			
					Geophysical ID	a. Plugger ID	b. Plugger ID	c. Plugger ID
					*	*	*	

9) Anticipated special drilling and plugging procedures? Auger Drilling and Bentonite Hole Plugging		
10) Enclose a pre-plot map with proposed location of seismic program lines and powder mag.		
Signed: 	Title: Robert J. Wood - President	Date: Feb 23, 1998

(This space for State office use)

Permit No.: <i>99-0033</i>	Approval Date: <i>2/25/98</i>
Approved By: <i>David E. Hand</i>	
Title: <i>Geophysical Regulation Supervisor</i>	
County Approval Sent:	

Conditions of Approval if any:
** plug must be identified w/ mark and permit #.*
William L. 2/25/98

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

Wesley D. Norton
DIRECTOR

F.E. Wilborn
ASSISTANT DIRECTOR

February 25 , 1998

Robert Wood
Williston Seismic, Inc.
2050, 633-6th Ave. SW
Calgary, Alberta
Canada T2P 2Y5

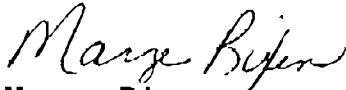
RE: **GEOPHYSICAL EXPLORATION PERMITS**
No. 970032 - DIVIDE COUNTY 98 - 2
No. 970033 - DONNYBROOK 98, NORTH DAKOTA

Dear Mr. Wood:

This letter will verify the approval of the above-captioned Geophysical Permits effective February 25, 1998.

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

February 25, 1998

The Honorable Susan A. Ritter
Renville County Auditor
P.O. Box 68
Mohall, ND 58761

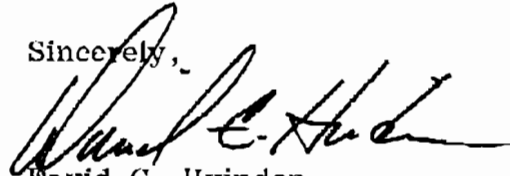
RE: Geophysical Exploration
Permit #97-0033

Dear Ms. Ritter:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Williston Seismic Inc. was issued the above captioned permit on February 25, 1998 and will remain in effect for a period of one year.

Should you have any question, please contact our office.

Sincerely,



David C. Hvinden
Geophysical Regulation Supervisor

DCH/dh

NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

Wesley D. Norton
DIRECTOR

F.E. Wilborn
ASSISTANT DIRECTOR

February 25, 1998

The Honorable David Senger
Ward County Auditor
315 3rd Street SE
Minot, ND 58701

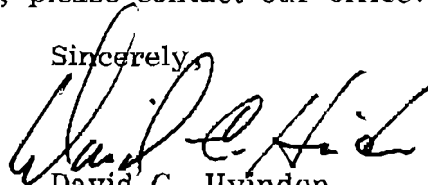
RE: Geophysical Exploration
Permit #97-0033

Dear Mr. Senger:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Williston Seismic Inc. was issued the above captioned permit on February 25, 1998 and will remain in effect for a period of one year.

Should you have any questions, please contact our office.

Sincerely,



David C. Ivinden
Geophysical Regulation Supervisor

DCH/dh

Enclosure