



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.												
#97-0276												
Shot Hole Operations					*Non-Explos	sive Operatio	ns					
n/a				Vibroseis								
SECTION 1												
Geophysical Cont												
PanAmerica	PanAmerican Seismic Inc.											
Project Name and Number				County(s)								
Westhope 2017 2-D				Bottineau								
Township(s)						Range(s)						
162N-16						79W	-80W					
Drilling and Pluggi	ing Contracto	ors										
Date Commenced	l					Date Compl	eted					
January 21,						1	, 27, 2017					
SECTION 2						1						<u></u>
First S.P. #						Last S.P. #						
Loaded Holes (Un	ndetonated Si	hot Points)				·						
S.P.#s												
Charge Size									-			
Depth												
Reasons Holes W	lere Not Shot											
SECTION 3												
Flowing Holes and	d/or Blowouts	8										
S.P.#'s												
Procedure for Plugging Flowing Holes and/or Blowouts												
. 100000.0 for 1 logging 1 lonning 1 lond on a long of the long of												
Include a 7.5 minu	ute USGS top	oographic qu	adrangle ma	p or a compu	ter generate	d post-plot fa	csimile of the	e approximat	e scale displ	aying ead	h	
individual shot ho	ie, 5P #, line	#, and legal	iocation.		_							

^{*}Non-Explosive Operations - Complete Section 1 and Affidavit (Form GE 6B).

A VOICE OF

My Commission Expires

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 58505-084C SFN 51456 (03-2011)

PERMIT NAME (Required): WESTHOPE 2017 2-10

PERMIT NUMBER: 97-02

AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR) STATE OF a Notary Public in and for the said Before me. County and State, this day personally appeared who being first duly sworn, deposes and says that (s)he is employed by mERICAN DEISMIC , 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 Subscribed in my presence and sworn before me this KIM HUNT Notary Public State of North Dakota **Notary Public** My Commission Expires War 17, 2020



Suite 300, 520 - 3nd Avenue SW, Calgary, AB T2P 0R3 Phone (403) 262-1541 Fax (403) 262-1568

Industrial Commission of North Dakota

April 18, 2017

Oil and Gas Division 600 East Boulevard Dept. 405 Bismarck, ND 58505-0840

Attn: Mr. Todd Holweger

Re: Final Project Information

Westhope 2017 2D -Seismic Exploration

Project Bottineau County ND Permit Number 97-0276

Dear Mr. Holweger,

Please find attached the final project information for the above mentioned seismic exploration project.

We have included Completion report, Completion Affidavit, Post plots information as per specifications, GIS layers (NAD 83) in Shape and IMG formats, and the affidavit stating that the Geophysical Contractor has given all surface owners a copy of the Section and Chapter of the NDCC as stated in paragraph 4 of the Exploration permit.

If you have any questions concerning this matter, please do not hesitate to contact me at <u>James.Switzer@Harbinger.ca</u> or fax (403) 262-1568.

Best regards,

Harbinger Exploration Corp.

James Switzer General Manager 403-262-1541

AFFIDAVIT

Canada)
Province of Alberta) S.S.
	1

I, James Switzer, of Calgary, Alberta, Canada, MAKE OATH AND SAY THAT:

1. I, James Switzer, of Calgary, Alberta, Canada an approved agent of PanAmerican Seismic Inc., state that all landowners impacted by the Westhope 2017 2D seismic exploration program have been provided with a copy of Section 38-08.1-04.1 (Exploration Permit) and NDCC Chapter 38.11.1 (Oil and Gas Production Damage Compensation), per the requirement of Geophysical Exploration Permit # ______.

SWORN/AFFIRMED BEFORE ME,	1
At Calgary	
Alberta, on	
This 22 day TER 2016.) James Switzer
An Expression)
A COMMISSIONER FOR OATHS AND FOR)
The Province of Alberta)

My Commission expires: Jun 26, 2018



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/

January 9, 2017

Mr. Mitchell Peters Director PanAmerican Seismic, Inc. 10700 Richmond Avenue, Suite 105 Houston, TX 77042

RE:

WESTHOPE 2017 2-D

GEOPHYSICAL EXPLORATION PERMIT #97-0276

BOTTINEAU COUNTY

NON EXPLOSIVE METHOD

Dear Mr. Peters:

Please be advised that we are in receipt of your Geophysical Exploration permit application and it is conditionally approved; effective for one year from January 9, 2017. PURSUANT TO NDAC 43-02-12-05 (DISTANCE RESTRICTION) non-explosive 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. Also, a copy of the entire permit is required 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. Must provide a GIS layer using NAD83 in an Esri shape file format and an Image file (.img) on a Flash Drive or email: ttorstenson@nd.gov with all source and receiver points,
- e. Affidavit 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 4. (Received 1/9/2017)
- 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. (Received 1/9/2017)
- 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: https://www.dmr.nd.gov/oilgas/seismic/seismicstats.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 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)

RECEIVED

DEC 28 2016

ND Oil & Gas Div.

1) a. Company PanAmerican Seismic Inc.		Address 10700 Richmond Avenue, Suite 105, Houston, Texas, 77042					
Contact Mitchell Peters		Telephone (403) 319-0922			Fax (403) 319-0933		
Surety Company		Bond Amount			Bond Number		
Lexon Insurance	Company	\$25,000.00			1119012		
2) a. Subcontractor(s)		Address			Telephone		
b. Subcontractor(s)		Address			Telephone		
3) Party Manager Braedon Peters		Address (local) Super 8 1007 11th Street East, Bottin			Telephone (local) (403) 969-5845		
4) Project Name or Line Westhope 2017 2						,	
5) Exploration Method (S Non-Explosive 2	Shot Hole, Non-Explosive, 20 D	D, 3D, Other)					
	(Must check all that apply)				-		
✓ 300 feet - NonExpl	losive - Distance setbacks a	pply to water wells	, buildings, underg	round cisterns,	pipelines, and flow	ing springs.	
660 feet - Shot Ho	le - Distance setbacks apply	to water wells, bui	ildings, undergrour	d cisterns, pip	elines, and flowing	springs.	
7) Size of Hole 3-D	Amt of Charge	Depth	Source points	per sq. mi.	No. of sq. mi.		
Size of Hole 2-D n/a	Amt of Charge n/a	Depth n/a	Source points 54	per In. mi.	No. of In. mi. 12.86		
8) Approximate Start Date January 10, 2017	e			nate Completio			
	N MUST BE NOTIFIED AT	LEAST 24 HOU	RS IN ADVANCE	OF COMMEN	NCEMENT OF GE	OPHYSICAL OPERATIONS	
9) Location of Proposed Bottineau	Project - County						
	Section 15, 16,1	7,21,22,23,24,2		T.	163N	R. 80W	
	Section	ection 6			162N	R. 79W	
Section(s),	Section	Section				R.	
Township(s) & Range(s)	Section	Section				R.	
	Section	Section				R.	
	Section	Section				R.	
I hereby swear or affirm t	hat the information provided	is true, complete	and correct as dete	rmined from a	Il available records.	Date 12/16/16	
Signature //	Printed Name Titl						
(//		James Switzer G			eneral Manager		
Enail Address(es) James.Switzer@Ha	arbinger.ca						
WWW.					Permit C	onditions	
(This space for State office use)				Permit in hand required at pre-program meeting with field inspector and be aware of all NDIC Rules and Regulations (i.e. distance restrictions). See attached letter.			
Permit No. 97-8276 Approval Date i/9/17							
Approved by Stoles							
Mineral Resources Permit Manager							



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/

January 9, 2017

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

> RE: Geophysical Exploration Permit # 97-0276

Dear Ms. HERBEL:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that PANAMERICAN SEISMIC, INC. was issued the above captioned permit on January 9, 2017 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

Mineral Resources Permit Manager



Harbinger Exploration Corp.

Calgary Office Suite 400, 440 – 2nd Avenue SW Calgary, Alberta Canada T2P 5E9 Tel: 403-262-1541 Fax: 403-262-1568

SENT VIA EMAIL/COURIER

December 16, 2016

Industrial Commission of North Dakota Oil and Gas Division 600 East Boulevard Dept 405 Bismark, ND 58505-0840 Edmonton, AB T5K 2G8

Dear Mr. Todd Holweger:

Re:

Request for Geophysical Exploration Permit

Geophysical Prospect:

Westhope 2017 2D

Company:

PanAmerican Seismic Inc.

Location:

Bottineau County

Please find attached our request for a Geophyiscal Exploration Permit – Form GE 1 and required additional information. If you have any questions concerning this matter, please contact me at 403-262-1541.

Yours truly,

James Switzer, General Manager Harbinger Exploration Corp.

James.Switzer@Harbinger.ca

/js

encl.



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

FORM GE 1 FILING AUTHORIZATION

COMPANY NAME: PanAmerican Se	ismic Inc.	
ADDRESS: 10700 Richmond Avenue, S	Suite 105	
CITY: Houston	STATE: Texas	ZIP: 77042
This form authorizes the person(s) listed Permit – Form GE I for approval on behalf	below to submit a NDIC Gof the designated company as	eophysical Exploration listed above.
A new authorization will be required if any on the form.	changes are to be made to the	e authorized individuals
The data submitted from the authorized indito the standards and procedures set forth by	viduals listed below have bee the NDIC Department of Min	n checked and conform eral Resources.
The authorized individual(s) will ensure th receive a copy of the approved Form GE 1	at the company, as listed abo	ove, and party manager
Authorized Individuals	E-Mail Address	Phone Number
James Switzer	James.Switzer@Harbing	403-262-1541
William Bevan	wbevan@northeastsurve	814-853-8054
Bill Peterson	petersonseismic@yahoo	989-858-0455
Company Authorized Signature:	A Date:	Feo 22/ Lilio
	Date.	
Printed Name: MCTC/1464 NG	Title: De	ECTOR
Phone: 713 537 9116 Em	ail Address: <u>M. Deters</u>	@panangeo.com
***********		و سد
Witness Signature:	Date: _	Feb 22/2016
Witness Printed Name: Braeden	leters	



