INE OIL 600 BIS	EOPHYSICAL EXPLORATION A DUSTRIAL COMMISSION OF NORTH DAKOTA L AND GAS DIVISION D EAST BOULEVARD DEPT 405 SMARCK, ND 58505-0840 N 51456 (03-2011)		OMPLETION REPORT - FORM GE 6B
			Global Geophysical Services Inc
MAR 2015	PERMIT NAME (Re		
	PERMIT N	JMBER:	97-0260
DVISON LE	AFFIDAVIT OF COMPLETIC	DN (GEOPHYSI	CAL CONTRACTOR)
STATE OF	North Dakota )		
COUNTY OF	, Bottineau		
COUNTYOF	/		
		,	
Before me,	Caren f. Jan	on	, a Notary Public in and for the said
County and Sta	te, this day personally appeared		Judy Hakala
who being first	duly sworn, deposes and says that	(s)he is employe	d bySt Croix Seismic
	•		, that (s)he has read North Dakota
Century Code	Section 38-08.1, that the forego	ing seismic proj	ect has been completed in
accordance wit	th North Dakota Administrative C	ode Rule 43-02	2-12 and that the statements on
the reverse sid	e of this document are true.		
		Geophysical C	uy Hakab ontractor Representative
Subscribed in n	ny presence and sworn before me	this <u>3rd</u>	day of March , 2015.
My Cor	KAREN F. LARSON Notary Public State of North Dakota mmission Expires Oct. 12, 2016	Notary Public	Joren J. Jarson
My Commission	Expires Oct. 12,	2016	



INDUSTRIAL COMMISSION OF NORTH D. OIL AND GAS DIVISION 600 EAST BOULEVARD DEPT 405 BISMARCK, ND 58505-0840 SFN 51456 (03-2011)

Permit No.	
97-0260	
Shot Hole Operations	*Non-Explosive Operations
	Vibroseis

## **SECTION 1**

Geophysical Contractor						
Global Geophysical Services Inc 13927 South Gessner Rd, Missouri City, TX 77489						
Project Name and Number	County(s)					
Westhope 3D	Bottineau					
Township(s)	Range(s)					
163N	80W					
Drilling and Plugging Contractors						
Date Commenced	Date Completed					
February 15, 2015	March 3, 2015					

## **SECTION 2**

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

## **SECTION 3**

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 (Form GE 6B).



Judy Hakala 5410 72 Circle N Minneapolis, MN 55429

Email: judyinmpls@msn.com

March 5, 2015

Industrial Commission of North Dakota Oil & Gas Division Att: Todd Holweger 600 East Boulevard Dept 405 Bismarck, ND 58505-0840

Dear Todd,

St. Croix Seismic is currently working on behalf of LXL Consulting LTD on a 3D geophysical survey in Bottineau County, North Dakota exploring for oil and gas on behalf of Resonance Energy North Dakota.

The State of North Dakota Oil and Gas Commission requires that we provide the surface owners with ND Oil and Gas Rules and Regulations 38-08.1-04 and Chapter 38-11.1. Our permits show under conditions

8- I have been provided the ND Oil and Gas Rules and Regulations 38-08.1-04 and Chapter 38-11.1. We require the surface owner to initial the original permit.

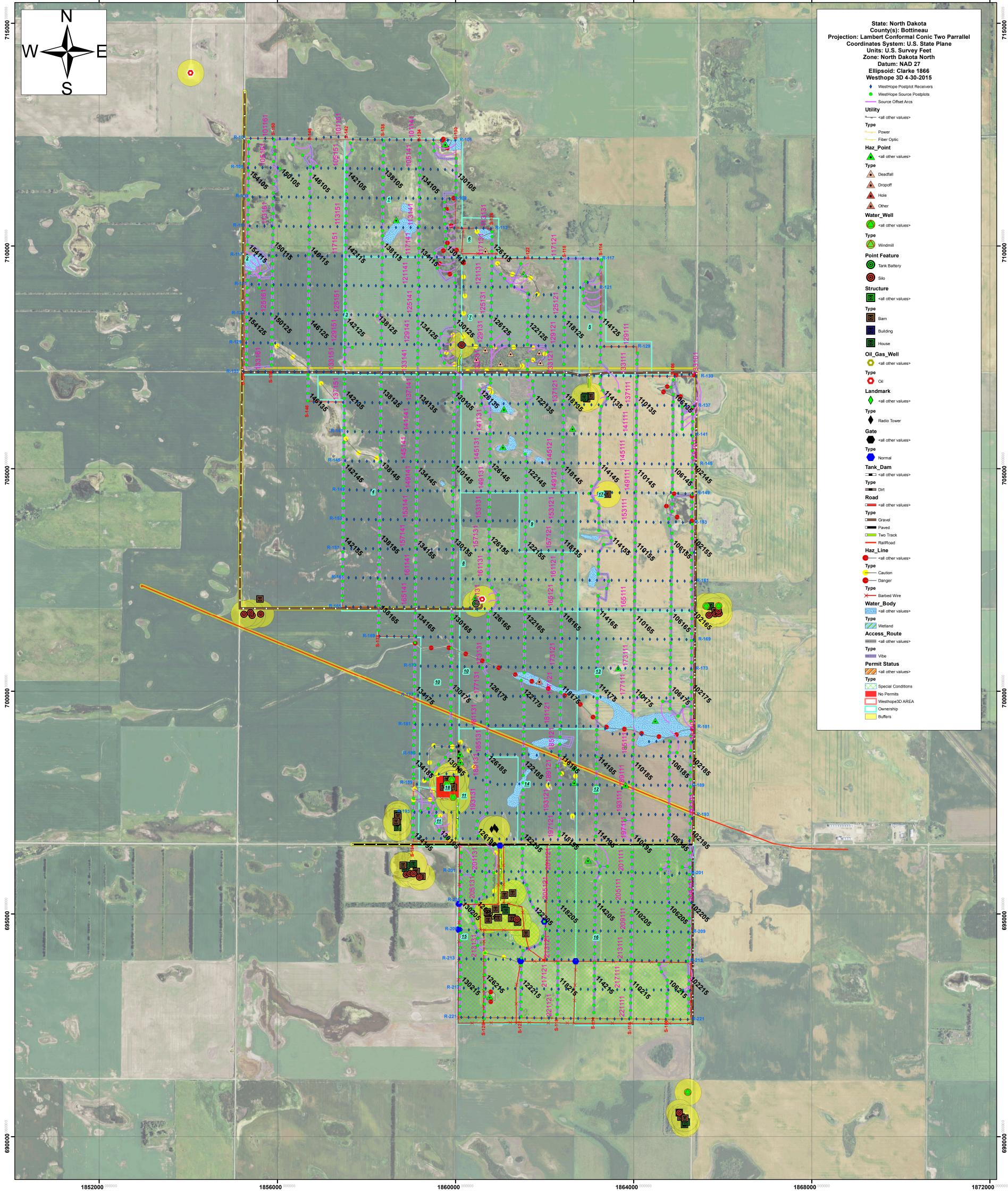
In total compliance I have done that and all my Westhope 3D permits reflect that.

Accept this letter as compliance to item #4 noted on the letter provided by you with our signed permit.

Should you have any questions or comments regarding the attached documents or scheduling, please contact me by cell phone 612 990-7273.

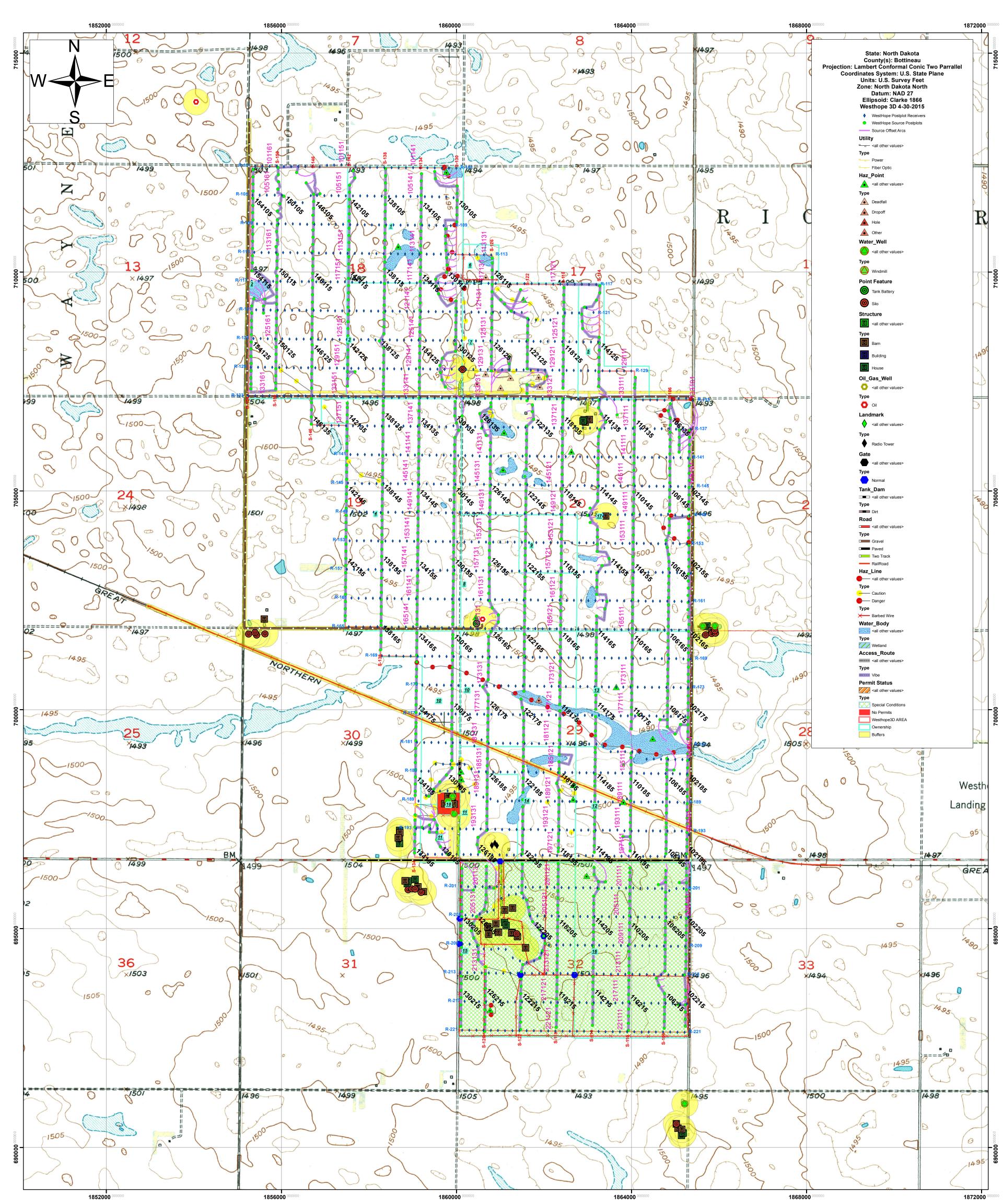
Regards, takala

Judy Hakala St. Croix Seisimic Permit Agent 612 990-7273



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1856000<sup>.0</sup>



**GEOPHYSICAL EXPLORATION AFFIDAVIT OF COMPLETION REPORT - FORM GE 6B** INDUSTRIAL COMMISSION OF NORTH DAKOTA **OIL AND GAS DIVISION** 600 EAST BOULEVARD DEPT 405 BISMARCK, ND 58505-0840 SFN 51456 (03-2011) **Global Geophysical Services Inc** PERMIT NAME (Required): 97-0260 PERMIT NUMBER: **AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)** North Dakota STATE OF Bottineau COUNTY OF , a Notary Public in and for the said Before me. Judy Hakala County and State, this day personally appeared who being first duly sworn, deposes and says that (s)he is employed by St Croix Seismic , 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. Geophysical Contractor Representative 3rd day of Marc Subscribed in my presence and sworn before me this ,2015. KAREN F. LARSON Notary Public State of North Dakota My Commission Expires Oct. 12, 2016 Notary Public 12,2016 My Commission Expires

## **GEOPHYSICAL EXPLORATION COMPLETION REPORT - FORM GE 6A**



INDUSTRIAL COMMISSION OF NORTH DAKOTA OIL AND GAS DIVISION 600 EAST BOULEVARD DEPT 405 BISMARCK, ND 58505-0840 SFN 51456 (03-2011)

Permit No.	
97-0260	
Shot Hole Operations	*Non-Explosive Operations
	Vibroseis

#### **SECTION 1**

Geophysical Contractor							
Global Geophysical Services Inc 13927 South Gessner Rd, Missouri City, TX 77489							
Project Name and Number	County(s)						
Westhope 3D	Bottineau						
Township(s)	Range(s)						
163N	80W						
Drilling and Plugging Contractors							
Date Commenced	Date Completed						
February 15, 2015	March 3, 2015						

## **SECTION 2**

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

## **SECTION 3**

Eleving Holes and/or Playauta
Flowing Holes and/or Blowouts
S.P.#'s
Dreadure for Diverging Flowing Holes and/or Disvisite
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
Individual shot hole. SP # line # and ledal location



# **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/

February 17, 2015

Dale Kluck Global Geophysical Services, Inc. 13927 South Gessner Road Missouri City, TX 77489

RE: WESTHOPE 3-D GEOPHYSICAL EXPLORATION PERMIT # 97-0260 BOTTINEAU BURKE COUNTY NON EXPLOSIVE METHOD

Dear Mr. Kluck:

Please be advised that we are in receipt of your Geophysical Exploration permit application and it is conditionally approved; effective for one year from February 17, 2015. PURSUANT TO NDAC 43-02-12-05 (DISTANCE RESTRICTION) nonexplosive exploration method may not be conducted not less than 300 feet from a water well, building, underground cistern, pipelines, and flowing spring. In addition, pursuant to NDAC 43-02-12-06 (NOTIFICATION OF WORK PERFORMED), "The director is authorized to suspend operations of the entire geophysical project, or any portion thereof, if further activity will cause excessive damage to the surface of the land". Review the following conditions for your permit:

- 1. A pre-program meeting with state seismic inspector Tom Torstenson is required. You must contact him at 701-290-1546 (cell) or 701-227-7436 at least 24 hours prior to any exploration operations. <u>Also, a copy of the entire permit is required</u> for all contractors at the pre-program meeting.
- 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. An Image file (.img) on an 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. 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.
- 5. 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.
- 6. Information regarding the location of water wells, springs, etc.; refer to the following ND State Water Commission Mapservice website, at: http://mapservice.swc.state.nd.us/
- 7. The entire permit can be viewed, as well as the status of various seismic projects in the state, at: <u>https://www.dmr.nd.gov/oilgas/seismic/seismicstats.asp</u>

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, NINI

Todd L. Holweger DMR Permit Manager



GEOPHYSICAL EXPLORATION PERMIT - FORM GE 1 INDUSTRIAL COMMISSION OF NORTH DAKOTA OIL AND GAS DIVISION 600 EAST BOULEVARD DEPT 405 BISMARCK, ND 58505-0840 SFN 51459 (03-2011)



1) a. Company	A 1 1	Address				C.LILEU	Ula
Global Geophysical	Services, Inc		Gessner Road, M	issouri City, T.			
Contact Dale Kluck		Telephone (832) 367-888	85		Fax		
Surety Company Westchester Fire In	surance Company	Bond Amount \$25,000.00			Bond Number K09046665		
2) a. Subcontractor(s)		Address			Telephone		
b. Subcontractor(s)		Address			Telephone		
3) Party Manager Dale Kluck		Address (local) Unknown		Telephone (local) (832) 367-8885			
4) Project Name or Line Westhope 3D	Numbers				1 (002) 001 000		
	Shot Hole, Non-Explosive	e, 2D, 3D, Other)					
6) Distance Restrictions	olosive - Distance setback	ks apply to water wel					
7) Size of Hole 3-D	Arnt of Charge NA	Depth NA	Source points		No. of sq. mi. Approx 5		
Size of Hole 2-D	Amt of Charge	Depth	Source point	s per In. mi.	No. of In. mi.		
8) Approximate Start Da February 15, 2015			Approxin	nate Completio 1, 2015	n Date		
	N MUST BE NOTIFIED	AT LEAST 24 HO			CEMENT OF G	EOPHYSICAL	OPERATIONS
9) Location of Proposed Bottineau							
	Section	17, 18, 19, 20, 29	9 30 32	Τ.	163W	R.	80W
	Section			Τ.		R.	
Section(s),	Section			т.		R.	
Township(s) & Range(s)	Section					R.	
	Section			Т.		R.	
	Section			Τ.		R.	
hereby swear or affirm	that the information provi	dod in this normalete	and correct on date	main of from all		Date	, ,
and the second se	and the mornauon provi					2/	15/2015
Sudith	Hakala	) Printed Name Judith Hakala		Tit Po	<sup>le</sup> ermit Agent St	Croix Seism	lic
mail Address(es)							
udyinmpls@msn.co	om						
					Permit C	onditions	
ermit No.	(This space for State		,		t in hand required		
91/-	0260	Approval Date	12015		eld inspector and egulations (i.e. di		
pproved by	TON Get	Dwon	-	* See a	ttached letter		
itle	U Minamal I	Perources Perm	nit Manager	000 8			

\*See Instructions On Reverse Side



# Westhope 3D Resonance Energy/ LXL Consulting December 17/2014 Version 1.01 Grid Plot





400 800 1200 1600 Scale - 1:32500 (Metres)

Parameters

Receiver Line Interval Source Line Interval Receiver Interval Source Interval Patch 200m 250m 50m 50m 12 X 60



# **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/

February 17, 2015

The Honorable LISA HERBEL Bottineau County Auditor 314 West 5<sup>th</sup> Bottineau, ND 58318-1204

> RE: Geophysical Exploration Permit # 97-0260

Dear Ms. HERBEL:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Global Geophysical Services, Inc. was issued the above captioned permit on February 17, 2015 and will remain in effect for a period of one year. The entire permit can be viewed on our website at: <u>https://www.dmr.nd.gov/oilgas/seismic/s</u>

Should you have any questions, please contact our office.

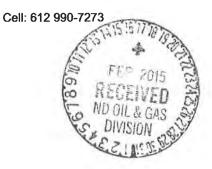
Sincerely,

Todd L. Holweger Mineral Resources Permit Manager



Judy Hakala 5410 72 Circle N Minneapolis, MN 55429

Email: judyinmpls@msn.com



February 15, 2015

Mr. Todd Holweger Regulatory Supervisor Industrial Commission of North Dakota Oil & Gas Division 600 East Boulevard Ave, Dept 405 Bismarck, North Dakota 58505-0840

RE: Application for Geophysical Exploration Permit for Westhope 3D Project

Dear Mr Holweger:

On behalf of Global Geophysical Services, Inc., I hereby request a permit for the above referenced seismic operations. Please accept enclosed as application following the emailed permit.

We are in somewhat of a time crunch, your permit states minimum of 3 business days, so I am hopeful that it can be approved within that timeframe.

I have enclosed

- Form GE 1
- 8 1/2 by 11 plat of the proposed project area
- \$100.00 check for the permit fee

Thank you in advance for processing this permit request.

All appropriate notifications will be made advising Tom Torstenson of our progress. Also he will receive electronic copies of permits and ½ mile letters.

Should you have any questions or comments regarding the attached documents or scheduling, please contact me by cell phone 612 990-7273.

Regards,

Judy Hakala St. Croix Seisimic Permit Agent 612 990-7273



## North Dakota Industrial Commission Department of Mineral Resources Oil & Gas Division

## FORM GE 1

## **FILING AUTHORIZATION**

COMPANY NAME: Global Geophysical Services, Inc.

ADDRESS: 13927 South Gessner Rd

CITY: Missouri City	STATE: TX	ZIP: 77351
	UTTTL.	

This form authorizes the person(s) listed below to submit a NDIC Geophysical Exploration Permit – Form GE 1 for approval on behalf of the designated company as listed above.

A new authorization will be required if any changes are to be made to the authorized individuals on the form.

The data submitted from the authorized individuals listed below have been checked and conform to the standards and procedures set forth by the NDIC Department of Mineral Resources.

The authorized individual(s) will ensure that the company, as listed above, and party manager receive a copy of the approved Form GE 1

Authorized Individuals

Judy Hakala

<u>E-Mail Address</u> <u>P</u> judyinmpls@msn.com 6

Phone Number 612 990-7273

Company Authorized Signature:	Date: 2-11-15
	Title: Party Manager Corros 445
Phone: 832-367-8885 Email Address	dele. Kluck@globalgeophysical. Com
***********	******
Witness Signature:	Date: 2.11.15
Witness Printed Name: Jason P. Kelly	
1	

ACORD

## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 01/27/2015

E F	THIS CERTIFICATE IS ISSUED AS A CERTIFICATE DOES NOT AFFIRMAT BELOW. THIS CERTIFICATE OF INS REPRESENTATIVE OR PRODUCER, A	IVELY SURAI ND TH	' OF NCE IE C	R NEGATIVELY AMEND, DOES NOT CONSTITUT ERTIFICATE HOLDER.	EXTEI E A C	ND OR ALT	ER THE CO Between	VERAGE AFFORDED E THE ISSUING INSURER	ВҮ ТН (S), А	e policies Uthorized		
t	MPORTANT: If the certificate holder he terms and conditions of the policy	, certa	lin p	olicies may require an en	oolicy( dorse	ies) must b ment. A sta	e endorsed. tement on th	If SUBROGATION IS W is certificate does not c	AIVED onfer	), subject to rights to the		
certificate holder in lieu of such endorsement(s). PRODUCER Marsh USA Inc. 500 Dallas St, Suite 1500						CONTACT NAME: PHONE FAX (A/C, No, Ext): (A/C, No):						
Houston, TX 77002 Attn: houston.certs@marsh.com 178099-CAS-14-15 INSURED Global Geophysical Services, Inc.					(A/C, No, Ext): E-MAIL ADDRESS:							
					INSURER(S) AFFORDING COVERAGE							
					INSURER A : Starr Indemnity & Liability Company							
					INSURER B : American Guarantee & Liability Ins Co							
	13927 S. Gessner Road				INSURER C :							
'	Missouri City, TX 77489				INSURER D :							
				INSURER E :								
			_		INSURER F :							
				ENUMBER:	HOU-002360464-01 REVISION NUMBER: 1							
	HIS IS TO CERTIFY THAT THE POLICIES NDICATED. NOTWITHSTANDING ANY RI ERTIFICATE MAY BE ISSUED OR MAY XCLUSIONS AND CONDITIONS OF SUCH	Equiri Perta Polic	eme NN, Ies.	NT, TERM OR CONDITION C THE INSURANCE AFFORDE LIMITS SHOWN MAY HAVE E	d by	CONTRACT	OR OTHER	Document with Respe D Herein is subject to	CT TO	WHICH THIS		
INSF		ADDL S	WVD	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT		1 000 000		
A	GENERAL LIABILITY			SISINRG00100414		04/01/2014	04/01/2015	EACH OCCURRENCE	\$	1,000,000		
	X COMMERCIAL GENERAL LIABILITY				- 1			DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	1,000,000		
	CLAIMS-MADE X OCCUR							MED EXP (Any one person)	\$	10,000		
	X SIR - \$100,000							PERSONAL & ADV INJURY	\$	1,000,000		
	X POLLUTION: Sudden & Accidental							GENERAL AGGREGATE	\$	2,000,000		
	GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO- JECT LOC							PRODUCTS - COMP/OP AGG	\$ \$	2,000,000		
A	AUTOMOBILE LIABILITY X ANY AUTO			SISIPCA08258914		04/01/2014	04/01/2015	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person)	\$ \$	1,000,000		
	ALL OWNED SCHEDULED							BODILY INJURY (Per accident)	\$			
	AUTOS AUTOS NON-OWNED							PROPERTY DAMAGE	\$			
	HIRED AUTOS AUTOS							(Per accident)	\$			
В	X UMBRELLA LIAB X OCCUR			AUC 9243160-02		04/01/2014	04/01/2015	EACH OCCURRENCE	\$	5,000,000		
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	s	5,000,000		
	DED RETENTION \$							HOOREONIE	\$			
A	WORKERS COMPENSATION			100 0001170-01		04/01/2014	04/01/2015	X WC STATU- TORY LIMITS ER	1			
	AND EMPLOYERS' LIABILITY Y / N ANY PROPRIETOR/PARTNER/EXECUTIVE							E.L. EACH ACCIDENT	\$	1,000,000		
	OFFICER/MEMBER EXCLUDED?	N/A						E.L. DISEASE - EA EMPLOYEE	\$	1,000,000		
	If yes, describe under DESCRIPTION OF OPERATIONS below		-					E.L. DISEASE - POLICY LIMIT		1,000,000		
							1000			1		
	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC hope 3D 2015- 11.8² km (118.53 linear km)	LES (Att	tach <i>i</i>	ACORD 101, Additional Remarks Sc	:heđule,	if more space is	s required)					
CERTIFICATE HOLDER						CANCELLATION						
Resonance Energy Ltd c/o LXL Consulting Ltd					SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.							
				AUTHORIZED REPRESENTATIVE of Marsh USA Inc.								
				P	Patrick R. Hedrick Portras R. Hadrink, R.							

The ACORD name and logo are registered marks of ACORD

## 3D Design Parameter Sheet

DATE:	17-Dec-14				TM	Geometry Type:			
CLIENT:	Resonance Energy / L	KL Consulting Ltd			9		On	hogonal	-
PROSPECT NAME:	Westhope 3D	Land Land				AREA: Surface			
LOCATION: TV				VERSION:	1.01	Live Bins		<u>11.8</u> 12.9	km 2 km 2
BIN SIZE: 25		m	RNG	80		C	DUNTRY	North Da	kota, USA
RECEIVER INFORMATIO	N	<u>8</u>	SPCS North Dako	A DESCRIPTION OF A DESC	DATUM: NAD 27	-			
LINE ORIENTATION:		-		SOURCE INFORM	ATION	_			
NO. OF RECEIVER POINT	rs.	E-W		LINE ORIENTATION	N:	N-S			
RECEIVER DENSITY:		1278		NO. OF SOURCE P	OINTS:	1137			
RECEIVER ARRAY:		107.87 / km 2		SOURCE DENSITY	:	95.97	/ km 2		
RECEIVER INTERVAL:		TBA		SOURCE TYPE:		TBA			
		<u>50 m</u>		SOURCE INTERVAL	L:	50			
RECEIVER LINE INTERVA		200 m		SOURCE LINE INTE	RVAL:	250	m		
TOTAL KM OF RECEIVER	LINE:	62.35 km		TOTAL KM OF SOUR		Gente -	m		
NO. RECEIVER LINES:		31		NO. OF SOURCE LIN			km		
NO. OF RECEIVERS PER L	MINIMUM: 28	MAXIMUN:	63			14			
STATION STAGGER:		triple		STATION STAGGER:		triple			
TECHNICAL DETAILS									
MAX-MIN OFFSET (AT CEN LINE INTERVAL ASPECT RA PATCH ASPECT RATIO (INLI	ATTO (RLI/SLI)			320.15 m 0.80 2.82					]
RECORDING PARAMETERS									
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ECORDING OFFSETS:		N-S22	200 m	E-W31	100 m				
	INLINE	<u>3100 m</u>	CROSSLINE	1100 m	0	BLIQUE	3289		
OLD: OFFSET LIMITED									
Formation Depth		USEABLE OFFSET :	DEPTH RATIO:	14	7				
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<u>500</u> m	OFFSET 2 0	- 500 m	FOLD 2		ALL	LIVE:			
750 m	OFFSET 3 0	- 750 m	FOLD 7		ROL	COMPLETE LI	iES;	x	
<u>1000 m</u>	DFFSET 4 0	- 1000 m	FOLD 14		ROLI	ON/OFF;			
<u>1250</u> m (	OFFSET 5 0	- 1250 m			ROLL	IN (# OF LINES)	:	7	
<u> </u>	EBET	- 1500 m	FOLD 22		-			7	
				33	-				

#### **BOL EOL Lists**

DATE:





80

RNG

Resonance Energy / LXL Consulting Ltd. PROSPECT NAME: Westhope 3D

163

17-Dec-14

LOCATION: CORNER

CLIENT:

VERSION: 1.01

RECEIVER LIST LINE BOL ECH PUNIO NIN S R-101 R-101135 R-101163 29 1.4 R-105 R-105135 R-105163 29 1.4 R-188 R-108135 R-108162 28 34 1.35 R-113 R-113130 R-113163 1.65 R-117 R-117115 R-117163 49 2.4 R-121 R-121115 **48** 49 R-121162 2.35 R-125 R-125115 R-125163 2.4 R-129 R-129110 R-129163 54 2.65 R-133 R-133101 R-133163 63 3.1 R-137 R-137102 R-137154 53 2.6 R-141 R-141102 R-141149 48 2.35 R-145 R-145101 R-145149 49 24 R-149 R-149102 R-149149 48 2.35 R-153 R-153102 R-153149 48 2.35 R-157 R-157101 R-157149 49 2.4 R-161 R-161102 R-161149 48 48 2.35 R-165 R-165102 R-165149 2.35 R-169 R-169101 R-169144 44 2.15 R-173 R-173102 R-173139 38 1.85 R-177 R-177102 R-177139 38 1.85 R-181 R-181101 R-181139 39 1.9 R-185 R-185102 R-185139 38 38 1.85 R-189 R-189102 R-189139 1.85 R-193 R-193101 R-193139 39 1.9 R-197 R-197102 R-197139 38 1.85 R-201 R-201102 R-201133 32 1.55 R-205 R-205101 R-205132 32 1.55 R-209 R-209102 R-209133 32 1.55 R-213 R-213102 R-213133 32 1.55 R-217 R-217101 R-217132 32 1.55 R-221 R-221102 R-221133 32 1.55

Total

1278

62.35 km

SOURCE LIST Line BUL. EUL POINTS DUR D S-102 S-102133 S-102220 88 4.35 S-106 S-106133 S-106220 88 4.35 5-110 S-110128 5-110220 82 4.55 S-114 S-114117 S-114220 104 5.15 S-118 S-118117 S-118220 104 5.15 S-122 S-122117 8-122220 104 5.15 S-126 S-126113 S-126221 109 5.4 S-130 S-130101 S-130220 120 5.984 8-134 S-134101 S-134196 **96** 68 4.75 S-138 S-138101 S-138168 3.35 S-142 S-142101 S-142164 64 3.15 5-146 S-146181 S-146136 36 1.75 S-150 S-150101 S-150132 32 1.55 S-154 S-154101 5-154132 32 1.55 Total

0

1137 56.184

COUNTRY

North Dakota, USA