



# SEISMIC COMPLETION REPORT

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
OIL AND GAS DIVISION  
600 EAST BOULEVARD DEPT 405  
BISMARCK, ND 58505-0840  
SFN 51456 (03-2005)



Permit No. <b>97-0134</b>	
Shot Hole Operations <b>N/A</b>	*Non-Explosive Operations <b>Vibroseis</b>

## SECTION 1

Geophysical Contractor <b>Quantum Geophysical, Inc.</b>	
Project Name and Number <b>North Mesa-2D</b>	County(s) <b>Burke</b>
Township(s) <b>163N</b>	Range(s) <b>89W</b>
Drilling and Plugging Contractors <b>N/A</b>	
Date Commenced <b>September 7, 2007</b>	Date Completed <b>October 6, 2007</b>

## SECTION 2

First S.P. #												Last S.P. #
Loaded Holes (Undetonated Shot Points)												
S.P.#'s												
Charge Size												
Depth												
Reasons Holes Were Not Shot												

## SECTION 3

Flowing Holes and/or Blowouts S.P.#'s
Procedure for Plugging Flowing Holes and/or Blowouts
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 Texas )

COUNTY OF Harris )

Before me, Pat Andrews, a Notary Public in and for the said

County and State, this day personally appeared David Bush

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.

*David E. Bush*

Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 26 day of February, 2009.



Notary Public Patricia S. Andrews

My Commission Expires 03-20-2012

# Oil and Gas Division

Lynn D. Helms - Director      Bruce E. Hicks - Assistant Director

Department of Mineral Resources

Lynn D. Helms - Director

North Dakota Industrial Commission

[www.dmr.nd.gov/oilgas](http://www.dmr.nd.gov/oilgas)



970134

12/23/2008

DAVID BUSH  
GEOKINETICS USA, INC.  
FORMERLY: QUANTUM GEOPHYSICAL, INC.  
1500 CITY WEST STE 800  
HOUSTON, TX 77042

RE: See Attached List of Projects

Dear David:

According to our records, our office has not received a Completion Report or Affidavit of Completion for the attached list of projects.

The reports are due thirty days after the completion of the project. Please submit the report & affidavit at your earliest convenience. If you have any questions, feel free to contact our office.

Sincerely,

A handwritten signature in black ink, appearing to read "RAS", with a long horizontal line extending to the right.

Richard A. Suggs  
Engineering Technician

List of Projects with Missing Completion Reports and Completion Affidavits for  
QUANTUM GEOPHYSICAL, INC.

PASSPORT 3-D  
MOUNTRAIL COUNTY  
PERMIT NO. 970140      COMPLETION DATE: 10/5/2007

WILD HORSE 2-D  
BURKE COUNTY  
PERMIT NO. 970138      COMPLETION DATE: 9/14/2007

HUERFANO 2-D  
BURKE COUNTY  
PERMIT NO. 970137      COMPLETION DATE: 9/13/2007

NORTH MESA 2-D  
BURKE COUNTY  
PERMIT NO. 970134      COMPLETION DATE: 9/12/2007

FORTIFICATION 2-D  
BURKE COUNTY  
PERMIT NO. 970133      COMPLETION DATE: 9/15/2007

CRYSTAL 2-D  
BURKE COUNTY  
PERMIT NO. 970132      COMPLETION DATE: 9/14/2007

BERTHOLD 3-D  
MOUNTRAIL COUNTY  
PERMIT NO. 970124      COMPLETION DATE: 8/26/2007

Oct. 15, 2007

NDIC Oil and Gas Division

Sir / Mme:

970132 Cry

970137 Hnd

970134 NM

970138 WH

970140 PP



Enclosed is a SD Memory card with the \*.usr files for navigation with the Lowrance I-Finder Hunt GPS unit. The files are in WGS 84 and can be loaded straight into the Lowrance.

There is one file for each of the 2D programs (Crystal 2D, Fort 2D, Huerfano 2D, North Mesa 2D, and Wildhorse 2D) containing both source and receivers.

For the Passport 3D, there are 2 source and 2 receiver files for the program.

If you require any assistance, please don't hesitate to call.

Best Regards,

A handwritten signature in black ink, appearing to read "Rick Irving".

Rick Irving

Survey Manager, US Operations

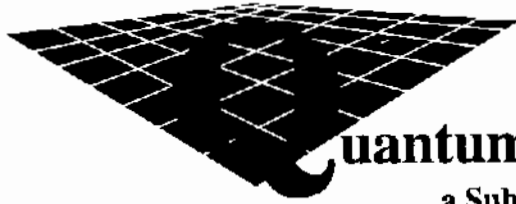
Geokinetics Inc.

1 Riverway, Ste. 440

Houston TX 77056

713-840-3382 office

713-816-3663 cell



# Quantum Geophysical, Inc.

a Subsidiary of Geokinetics Inc.

August 11, 2007

North Dakota Industrial Commission  
Dept of Mineral Resources  
Oil & Gas Division  
600 E. Boulevard Ave. Dept 405  
Bismarck, ND 58505-0840



Attn: Todd Holweger

Re: North Mesa 2D Project  
Geophysical Permit 97-0134  
Burke County

Dear Mr. Holweger;

This letter shall serve as certification that Quantum Geophysical, Inc. has contacted all surface owner's within the boundaries of the above referenced survey. All surface owners' have signed permits, been provided written copies of section 38-08.1-04.1 and chapter 38-11.1 of the geophysical exploration regulations and notified of the start of operations. In addition all individuals owning lands with ½ mile of the survey boundary have been provided via US mail a copy of the required regulations.

If you have any questions please contact me at (713) 840-3380.

Yours truly,

Bruce Fulker

Manager Permit Services  
North America Operations



# GEOPHYSICAL EXPLORATION PERMIT

INDUSTRIAL COMMISSION OF NORTH DAKOTA  
 OIL AND GAS DIVISION  
 600 EAST BOULEVARD DEPT 405  
 BISMARCK, ND 58505-0840  
 SFN 51459 (03-2005)



*S*

1) a. Company <b>Quantum Geophysical, Inc</b>	Address <b>One Riverway, Suite 440 Houston, TX 77056</b>	
Contact <b>Bruce Fulker</b>	Telephone <b>(713)840-3380</b>	Fax <b>(713)850-7783</b>
Surety Company <b>Bank Of North Dakota</b>	Bond Amount <b>\$50,000.00</b>	Bond Number <b>GEO300</b>
2) a. Subcontractor(s) <b>Erickson Contract Surveying</b>	Address <b>1101 5th SW Sidney, Mt 59270</b>	Telephone <b>(406)482-6606</b>
b. Subcontractor(s)	Address	Telephone
c. Subcontractor(s)	Address	Telephone
3) Party Manager	Address	Telephone
4) Project Name or Line Numbers <b>North Mesa 2-D</b>		
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D) <b>Vibroseis</b>		
6) Approximate Drilling Start Date <b>August 15, 2007</b>	Approximate Completion Date <b>September 15, 2007</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>Burke</b>								
Section(s), Township(s) & Range(s)	Sec.	T.	R.					
		<b>163</b>	<b>89</b>					
	Sec.	T.	R.					
	Sec.	T.	R.					
8) Size of Hole	Amt of Charge	Depth	Shots per Mi.(sq.mi.)	No. of Mi. (sq.mi.)	Identifying Marks Used on Nonmetallic Plug			
			<b>22</b>	<b>4.43</b>	Geophysical ID	a. Plugger ID	b. Plugger ID	c. PI

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

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

Signed <i>BU</i>	Title <b>Mgr. NA Operations Permit Services</b>	Date <b>July 3, 2007</b>
(This space for State office use)		Conditions of Approval If any <b>See Attached letter</b>
Permit No. <b>97-0134</b>	Approval Date <b>7/11/2007</b>	
Approved by <i>Todd L. Dwyer</i>		
Title <b>Mineral Resources Permit Manager</b>		
County Approval Sent <b>Burke County</b>		

\*See Instructions On Reverse Side

**Township**  
**North Mesa**

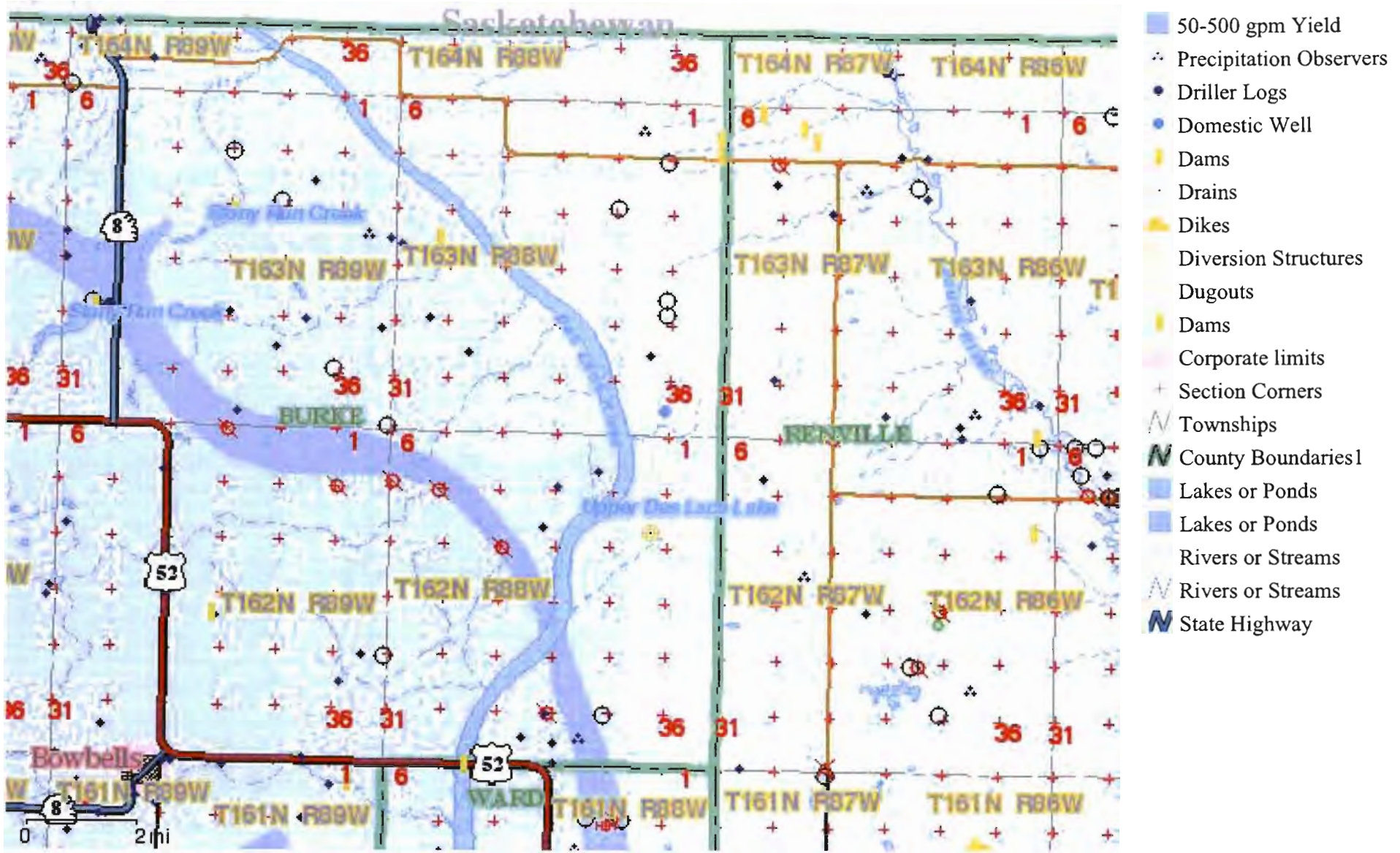
**Range**

**Section**

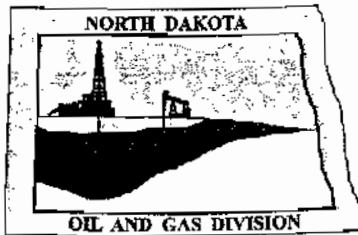
183 N	89 W	2
163 N	89 W	3
163 N	89 W	9
163 N	89 W	10
163 N	89 W	11
163 N	69 W	15



# STATE WATER COMMISSION WELLS



Map created using the NDSWC's mapservice at <http://maps01.wcc.sask.ca/got>



# Oil and Gas Division

Lynn D. Helms - Director      Bruce E. Hicks - Assistant Director

**Department of Mineral Resources**

Lynn D. Helms - Director

**North Dakota Industrial Commission**

[www.oilgas.nd.gov](http://www.oilgas.nd.gov)

July 11, 2007

The Honorable Teri Baumann  
Burke County Auditor  
P.O. Box 310  
Bowbells, ND 58721-0310

RE:    Geophysical Exploration  
       Permit #97-0132  
       Permit #97-0133  
       Permit #97-0134

Dear Ms. Baumann:

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 July 11, 2007 and will remain in effect for a period of one year. The entire permit can be viewed on our website at: <https://www.dmr.nd.gov/oilgas/seismic/seismicstats.asp>

Should you have any questions, please contact our office.

Sincerely,

Todd L. Holweger  
DMR Permit manager



# Oil and Gas Division

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**Department of Mineral Resources**

Lynn D. Helms - Director

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[www.oilgas.nd.gov](http://www.oilgas.nd.gov)

July 11, 2007

Mr. Bruce Fulker  
One Riverway, Ste 440  
Houston, TX 77056

RE:    Geophysical Exploration Permits # 97-0134  
       North Mesa 2-D  
       Burke County, North Dakota

Dear Mr. Fulker:

Please be advised that we are in receipt of your Geophysical Exploration permit and have conditionally approved your permit effective for one year from July 11, 2007.

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 701-290-1546 (cell) or 701-227-7436 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 eisterns, pipelines, and flowing springs that fall within the program area and within one half mile of the pcrimeter 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.
5. It is required that within seven days of initial contact between the permitting agent and the operator of the land, the permitting agent shall provide the operator of the land and each landowner owning land within one-half mile of the land on which geophysical exploration activities are to be conducted a written copy of NDCC Section 38-08.1-04.1 (Exploration Permit) and NDCC Chapter 38-11.1 (Oil and Gas Production Damage Compensation). The permitting agent shall file an affidavit with this office confirming compliance with such notification. For your convenience, a copy of both Sections are enclosed.

# Oil and Gas Division

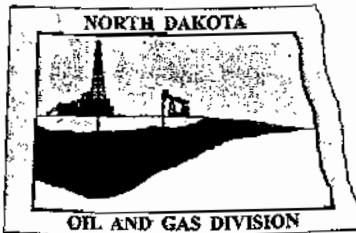
Lynn D. Helms - Director      Bruce E. Hicks - Assistant Director

**Department of Mineral Resources**

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**North Dakota Industrial Commission**

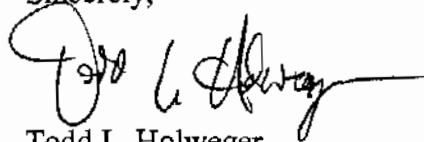
[www.oilgas.nd.gov](http://www.oilgas.nd.gov)



6. The permit agent shall notify the operator of the land at least seven days before commencement of any geophysical exploration activity, unless waived by mutual agreement of both parties. The notice must include the approximate time schedule and the location of the planned activity.
7. The entire permit can be viewed, as well as the status of various seismic projects in the state, at: <https://www.dmr.nd.gov/oilgas/seismic/scismicstats.asp>

Should you have any questions regarding this matter, feel free to contact me at 701-328-8020, or Tom Torstenson at the number listed in paragraph 1.

Sincerely,



Todd L. Holweger  
Mineral Resources Permit Manager