



COYOTE CREEK 2D
BASE MAP
VER: 6

CLIENT: PARAGON GEOPHYSICAL
ADDRESS: 3500 N. ROCK RD. WICHITA, KS
ENERGY COMPANY: PETRO CONTINENTAL
PERMIT COMPANY: ALL STATE PERMITS
PERMIT NO:
EQUIPMENT: UNITE
ENERGY SOURCE: VIBROSEIS
PROJECTION: NAD 83 UTM ZONE 13N
MAP GENERATED: September 18, 2015
PROJECT NO: 1391ND

PREPLOT		POSTPLOT	
PREPLOT	15.53 mi	POSTPLOT	mi
PREPLOT RECEIVER EVERY 110 ft		POST SOURCE	STN: 373
PREPLOT SOURCE EVERY 220ft		POST RECEIVER	STN: 373
PRE RECEIVER			
PRE SOURCE			
PS1 4.14 MI	PS3 1.97 MI	PS5 3.43 MI	
PS6 3.5 MI	PS4 2.49 MI		
TOTAL: 15.53 mi		TOTAL: 15.53 mi	

PROGRAM TOTAL: 15.53 mi

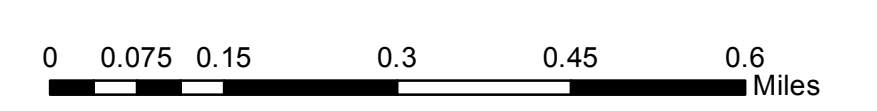
LEGEND / SYMBOLOGY

SYMBOL	DESCRIPTION	PROGRAM SPECIFIC SYMBOLOGY	
	MAJOR HIGHWAY		CITY / TOWN
	GRAVEL ROAD/PAVED		GOOD TO GO
	TWO TRACK		APPROVED CONDITIONS CONTACTED
	RAILWAY		NO PERMIT
	WATER COURSE		PENDING
	HPPL		VERBAL OK WALK ONLY
	OHPL		
	WATER LINE		
	FIBER OPTIC		
	CHECK OI		
	MONUMENT		
	STAGING		
	GATE		

PLEASE NOTE: THIS IS A STANDARDIZED LEGEND, NOT ALL ITEMS MAY APPEAR ON THE MAP

VER	DESCRIPTION	DATE
6.0	FINAL POSTPLOT BASE MAP	SEPTEMBER 18, 2015

COUNTY IN: BOWMAN COUNTY NORTH DAKOTA
MAPS AVAILABLE: 1:15,000 AERIAL, 1:50,000 TOPO - CDC, 1:250,000 ACCESS
GLACIER JOB NO: U15-487ND, PARAGON JOB NO: 1391ND

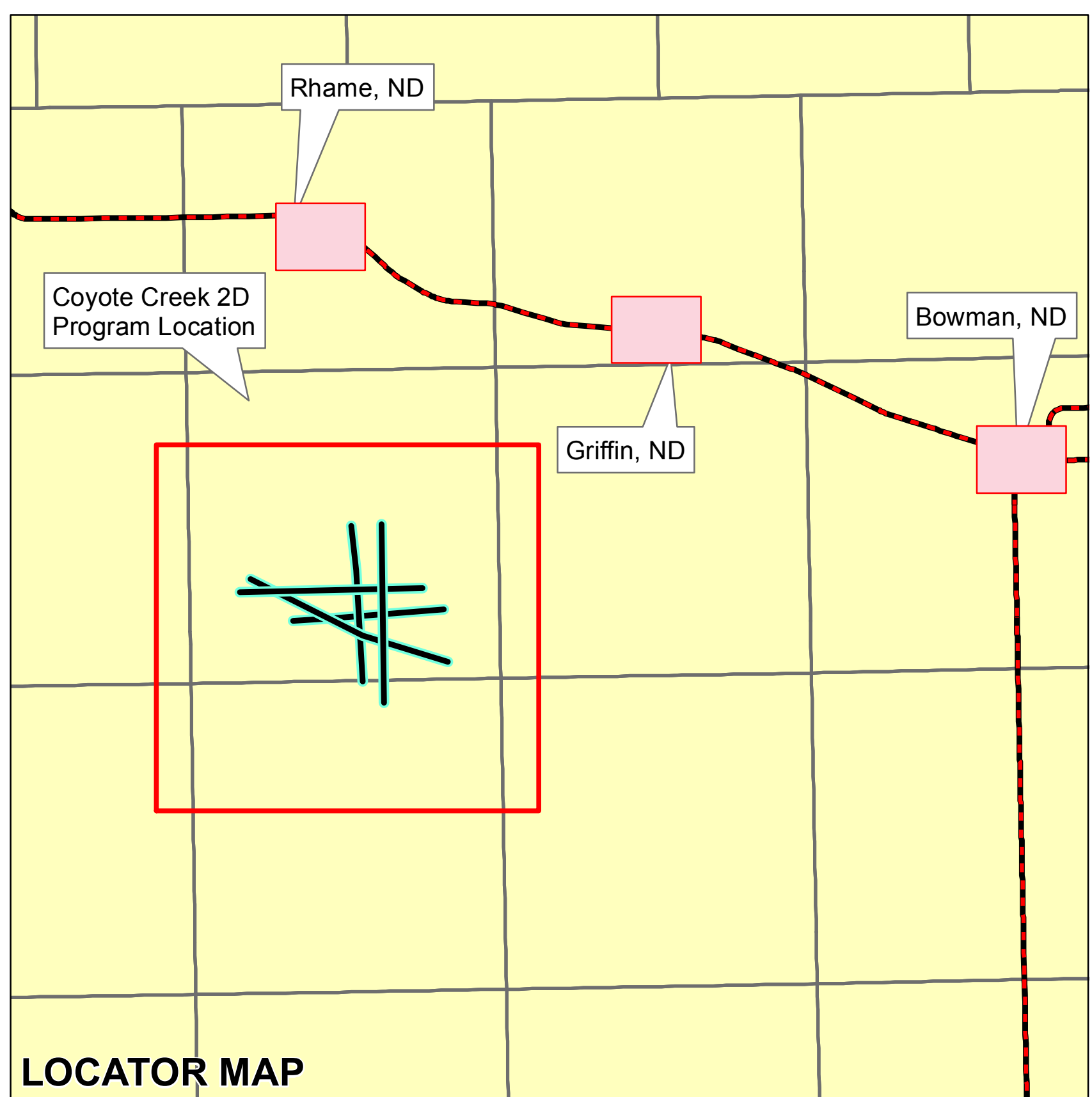


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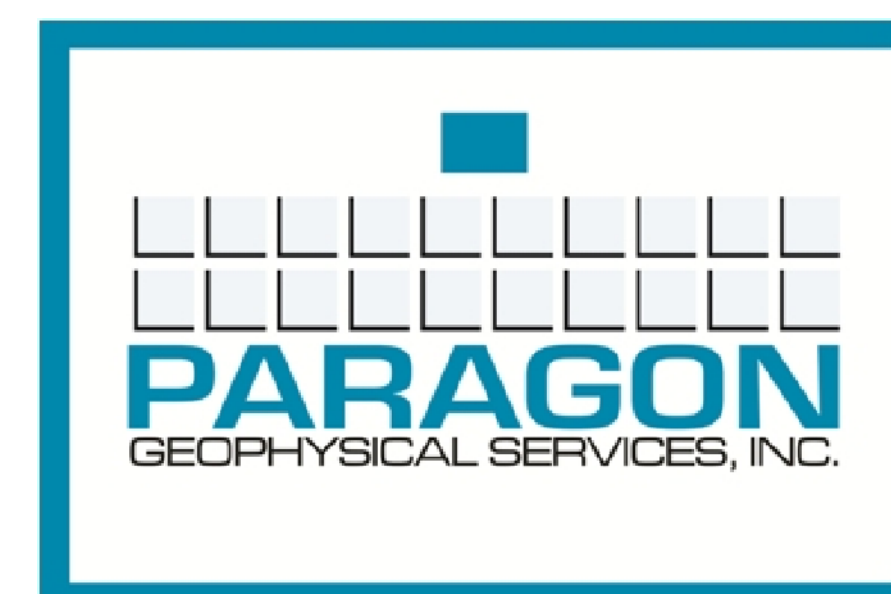


41204 8 ST SE
CALGARY, ALBERTA
T2G 3A7
PHONE NUMBER: 403-998-0176
FAX NUMBER: 866-653-1247

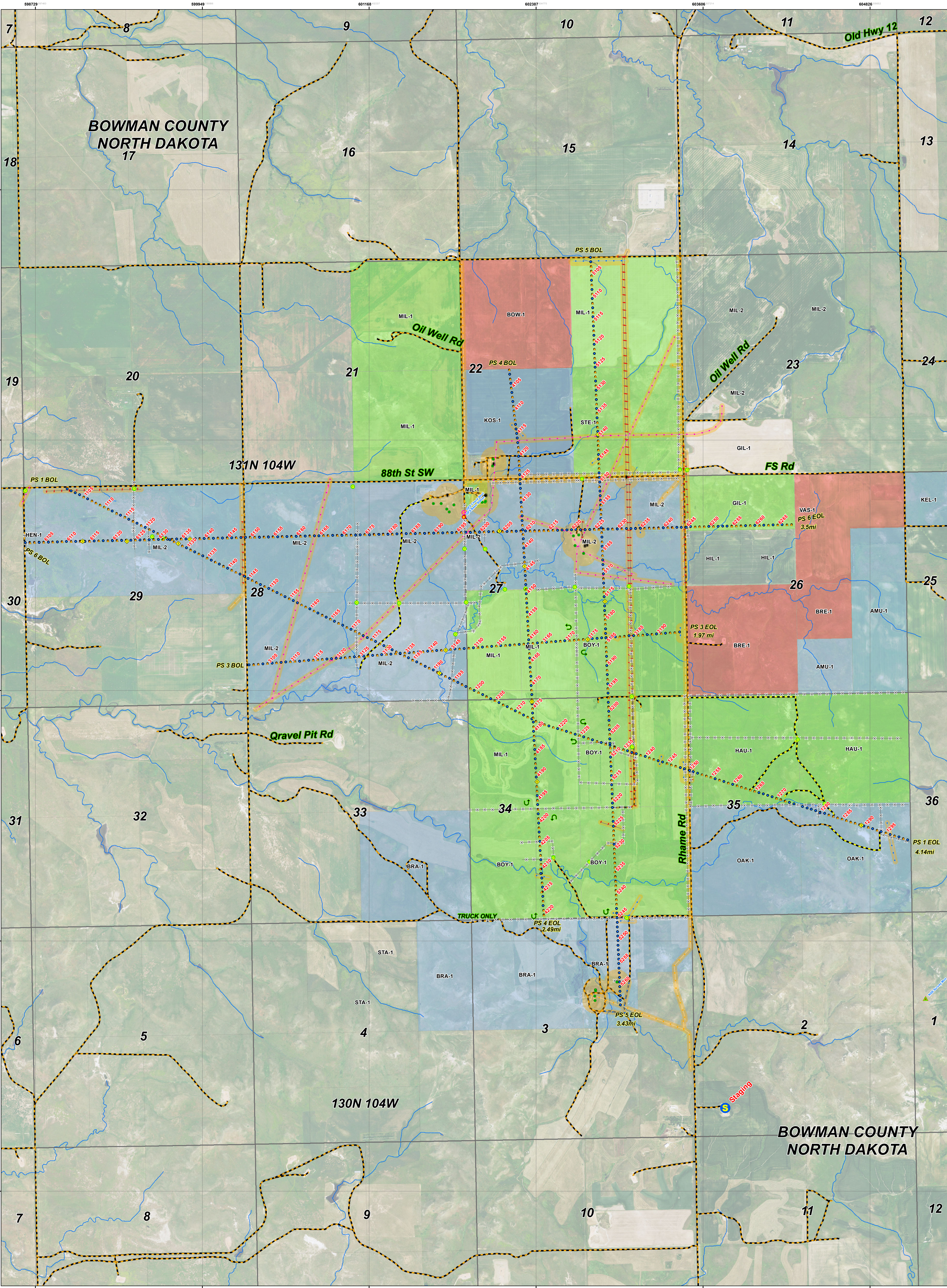
This plan has been furnished without warranty or representation as to the completeness or accuracy thereof.
© GLACIER EXPLORATION SURVEYS



LOCATOR MAP



GLACIER
Exploration Surveys Ltd.





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. 97-0263	
Shot Hole Operations	*Non-Explosive Operations Vibroseis

SECTION 1

Geophysical Contractor Paragon Geophysical Services, INC.	
Project Name and Number Coyote Creek 2-D #97-0263	County(s) Bowman
Township(s) 130, 131N	Range(s) 104W
Drilling and Plugging Contractors NA	
Date Commenced October 1, 2015	Date Completed October 8, 2015

SECTION 2

First S.P. # 1101	Last S.P. # 5265										
Loaded Holes (Undetonated Shot Points) NA											
S.P.#'s											
Charge Size											
Depth											
Reasons Holes Were Not Shot NA											

SECTION 3

Flowing Holes and/or Blowouts S.P.#'s NA
Procedure for Plugging Flowing Holes and/or Blowouts NA
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): Coyote Creek 2-D

PERMIT NUMBER: 97-0263

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 Jeff Logan

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

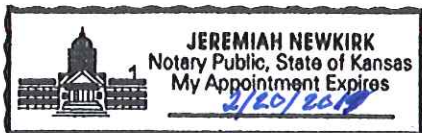
accordance with North Dakota Administrative Code Rule 43-02-12 and that the statements on

the reverse side of this document are true.



Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 9 day of October, 2015.



Notary Public 

My Commission Expires 2-20-2019

Affidavit of Compliance

AFFIDAVIT OF Jeff Logan

Name: Jeff Logan

Occupation: VP of Operations for Paragon Geophysical Services, INC.

I, Jeff Logan, affirm:

1. That I am the VP of Operation for Paragon Geophysical Services, INC. with offices located in Sedgwick County, Kansas.
2. That Paragon Geophysical Services, INC. was hired to obtain seismic permits in Bowman County ND for the Coyote Creek 2-D project.
3. That Paragon Geophysical Services, INC. has satisfied and sent the required notifications set forth in NDCC 38-11.1-04.1.

I AFFIRM THAT THE ABOVE AND FORGOING REPRESENTATIONS ARE TRUE AND CORRECT TO THE BEST OF MY INFORMATION, KNOWLEDGE, AND BELIEF.

Date:

10/9/2015

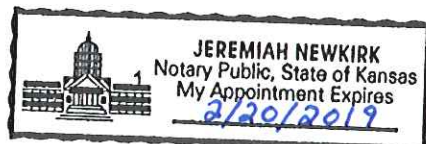
Jeff Logan:

STATE OF TEXAS

COUNTY OF SEDGWICK

I, the undersigned Notary Public, do hereby affirm that Jeff Logan personally appeared before me on the 9th day of October 2015, and signed the above Affidavit as his free and voluntary act and deed.

Notary Public:





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

August 26, 2015

Jeremiah Newkirk
Paragon Geophysical Services, Inc.
3500 N. Rock Road
Bldg 800 Suite B
Wichita, KS 67226

RE: COYOTE CREEK 2-D
GEOPHYSICAL EXPLORATION PERMIT #97-0263
BOWMAN COUNTY
NON EXPLOSIVE METHOD

Dear Mr. Newkirk:

Please be advised that we are in receipt of your Geophysical Exploration permit application and it is conditionally approved; effective for one year from August 26, 2015. **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. An Image file (.img) on a Flash Drive or email: tstorstenson@nd.gov with all source and receiver points,
 - e. Letter 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 5.
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.
 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)



1) a. Company Paragon Geophysical Services, Inc.		Address 3500 N Rock Rd, Bldg 800, Suite B, Wichita KS 67226			
Contact Jeremiah Newkirk		Telephone (316) 285-4125		Fax (316) 636-5572	
Surety Company RLI Insurance		Bond Amount 50,000		Bond Number RLB0014148	
2) a. Subcontractor(s) Geophysical Navigation Services, LP		Address PO Box 670309 Dallas TX 75367		Telephone (214) 812-9033	
b. Subcontractor(s) Allstate Permit Services		Address PO Box 1, Lewiston UT 84320		Telephone (651) 895-0002	
3) Party Manager		Address (local)		Telephone (local)	
4) Project Name or Line Numbers Coyote Creek 2D					
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D, Other) 2D Vibroseis					
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	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			24	16.59	
8) Approximate Start Date August 21, 2015			Approximate Completion Date September 15, 2015		

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	T.	R.		
	22, 25-29, 33-35	131N	104W		
	Section	T.	R.		
	3,4	130N	104W		
	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 **August 21, 2015**

Signature 	Printed Name Kirsten Anderson	Title Permit Manager
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Email Address(es)
kirsten.a@allstatepermit.com

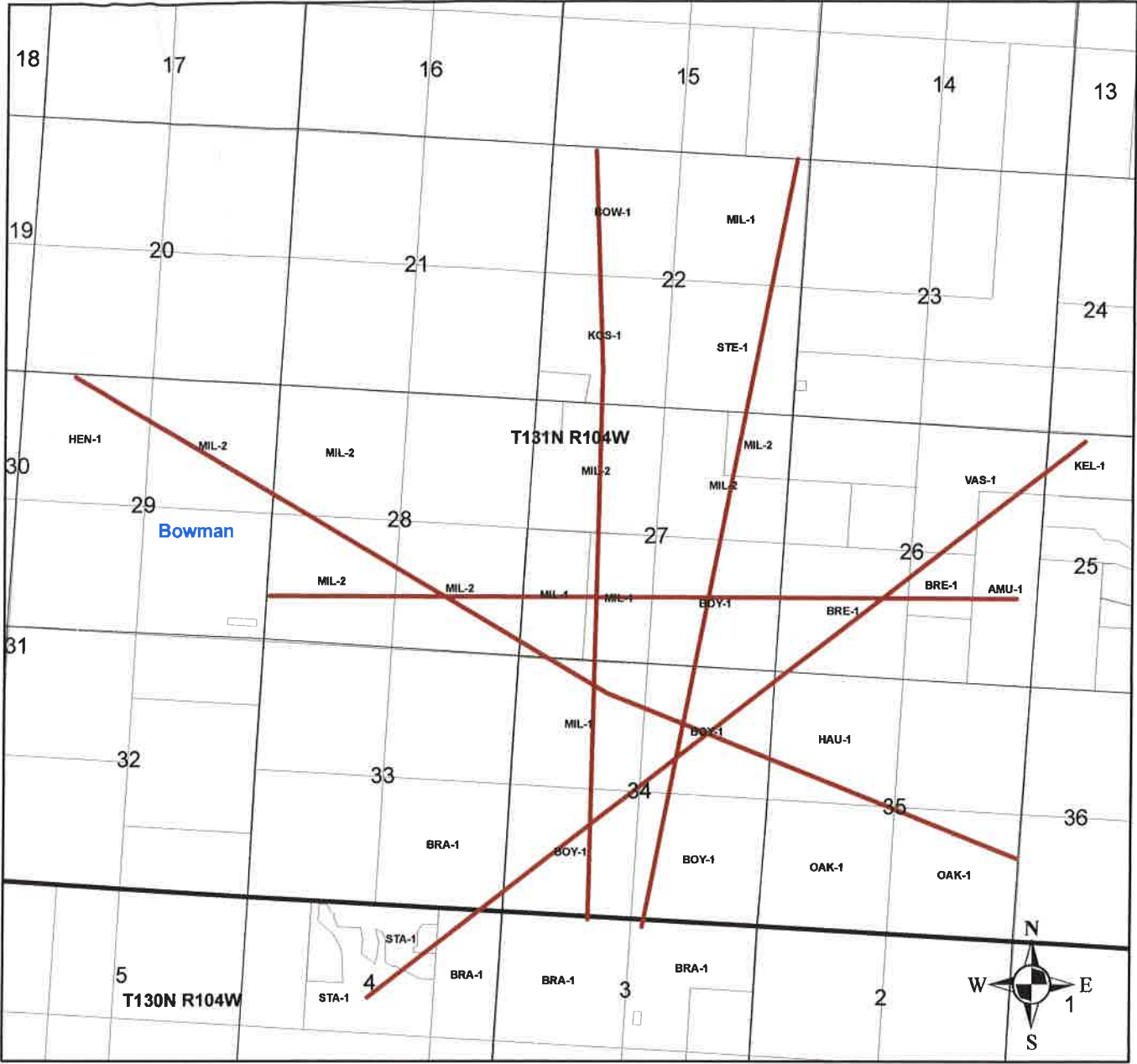
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Permit No. 17-0263	Approval Date 8/26/15
Approved by 	
Title Mineral Resources Permit Manager	

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.

ck recd 8-24-15
#2174 B 100.00



Legend

— Coyote creek 2D



SETTING THE STANDARD IN PERMIT ACQUISITION
SERVICES SINCE 1980



Legend

— Coyote creek 2D



SETTING THE STANDARD IN PERMIT ACQUISITION SERVICES SINCE 1980



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

August 26, 2015

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

RE: Geophysical Exploration
Permit # 97-0263

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 August 26, 2015 and will remain in effect for a period of one year.

Should you have any questions, please contact our office.

Sincerely,

Todd L. Holweger
Mineral Resources Permit Manager



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

FORM GE 1

FILING AUTHORIZATION

COMPANY NAME: Paragon Geophysical Services, Inc

ADDRESS: 3500 N Rock Road

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

Authorized Individuals

E-Mail Address

Phone Number

Kirsten Anderson

kirsten.a@allstatepermit. 651-895-0002

Company Authorized Signature: [Signature] Date: 8/24/15

Printed Name: Jeremiah Newkirk Title: Land MGR

Phone: 316-285-425 Email Address: jnewkirk@paragongeo.com

Witness Signature: [Signature] Date: 8.24.2015

Witness Printed Name: ASHLEY GIBSON