



# DARBY SERVICES, INC.

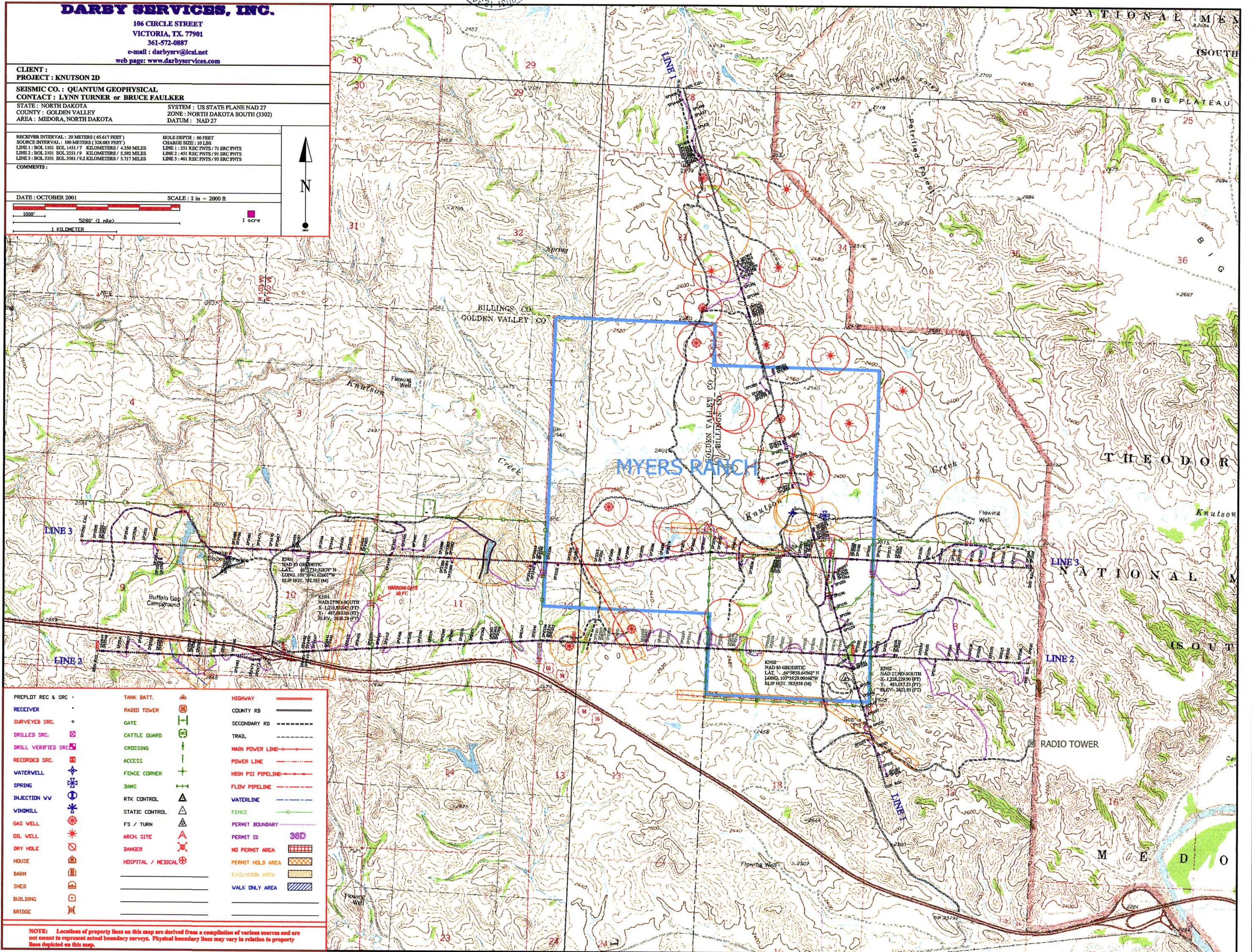
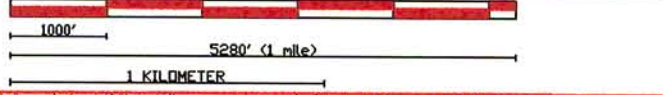
106 CIRCLE STREET  
VICTORIA, TX. 77901  
361-572-0887  
e-mail: darbysrv@cslnet  
web page: www.darbyservices.com

CLIENT: **KNUTSON 2D**  
SEISMIC CO.: **QUANTUM GEOPHYSICAL**  
CONTACT: **LYNN TURNER or BRUCE FAULKER**  
STATE: NORTH DAKOTA SYSTEM: US STATE PLANE NAD 27  
COUNTY: GOLDEN VALLEY ZONE: NORTH DAKOTA SOUTH (3302)  
AREA: MEDORA, NORTH DAKOTA DATUM: NAD 27

RECEIVER INTERVAL: 20 METERS (65.617 FEET) HOLE DEPTH: 60 FEET  
SOURCE INTERVAL: 100 METERS (328.083 FEET) CHARGE SIZE: 10 LBS  
LINE 1: BOL 1101 EOL 1451 / 7 KILOMETERS / 4.330 MILES LINE 1: 351 REC PNTS / 71 SRC PNTS  
LINE 2: BOL 2101 EOL 2551 / 9 KILOMETERS / 5.592 MILES LINE 2: 451 REC PNTS / 91 SRC PNTS  
LINE 3: BOL 3101 EOL 3561 / 9.2 KILOMETERS / 5.717 MILES LINE 3: 461 REC PNTS / 93 SRC PNTS

COMMENTS:

DATE: OCTOBER 2001 SCALE: 1 in = 2000 ft



PREPLOT REC & SRC	TANK BATT.	HIGHWAY
RECEIVER	RADIO TOWER	COUNTY RD
SURVEYED SRC	GATE	SECONDARY RD
DRILLED SRC	CATTLE GUARD	TRAIL
DRILL VERIFIED SRC	CROSSING	MAIN POWER LINE
RECORDED SRC	ACCESS	POWER LINE
WATERWELL	FENCE CORNER	HIGH PSI PIPELINE
SPRING	DAMS	FLOW PIPELINE
INJECTION VW	RTK CONTROL	WATERLINE
WINDMILL	STATIC CONTROL	FENCE
GAS WELL	FS / TURN	PERMIT BOUNDARY
OIL WELL	ARCH SITE	PERMIT ID
DRY HOLE	DANGER	NO PERMIT AREA
HOUSE	HOSPITAL / MEDICAL	PERMIT HOLD AREA
BARN		EXCLUSION AREA
SHED		WALK ONLY AREA
BUILDING		
BRIDGE		

NOTE: Locations of property lines on this map are derived from a compilation of various sources and are not meant to represent actual boundary surveys. Physical boundary lines may vary in relation to property lines depicted on this map.

970069



**DARBY SERVICES, INC.**

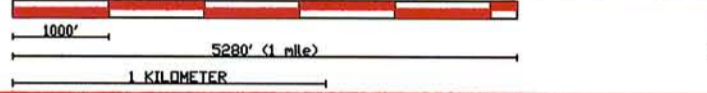
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CLIENT :  
 PROJECT : KNUTSON 2D  
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 AREA : MEDORA, NORTH DAKOTA DATUM : NAD 27

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 SOURCE INTERVAL : 100 METERS (328.084 FEET) CHARGE SIZE : 10 LBS  
 LINE 1 : BOL 1101 BOL 1451 / 7 KILOMETERS / 4.350 MILES LINE 1 : 351 REC PNTS / 71 SRC PNTS  
 LINE 2 : BOL 2101 BOL 2551 / 9 KILOMETERS / 5.592 MILES LINE 2 : 451 REC PNTS / 91 SRC PNTS  
 LINE 3 : BOL 3101 BOL 3551 / 9.5 KILOMETERS / 5.917 MILES LINE 3 : 451 REC PNTS / 91 SRC PNTS

COMMENTS :

DATE : 12/07/01 SCALE : 1 in = 2000 ft



500,000

490,000

480,000

PREPLOT REC & SRC	TANK BATT.	HIGHWAY
RECEIVER	RADIO TOWER	COUNTY RD
SURVEYED SRC	GATE	SECONDARY RD
DRILLED SRC	CATTLE GUARD	TRAIL
DRILL VERIFIED SRC	CROSSING	MAIN POWER LINE
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DRY HOLE	DANGER	PERMIT ID
HOUSE	HOSPITAL / MEDICAL	NO PERMIT AREA
BARN		PERMIT HOLD AREA
SHED		EXCLUSION AREA
BUILDING		WALK ONLY AREA
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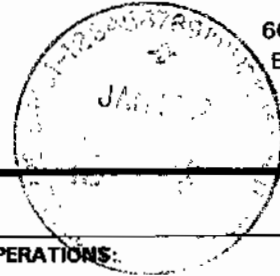
1,210,000

1,220,000

1,230,000

970069





PERMIT NO.: 97-0069	
SHOT HOLE OPERATIONS: XX	*NON-EXPLOSIVE OPERATIONS:

**SECTION 1**

GEOPHYSICAL CONTRACTOR: Quantum Geophysical, Inc.	
PROJECT NAME AND NUMBER: Knutson	COUNTY(S): Billings / Golden Valley
TOWNSHIP(S): T 140 / 141 North	RANGE(S): R 102 / 103 West
PERMITTED BY: Tim Hill Rocky Mtn. Permit Service	
DATE COMMENCED: 11-1-01 <i>Murray</i>	DATE COMPLETED: 12-15-01

**SECTION 2**

FIRST S.P. #: Sec Map	LAST S.P. #:
LOADED HOLES (UNDETONATED SHOT POINTS) NONE	
S.P. #'s:	
CHARGE SIZE::	
DEPTH:	
REASONS HOLES WERE NOT SHOT:  N/A	

**SECTION 3**

FLOWING HOLES S.P.#'s	N/A
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)

STATE OF ~~NORTH DAKOTA~~ TEXAS )  
 )  
COUNTY OF Harris )

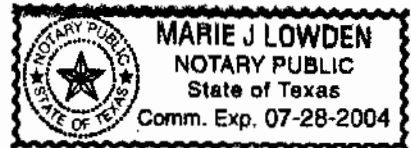
Before me, Marie Lowden, a Notary Public in and for the said County and State, this day personally appeared Bruce Fulker who being first duly sworn, deposes and says that (s)he is employed by Quantum Geophysical, Inc, that (s)he has read North Dakota Century Code Section 38-08.1, that the foregoing seismic 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.

B.F. All  
Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 28 day of December, 2001.

Notary Public Marie Lowden

My Commission Expires 7/28/04



PERMIT NUMBER: 970069

**AFFIDAVIT OF PLUGGING (HOLE PLUGGER)**

Montana  
STATE OF NORTH DAKOTA )

COUNTY OF Richland )

Before me, Douglas A Lang, a Notary Public in and for the said County and State, this day personally appeared Terry Williams who being first duly sworn, deposes and says that (s)he is employed by Wilderness Exploration, 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.

Wilderness Exploration Inc  
Terry Williams  
Hole Plugger Representative

Subscribed in my presence and sworn before me this 18<sup>th</sup> day of December, 2001.

Notary Public Douglas A Lang

My Commission Expires 4-19-03



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



1000 E BOULEVARD AVE  
 BISMARCK, ND 58505

1) a. Company: <b>Quantum Geophysical</b>	Address: <b>One Riverway, Suite 2100 Houston, TX 77056</b>	Telephone: <b>(713) 850-9799</b>	Fax: <b>(713) 850-7783</b>
Contact: <b>Bruce Fulker</b>	Bond Amount: <b>\$50,000.00</b>	Bond Number: <b>GEO 300</b>	
Surety Company: <b>Bank of ND</b>	2) a. Subcontractor(s): <b>Wilderness Exploration</b>	Address: <b>P.O. Box 91 Sidney, MT 59270</b>	Telephone: <b>(406) 482-1219</b>
	b. Subcontractor(s):	Address:	Telephone:
	c. Subcontractor(s):	Address:	Telephone:
3) Party Manager: <b>Billy Flippo</b>	Address: <b>One Riverway, Suite 2100 Houston, TX 77056</b>	Telephone: <b>(713) 824-6256</b>	
4) Project Name or Line Numbers: <b>Knutson Prospect</b>			
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D): <b>Shot Hole</b>			
6) Approximate Drilling Start Date: <b>12-01-01</b>		Approximate Completion Date: <b>12-15-01</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>Golden Valley / Billings</b>			
Section(s), Township(s) & Range(s)	Sec. 28, 33	T 141 N	R 102 W
	Sec. 6, 7, 17, 18	T 140 N	R 102 W
	Sec. 1, 2, 3, 4, 9, 10, 11	T 140 N	R 103 W
	Sec. 12,	T	R
8) Size of Hole <b>2 1/4</b>	Amt. of Charge <b>10#</b>	Depth <b>60</b>	Shots per Mi.(sq.mi.) <b>16</b>
No. of Mi. (sq. mi.) <b>15.67</b>	Identifying Marks Used on Nonmetallic Plug		
	Geophysical ID <b>QG</b>	a. Plugger ID	b. Plugger ID
		c. Plugger ID	

9) Anticipated special drilling and plugging procedures?  
**none**

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

Signed: <i>[Signature]</i>	Title: <b>Manager, Permit Acquisition</b>	Date: <b>11-7-01</b>
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(This space for State office use)		Conditions of Approval if any:
Permit No.: <b>970069</b>	Approval Date: <b>11/15/01</b>	<i>Identify surface plugs w/ #69 and Gp ID Notify county and surface owners and state field rep Kim Martin prior to any drilling. All owners must be furnished upon request and SEB-P1 filed w/ complete reports. [Signature] 11/15/01</i>
Approved By: <i>[Signature]</i>		
Title: <i>Geophysical Regulation Supervisor</i>		
County Approval Sent: <i>Golden Valley / Billings (faxed 11/15/01)</i>		

\*See Instructions On Reverse Side

NORTH DAKOTA INDUSTRIAL COMMISSION

**OIL AND GAS DIVISION**

Lynn D. Helms  
DIRECTOR

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

Bruce E. Hicks  
ASSISTANT DIRECTOR

November 20, 2001

Bruce Fulker  
Quantum Geophysical Inc.  
One Riverway, Ste. 2100  
Houston, TX 77056

**RE: GEOPHYSICAL EXPLORATION PERMIT NO. 97-0069  
KNUTSON PROSPECT**

Dear Mr. Fulker:

This letter will verify the approval of the above-captioned Geophysical Permit effective, November 15, 2001.

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**

Lynn D. Helms  
DIRECTOR

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

Bruce E. Hicks  
ASSISTANT DIRECTOR

November 16, 2001

Ms. Judy Sutherland  
Golden Valley County Tax Director  
P.O. Box 67  
Beach, N.D. 58621

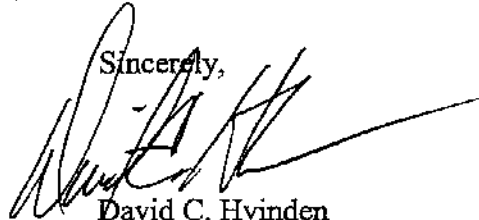
RE: Geophysical Exploration  
Permit # 97-0069

Dear Ms. Sutherland:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Quantum Geophysical, Inc. was issued the above captioned permit on November 16, 2001 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



NORTH DAKOTA INDUSTRIAL COMMISSION

OIL AND GAS DIVISION

Lynn D. Helms  
DIRECTOR

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

Bruce E. Hicks  
ASSISTANT DIRECTOR

The Honorable Laura Griffin  
Billings County Tax Director  
P.O. Box 247  
Medora, ND 58645

November 16, 2001

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Permit # 97-0069

Dear Ms. Griffin:

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Sincerely,



David C. Hvinden  
Geophysical Regulation Supervisor

DCH/dh