

Client:
FREEDOM LINE ENERGY RESOURCES, LLC

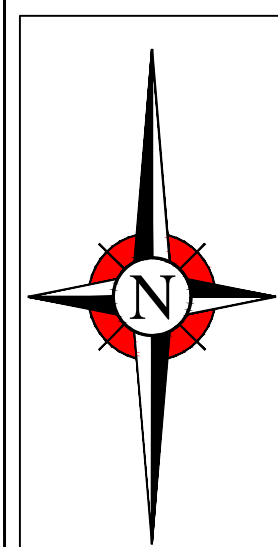
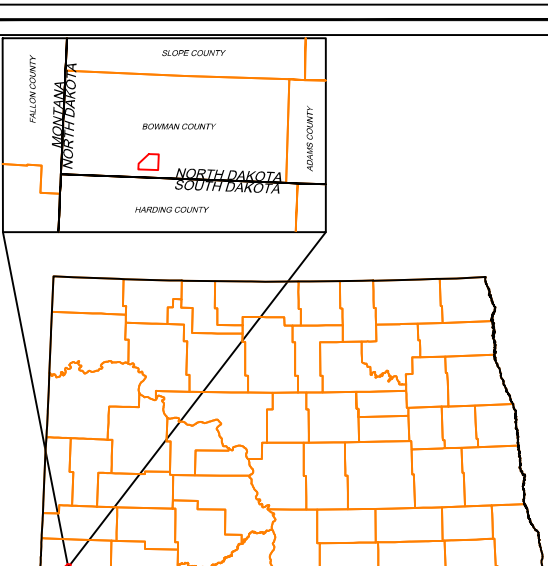
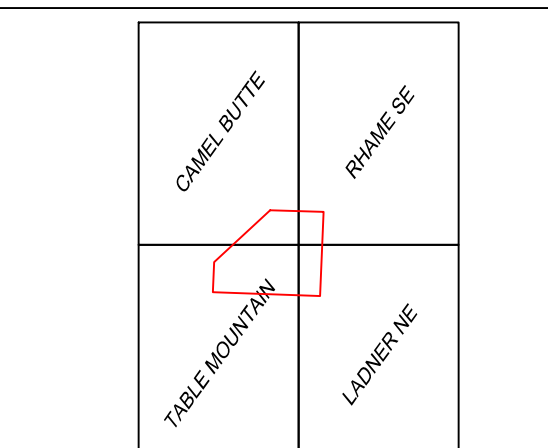
Geophysical Contractor:



Surveying, Mapping, and GIS done by:



1:24000 USGS TOPOGRAPHIC MAPS



FREEDOM 3-D POSTPLOT MAP
BOWMAN CO., NORTH DAKOTA
TOWNSHIPS: 129 NORTH
RANGES: 103 AND 104 WEST
RECEIVER PT. INTERVAL: 220'
SOURCE PT. INTERVAL: 220'
VIBROSES

NAD27 NORTH DAKOTA STATE PLANE SOUTH ZONE
TOTAL RECEIVER POINTS: 2676
TOTAL SOURCE POINTS: 1350
AREA (SQUARE MILES) +/-: 13.22
RECEIVER LINE INTERVAL: 1100'
SOURCE LINE INTERVAL: 1320'
RECEIVER LINE AZIMUTH: 92°06'02.04"
SOURCE LINE AZIMUTH: 02°06'02.04"
SCALE: 1:12000
1" = 1000'

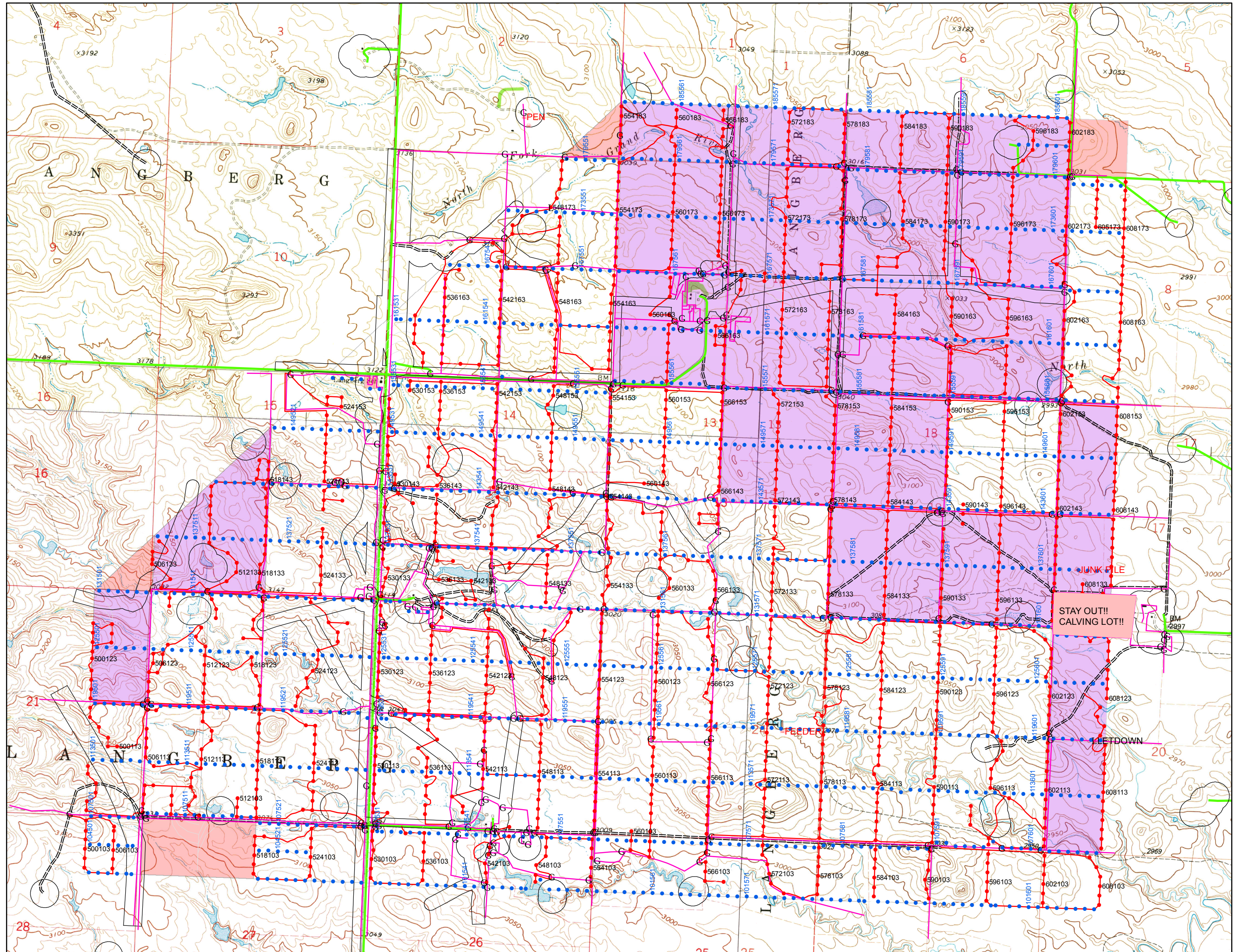
SHEET 1 OF 1
JANUARY 8, 2018
DRAWN BY: SHANDON BROOKS / TRAVIS CUNYFF CEC PROJECT NUMBER: 201704

GPS CONTROL POINT SUMMARY				NDSPC SOUTH ZONE		
STATION ID	SET	OPUS / RTK	WGS84 LATITUDE	WGS84 LONGITUDE	ELLIP. HEIGHT	ORTHO HEIGHT
77777	77777	77777	77-77-77.77 N	77-77-77.77 W	77777	77777

LEGEND

	NATIONAL GRASSLAND		FENCE		RESTRICTED AREA - 330 FT
	BUREAU OF LAND MANAGEMENT		GATE		CEMETERY
	STATE		LETDOWN FENCE		AIRPORT
	U.S. ARMY CORPS OF ENGINEERS		OFF-ROAD ACCESS		INTERSTATE HIGHWAY
	NATIONAL FISH AND WILDLIFE SERVICE		DRYHOLES		U.S. HIGHWAY
	CONDITIONAL PERMITS		OIL / GAS WELLS		STATE HIGHWAY
	CABLE / WALK ONLY PERMITS		CONTROL POINTS		COUNTY ROAD
	NO PERMITS		PREPLOT RECEIVERS		
	PRIMARY HIGHWAY		PREPLOT SOURCE		
	IMPROVED ROAD		POSTPLOT RECEIVERS		
	PRIMITIVE ROAD		POSTPLOT SOURCE - VIBES		
	GAS PIPELINES		POSTPLOT SOURCE - CONV. DRILLS		
	WATER PIPELINES		POSTPLOT SOURCE - BUGGY DRILLS		
	POWER LINES		POSTPLOT SOURCE - HELI DRILLS		
	TELEPHONE LINES		HAZARDS		

E.C.S., INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES. ALL TOPO FEATURES ON THIS MAP ARE APPROXIMATE ONLY. IT IS E.C.S., INC. POLICY TO STAKE ALL SOURCE POINTS A MINIMUM OF 1320 FT. FROM WATERWELLS, SPRINGS, OILWELLS, AND / OR ANY OTHER STRUCTURES. ANY SOURCE POINTS CLOSER THAN 1320 FT. TO THE ABOVE REFERENCED ITEMS HAVE BEEN UNDER THE DIRECTION OF THE CLIENT. THEREFORE, E.C.S., INC. ASSUMES NO LIABILITY ON ANY SOURCE POINTS CLOSER THAN 1320 FT. TO THE ABOVE MENTIONED ITEMS.



Legend

- | | | | |
|---|------------------------|---|----------------|
| G | GATES | — | FENCE LINES |
| • | HAZARDS | — | OFFSET BUFFERS |
| L | LETDOWNS | — | OFFSET LINES |
| • | POSTPLOT RECEIVERS | — | VIBE ACCESS |
| • | POSTPLOT SOURCE - VIBE | — | ROADS - MAIN |

- | | |
|--------------------------------|--------------------|
| ===== | ROADS - TWO TRACKS |
| Freedom Mineral Parcels | STATUS |
| □ | APPROVED |
| ▨ | NO |

Freedom Surface Parcels

STATUS

- | | |
|---|--------------------------|
| □ | APPROVED |
| □ | APPROVED WITH CONDITIONS |
| □ | NO |
| □ | PREPAY |
| □ | Stay Out - Calving Lot |



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. 97-0282	
Shot Hole Operations N/A	*Non-Explosive Operations Vibroseis

SECTION 1

Geophysical Contractor Paragon Geophysical Services Inc	
Project Name and Number Freedom 3D	County(s) Bowman
Township(s) 129 N	Range(s) 103,104 W
Drilling and Plugging Contractors N/A	
Date Commenced December 9, 2017	Date Completed December 17, 2017

SECTION 2

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

SECTION 3

Flowing Holes and/or Blowouts 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).



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): Freedom 3D

PERMIT NUMBER: 97-0282

AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)

STATE OF Kansas)

COUNTY OF Sedgwick)

Before me, Jeremiah Newkirk, a Notary Public in and for the said

County and State, this day personally appeared Patrick Dooley

who being first duly sworn, deposes and says that (s)he is employed by Paragon

Geophysical Services, 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 4 day of January, 2018.



Notary Public Jeremiah Newkirk

My Commission Expires 20 Febraury 2019



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/

October 6, 2017

Ms. Kirsten Anderson
Permit Manager
Paragon Geophysical Services Inc.
3500 N. Rock Rd
Bldg. 800, Ste. B
Wichita, KS 67226

RE: FREEDOM 3-D
GEOPHYSICAL EXPLORATION PERMIT #97-0282
BOWMAN COUNTY
NON EXPLOSIVE METHOD

Dear Ms. Anderson:

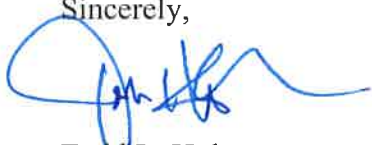
Please be advised that we are in receipt of your Geophysical Exploration permit application and it is conditionally approved; effective for one year from October 6, 2017. **PURSUANT TO NDAC 43-02-12-05 (DISTANCE RESTRICTION) non-explosive exploration method may not be conducted not less than 300 feet 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. **(10/5/2017)**
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. **(Received 10/5/2017)**
 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
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

SEP 28 2017

ND Oil & Gas Div.

1) a. Company Paragon Geophysical Services Inc		Address 3500 N Rock Rd, Bldg 800, Ste B, Wichita KS 67226			
Contact Kirsten Anderson		Telephone (651) 895-0002		Fax	
Surety Company Arch Insurance		Bond Amount \$50,000		Bond Number SU1135989	
2) a. Subcontractor(s)		Address		Telephone	
b. Subcontractor(s)		Address		Telephone	
3) Party Manager Jeremiah Newkirk		Address (local)		Telephone (local) (316) 285-4125	
4) Project Name or Line Numbers Freedom 3D					
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D, Other) Non-Explosive 3D					
6) Distance Restrictions (Must check all that apply)					
<input checked="" type="checkbox"/> 300 feet - NonExplosive - Distance setbacks apply to water wells, buildings, underground cisterns, pipelines, and flowing springs.					
<input type="checkbox"/> 660 feet - Shot Hole - Distance setbacks apply to water wells, buildings, underground cisterns, pipelines, and flowing springs.					
7) Size of Hole 3-D	Amt of Charge	Depth	Source points per sq. mi. 96.98	No. of sq. mi. 13.2	
Size of Hole 2-D	Amt of Charge	Depth	Source points per ln. mi.	No. of ln. mi.	
8) Approximate Start Date Oct 5, 2017			Approximate Completion Date Oct 30, 2017		

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

9) Location of Proposed Project - County Bowman County						
Section(s), Township(s) & Range(s)	Section	5-8,17-20,29,30	T.	129N	R.	103W
	Section	1,2,10-16,21-28	T.	129N	R.	104W
	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.			Date Sept 26, 17
Signature 	Printed Name Kirsten Anderson	Title Permit Manager	
Email Address(es) kirsten.a@allstatepermit.com			

(This space for State office use)		<p align="center">Permit Conditions</p> <ul style="list-style-type: none"> * 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. 97-0282	Approval Date 10/6/17	
Approved by 	Title Mineral Resources Permit Manager	

*See Instructions On Reverse Side

CK # 7737 \$100 9-28-17 MH



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/

October 6, 2017

The Honorable Sandra Tivis
County Auditor
104 1st St. NW
Suite #1
Bowman, ND 58623

RE: Geophysical Exploration
Permit # 97-0282

Dear Ms. Tivis:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that PARAGON GEOPHYSICAL SERVICES, INC. was issued the above captioned permit on October 6, 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
Permit Manager

Sept 26, 2017

RECEIVED
SEP 28 2017
ND Oil & Gas Div.

To Whom It May Concern,

Enclosed is a geophysical exploration permit for Paragon Geophysical Services along with the filing authorization form. If you have any questions please contact me at the # or email below. The approved permit can be sent to my attention at PO Box 202 Cocolalla ID 83813. Thank you.



Kirsten Anderson
Allstate Permit Services on Behalf of Paragon Geophysical Services Inc
651-895-0002
Kirsten.a@allstatepermit.com





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

RECEIVED

SEP 28 2017

ND Oil & Gas Div.

FORM GE 1

FILING AUTHORIZATION

COMPANY NAME: Paragon Geophysical Services, Inc

ADDRESS: 3500 N Rock Rd, Bldg 800 Suite B

CITY: Wichita STATE: KS ZIP: 67226

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

<u>Authorized Individuals</u>	<u>Phone Number</u>	<u>E-Mail Address</u>
Kirsten Anderson	651-895-0002	kirsten.a@allstatepermit.com
Mark Fischbuch	214-212-1524	mark.f@allstatepermit.com

Company Authorized Signature: Ra Bateman Date: 9-26-17

Printed Name: Aaron Bateman Title: President

Phone: 314-636-5552 Email Address: abateman@paragonson

 Witness Signature: [Signature] Date: 9-26-17

Witness Printed Name: Erick Erwin

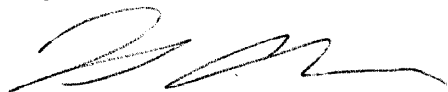
October 4, 2017,

RE: Geophysical Exploration Permit for Freedom 3D in Bowman County, ND

Mr. Holweger,

All landowners within our Freedom 3D project area and within half a mile have been sent a written copy of section 38-08.1-04.1 and 38-11.1 as required.

Thank you,



Kirsten Anderson
Allstate Permit Services
651-895-0002

INDIVIDUAL ACKNOWLEDGMENT

State/Commonwealth of Idaho } ss.
County of Bonner }

On this the 5th day of October, 2017, before me,
Day Month Year

Vivienne Smith, the undersigned Notary Public,
Name of Notary Public

personally appeared Kirsten M Anderson
Name(s) of Signer(s)

personally known to me – OR –

proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same for the purposes therein stated.

WITNESS my hand and official seal.



Vivienne Smith
Signature of Notary Public

14 1/30/2019

Any Other Required Information

Freedom Energy Resources ND,
LLC
Freedom Project
T129N R103-104W

