

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.												
970323												
Shot Hole Operations *Non-Explosive Operations												
Shot hold operations				Passive Recording								
					rassive Recording							
SECTION 1												
Geophysical Con												
University of		akota EEF	₹C									
Project Name and						County(s)						
Basin Elect	ric Resear	ch Projec	t - Passiv	e Seismi		Mercer						
Township(s)						Range(s)						
145N						88W	1					
Drilling and Plugg	ing Contracto	ors										
n/a												
Date Commenced						Date Compl						
December 8	, 2023					January	7, 2024					
SECTION 2												
First S.P. #				Last S.P. #								
Loaded Holes (Ur	ndetonated SI	not Points)										
S.P.#'s												
Charge Size												
Orlange Oize												
Depth												
Reasons Holes W	lara Nat Shat											
Reasons Holes W	ere Not Shot											
SECTION 3												
Flowing Holes and S.P.#'s	d/or Blowouts											
O.1 .# S												
Procedure for Plu	gging Flowing	Holes and/o	or Blowouts									
Include a 7.5 minu				or a compu	ter generate	d post-plot fa	csimile of the	approximate	e scale displa	aying eac	h	
individual shot hol	e, SP #, line	#, and legal I	ocation.									

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

GEOPHYSICAL EXPLORATION AFFIDAVIT OF COMPLETION REPORT - FORM GE 6B



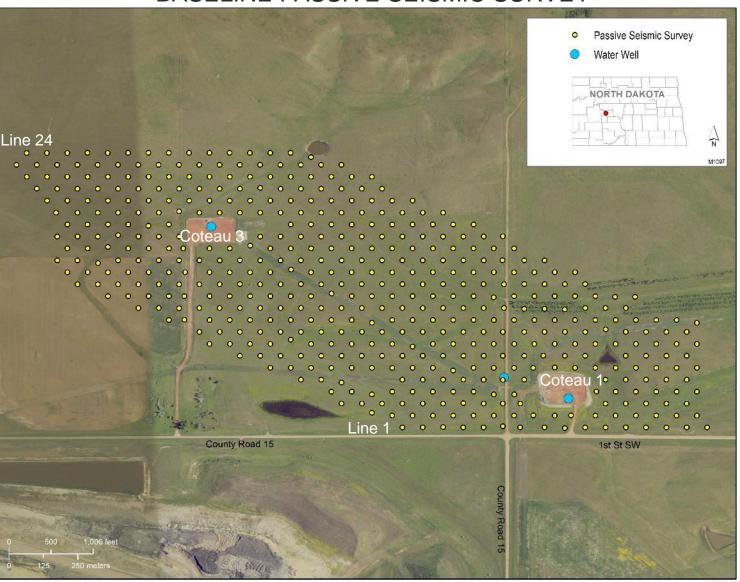
INDUSTRIAL COMMISSION OF NORTH DAKOTA OIL AND GAS DIVISION 600 EAST BOULEVARD DEPT 405 BISMARCK, ND 58505-0840 SFN 51456 (03-2011)

PERMIT NAME (Required):	Basin Electric Research Project - Passive Seismic					
PERMIT NUMBER:	970323					

PERMIT NUMBER:
AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)
STATE OFNORTH DAKOTA)
COUNTY OF GRAND FORKS)
Before me, Kellie Ebertowski , a Notary Public in and for the said
County and State, this day personally appeared Brian Kalk
who being first duly sworn, deposes and says that (s)he is employed by the University of North Dakota
Energy & Environmental Research Center , 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.
Representative Geophysical Contractor Representative
Subscribed in my presence and sworn before me this 23 rd day of August, 2074
KELLIE EBERTOWSKI NOTARY PUBLIC STATE OF NORTH DAKOTA My Commission Expires FEBRUARY 28, 2026 My Commission Expires 7/78/7076

BASELINE PASSIVE SEISMIC SURVEY

- Baseline seismic survey:
 - 495 sensors deployed from December 8th, 2023 to January 7th, 2024.
 - Recorded 10 hours per day (8:00 pm to 6:00 am)



BASELINE PASSIVE SEISMIC SURVEY





MAIN STEPS OF MONITORING PASSIVE SEISMIC SURVEY

Surveying



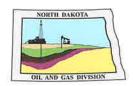
Drilling



Deployment







November 24, 2023

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

RE: BASIN ELECTRIC RESEARCH PROJECT-PASSIVE SEISMIC GEOPHYSICAL EXPLORATION PERMIT #97-0323 MERCER COUNTY NON-EXPLOSIVE METHODS

Dear Mr. Richards:

Be advised that your Geophysical Exploration permit is conditionally approved; effective for one year from November 24, 2023.

PERMIT STIPULATIONS:

- Pursuant to NDAC 43-02-12-05 (DISTANCE RESTRICTION) Nonexplosive 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. 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,
- 4. 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.
- 5. 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/
- 6. 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

Permit Manager/Geophysical Supervisor

GEOPHYSICAL EXPLORATION PERMIT - FORM GE 1 INDUSTRIAL COMMISSION OF NORTH DAKOTA

INDUSTRIAL COMMISSION OF NORTH DAKOTA OIL AND GAS DIVISION 600 EAST BOULEVARD DEPT 405 BISMARCK, ND 58505-0840

001 2/3/2023

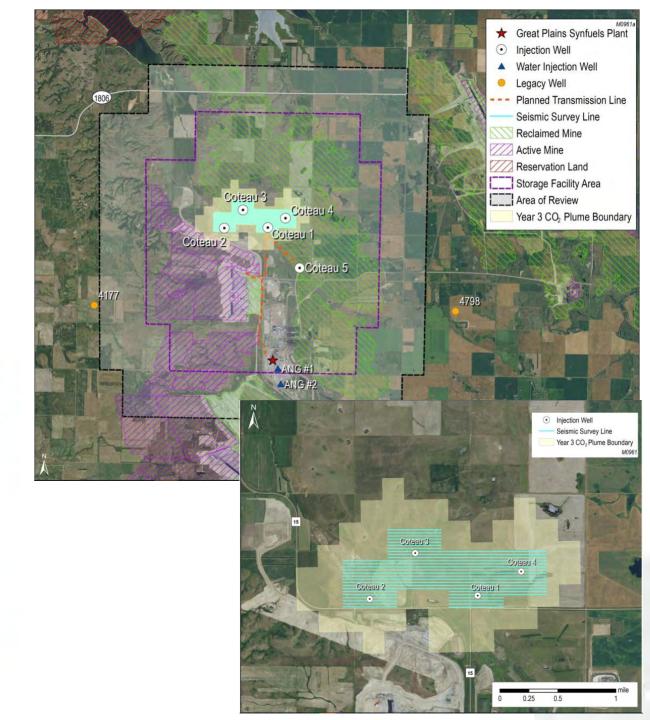
ND Oil & Gas

QFI.	31409 (03-2011)					ND Oil & Gas				
1) a. Company	h Dakota FFRC	Address 15 N 23rd St.	Stop 9018. Gra	and Forks.	ND 58202-9018	Division B				
University of North Dakota EERC Contact Trevor Richards		Telephone (701) 777-505			Fax					
Surety Company		Bond Amount			Bond Number					
Bank of No	rth Dakota	\$25.00	000		GEO 308					
2) a. Subcontractor(s)		Address			Telephone					
b. Subcontractor(s)		Address	Address			Telephone				
3) Party Manager César Barajas-Ola	alde	Address (local) Same as abo				Telephone (local) (701) 777-5414				
4) Project Name or Line		assive Seismic								
5) Exploration Method (S										
6) Distance Restrictions 300 feet - NonExp		ks apply to water wells								
7) Size of Hole 3-D n/a	Amt of Charge	Depth n/a	Source points	per sq. mi.	No. of sq. mi.					
Size of Hole	Arnt of Charge	Depth	Source points	per In. mi.	No. of In. mi.					
8) Approximate Start Da	ber 11, 2023		Approxin	nate Completi	on Date y 30, 20 24					
		AT LEAST 24 HOLL	PS IN ADVANCE			OPHYSICAL OPERATIONS				
9) Location of Proposed		AT LEAST 24 HOU	III III ABVAITE	<u> </u>						
Mercer County	Section	4.0.2		Т.	145N	R. 88W				
	Section	1, 2, 3		T.		R.				
	Section			T.		R.				
Section(s), Township(s) & Range(s) Section				Т,		R.				
a rango(o)	Section			τ.		R.				
	Section			Т.		R.				
I hereby swear or affirm	that the information pro	vided is true, complete	and correct as det	ermined from	all available records	Date /0/23/2023				
Signature	Pinc	Printed Name Trevor Richa	ırds		Title Assistant Dire	ctor - Geophysics				
Email Address(es) trichards@undee	rc.org									
					Permit (<u>Conditions</u>				
	(This space for Sta	ite office use)		* Pe	rmit in hand require	d at pre-program meeting				
Permit No. 92	-0323	Approval Date	4/23	l wit	h field inspector and	t be aware of all NDIC Rules listance restrictions).				
Approved by	DU LA	1		* Se	e attached letter.					
Title	eral Resources Per	mit Manager								

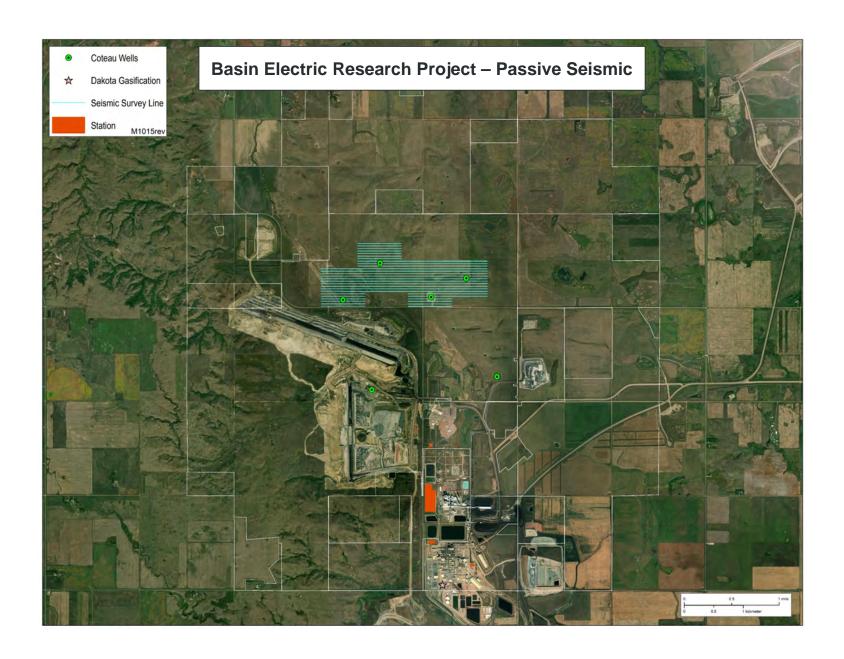
Passive Seismic

- EERC field crew of 8-10
- Deploy ~500 seismic nodes
 October 16-20
- Record for 30 days
- Complete equipment pick up by November 17

NuSeis NRU N3









October 31, 2023

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 Permit & Affidavit

Dear Mr. Holweger:

Please accept this letter as an affidavit of compliance for University of North Dakota EERC's proposed geophysical activities.

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

Directory of Property & Right of Way

Enclosure

AFFIDAVIT OF MIKE MURRAY

STATE OF NORTH DAKOTA)	
) ss
COUNTY OF BURLEIGH)

Mike Murray, being first duly sworn, deposes and states as follows:

1.

I am the Director of Property & Right of Way at Basin Electric Power Cooperative. I also work on matters for Basin Electric Power Cooperative's subsidiary Dakota Gasification Company ("DGC"), located at 1717 East Interstate Avenue, Bismarck, North Dakota 58503.

2.

All landowners within the proposed EERC research on DGC's 45Q Project area have been notified of the approximate schedule and location of the project and 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). Further, as required by NDCC Section 38-08.1-04.1 (4), landowners within ½ mile of the project area were provided written copies of the required NDCC sections 38-08.1-04.1 and chapter 38-11.1.

DATED this 3/5th day of October, 2023. Mike Murray Director of Property & Right of Way Basin Electric Power Cooperative STATE OF NORTH DAKOTA)

) ss **COUNTY OF BURLEIGH**

The foregoing instrument was acknowledged before me this 3/5 day of October 2023, by Mike Murray of Basin Electric Power Cooperative.

GLYNDA JANZ Notary Public State of North Dakota Notary Public

My Commission Expires:



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

FORM GE 1 FILING AUTHORIZATION

ADDRESS: 15 North 23rd	Street, Stop 9018			
			E. S. S.	Supra analy
CITY: Grand Forks		STATE:_	ND	ZIP: 58202-9018
This form authorizes the personnel Permit – Form GE 1 for approx				
A new authorization will be re on the form.	quired if any chang	es are to b	e made to	the authorized individuals
The data submitted from the auto the standards and procedure				
The authorized individual(s) v receive a copy of the approved		company,	as listed	above, and party manage
Authorized Individuals	Phone Number	E-Mail	Address	
Mike Murray	701-557-5454	mmurra	ay@bepo	c.com
	D. M			. 40/2072
Company Authorized Signatur	e: /0 0	Zan		10/12/2023
Printed Name: Tobe Larson		Title:	Assistar	nt Dir. of Contracts & IP
Phone: 701-777-5271	Email Add	dress: tlar	son@und	deerc.org

Witness Signature: Kelli	e Weston	-W-	Date	0: 10/12/2023
Valli	e Ebertowski			



Trevor Richards
Assistant Director for Geophysics
trichards@undeerc.org

701-777-5052 (office)

214-557-6282 (mobile)

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)







November 24, 2023

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

> RE: Geophysical Exploration Permit #97-0323

Dear Ms. Reed:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that the University of North Dakota Energy & Environmental Research Center was issued the above captioned permit on November 24, 2023, 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