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)

Received
APR 5 2023
ND Oil & Gas Division

Permit No. # 97-0305	
Shot Hole Operations: Shothole - track drills	*Non-Explosive Operations: Vibroseis

SECTION 1

Geophysical Contractor: ECHO SEISMIC USA INC.	
Project Name and Number: Coteau 2D	County(s): MERCER
Township(s): 145, 146	Range(s): 87, 88
Drilling and Plugging Contractors: XTREME DRILLING LLC	
Date Commenced: Dec 2, 2021	Date Completed: Mar 12, 2022

SECTION 2

First S.P. #: drill logs provided	Last S.P. #
Loaded Holes (Undetonated Shot Points): n/a - all shotpoints detonated	

S.P.#'s													
Charge Size													
Depth													

Reasons Holes Were Not Shot: n/a

SECTION 3

Flowing Holes and/or Blowouts
S.P.#'s: n/a - no flowing holes or blowouts

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).

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)

Received
APR 5 2023
ND Oil & Gas Division

PERMIT NAME (Required): Cotenu 2D

PERMIT NUMBER: # 97 - 0305

AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)

STATE OF Colorado)
)
COUNTY OF Douglas)

Before me, Maria Elena Rodriguez, a Notary Public in and for the said County and State, this day personally appeared Randolph Luckiw who being first duly sworn, deposes and says that (s)he is employed by Echo Seismic USA Inc., 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 5th day of April, 2023.

MARIA ELENA RODRIGUEZ
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20204034160
MY COMMISSION EXPIRES SEPTEMBER 30,2024

Notary Public

My Commission Expires September 30, 2024

GEOPHYSICAL EXPLORATION HOLE PLUGGING REPORT - FORM GE 7A

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 51457 (03-2011)

Received
APR 5 2023
ND Oil & Gas Division

Geophysical Company: Echo Seismic USA INC	Date Plugged:
Hole Plugging Contractor: Xtreme Drilling LLC	Permit No.: #97-0305
Prospect: Coteau 2D	Hole Plugger: Mike Murray

	Line No.	S.P. No.	Hole Depth	Drill Type *CABP	Wet/ Dry	Bent. Sx	Bent. Capsules	Capsule Size**	Surface Plug Depth	Remarks Hole Bridged, Thick Mud, Etc.
1	n/a	→								
2	↓									
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

*Conventional-Auger-Buggy-Portable

**Diameter X Length

GEOPHYSICAL EXPLORATION AFFIDAVIT OF PLUGGING (HOLE PLUGGER) - FORM GE 7B

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 51457 (03-2011)

Received
APR 5 2023
ND Oil & Gas Division

PERMIT NAME (Required): Coteau 2D

PERMIT NUMBER: # 97-0305

AFFIDAVIT OF PLUGGING (HOLE PLUGGER)

STATE OF Colorado)
)
COUNTY OF Douglas)

Before me, Maria Elena Rodriguez a Notary Public in and for the said County and State, this day personally appeared Randolph Luckiw who being first duly sworn, deposes and says that (s)he is employed by Xtreme Drilling LLC, that (s)he has read North Dakota Century Code Section 38-08.1 and that the foregoing seismic project has been plugged in accordance with North Dakota Administrative Code Rule 43-02-12 and that the statements on the attached documents are true.

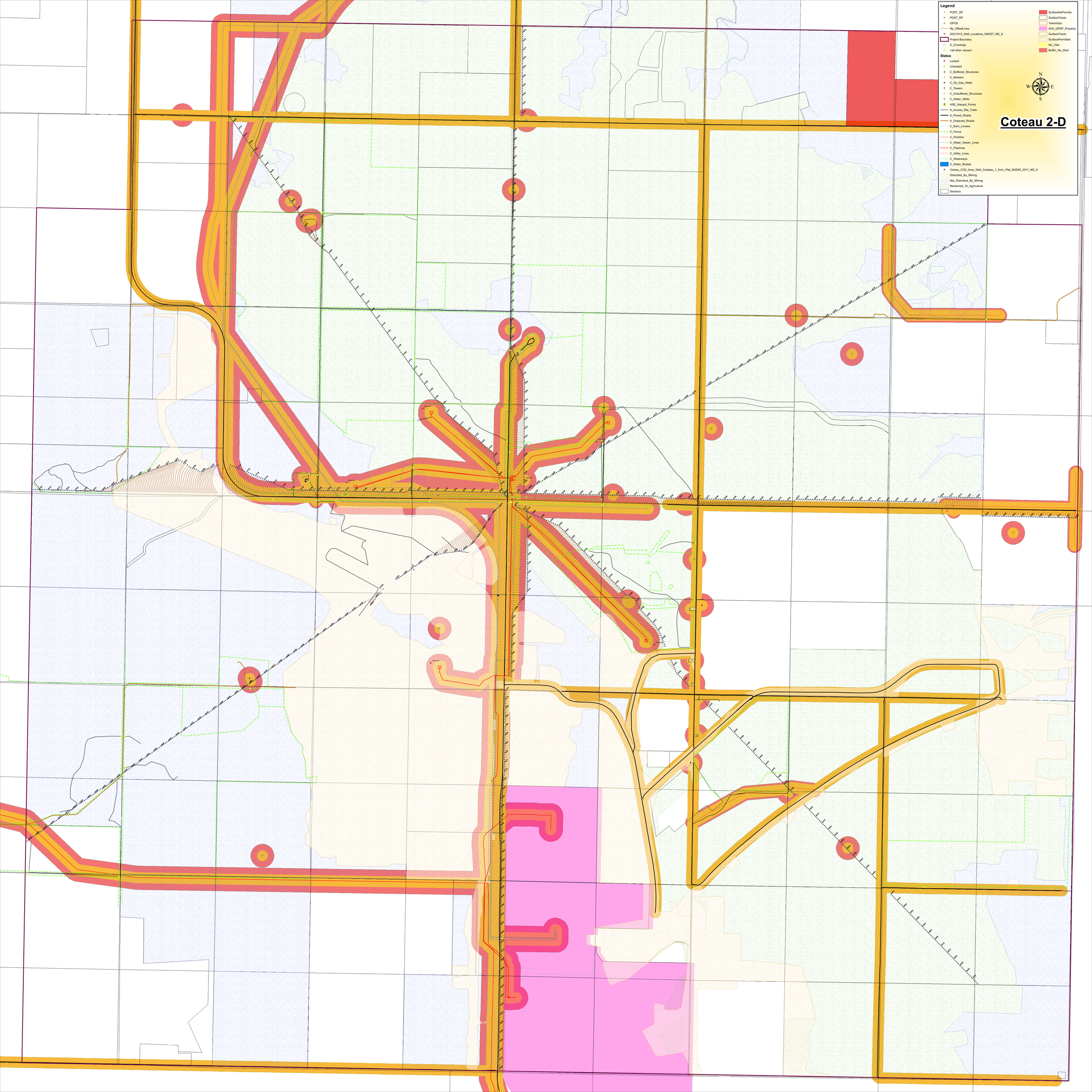
Hole Plugger Representative

Subscribed in my presence and sworn before me this 5th day of April, 2023.

MARIA ELENA RODRIGUEZ
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20204034160
MY COMMISSION EXPIRES SEPTEMBER 30,2024

Notary Public

My Commission Expires September 30, 2024


Legend
POST_SP
POST_RP
OPUS
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20211015_Well_Locations_NAD27_ND_S
Project Boundary
A_Crossings
<all other values>
Status
Locked
Unlocked
C_Buffered_Structures
C_Markers
C_Oil_Gas_Wells
C_Towers
C_Unbuffered_Structures
C_Water_Wells
HSE_Hazard_Points
A_Access_Rte_Trails
A_Paved_Roads
A_Unpaved_Roads
C_Dam_Levees
C_Fence
C_Flowline
C_Water_Sewer_Lines
C_Pipelines
C_Utility_Lines
C_Waterways
C_Water_Bodies
Coteau_CO2_Area_Well_Coateau_1_from_Plat_NAD83_2011_ND_S
Disturbed_By_Mining
Not_Disturbed_By_Mining
Reclaimed_To_Agriculture
Sections
SurfaceNoPermits
SurfaceTracts
Townships
AVS_GPSP_Property
SurfaceTracts
SurfacePermitted
No_Vibe
Buffer_No_Shot
N
W
E
S
Coteau 2-D

Echo))) SEISMIC™

Received

NOV 29 2021

ND Oil & Gas Division

AFFIDAVIT OF NOTICE

BEFORE ME, the undersigned authority, personally appeared Bruce A. Fulker of Cougar Land Services, LLC., whose office address is located at 19901 SW Freeway, Suite 102, Sugar Land, TX. 77479 who being duly sworn, upon oath stated and affirmed that as an authorized agent for Echo Seismic USA, Inc. operators of the mining area covered by the Coteau 2D Project, Coteau Properties, Basin Electric Cooperative, Dakota Gasification and North American Coal Royal have entered into access agreements with Echo Seismic for geophysical operations over their land.

Executed this 29th day of November 2021.

Bruce A. Fulker

STATE OF NORTH DAKOTA)
) ss
COUNTY OF BURLEIGH)

The foregoing instrument was acknowledged signed and subscribed before me this 29TH day of November 2021, by Bruce A. Fulker, who represented that he was duly authorized to execute the foregoing instrument for the uses and purposes set forth therein.

WITNESS my hand and official seal.

Roman Julson

Name: Roman Julson
Notary Public
State of North Dakota
My commission Expires: Aug. 17, 2025

ROMAN JULSON
Notary Public
State of North Dakota
My Commission Expires Aug. 17, 2025

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NORTH DAKOTA OIL AND GAS DIVISION

November 26, 2021

Echo Seismic USA, Inc.
Richard Habiak
President
4500 8A Street NE
Calgary, AB
T2E 4J7 Canada

RE: COTEAU 2-D
GEOPHYSICAL EXPLORATION PERMIT #97-0305
MERCER COUNTY
NON-EXPLOSIVE & EXPLOSIVE METHODS

Dear Mr. Habiak:

Be advised that your Geophysical Exploration permit is conditionally approved; effective for one year from November 26, 2021.

PERMIT STIPULATIONS:

- **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.**
  - **Explosive exploration methods may not be conducted less than 660 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

Received

NOV 26 2021

ND Oil & Gas Division

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 Echo Seismic USA, Inc.	Address 4500 8A Street NE, Calgary AB, T2E 4J7, Canada	
Contact Milt Tetzlaff	Telephone (403) 216-5919	Fax (403) 216-0989
Surety Company Bank of North Dakota	Bond Amount $50,000.00	Bond Number GEO 307
2) a. Subcontractor(s) Xtreme Drilling LLC	Address 5445 Colorado Blvd Dacono CO 805	Telephone (303) 833-8973
b. Subcontractor(s) Skyway Field Services	Address 1850 Rannoch Dr Longmont CO 805	Telephone (720) 545-3126
3) Party Manager Brad MacKinnon	Address (local)	Telephone (local) (403) 988-0031

4) Project Name or Line Numbers
Coteau 2D

5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D, Other)
Shot Hole and Vibrosels - See Attached Project Description

6) Distance Restrictions (Must check all that apply)

- ☑ 300 feet - NonExplosive - Distance setbacks apply to water wells, buildings, underground cisterns, pipelines, and flowing springs.
- ☑ 660 feet - Shot Hole - Distance setbacks apply to water wells, buildings, underground cisterns, pipelines, and flowing springs.

7) Size of Hole	Amt of Charge	Depth	Source points per sq. mi.	No. of sq. mi.
3-D				
Size of Hole	Amt of Charge	Depth	Source points per ln. mi.	No. of ln. mi.
2-D 3.5 inch	5.5 to 11	60-120	52.8	24.08

8) Approximate Start Date December 1, 2021	Approximate Completion Date January 31, 2022

THE COMMISSION MUST BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF COMMENCEMENT OF GEOPHYSICAL OPERATIONS

9) Location of Proposed Project - County
Mercer County See Attached Exhibit "A"

Section(s), Township(s) & Range(s)	Section	T.	R.
	Section	T.	R.
	Section	T.	R.
	Section	T.	R.
	Section	T.	R.
	Section	T.	R.

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records.

Signature BJ a Fulker	Printed Name Bruce Fulker	Title Agent for Echo Seismic USA
Email Address(es) bfulker@cougarlandservices.net		Date November 16, 2021

(This space for State office use)

Permit No. 97-0305	Approval Date 11/26/21
Approved by Todd Holweg	
Title Mineral Resources Permit Manager	

Permit Conditions

- 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.

*See Instructions On Reverse Side

Exhibit "A"

Geophysical Exploration Permit Form GE 1

Coteau 2D

Echo Seismic USA

Township 145 N Range 87 West: Sections 4.5.6.7.8.9.17.18.19.20 21, 28, 29

Township 145 N Range 88 West: Sections: 1.2.3.4.9.10.11.12.13.14.15.16.23.24

Township 146 N Range 87 West: Sections: 31.32

Township 146 N Range 88 West: Sections: 25.26.27.34.35.36, 28, 33

Project Description

Coteau 2D

Echo Seismic USA

Receiver Spacing Inline: 50 Feet

Source Spacing Inline: 100 Feet.

The Coteau 2D will be conducted using both vibroseis and shot hole methods as a test.

- **All lands in Green and Red Hatch on the attached map will have both a shot hole and vibe point every 100' where not buffered out.**
- **All lands in Yellow or White on the attached map will be vibroseis only.**
- **Shot Holes will be 60'-120' with a 5.5 to 11 lb. charge.**
- **Shot holes will be drilled on one side of the line with the receivers deployed on the mid-point of the line and the vibrators will travel down the other side of the line.**
- **Testing will determine the number of vibes / expected to be 2 or 3 vibes used.**

NORTH Dakota | Mineral Resources
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NORTH DAKOTA
OIL AND GAS DIVISION

November 26, 2021

The Honorable Shana L. Brost
Mercer County Auditor
P.O. Box 39
Stanton, ND 58571-0039

RE: Geophysical Exploration
Permit #97-0305

Dear Ms. Brost:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that Echo Seismic USA, Inc. was issued the above captioned permit on November 26, 2021, 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

146N 88W

146N 87W

145N 88W

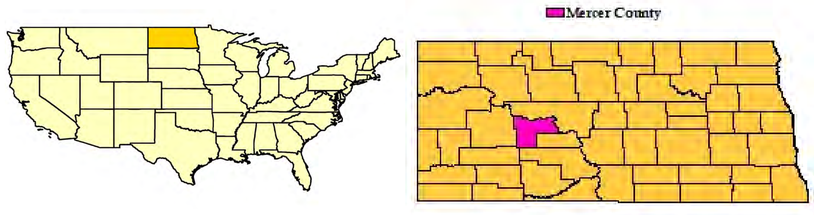
145N 87W

CT-1

CT-2

CT-3

CT-4



Coteau 2D

Surface Map

November 16, 2021

Legend

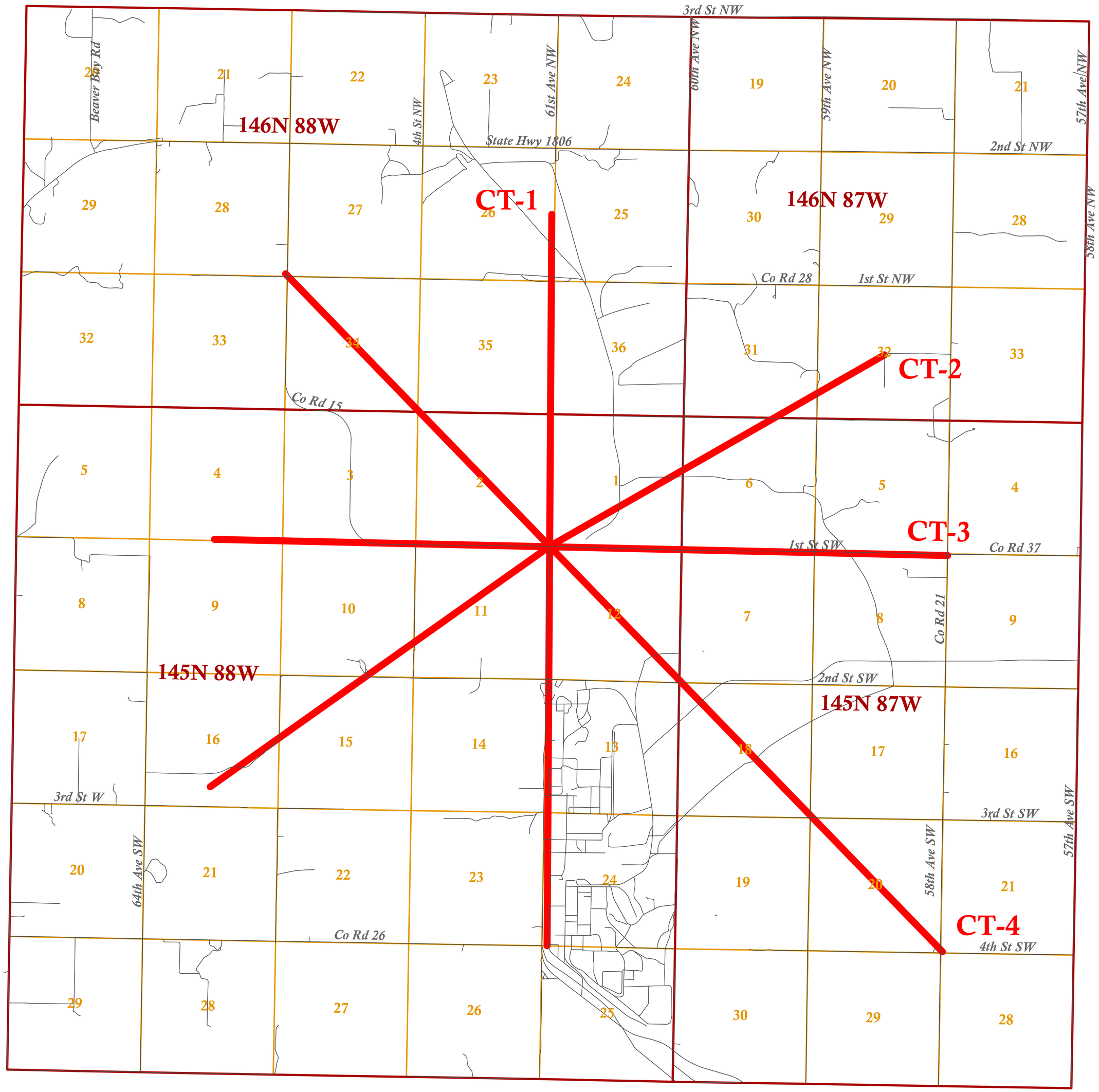
- 2D Lines
- Townships
- Sections
- Reclaimed To Agriculture
- Not Disturbed By Mining
- Disturbed By Mining

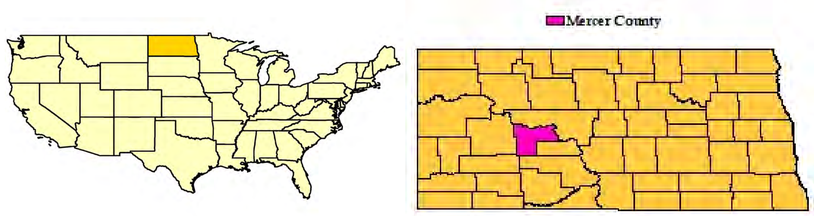
State Plane
North Dakota South
NAD 27
Scale 1:15,000

Area Of Interest

24.08 Linear Miles
Mercer County
North Dakota

This map has been carefully prepared from official records, maps, engineering data, photographs and/or other information, which is provided as a courtesy only. We make no warranties as to its completeness or accuracy, whether expressed or implied





Coteau 2D

Surface Map

November 16, 2021

Legend

- 2D Line
- Roads
- Townships
- Sections

State Plane
North Dakota South
NAD 27
Scale 1:15,000

Area Of Interest

24.08 Linear Miles
Mercer County
North Dakota

This map has been carefully prepared from official records, maps, engineering data, photographs and/or other information, which is provided as a courtesy only. We make no warranties as to its completeness or accuracy, whether expressed or implied

Echo SEISMIC

AFFIDAVIT OF NOTICE

BEFORE ME, the undersigned authority, personally appeared Bruce A. Fulker of Cougar Land Services, LLC., whose office address is located at 19901 SW Freeway, Suite 102, Sugar Land, TX. 77479 who being duly sworn, upon oath stated and affirmed that as an authorized agent for Echo Seismic USA, Inc. all operators of the land and each landowner within one-half mile of the land on which the geophysical exploration activities are to be conducted on the Coteau 2D project have been provided with a copy of Section 38.08.1 (Exploration Permit) and NDCC Chapter 38.11.1, (Oil and Gas Production Damage Compensation), per the requirement of the Geophysical Exploration Permit.

Executed this 16th day of November 2021.

Bruce A. Fulker

STATE OF NORTH DAKOTA)
) ss
COUNTY OF BURLEIGH)

The foregoing instrument was acknowledged signed and subscribed before me this ~~15~~ 16th day of November 2021, by Bruce A. Fulker, who represented that he was duly authorized to execute the foregoing instrument for the uses and purposes set forth therein.

WITNESS my hand and official seal.

Name: Erin Stillday
Notary Public for Burleigh County
State of North Dakota
My commission expires: 10-8-24

ERIN STILLDAY
Notary Public
State of North Dakota
My Commission Expires October 8, 2024

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

FORM GE 1

FILING AUTHORIZATION

COMPANY NAME: Echo Seismic USA

ADDRESS: 4833 Front Street, Unit B 435,

CITY: Castle Rock STATE: CO ZIP: 80104

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	Phone Number	E-Mail Address
Bruce Fulker	713.806.2024	bfulker@cougarlandservices.net

Company Authorized Signature: Date: 11/08/2021

Printed Name: Dan McArthur Title: Corp. VP

Phone: 403 540-1711 Email Address: mcarthurd@echo-group.net

****

Witness Signature: Date: 11/08/2021

Witness Printed Name: Keith Wakelam