

#### **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) RECEILE JAN 3 1 2025 RESOURCES

Permit No. 970339												
Shot Hole Operations				*Non-Explos	sive Operation	ons						
				Passive Seismic								
SECTION 1												
Geophysical Cont	ractor							****				
UND ENERG		IRONMEN	TAL RES	EARCH C	ENTER							
Project Name and	Number					County(s)						
BASIN ELEC	CTRIC RE	SEARCH	PROJECT	r - Passiv	e Seismic	MERCE	R					
				Range(s)								
145N						88W						
Orilling and Pluggi	ing Contracto	ors										
n/a												****
Date Commenced					Date Compl							
October 15,	2024					Novemb	er 21, 20	24				
SECTION 2												
First S.P. #				Last S.P. #								
oaded Holes (Un	idetonated S	hot Points)										
S.P.#'s												Ĭ
Charge Size											<b>-</b>	
Depth	-			<u> </u>								
Reasons Holes W												
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SECTION 3												
lowing Holes and	d/or Blowouts	}	,		•							
S.P.#'s												
Procedure for Plug	gaina Flowin	g Holes and/d	or Blowouts		-				<del> </del>			
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RECEIL GE 6B AN 31



#### 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)

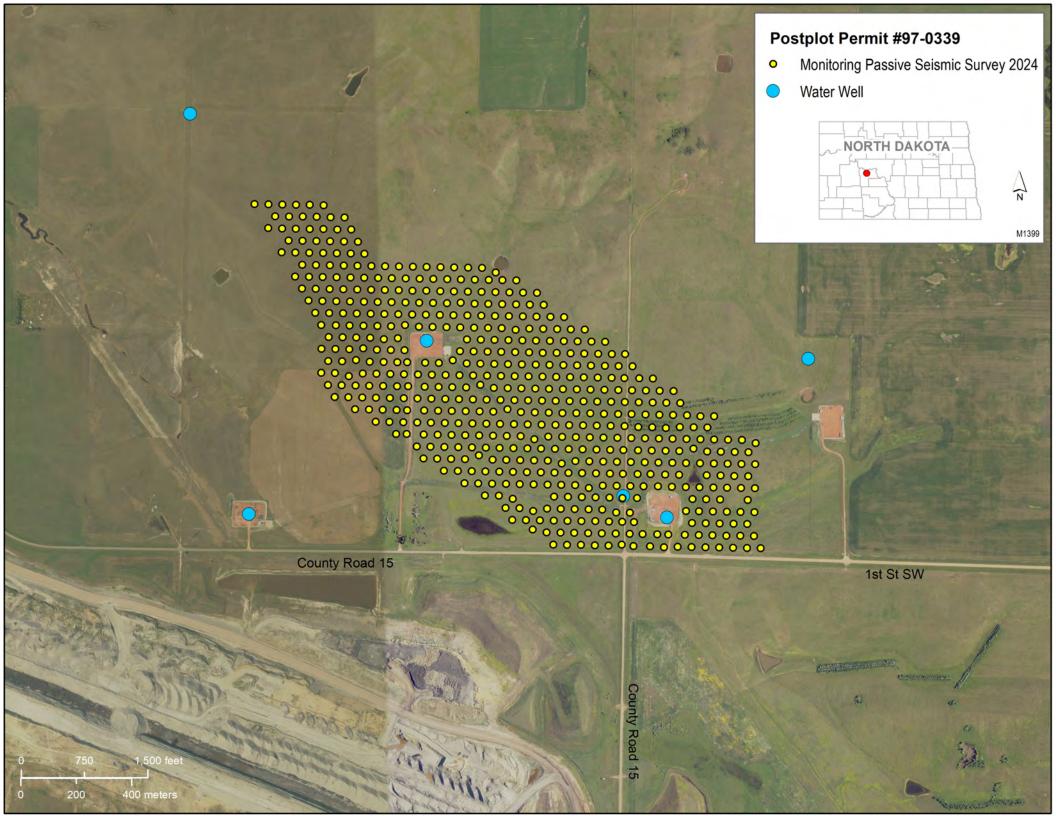
PERMIT NAME (Required):

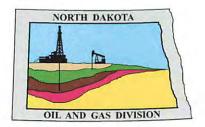
Basin Electric Research Project - Passive Seismic

ERMIT NUMBER:

970339

	PER	MII NUMBER:		<u> </u>
,	AFFIDAVIT OF COMPI	LETION (GEOPI	IYSICAL	CONTRACTOR)
STATE OF	North Dakota	)		
		)		
COUNTY OF	Grand Forks	_)		
Before me,	Cindy R. S	Savage	, 8	a Notary Public in and for the said
County and State, t	this day personally appear	red		Brian P. Kalk
who being first duly	sworn, deposes and says	s that (s)he is emp	loved by	the University of North Dakota
	& Environmental Research			(s)he has read North Dakota
the reverse side of	this document are true.	3	1.	Kall
		Geophysic	al Contract	tor Representative
Subscribed in my p	resence and sworn before	e me this	9th day o	of January, 2025
STATI	IDY R SAVAGE NOTARY PUBLIC E OF NORTH DAKOTA on Expires JANUARY 26, 2026	Notary Pub	ilic	Zindy RSe
My Commission Ex	piresJanua	ry 26, 2026	_	





## Oil and Gas Division

Nathan D. Anderson-Director Mark F. Bohrer - Assistant Director

#### North Dakota Industrial Commission Department of Mineral Resources

Nathan D. Anderson-Director www.dmr.nd.gov/oilgas/

October 11, 2024

Trevor Richards
Assistant Director - Geophysics
UND Energy & Environmental Research Center
15 N. 23<sup>rd</sup> Street, Stop 9018
Grand Forks, ND 58202-9018

RE: BASIN ELECTRIC RESEARCH PROJECT – Passive Seismic 2024

GEOPHYSICAL EXPLORATION PERMIT #97-0339

MERCER COUNTY

NON-EXPLOSIVE METHODS

Dear Mr. Richards:

Be advised that your Geophysical Exploration permit is conditionally approved; effective for one year from October 11, 2024.

#### PERMIT STIPULATIONS:

- UND-EERC must contact seismic inspector Tom Torstenson at (701) 290-1546 72 hours prior, to arrange a start-up meeting. Also, a copy of the entire permit is required for all contractors at the start up meeting.
- UND-EERC must contact Tom Torstenson at (701) 290-1546 24 hours prior to conducting any geophysical activities.
- Pursuant to NDAC 43-02-12-05 (DISTANCE RESTRICTION) Non-explosive exploration methods may not be conducted less than 300 feet from water wells, buildings, underground cisterns, pipelines, and flowing springs.
- 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. 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.
- 2. 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: <a href="ttorstenson@nd.gov">ttorstenson@nd.gov</a> with all source and receiver points,
- 3. 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.
- 4. 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/
- 5. 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/seismic/seismicstats.asp</a>

Should you have any questions regarding this matter, feel free to contact our office.

Sincerely,

Todd L. Holweger

Permit Manager/Geophysical Supervisor

## Received

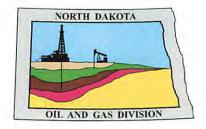


#### GEOPHYSICAL EXPLORATION PERMIT - FORM GE 1

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

SEF 2 / 2024

1) a. Company		10.11				NI	Oil & Gas	
University of North	Dakota EERC	Address 15 N 23rd S	t, Stop 9018.	Grand Forks	, ND 58202-90		Division	
ontact Trevor Richards		Telephone (701) 777-50		orana i oras	Fax			
Bank of No	The Company	Bond Amount			Bond Number			
a. Subcontractor(s)	I'M DAKOLA	Address	25,000		GEO 308			
b. Subcontractor(s)	77.1.121	Address			Telephone			
Party Manager		Address (local)						
César Barajas-Ola		Same as ab	ove		(701) 777-54			
Exploration Method (Sh n/a Distance Restrictions (N	search Project - Pa ot Hole, Non-Explosive, Must check all that apply	2D, 3D, Other)	2024					
660 feet - Shot Hole	sive - Distance setbacks	oly to water wells, b	uildinas, underaro	rground disterns	pipelines, and flowing	wing springs.		
Size of Hole	Amt of Charge	-		points per sq. mi. No. of sq.		aprings.		
Size of Hole	Amt of Charge	n/a n. Depth Source poir		a ts per In. mi.	No. of In. mi.	-		
Approximate Start Date October 14, 2024	L		Approx	imate Completi	on Date			
	MUST BE NOTIFIED	AT LEAST 24 HOL		ember 20, 2				
Location of Proposed P Mercer County	roject - County		THE IN ADVANC	L OI GOMME	NOEMENT OF G	EOPHYSICAL	OPERATIONS	
	Section	Section 1, 2, 3			145N	R.	88W	
	Section	Section			T,			
Section(s).	Section			T.		R.	<del></del>	
Township(s) & Range(s)	Section			Т.		R.	<del>Orașe</del> de manage	
	Section	rationalism nue to year.		T		R.		
	Section		·	T		R.		
ereby swear or affirm th	at the information provid	ed is true, complete	and correct as de	termined from a	all available records	Date		
Printed Name Trevor Richards					itle Assistant Dire	ctor - Geor	hysics	
nail Address(es)	ora			<u>1</u>			- Injure	
					Permit (	Conditions		
	(This space for State	office use)		* 0	all in time it secure	rivuu	us disches	
rmit No. 97-0339 , Approvai Date 10/(1/24				<ul> <li>Permit in hand required at pre-program meeting with field inspector and be aware of all NDIC Rules and Regulations (i.e. distance restrictions)</li> </ul>				
proved by	lath				attached letter.		100	
le Miner	ral Resources Pern	nit Manager						



#### Oil and Gas Division

Nathan D. Anderson-Director

Mark F. Bohrer - Assistant Director

North Dakota Industrial Commission Department of Mineral Resources

Nathan D. Anderson-Director www.dmr.nd.gov/oilgas/

October 11, 2024

The Honorable Carmen Reed Mercer County Auditor P.O. Box 39 Stanton, ND 58571-0039

RE:

Geophysical Exploration Permit Number 97-0339

Dear Ms. Reed:

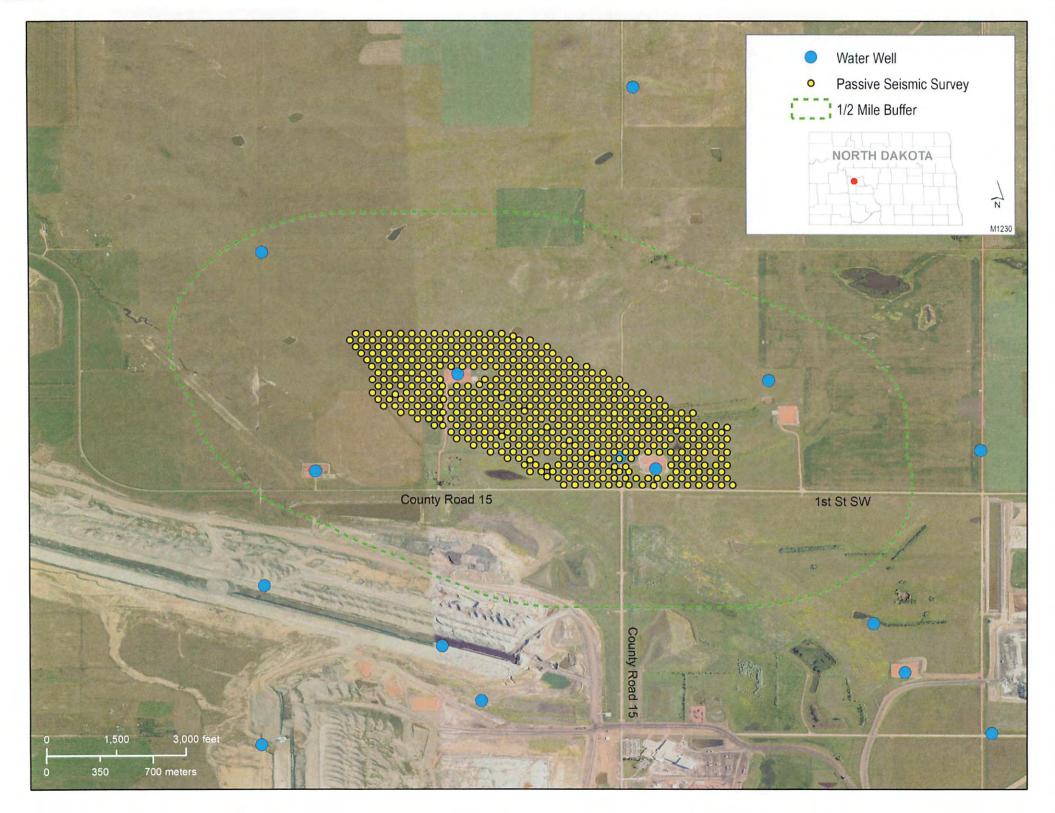
Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that the UND Energy & Environmental Research Center was issued the above captioned permit on October 11, 2024, and will remain in effect for a period of one year. The entire permit can be viewed on our website at: https://www.dmr.nd.gov/oilgas/seismic/seismicstats.asp

Should you have any questions, please contact our office.

Sincerely,

Todd L. Holweger

Permit Manager/Geophysical Supervisor





Energy & Environmental Research Center (EERC)

# Basin Electric Research Project Passive Seismic

## **Passive Seismic**

- Purpose: Record ambient seismic data for monitoring CO<sub>2</sub> plume extents.
- 5 EERC staff on site during deployment and pick up
- ~500 Small seismic receivers (nodes, < 1 ft long) will be buried 8" underground and left in place 30 days
- Holes to be filled in during the survey and filled/remediated after pick up



Map of passive seismic sensor deployment. Sensors will be buried 3-5" in a regular spacing along the thin blue lines.





Trevor Richards
Assistant Director
trichards@undeerc.org
701.777.5052 (phone)

Energy & Environmental
Research Center
University of North Dakota
15 North 23rd Street, Stop 9018
Grand Forks, ND 58202-9018

www.undeerc.org 701.777.5000 (phone) 701.777.5181 (fax)





October 4, 2024

Mr. Todd Holweger Permit Manager/Geophysical Supervisor ND Industrial Commission Oil & Gas Division 600 East Boulevard Ave. Dept 405 Bismarck ND 58505

Subject: Geophysical Exploration Permits

Dear Mr. Holweger:

All landowners within one-half mile of the proposed 2024 Basin Electric Research Project area have been notified of the schedule and location of the Towed Transient Electromagnetic (tTEM), Passive Seismic deployment and Seismic Station install activities estimated to take place in October and November and have been provided a written copy of the North Dakota Century Code (NDCC) Section 38-08.1-04.1 (Exploration Permit) and NDCC Chapter 38-11.1 (Oil & Gas Production Damage Compensation) as required by NDCC Section 38-08.1-04.1. There was a total of 4 private landowners and 3 industry landowners that were provided the required notification. The permits will be submitted by the University of North Dakota Energy and Environmental Research Center.

We look forward to working with you further with regard to this proposed geophysical project. Please contact me with any questions by phone at 701.557.5454 or by email at mmurray@bepc.com.

Sincerely,

Mike Murray, SR/WA, R/W-NAC Director of Property & Right of Way



Equal Employment Opportunity Employer

October 4, 2024 Page 2

IN WITNESS WHEREOF, the parties have set his/her/their hand this 4th day of nctobes 2024.

Mike Murray, SR/WA, R/W-NAC Director of Property & Right of Way

**ACKNOWLEDGEMENT** 

STATE OF North Dakota)

COUNTY OF Burleigh )

On this 4th day of October, 2024 before me personally appeared, Mike Murray, known to me to be the person who is described in and who executed the within instrument, and acknowledged to me that he executed the same.

SHAUNA L SCOTT

Notary Public

State of North Dakota

My Commission Expires Mar 13, 2028

Notary Public