



## 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.									Ÿ.	W. VI. EL CLOS	
970156							_				
Shot Hole Operations				*Non-Explos	sive Operation	18					
					Vibroseis	<u> </u>					
SECTION 1											
Geophysical Contra	otor								<u></u>		
Geokinetics U	SA Inc.										
Project Name and N			<u> </u>	,		County(s)					
Golden Reef 3	-D				· ·	Ward & R	Renville				
Township(s)						Range(s)			•		
160 & 161						87		_		·	
Drilling and Plugging	g Contractors	<u> </u>									
na							_				
Date Commenced						Date Comple	eted				
December 23,2	2009					January 4	4, 2010	•			
SECTION 2											
First S.P.#		<del></del>				Last S.P.#					
						<u> </u>					
Loaded Holes (Unde	etonated Shot P	oints)				•					
S.P.#'s				T					Τ		
Charge Size											
Depth											
Reasons Holes Wer	e Not Shot		<u> </u>		1		<u> </u>	1	<u> </u>		
								_			
SECTION 3					-						
Flowing Holes and/o	r Blowouts		-								
6.P. <b>#</b> s											
no holes were (	drilled.										
Procedure for Pluggi	ng Flowing Hole	es and/or Bl	lowouts								
							. عسسيمسي		<b>.</b>		
				•		300					
				,			950930	NAME MAG			

Apam enations needs
Notary Public
State of North Dakota
Wy Commission Express Apr 30, 2014

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.

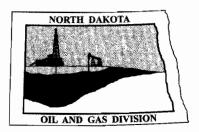
Industrial Commission of North Dakota SFN 51456 (03-2005) Page 2

AFFIDAVIT OF COMPLET	ION (GEOPHYSICAL CONTRACTOR)
STATE OF North Dakota )	
STATE OF North Dakota )  COUNTY OF Ward )	•
Before me, Adam Braun beign	, a Notary Public in and for the said
County and State, this day personally appeared	Jason Lee
who being first duly sworn, deposes and says that (s)	he is employed by, that (s)he has read North Dakota
Century Code Section 38-08.1, that the foregoing	
accordance with North Dakota Administrative Code	
the reverse side of this document are true.	Jason Lee/seismic permit agent
	Geophysical Contractor Representative
Subscribed in my presence and sworn before me this	287th day of January, 2010

ADAM SRAMBERGER
Notary Public
State of North Dakota
My Commission Expires Apr 10, 2014

**Notary Public** 

Coll By



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

October 29, 2009

Mr. Trevor Krauss Geokinetics USA, Inc 1500 CityWest Blvd. Suite 800 Houston, TX 77042

RE:

Golden Reef 3-D

Geophysical Exploration Permit #97-0156

Mountrail County

Dear Mr. Krauss:

Please be advised that we are in receipt of your Geophysical Exploration permit and it is conditionally *renewed*; effective for one year from October 29, 2009. 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 following information must be submitted within 30 days of the completion of the project by the Geophysical Company:
  - a. Completion Report,
  - b. Completion Affidavit,
  - c. Post Plot Map. It must show all water wells, buildings, underground cisterns, pipelines, and flowing springs that fall within the program area and within one half mile of the perimeter of the program.
  - d. SD card or email: <u>ttorstenson@nd.gov</u> with all source and receiver points,
  - e. Letter stating that the Geophysical Company has given all surface owner's a copy of the Section and Chapter of the NDCC as stated in paragraph 5.
- 4. The following information must be submitted within 30 days of the completion of the project by the SUBCONTRACTOR(s) (when applicable):
  - a. Plugging Report
  - b. Plugging Affidavit

- 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.
- 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. Information for the locations of water wells, springs, etc.; refer to the following ND State Water Commission Mapservice website, at: <a href="http://mapservice.swc.state.nd.us/">http://mapservice.swc.state.nd.us/</a>
- 8. The entire permit can be viewed, as well as the status of various seismic projects in the state, at: <a href="https://www.dmr.nd.gov/oilgas/seismic/seismicstats.asp">https://www.dmr.nd.gov/oilgas/seismic/seismicstats.asp</a>

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

# CHIAT SE,

1) a. Company

#### **GEOPHYSICAL EXPLORATION PERMIT**

Address

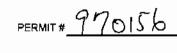
INDUSTRIAL COMMISSION OF NORTH DAKOTA OIL AND GAS DIVISION 600 EAST BOULEVARD DEPT 405 BISMARCK, ND 58505-0840 SFN 51459 (02-2008)

(a)	2018 18 18 19 J	
3.15.17.00	OCT 2009	
	1000 500 500 500 500 500 500 500 500 500	Y

Geokinetics USA,	lnc	1500 City West, Suit	te 800, Houston, TX	77042	(0.6.8.L.9)		
Contact		Telephone		Fax			
Trevor Krauss		281 484-6800		432 699-4221			
Surety Company		Bond Amount		Bond Number			
U.S. Specialty Inst	urance Co		\$50,000	B004059			
2) a. Subcontractor(s)		Address		Telephone			
Ericson Contract	Surveying	111 5th SW, Sidney,	MT 59270	406 482-6606			
b. Subcontractor(s)		Address		Telephone			
c. Subcontractor(s)		Address		Telephone			
2) P-+-M		Address (Issa)					
3) Party Manager		Address (local)		Telephone (local)			
Juan Trevino  4) Project Name or Line N	lumbere			281 636-2689			
1 ' '	dumbers						
Golden Reef 3-D  5) Exploration Method (Sh	not Hole, Non-Explosive, 2D,	3D. Other)					
3-D Vibroseis	iot ( )oto ( ) to ( ) Expression ( ) E2 (	-2,,					
6) Approximate Start Date	· · · · · · · · · · · · · · · · · · ·		Approximate Completion	Date			
November 1,2009			February 15, 2010				
	ION MUST BE NOTIFIED	AT LEAST 24 HOURS IN A			LL/PLUG OPERATIONS		
7) Location of Proposed F	Project - County						
Ward & Renville	,						
Train a Henrine	Section		T.		R.		
		4, 5, 6, 7, 8 & 9		160	87		
Section(s),	Section 26	, 27, 28, 33, 34 & 35	T.	161	R. <b>87</b>		
Township(s) & Range(s)	Section	, 27, 20, 00, 07 00	Т.		R.		
d Nange(5)							
	Section		Т.		R.		
8) Size of Hole	Amt of Charge	Depth Sour	rce points per sq. mi.	No. of sq. mi.	Must supply latitudes and		
3-D	NA	NA _	120	9	longitudes of post-plot		
Size of Hole	Amt of Charge	Depth Sou	rce points per In. mi.	No. of In. mi.	source and receiver points on an SD card.		
	illing and plugging procedure	es?		_			
11) Enclose a pre-plot ma	p with proposed location of s	eismic program lines and pov	wder mag.				
Signed / /	1 1	Title	_	Date			
14/1m		Jeff Lund-Contract	Permit Agent	October 20,20	009		
Permit No.	(This space for State o			Conditions of	Approval if any		
970	156	Approval Date / 0/7.9 / 09	Renow	ed perm	:7		
Approved by	W 140010+0	,		Town	/ · ·		
Title	oral Resources Permi	t Manager	See.	Renewed permit.  See Attached Letter.			
County Approval Sent	Oral Resources Fermi				, ,		
[ \( \sigma^a \)	ird & Kenville	(sent previous	sly				

#### SUNDRY NOTICE

INDUSTRIAL COMMISSION OF NORTH DAKOTA OIL AND GAS DIVISION 600 EAST BOULEVARD DEPT 405 BISMARCK, ND 58505-0840 SFN 51458 (03-2003)



Project Name	., , .
Golden Reef 3-D	
County	
Ward	
Supplemental Information	
The Golden Reef 3-D project has been postponed and will not be con-	ducted in the time-frame of the existing permit.
, , , , , , , , , , , , , , , , , , ,	

Company				
Geokinetics				
Address 1500 City West Blvd, Suite 800				
City	State	Zip Code		
Houston	TX	77042		
Jeff Lund	Date <b>April 14, 2009</b>			
Title V	Telephone Number			
Contract Permit Agent	(612) 501-2164			

FOR OFFICE USE ONLY

Date Receive	1/17/2009	
Ву	11 College	
Title <b>Spinoral</b>	Resources Perm	it Manager



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

March 18, 2009

Mr. David Bush Permit Manager Geokinetics USA, INC 1500 City West Suite 800 Houston, TX 77042

RE: G

Golden Reef 3-D

Renville and Ward Counties

Geophysical Exploration Permit # 970156

Original Permit Date: 3/12/2008

Dear Mr. Bush,

According to our records the above captioned seismic project has expired. It must be renewed on a Sundry Notice and accompany a \$100 fee. Please note the enclosed Sundry Notice for your convenience. Should you have any questions, feel free to call.

Singerely,

Todd L. Holweger DMR Permit Manager



### **GEOPHYSICAL EXPLORATION PERMIT**

INDUSTRIAL COMMISSION OF NORTH DAKOTA OIL AND GAS DIVISION 600 EAST BOULEVARD DEPT 405 BISMARCK, ND 58505-0840 SFN 51459 (02-2008)

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45.6	MAR 2008	
(C)	RECEIVED ND OIL & GAS DIVISION	
-	DIVISION	11

1) a Company			Address				Co. Section	
Geokinetics USA	, inc.		1500 City We	st, Suite 800, I	louston, T	77042		
Contact		-	Telephone	· ·		Fax		
Trevor Krauss			432 699-3225			432 699-4221		
Surety Company			Bond Amount			Bond Number		
U.S. Specialty In:	surance Co	o.			\$50,000	B004059		
2) a. Subcontractor(s)	<u> </u>		Address		10,100	Telephone	<u> </u>	
1 .	Surveying	,	111 5th SW	Sidney, MT 59:	270	406 482-6606		
b. Subcontractor(s)			Address	Sidney, III 55		Telephone		
2. Odobani (2)								
c. Subcontractor(s)	<del>-</del>		Address			Telephone		
}			1					
3) Party Manager			Address (local)			Telephone (local)		
Raul Arredondo						713 2520-891	9	
4) Project Name or Line	Numbers							
Golden Reef 3-D								
5) Exploration Method (	Shot Hole. Nor	n-Explosive. 2	2D, 3D, Other)		<del></del> _			
3-D Vibroseis	, , , , , ,		,					
6) Approximate Start Da				Approxim	nate Completion			
1				[				
March 15,2008					5, 2008			
			ED AT LEAST 24 HC	DURS IN ADVANC	E OF COMME	CEMENT OF DR	ILL/PLUG OPERATIONS	
7) Location of Proposed	Project - Cou	nly						
Ward & Renville								
		Section		_	Т		R.	
ľ			4, 5, 6, 7, 8 8	<u>k 9</u>	<del></del> _	160	87	
Section(s)	<b>i.</b>	Section	26, 27, 28, 33, 34	4 8 35	T.	161	R. <b>87</b>	
Township(s		Section	20, 21, 20, 00, 0	<del></del>	T	101	R	
l & Range(s	5)							
		Section			Т.		R.	
0) 0:	1 401-6	<u></u>	D-11			N11		
8) Size of Hole 3-D		Charge I <b>A</b>	Depth	Source points		No. of sq. mi.	9) Must supply latitudes and	
Size of Hole	<del>-</del>	Charge	NA Depth	Source point		No of In. mi	longitudes of post-plot source and receiver points	
2-D	7 07	0114195	30,000	l course point	, per	110 07 117 117	on an SD card.	
10) Anticipated special	drilling and plu	gging proced	lures?			·		
.(^)								
11) Enclose a pre-plot n	nap with propo	sed location	of seismic program line	es and powder mag.			<del></del>	
Signed	10	7	Title			Date		
X/v/n	, Vh	/ (	1					
-/-/- V 0,	(This en	ann for Ctat	Jeff Lund-Pe e office use)	rmit Agent		March 10,200	Approval if any	
Perimit No 95		ace for State	Approval Date			Conditions of	Approval ir any	
170	156		3/12/	2008				
Approved by	1 / -/	10	<del>- /- /</del>		_ ا	11	10/1/01	
	x 4	King			\ \sigma	ze Ato	rched letter	
Title <b>Kii</b>	neral Reso	urces Per	mit Manager			, , , ,		
	<del></del>							
County Appliaval Sent	ward.	5 Po.	sille.		}			
		<u> </u>						



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

March 12, 2008

Mr. Trevor Krauss Geokinctics USA, Inc 1500 CityWest Blvd. Suite 800 Houston, TX 77042

RE:

Golden Reef 3-D

Geophysical Exploration Permit #97-0156

Mountrail County

Dear Mr. Krauss:

Please be advised that we are in receipt of your Geophysical Exploration permit and it is conditionally approved; effective for one year from March 12, 2008 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.
- 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.
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  - b. Completion Affidavit,
  - c. Post Plot Map. It must show all water wells, buildings, underground cisterns, pipelines, and flowing springs that fall within the program area and within one half mile of the perimeter of the program.
  - d. SD card with all source and receiver points,
  - e. Letter stating that the Geophysical Company has given all surface owner's a copy of the Section and Chapter of the NDCC as stated in paragraph 5.
- 4. The following information must be submitted within 30 days of the completion of the project by the SUBCONTRACTOR(s) (when applicable):
  - a. Plugging Report
  - b. Plugging Affidavit

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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



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

March 12, 2008

The Honorable Devera Smestad Ward County Auditor 315 3ed St SE Minot, ND 58701

> RE: Geophysical Exploration Permit # 97-0156

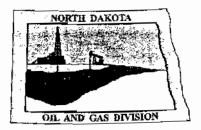
Dear Ms. Smestad:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please he advised that Geokinetics USA, Inc. was issued the above captiotted permit on March 12, 2008 and will remain in effect for a period of one year. The entire permit can be viewed on our website at: <a href="https://www.dmr.nd.gov/oilgas/seismic/seismicstats.asp">https://www.dmr.nd.gov/oilgas/seismic/seismicstats.asp</a>.

Should you have any questions, please contact our office.

Sincerely,

Todd L. Holweger



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

March 12, 2008

The Honorable LeAnn Fisher Renville County Auditor P.O. Box 68 Mohall, ND 58761

> RE: Geophysical Exploration Permit # 97-0156

Dear Ms. Fisher:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Geokinetics, USA, Inc. was issued the above captioned permit on March 12, 2008 and will remain in effect for a period of one year. The entire permit can be viewed on our website at: <a href="https://www.dmt.nd.gov/oilgas/seismic/seismicstats.asp">https://www.dmt.nd.gov/oilgas/seismic/seismicstats.asp</a>.

Should you have any questions, please contact our office.

Sincerely,

Toold L. Holweger

