

97-0017

- 585118
- 613103
- 625133
- 645113
- 589152
- 617171
- 593168
- 525177
- 569178
- 641193
- 593216

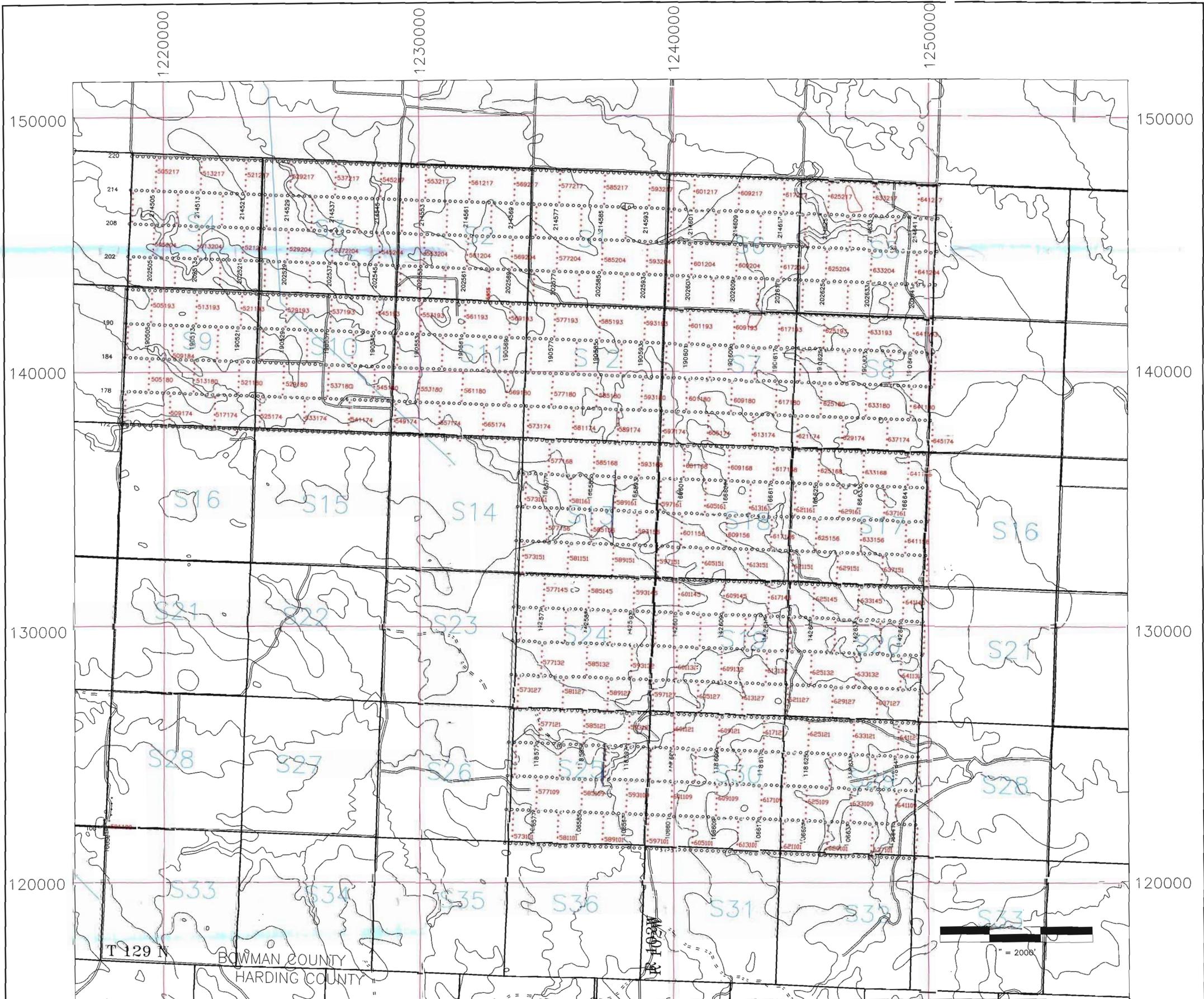
613103 BAD CAP NO SHOT
 → // underrated
 bad caps



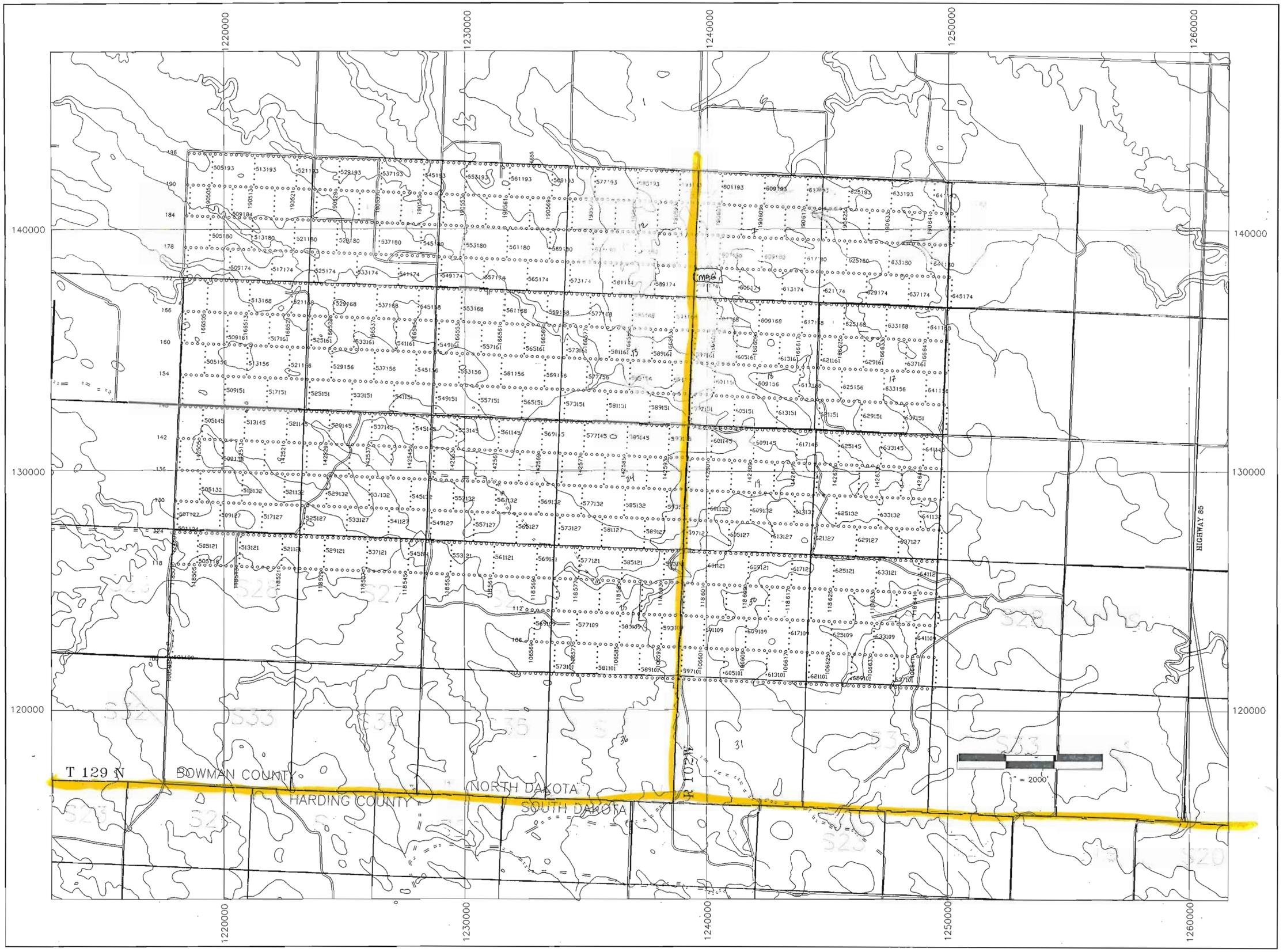
Quantum Geophysical, Inc.
 a Subsidiary of Geokinetix Inc.

THE EXPLORATION COMPANY
 GRAND RIVER 3D

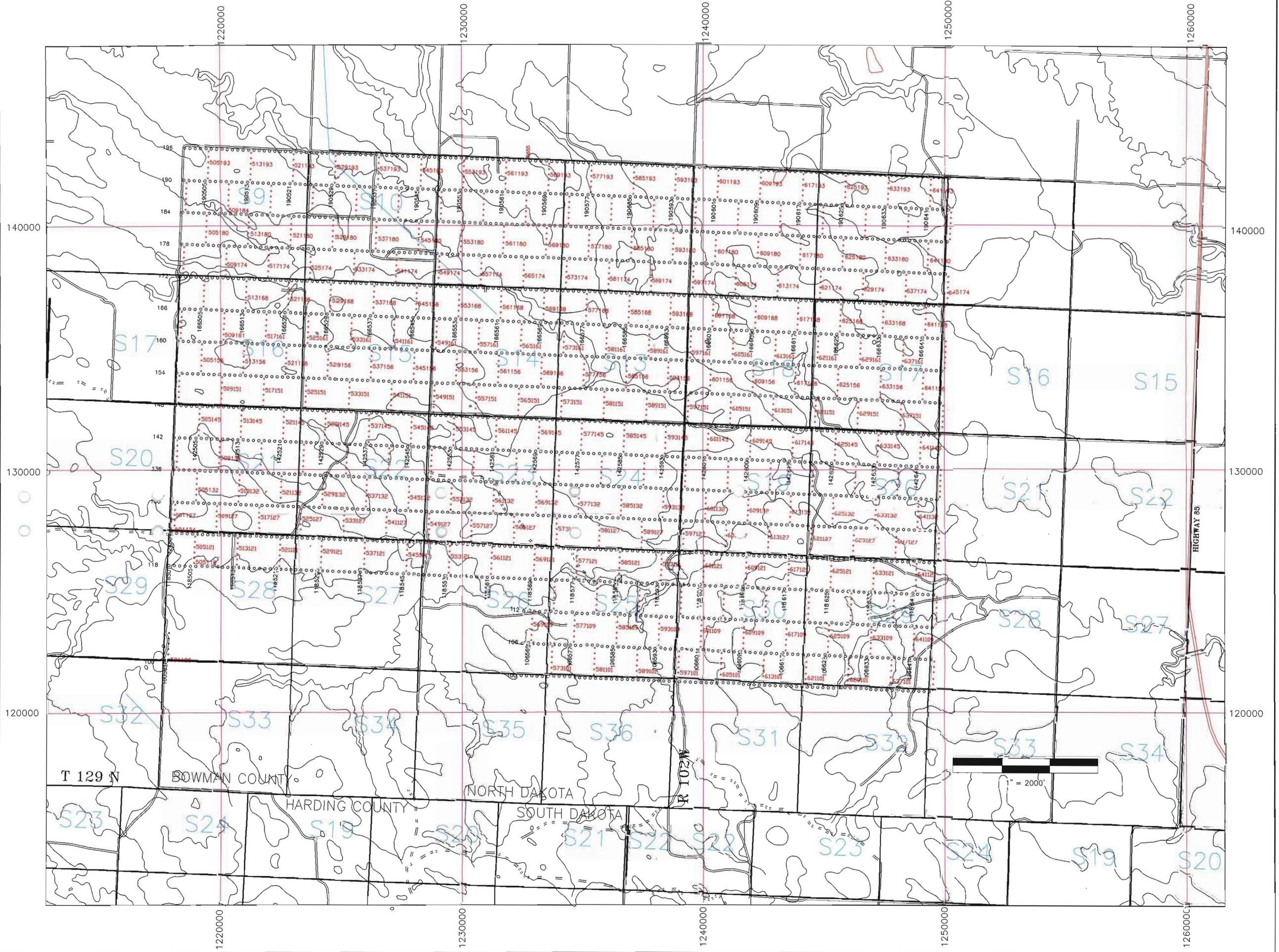
State: North Dakota	County: Bowman
Date: NAD27	Township: T129N
Map Projection: Lambert, ND S	Range: R102W, R103W
Spheroid: Clarke 1866	Date: 11/21/97
Units: U.S. Feet	Scale: 1" = 2000'
Receiver line interval: 1350'	Source line interval: 1650'
Receiver interval: 185'	Source interval: 330'
Shot/Receiver offset: 165' X 82.5'	Pattern: Brick

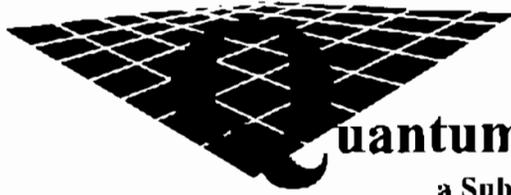


REVISED



SEE
REVISED





Quantum Geophysical, Inc.
a Subsidiary of Geokinetics Inc.



February 9, 1999

Mr. Dave Hvinden
North Dakota Industrial Commission
Oil and Gas Division
600 East Blvd.
Bismarck, ND 58505

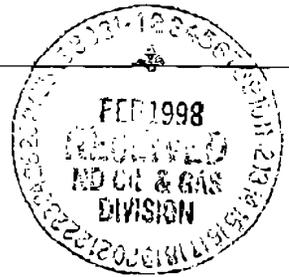
Re: Hole plugging Logs Grand River 3-D #17
Medicine Pole Hills 3-D #19

Dear Mr. Hvinden:

Enclosed are copies of the hole plugging logs from Wilderness Drilling for the above referenced jobs. If you need additional information or have any questions please call me at (713) 850-9799. I apologize for this being overlooked. Thank you for your assistance.

Yours truly,

Bruce Fulker



AFFIDAVIT OF PLUGGING (HOLE PLUGGER)

STATE OF Montana)
)
COUNTY OF Musselshell)

Before me, KAREN M. SRAGEN, a Notary Public in and for the said County and State, this day personally appeared Judy Nistler who being first duly sworn, deposes and says that (s)he is employed by Nistler 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.

Permit # 97-0017 & 0019

Judy Nistler
Hole Plugger Representative

Subscribed in my presence and sworn before me this 29 day of January, 1998.

Notary Public Karen M. Sragen
State of Montana, Residing at Pondre, MT

My Commission Expires 1-31-02



PERMIT NO.: 97-0017	
SHOT HOLE OPERATIONS: 3 D 60' Hole 5 Lb	*NON-EXPLOSIVE OPERATIONS:

SECTION 1

GEOPHYSICAL CONTRACTOR: Quantum Geophysical Inc. 5555 San Felipe Ste 550 Houston, Texas 77056	
PROJECT NAME AND NUMBER: Grand River 3 D	COUNTY(S): Bowman
TOWNSHIP(S): 129 North	RANGE(S): 102 and 103 West
PERMITTED BY: Bruce Fulker	
DATE COMMENCED: 10-1-97	DATE COMPLETED: 12-15-97

SECTION 2

FIRST S.P. #: 501173	LAST S.P. #: 645213											
LOADED HOLES (UNDETONATED SHOT POINTS)												
S.P. #'s:	585118	613103	625133	645113	589152	617171	593168	525177	569178	641193	593216	
CHARGE SIZE::	5#	5#	5#	5#	5#	5#	5#	5#	5#	5#	5#	
DEPTH:	60'	60'	60'	60'	60'	60'	60'	60'	60'	60'	60'	
REASONS HOLES WERE NOT SHOT: Bad caps (all caps tested good at the time the charges were loaded)												

SECTION 3

FLOWING HOLES S.P.#'s NONE
PROCEDURE FOR PLUGGING FLOWING HOLES: N/A

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)

STATE OF TEXAS)

COUNTY OF HARRIS)

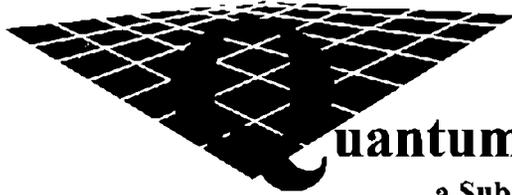
Before me, LISA MENDOZA, a Notary Public in and for the said County and State, this day personally appeared BRUCE FULKER who being first duly sworn, deposes and says that (s)he is employed by QUANTUM GEOPHYSICAL INC., that (s)he has read North Dakota Century Code Section 38-08.1, that the foregoing seismic 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.

Bruce Fulk
Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 18 day of December, 1997.

Notary Public Lisa Mendoza
LISA MENDOZA

My Commission Expires 07-01-98



Quantum Geophysical, Inc.

a Subsidiary of Geokinetics Inc.



October 27, 1997

Mr. Dave Hvinden
North Dakota Industrial Commission
Oil and Gas Division
600 E Boulevard
Bismarck, ND 58505

Re: Bowman County Seismic Permit

Mr. Hvinden;

Please find enclosed a revised map for our 3 D seismic program in Bowman County. The following Sections have been dropped; Township 129 North Range 103 West Sections 14,15,16,21,22,23,26,27, And 28. The following sections have been added; Township 129 North Range 103 West Sections 1,2, 3,4, and Township 129 North Range 102 West Sections 5 and 6.
If you have any questions please call me at 713-850-7600. Thank you.

Bruce Fulker

CC: Rory Teigen
Bowman County Sheriff

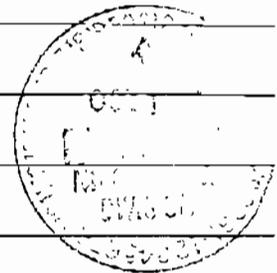
Quantum Geophysical Inc. 5555 San Felipe Ste 780 Houston, Tx 77056

1) a. Company - Address

Contact, Telephone, Fax

Bruce Fulker/Lynn Turner (713)850-7600 Fax (713)850-7330

Surety Company Bond Amount Bond Number



2) a. Subcontractor(s), Address, Telephone

Wilderness Drilling P.O. Box 91 Sidney, MT 59270 (406)482-1219

b. Subcontractor(s), Address, Telephone

Nistler Drilling P.O. Box 856 Roundup, MT 59072 (406)323-2705

c. Subcontractor(s), Address, Telephone

Mowrey Surveying P.O. Box 404 Lander, WY 82520 (307)856-8531 *surveying only! det*

3) Party Manager, Address, Telephone

Billy Flippo 5555 San Felipe Ste. 780 Houston, Tx 77056 (713)850-7600

4) Project Name or Line Numbers

Bowman County Area

5) Exploration Method (Shot hole, Non-Explosive, 2D, 3D)

Shot hole 3-d

6) Approx. Date Work Will Start

9-28-97

Approx. Date Work Completion

11-15-97

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

7) Location of Proposed Project

County(s) Bowman

Section(s), Township(s) & Range(s)	Sec.	T	R
	7, 8, 17, 18, 19, 20, 29	T129 North	R 102 West
	30, 9, 16, 21, 28, 31, 32	T129 North	R 102 West
	9, 10, 11, 12, 13, 14, 15	T129 North	R 103 West
	16, 21, 22, 23, 24, 25	T129 North	R 103 West
	26, 27, 28, 35, 36	T129 North	R 103 West

8) Size of Hole	Amount of Charge	Depth	Shots Per Mile (sq.mi.)	Number of Miles (sq.mi.)	Identifying Marks Used on Non-metallic Plug			
					Geophysical ID	a. Plugger ID	b. Plugger ID	c. Plugger ID
6"	10#	60'	81 sq.mi.	20 sq.mi.	QG	W	N	

9) a. Proposed hole drilling and plugging procedure.

All holes will be drilled and plugged as per 43-02-12-10 Revised Drilling and Plugging Requirements ND Century Code Chapter 38-08.1 (Revised 9-11-97)

10) Enclose a Map with proposed line on it.

SIGNED Bruce Fulker

TITLE Permit Agent

DATE 9-22-97

(This space for State office use)

PERMIT NO. 97-0017 DATE 10/22/97
 APPROVAL DATE 10/22/97
 APPROVED BY DAVID C. HENDERSON
 Geophysical Regulation Supervisor
 Approvals sent Bowman 10/22/97

CONDITIONS OF APPROVAL, IF ANY:
drilling, loading, and plugging may commence immediately, further exploration will be approved upon receipt of bond information.
David C. Henderson
10/22/97

