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
SEP 29 2021
ND Oil & Gas Division

Permit No.	
97-0301	
Shot Hole Operations	*Non-Explosive Operations
N/A	MT (Magnetotelluric) done first & CSEM (Controlled So

SECTION 1

Geophysical Contractor	
Responsible Energy Services International (RESI)	
Project Name and Number	County(s)
Carbon Safe Baseline Survey 2D	Oliver County
Township(s)	Range(s)
141N & 142N	83W & 84W
Drilling and Plugging Contractors	
N/A	
Date Commenced	Date Completed
December 9, 2020	April 7, 2021

SECTION 2

First S.P. #	Last S.P. #
N/A	N/A

Loaded Holes (Undetonated Shot Points)
N/A

S.P.#'s	N/A											
Charge Size	N/A											
Depth	N/A											

Reasons Holes Were Not Shot
This project required electromagnetic source impulse (no explosives were required)

SECTION 3

Flowing Holes and/or Blowouts
S.P.#'s
N/A

Procedure for Plugging Flowing Holes and/or Blowouts
No flowing holes or blowouts.
Both source locations were hand dug, when program was completed, both source locations were reclaimed by hand and seeded

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
SEP 29 2021
ND Oil & Gas Division

PERMIT NAME (Required): Carbon Safe Baseline Survey 2D

PERMIT NUMBER: 97-0301

AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)

STATE OF Texas)
)
COUNTY OF Fort Bend)

Before me, Shabbir Nurbhai, a Notary Public in and for the said County and State, this day personally appeared Henry E. Biggart who being first duly sworn, deposes and says that (s)he is employed by Responsible Energy ServicesInternational (RESI), 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.

Henry E. Biggart (Project Consultant)
Geophysical Contractor Representative

Subscribed in my presence and sworn before me this 27 day of September, 2021.

SHABBIR HUSSAIN NURBHAI
Notary Public, State of Texas
Comm. Expires 10-23-2022
Notary ID 131769120

Notary Public

My Commission Expires 10/23/2022

Carbon SAFE MT & CSEM POSTPLOT

Headwaters Square Butte Creek

Nelson Lake-Square Butte Creek

Square Butte Creek

Hagel Creek

Square Butte Number 5 Dam

T142N R84W

T142N R83W

T141N R84W

T141N R83W

TRANSMITTER NORTH TX1

TRANSMITTER SOUTH TX2

L1MT1 L1MT2 L1MT3 L1MT4 L1MT5 L1MT6 L1MT7 L1MT8 L1MT9 L1MT10 L1MT11 L1MT12

L2MT13 L2MT14 L2MT15 L2MT16 L2MT17 L2MT18 L2MT19 L2MT20 L2MT21 L2MT22 L2MT23 L2MT24 L2MT25 L2MT26 L2MT27 L2MT28 L2MT29

L3MT34 L3MT36 L3MT37 L3MT38 L3MT39 L3MT40 L3MT41 L3MT42 L3MT43 L3MT45 L3MT46

LEGEND

- Oil Pipeline Marathon
- Oil Wells
- Water Wells
- Streams & Rivers
- Subwatershed
- Watershed
- Building

POSTPLOT

- MT
- CSEM

101302030502

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

0 0.5 1 2 3 4 km

Carbon SAFE CSEM POSTPLOT

- CSEM SKIPPED
- CSEM POSTPLOT

CSEM PREPLOT

- CSEM LINE1
- CSEM LINE2
- CSEM LINE3

TRANSMITTER NORTH TX1

TRANSMITTER SOUTH TX2

T142N R84W

T142N R83W

T141N R84W

T141N R83W

L1CSEM1 L1CSEM2 L1CSEM3 L1CSEM4 L1CSEM5 L1CSEM6 L1CSEM7 L1CSEM8 L1CSEM9 L1CSEM10 L1CSEM11 L1CSEM12 L1CSEM13 L1CSEM14 L1CSEM15 L1CSEM16 L1CSEM17 L1CSEM18 L1CSEM19 L1CSEM20 L1CSEM21 L1CSEM22 L1CSEM23 L1CSEM24 L1CSEM25 L1CSEM26 L1CSEM27 L1CSEM28 L1CSEM29 L1CSEM36

L2CSEM37 L2CSEM38 L2CSEM39 L2CSEM40 L2CSEM41 L2CSEM42 L2CSEM43 L2CSEM44 L2CSEM45 L2CSEM46 L2CSEM47 L2CSEM48 L2CSEM49 L2CSEM50 L2CSEM51 L2CSEM52 L2CSEM53 L2CSEM54 L2CSEM55 L2CSEM56 L2CSEM57 L2CSEM58 L2CSEM59 L2CSEM60 L2CSEM61 L2CSEM64 L2CSEM65 L2CSEM66 L2CSEM67 L2CSEM69 L2CSEM70 L2CSEM71 L2CSEM72 L2CSEM73 L2CSEM74 L2CSEM75 L2CSEM76 L2CSEM77 L2CSEM78 L2CSEM79 L2CSEM80 L2CSEM81 L2CSEM82 L2CSEM83 L2CSEM84 L2CSEM85 L2CSEM86

L3CSEM87 L3CSEM88 L3CSEM89 L3CSEM90 L3CSEM91 L3CSEM92 L3CSEM93 L3CSEM94 L3CSEM95 L3CSEM96 L3CSEM97 L3CSEM98 L3CSEM99 L3CSEM100 L3CSEM101 L3CSEM102 L3CSEM103 L3CSEM104 L3CSEM105 L3CSEM106 L3CSEM107 L3CSEM108 L3CSEM109 L3CSEM110 L3CSEM111 L3CSEM112 L3CSEM113 L3CSEM114 L3CSEM115 L3CSEM116 L3CSEM117 L3CSEM118 L3CSEM119 L3CSEM120 L3CSEM121 L3CSEM122 L3CSEM123 L3CSEM124 L3CSEM125

LEGEND

- Transmitter Position
- Transmitter Line
- Transmitter 100m buffer

0 0.5 1 2 3 4 km

KMS Technologies

Carbon SAFE MT POSTPLOT

- MT SKIPPED
- MT POSTPLOT

MT PREPLOT

- MT LINE1
- MT LINE2
- MT LINE3

TRANSMITTER NORTH TX1

T142N R84W

T142N R83W

T141N R84W

T141N R83W

TRANSMITTER SOUTH TX2

L1MT1 L1MT2 L1MT3 L1MT4 L1MT5 L1MT6 L1MT7 L1MT8 L1MT9 L1MT10 L1MT11 L1MT12

L2MT13 L2MT14 L2MT15 L2MT16 L2MT17 L2MT18 L2MT19 L2MT20 L2MT21 L2MT22 L2MT23 L2MT24 L2MT25 L2MT26 L2MT27 L2MT28 L2MT29

L3MT34 L3MT35 L3MT36 L3MT37 L3MT38 L3MT39 L3MT40 L3MT41 L3MT42 L3MT43 L3MT44 L3MT45 L3MT46

LEGEND

- Transmitter Position
- Transmitter Line
- Transmitter 100m buffer

KMS Technologies

Source: Esri, DigitalGlobe, Ge

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NORTH DAKOTA OIL AND GAS DIVISION

December 9, 2020

Henry E. Biggart
Project Consultant
Responsible Energy Services International Inc.
11999 Katy Freeway, Suite #160
Houston, TX 77079

RE: CARBON SAFE BASELINE SURVEY 2-D
GEOPHYSICAL EXPLORATION PERMIT #97-0301
OLIVER COUNTY
NON-EXPLOSIVE METHODS

Dear Mr. Biggart:

Be advised that your Geophysical Exploration permit is conditionally approved; effective for one year from December 9, 2020.

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.**
- **Topsoil shall be removed, stockpiled or otherwise reserved for when the two-controlled source electromagnetic areas are reclaimed. "Topsoil" means suitable plant growth material on the surface; however, in no event shall this be deemed no more than the top twelve inches of soil or deeper than the depth of cultivation, whichever is greater.**
- **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/ *Also, note the attached two Water Commission exhibits.*
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 19 2020

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: Responsible Energy Services Interna	Address: 11999 Katy Freeway, Suite #160, Houston, TX 77079	
Contact: Lee Parker	Telephone: (832) 275-7258	Fax: (702) 202-1289
~~Surety~~ Company: CD with Bank of ND	Bond Amount: $25,000.00	Bond Number: GE0306
2) a. Subcontractor(s)	Address	Telephone
b. Subcontractor(s)	Address	Telephone
3) Party Manager: Henry E. Biggart	Address (local): 3142 Robinson Rd, Missouri City, TX	Telephone (local): (281) 217-8977

4) Project Name or Line Numbers
Carbon Safe Baseline Survey 2D

5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D, Other)
Electromagnetic source impluse (no explosives are required), Magneto Telluric (MT)

6) Distance Restrictions (Must check all that apply)

- [x] 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.	2 - Electromagnetic Locations
3-D					Sec. 12 - T41N R84W
Size of Hole	Amt of Charge	Depth	Source points	No. of ln. mi.	Sec. 26 - T42N R84W
2-D N/A	N/A	4 ft	2	16.65	-No Explosive Required.

8) Approximate Start Date	Approximate Completion Date
December 14 2020	May 1, 2021

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

9) Location of Proposed Project - County
Oliver County

Section(s), Township(s) & Range(s)	Section	T.	R.
	2,3,4,5,6,9,10	141N	83W
	1,2,12	141N	84W
	30,31,32	142N	83W
	24,25,26,33,34,35,36	142N	84W

I hereby swear or affirm that the information provided is true, complete and correct as determined from all available records. Date: November 17, 2020

Signature	Printed Name	Title
	Henry E. Biggart	Project Consultant

Email Address(es)
hbiggart12@outlook.com

(This space for State office use)

Permit No. 97-0301	Approval Date 12/9/20
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.

*See Instructions On Reverse Side

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NORTH DAKOTA
OIL AND GAS DIVISION

December 9, 2020

The Honorable Judith Hintz
Oliver County Auditor
P.O. Box 188
Center, ND 58530-0188

RE: Geophysical Exploration
Permit # 97-0301

Dear Ms. Hintz,:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that the Responsible Energy Services International, Inc. was issued the above captioned permit on December 9, 2020 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

AFFIDAVIT OF NOTICE

BEFORE ME, the undersigned authority, personally appeared Shannon R. Mikula of Minnkota Power Cooperative, Inc. whose office is located at 5301 32nd Avenue South, Grand Forks, ND 58201 who being duly sworn, upon oath stated and affirmed that:

1. My name is Shannon R. Mikula. I am over eighteen years of age. I have personal knowledge of the facts stated by me in this Affidavit and that they are true and correct. I have never been convicted of any felony or of any crime involving moral turpitude and am fully competent to make this Affidavit.
2. I hold the position of special project counsel for Minnkota Power Cooperative, Inc. ("Minnkota"). By virtue of my position with Minnkota I am authorized to make the representations contained in this affidavit on behalf of Minnkota and KMS Technologies-KJT Enterprises Inc.
3. All landowners within ½ mile of proposed project area for the CarbonSafe-Phase 3 Controlled Source Electromagnetic Survey lines as shown on the attached maps have been notified of the approximate schedule for activities and have been provided the North Dakota Century Code section 38-08.1-04.1 and Chapter 38-11-1.
4. Also attached is the template notification letter and enclosures sent to all landowners within ½ mile of the proposed project area.
5. Representatives from Minnkota also presented notice to the Oliver County Auditor.
6. The proposed project will not use vibroseis trucks or dynamite sources on state or county roadways, railways, transmission lines, subsurface pipelines/infrastructure and associated right-of-ways.
7. Sensors will not be placed on or within county highway right-of-ways.
8. No setback variances were sought.
9. I affirm under penalty of perjury that the representations contained in this affidavit are true, to the best of my knowledge, information, and belief.
10. Further, the affiant sayeth naught.

Executed this 8th day of December 2020.

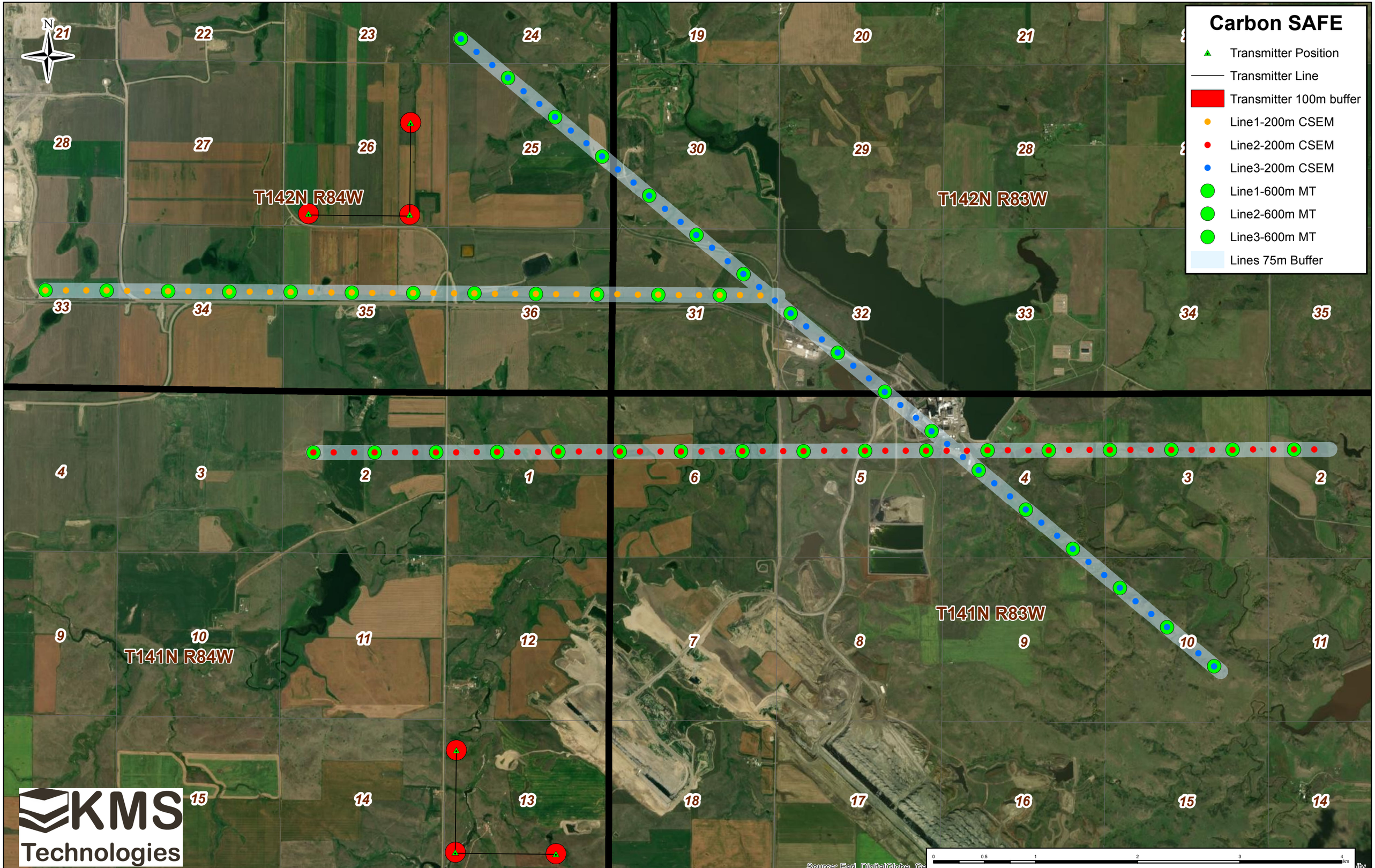
Shannon R. Mikula

STATE OF NORTH DAKOTA)
)SS.
COUNTY OF GRAND FORKS)

Subscribed and sworn to before me this 8th day of December, 2020.

Notary Public

KIMBERLY JOHNSON RUSTAD
Notary Public
State of North Dakota
My Commission Expires Oct. 9, 2022


Carbon SAFE
Transmitter Position
Transmitter Line
Transmitter 100m buffer
Line1-200m CSEM
Line2-200m CSEM
Line3-200m CSEM
Line1-600m MT
Line2-600m MT
Line3-600m MT
Lines 75m Buffer
T142N R84W
T142N R83W
T141N R84W
T141N R83W
N
KMS Technologies
0 0.5 1 2 3 4 km
Source: Esri, DigitalGlobe,

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

Received
NOV 18 2020
ND Oil & Gas Division

FORM GE 1

FILING AUTHORIZATION

COMPANY NAME: Responsible Energy Services International Inc.

ADDRESS: 11999 Katy Freeway, Suite #160

CITY: Houston STATE: TX ZIP: 77079

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
Henry E. Biggart	281-217-8977	hbiggart12@outlook.com
Lee Parker	832-275-7258	lee.parker@res-eni.com

Company Authorized Signature: _____ Date: 11/05/2020

Printed Name: Henry E. Biggart Title: Project Consultant

Phone: 281-217-8977 Email Address: hbiggart12@outlook.com

****

Witness Signature: _____ Date: 11/06/2020

Witness Printed Name: Lee Parker

MT
CSEM
Method
Carbon Safe
ND

KMS Technologies

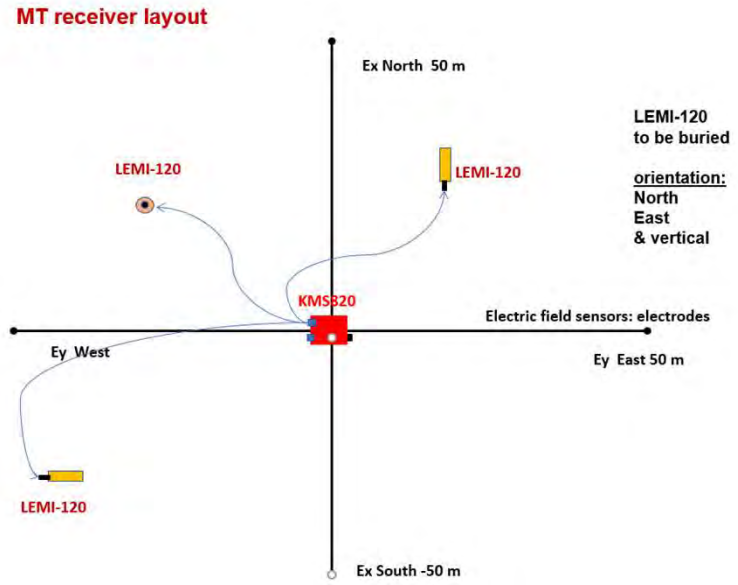
RESI

Responsible Energy Services International

Overview

- ***MT*** (Magneto Telluric) is passive and used only Sun Activity as the Electromagnetic source, less sampling (1/5 to 1/3) number of units, recording for 20 hours per day, best results during night hours with less noise
  - This project expected to be at 600m intervals, with 4 or 5 KMS-820 units and 2 remote base stations (these are not in the project area for example one is in Austin possible other in Grand Forks) recording at the same time, this is used to better identify the source, the units are recorded then moved until all MT locations have been occupied on this project, we expect around 40 locations
  - Used for deep imaging of the earth lower frequency data
- ***CSEM*** (Controlled Source Electro Magnetic) is active source with passive receivers, injecting current in the ground and measuring response via the receivers, each occurs for 4 Hours one direction (NS) then 4 Hours other direction (ES) the interval can be from 100m to 200m with 8 to 10 KMS-820 recording units.
  - This project requires 2 source locations, each set of receivers is moved after both NS / EW is complete until all receiver locations are occupied. We expect to occupy upto 240 locations twice once for each source location

Layout Receiver MT (Magneto Telluric)

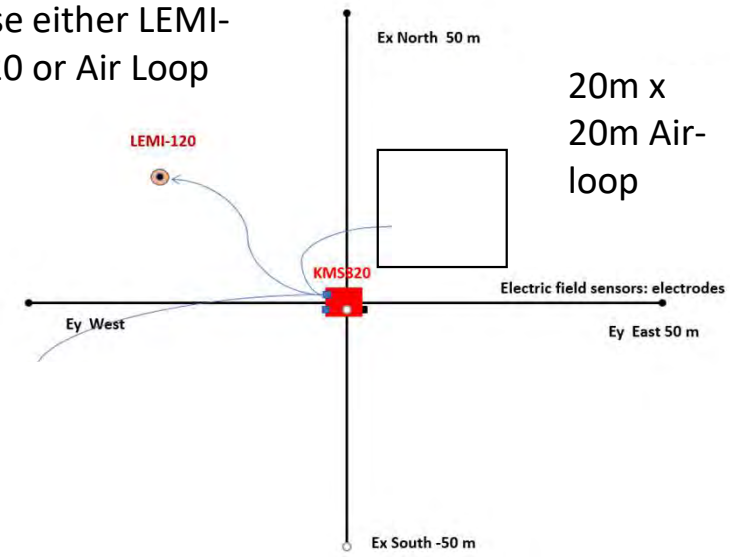


4 Electric Field Sensors (50m from recorder)
3 Magnetic Sensors
Each recorder unit is Node and records all
Data inside the KMS-820
Can also transfer data via cell to cloud
Record 7 channels

LEMI-120 is a Magnetic sensor 1.2m (Vertical) and 2 Horizontal

Layout Receiver CSEM (Controlled Source Electro Magnetic) every 100-200m

Use either LEMI-120 or Air Loop

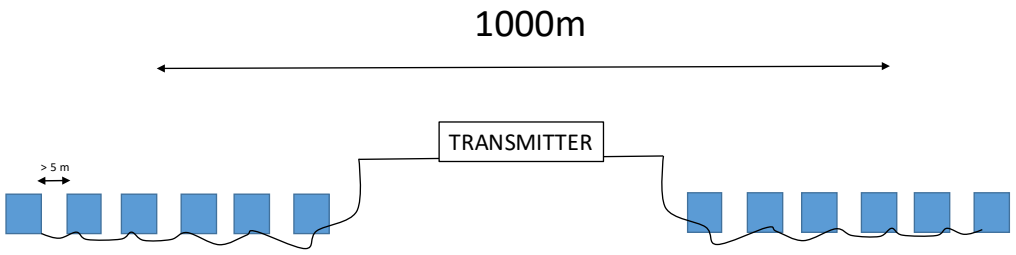


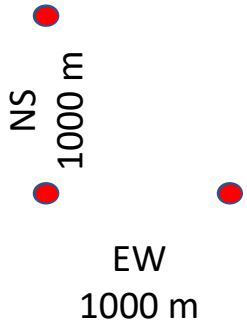
20m x 20m Air-loop

4 Electric Field Sensors (50m from recorder) same as MT
1 Magnetic Sensor or Air Loop cable
Each recorder unit is Node and records all
Data inside the KMS-820
Can also transfer data via cell to cloud
Record 5 Channels

LEMI-120 is a Magnetic sensor 1.2m (Vertical) or Air Loop cable depending on noise tests

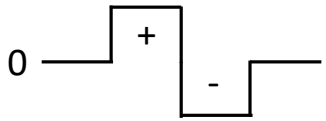
Source Layout CSEM (2 Locations)





Dig in Cocurated Sheets, 1m deep, 3m long
At 2 locations, each with 3 x 6 sheets arranged as below left

100 to 150 KVA Generator 100A typical over 1km
Injects +,off,-,off then repeat over 100 seconds, 25 sec segments



Sample timing

12 Hour Operation
20 Hours recording

MT 40 Positions over 10 Days

8 Hours NS
8 Hours EW

CSEM Source 1
200 Positions over 10 Days

8 Hours NS
8 Hours EW

CSEM Source 2
200 Positions over 10 Days

Magneto Telluric MT
Operation First (Passive Only)

Controlled Source Electro Magnetic CSEM
Operation Second (Active)

RESI

KMS Technologies

Pictures of Key Elements

KMS-820

KMS-5100 land EM transmitter in portable field box, inside view. Timing and system response controller, and optional shock mounted, dustproof case.

Sample Map 200m

T142N R84W

T142N R83W

T141N R84W

T141N R83W

Carbon SAFE

- Transmitter Position
- Transmitter Line
- Transmitter 100m buffer
- Line1-200m CSEM
- Line2-200m CSEM
- Line3-200m CSEM
- Line1-600m MT
- Line2-600m MT
- Line3-600m MT
- Lines 75m Buffer

KMS Technologies

0 0.5 1 2 3 4 km

Map 600m showing sub locations for MT

T142N R84W

T142N R83W

T141N R84W

T141N R83W

Carbon SAFE

- Transmitter Position
- Transmitter Line
- Transmitter 100m buffer
- Line1-200m CSEM
- Line2-200m CSEM
- Line3-200m CSEM
- Line1-600m MT
- Line2-600m MT
- Line3-600m MT
- Lines 75m Buffer

KMS Technologies

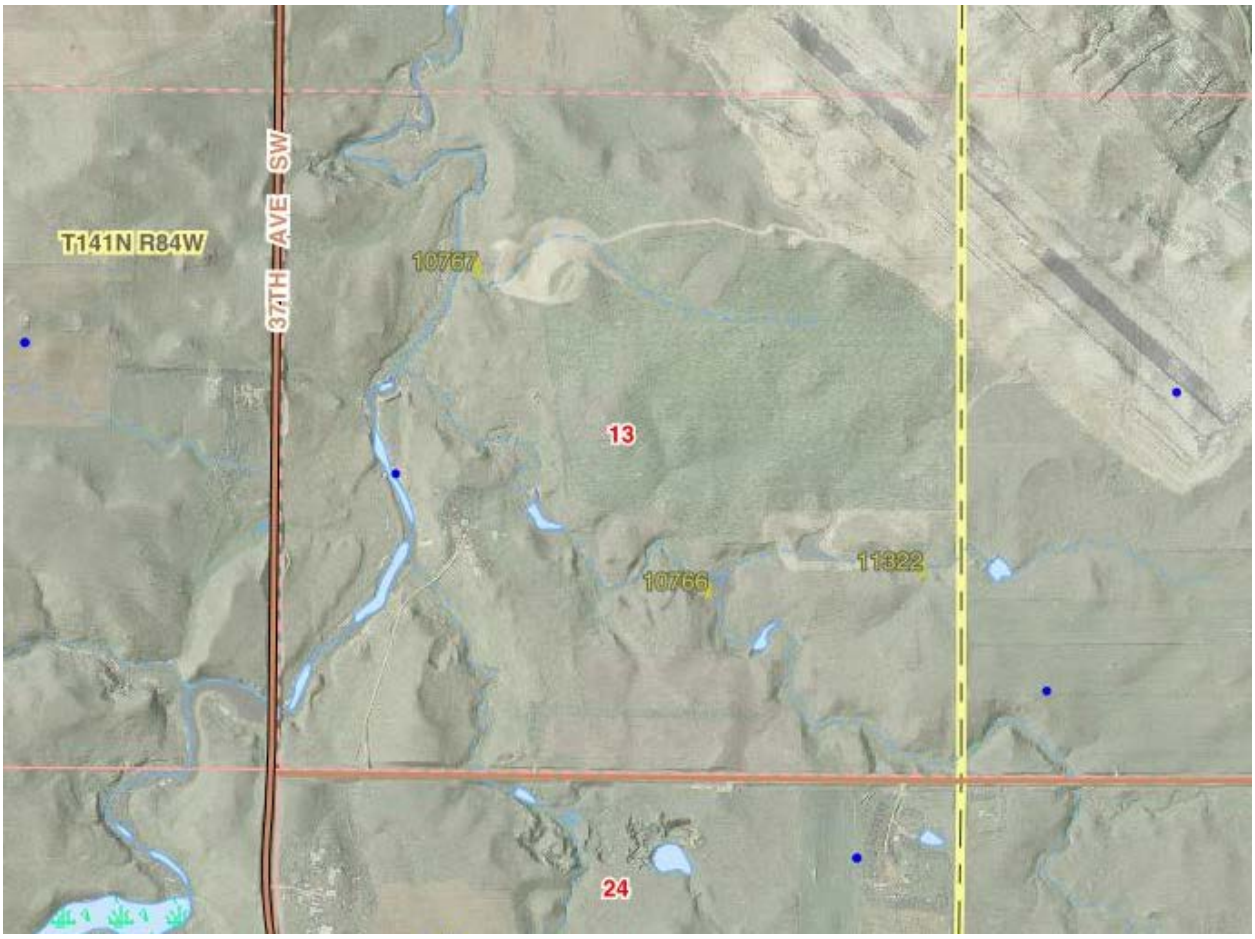
0 0.5 1 2 3 4 km

Source: Esri, DigitalGlobe, Ge

Bringing Intelligence to Green Energy Solutions

www.res-eni.com

ND Water Commission Map
12/9/2020
Blue dots represent drillers logs for water wells



STATE OF NORTH DAKOTA

BOARD OF WATER WELL CONTRACTORS

900 E. BOULEVARD • BISMARCK, NORTH DAKOTA 58501

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Board of Water Well Contractors within 30 days after completion or abandonment of the well.

1. WELL OWNER

Name Roy Dehnidt

Address Center, No. Dak.

2. WELL LOCATION

Sketch map location must agree with written location.

NORTH

1 Mile

County Oliver

¼ ¼ ¼ Sec. 12 Twp. 141 N. Rg. 84 W.

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Industrial

☒ Stock ☐ Municipal ☐ Test Hole

4. METHOD DRILLED

☐ Cable ☐ Reverse Rotary ☒ Bored

☐ Forward Rotary ☐ Jetted ☐ Other

If other, specify

5. WATER QUALITY

Was a water sample collected for chemical analysis?

☐ Yes ☒ No

If so, to what laboratory was it sent

6. WELL CONSTRUCTION

Diameter of hole 24 inches. Depth 30 feet.

Casing: ☐ Steel ☐ Plastic ☒ Concrete

☐ Threaded ☐ Welded ☐ Other

If other, specify

Pipe Weight:	Diameter:	From:	To:
70 lb/ft.	24 inches	Top feet	30 feet
lb/ft.	inches	feet	feet
lb/ft.	inches	feet	feet
lb/ft.	inches	feet	feet

Was perforated pipe used? ☒ Yes ☐ No

Length of pipe perforated 6 feet

Was casing left open end? ☐ Yes ☒ No

Was a well screened installed? ☐ Yes ☐ No

Material Diameter inches

(stainless steel, bronze, etc.)

Slot size set from feet to feet

Slot size set from feet to feet

Slot size set from feet to feet

Slot size set from feet to feet

Was a packer or seal used? ☐ Yes ☐ No

If so, what material

Type of well: Straight screen ☐ Gravel packed ☐

Was the well grouted? Yes ☐ No ☐

To what depth? feet

Material used in grouting

Well head completion: Pitless adapter

12" above grade Other

If other, specify

Was well disinfected upon completion? ☐ Yes ☒ No

7. WATER LEVEL

Static water level 15 feet below land surface

If flowing: closed-in pressure psi

GPM flow through inch pipe

Controlled by: ☐ Valve ☐ Reducers ☐ Other

If other, specify

8. WELL TEST DATA

☐ Pump ☒ Bailer ☐ Other

Pumping level below land surface:

17 ft. after 1 hrs. pumping 40 gpm

ft. after hrs. pumping gpm

ft. after hrs. pumping gpm

9. WELL LOG

Formation	Depth (ft.) From	To
Soft clay	0	2
Sandy clay	2	13
Hard sand	13	15
Hard Rock	15	21
Sand Rock	21	30

(Use separate sheet if necessary.)

10. DATE COMPLETED 6-20th 1975

11. WAS WELL PLUGGED OR ABANDONED?

☐ Yes ☒ No

If so, how

12. REMARKS:

13. DRILLER'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge.

Dee Well Drilling

Driller's or Firm's Name Certificate No.

Address

Signed by Date 6-20 1975

Manager 8-2-75

DUPLICATE — BOARD'S COPY

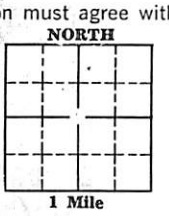
STATE OF NORTH DAKOTA
BOARD OF WATER WELL CONTRACTORS
900 E. BOULEVARD • BISMARCK, NORTH DAKOTA 58501

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Board of Water Well Contractors within 30 days after completion or abandonment of the well.

1. WELL OWNER
Name Larry Driscoll
Address Center

2. WELL LOCATION
Sketch map location must agree with written location.



County Oliver.
¼ ¼ SW¼ Sec. 12 Twp 141 N. Rg. 84 W.

3. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Industrial
☒ Stock ☐ Municipal ☐ Test Hole

4. METHOD DRILLED
☐ Cable ☐ Reverse Rotary ☐ Bored
☒ Forward Rotary ☐ Jetted ☐ Other
If other, specify

5. WATER QUALITY
Was a water sample collected for chemical analysis?
☐ Yes ☒ No to be sent in by owner
If so, to what laboratory was it sent

6. WELL CONSTRUCTION
Diameter of hole 7 inches. Depth 270 feet.
Casing: ☐ Steel ☒ Plastic ☐ Concrete
☐ Threaded ☐ Welded ☐ Other
If other, specify

Pipe Weight:	Diameter:	From:	To:
2 lb/ft.	4 inches	0 feet	210 feet
lb/ft.	inches	feet	feet
lb/ft.	inches	feet	feet
lb/ft.	inches	feet	feet

Was perforated pipe used? ☐ Yes ☒ No
Length of pipe perforated feet
Was casing left open end? ☐ Yes ☒ No
Was a well screened installed? ☒ Yes ☐ No
Material Plastic Diameter 4 inches
(stainless steel, bronze, etc.)
Slot size 30 set from 210 feet to 270 feet
Slot size set from feet to feet
Slot size set from feet to feet
Slot size set from feet to feet
Was a packer or seal used? ☐ Yes ☒ No
If so, what material
Type of well: Straight screen ☐ Gravel packed ☒
Was the well grouted? Yes ☒ No ☐
To what depth? 20' feet
Material used in grouting Neat Cement
Well head completion: Pitless adapter
12" above grade ✓ Other
If other, specify
Was well disinfected upon completion? ☒ Yes ☐ No

7. WATER LEVEL
Static water level feet below land surface
If flowing: closed-in pressure psi
GPM flow through inch pipe
Controlled by: ☐ Valve ☐ Reducers ☐ Other
If other, specify

8. WELL TEST DATA
☒ Pump ☐ Bailer ☐ Other
Pumping level below land surface:
200 ft. after 2 hrs. pumping 20 gpm
ft. after hrs. pumping gpm
ft. after hrs. pumping gpm

9. WELL LOG

Formation	Depth (ft.) From	To
Brown Sand	0	43
Brown Sandy Clay	43	63
Sandy Clay	63	90
Coal	90	92
Sandy Clay	92	130
Coal	130	135
Clay	135	216
Fine Sand	216	270

(Use separate sheet if necessary.)

10. DATE COMPLETED

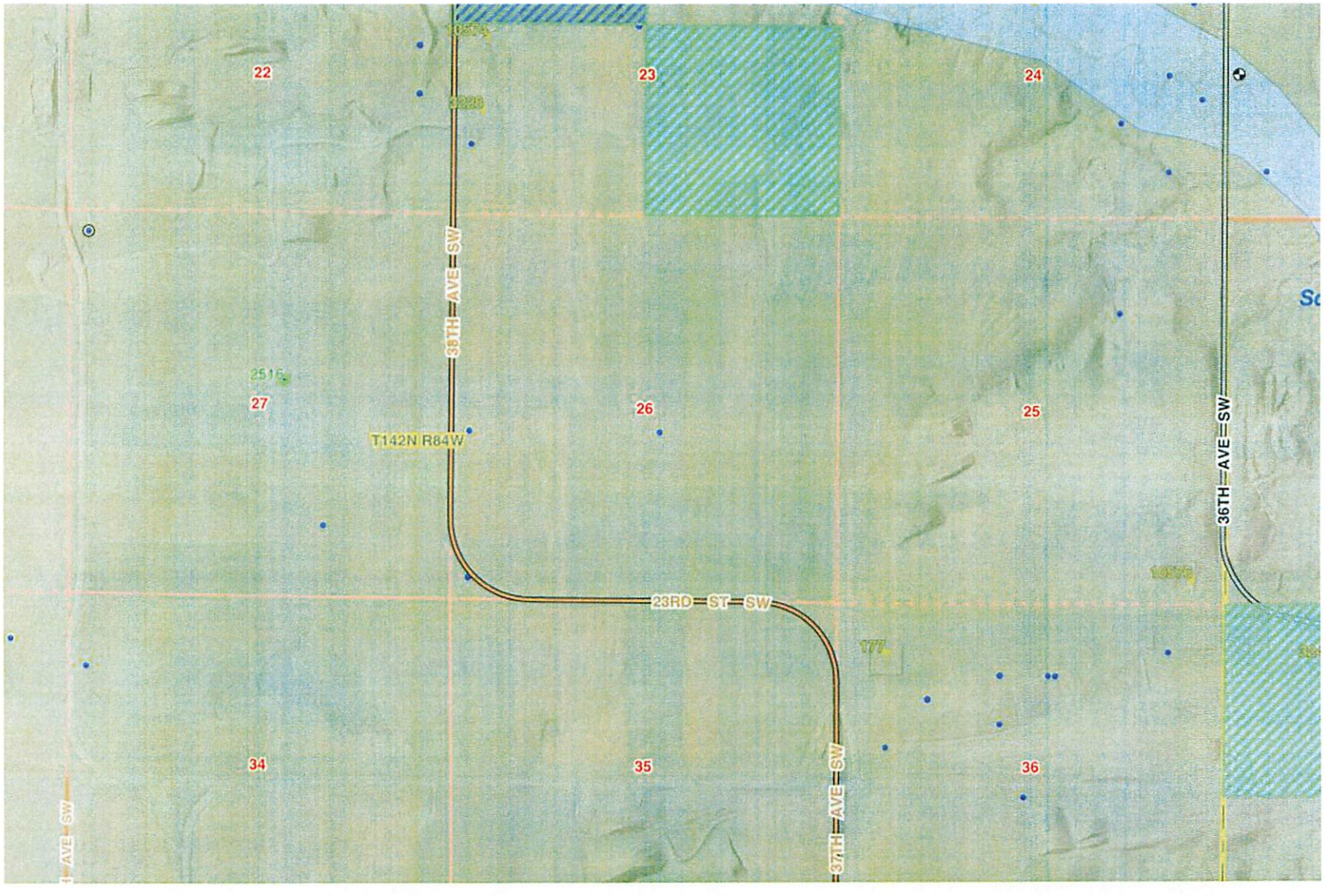
11. WAS WELL PLUGGED OR ABANDONED?
☐ Yes ☒ No
If so, how

12. REMARKS:

13. DRILLER'S CERTIFICATION
This well was drilled under my jurisdiction and this report is true to the best of my knowledge.
Mchenzie Well Drilling 36
Driller's or Firm's Name Certificate No.
1005 Box 70 Mandan N.D.
Address
Frank Mchenzie 10/24/89
Signed by Date

WHITE—DRILLER'S COPY YELLOW—BOARD'S COPY PINK—CUSTOMER'S COPY

ND Water Commission Map
12/3/2020
Blue dots represent drillers logs for water wells



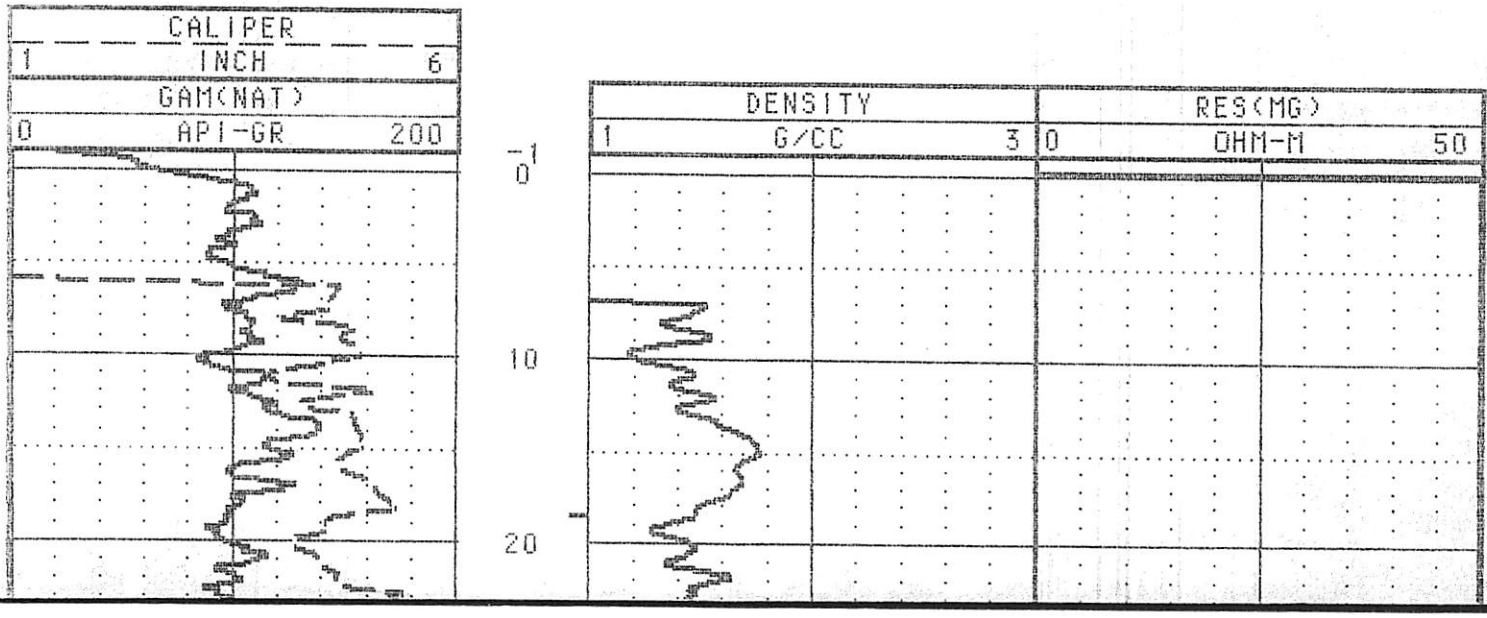
BNI COAL

382 R

COMPANY	: BNI COAL				
WELL	: 382 R				
LOCATION/FIELD	: CENTER				
COUNTY	: OLIVER				
STATE	: NORTH DAKOTA				
SECTION	: 26	TOWNSHIP	: 142	RANGE	: 84
DATE	: 06/25/92	PERMANENT DATUM	: GL	ELEVATIONS	
DEPTH DRILLER	: 137	ELEV. PERM. DATUM	:	KB	: 1
LOG BOTTOM	: 133.80	LOG MEASURED FROM	: GL	DF	:
LOG TOP	: -0.70	DRL MEASURED FROM	: GL	GL	:
CASING DRILLER	: -	LOGGING UNIT	:		
CASING TYPE	:	FIELD OFFICE	: CENTER, ND		
CASING THICKNESS	: -	RECORDED BY	: W. PETERSON		
BIT SIZE	: 5.125	BOREHOLE FLUID	: DRY	FILE	: ORIGINAL
MAGNETIC DECL.	: -	RM	:	TYPE	: 9030AA
MATRIX DENSITY	: 2.65	RM TEMPERATURE	:	LOG	: 5
FLUID DENSITY	: -	MATRIX DELTA T	: -	PLOT	: BNI 0
NEUTRON MATRIX	: -	FLUID DELTA T	: -	THRESH	: -
REMARKS	:				

OTHER SERVICES:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



STATE OF NORTH DAKOTA

BOARD OF WATER WELL CONTRACTORS

900 E. BOULEVARD • BISMARCK, NORTH DAKOTA 58501

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Board of Water Well Contractors within 30 days after completion or abandonment of the well.

1. WELL OWNER

Name 382 R BNI COAL

Address Center ND 58530

2. WELL LOCATION

Sketch map location must agree with written location.

NORTH

1 MILE

Sec. (1 mile) ____

County Oliver

NW ¼ NW ¼ SE ¼ Sec. 26 Twp. 142 N. Rg 84 W.

3. PROPOSED USE

☐ Domestic ☐ Geothermal ☒ Monitoring

☐ Stock ☐ Irrigation ☐ Industrial

☐ Municipal ☐ Test Hole

4. METHOD DRILLED

☐ Cable ☐ Reverse Rotary ☐ Bored

☒ Forward Rotary ☐ Jetted ☐ Auger

If other, specify Air

5. WATER QUALITY

Was a water sample collected for:

Chemcial Analysis? ☐ Yes ☒ No

Bacteriological Analysis? ☐ Yes ☒ No

If so, to what laboratory was it sent? ____

6. WELL CONSTRUCTION

Diameter of hole 4½ inches. Depth 136 feet.

Casing: ☐ Steel ☒ Plastic ☐ Concrete

☐ Threaded ☐ Welded ☐ Other

If other, specify ____

Pipe Weight:	Diameter:	From:	To:
____ lb/ft	2 inches	0 feet	131 feet
____ lb/ft	____ inches	____ feet	____ feet
____ lb/ft	____ inches	____ feet	____ feet

Was perforated pipe used? ☐ Yes ☒ No

Perforated pipe set from ____ ft to ____ feet

Was casing left open end? ☐ Yes ☒ No

Was a well screened installed? ☒ Yes ☐ No

Material PVC Diameter 2 inches

Slot Size 20 set from 131 feet to 136 feet

Slot Size ____ set from ____ feet to ____ feet

Was packer or seal used? ☐ Yes ☒ No

If so, what material ____ Depth ____ ft.

(stainless steel, bronze, etc.)

Type of well: Straight screen ☐ Gravel packed ☒

Depth grouted: From ____ To ____

Grouting Material: Cement ____ Other ✓

If other explain: Enviroplug Medium Chip Bentonite

Well head completion: Pitless unit ____

12" above grade ____ Other ✓

If other, specify 31¾ above grade

Was pump installed: ☐ Yes ☒ No

Was well disinfected upon completion? ☐ Yes ☒ No

7. WATER LEVEL

Static water level Dry feet below surface

If flowing: closed-in pressure ____ psi

GPM flow ____ through ____ inch pipe

Controlled by: ☐ Valve ☐ Reducers ☐ Other

If other, specify ____

8. WELL TEST DATA

☐ Pump ☐ Bailer ☐ Other

Pumping level below land surface:

____ ft. after ____ hrs. pumping ____ gpm

____ ft. after ____ hrs. pumping ____ gpm

____ ft. after ____ hrs. pumping ____ gpm

9. WELL LOG

Formation	Depth (ft.) From	Depth (ft.) To
Mine Spoil	0	135
Sandy Blue Clay	135	137

(Use separate sheet if necessary)

10. DATE COMPLETED 6-25-92

11. WAS WELL PLUGGED OR ABANDONED?

☐ Yes ☒ No

If so, how ____

12. REMARKS:

USED:

100 lbs. #10 silica sand.

13. DRILLER'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge.

BNI COAL, Inc — Driller's or Firm's Name — 415 — Certificate No.

Center, ND 58530 — Address

Wm. Peterson — Signed by — 7-1-92 — Date

WHITE-DRILLER'S COPY YELLOW-BOARD'S COPY PINK-CUSTOMER'S COPY

STATE OF NORTH DAKOTA
BOARD OF WATER WELL CONTRACTORS
900 E. BOULEVARD • BISMARCK, NORTH DAKOTA 58501

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Board of Water Well Contractors within 30 days after completion or abandonment of the well.

1. WELL OWNER
Name BNI COAL #371SP
Address CENTER, ND

2. WELL LOCATION
Sketch map location must agree with written location.

NORTH
1 MILE
Sec. (1 mile) ____

County Oliver
NW ¼ NW ¼ SW ¼ Sec. 26 Twp. 142 N. Rg 84 W.

3. PROPOSED USE
☐ Domestic ☐ Stock ☐ Geothermal ☐ Irrigation ☐ Municipal ☐ Monitoring ☐ Industrial ☐ Test Hole
Piezometer

4. METHOD DRILLED
☐ Cable ☒ Forward Rotary ☐ Reverse Rotary ☐ Jetted ☐ Bored ☐ Auger
If other, specify ____

5. WATER QUALITY
Was a water sample collected for:
Chemcial Analysis? ☐ Yes ☒ No
Bacteriological Analysis? ☐ Yes ☒ No
If so, to what laboratory was it sent? ____

6. WELL CONSTRUCTION
Diameter of hole 6 inches. Depth 98.03 feet.
Casing: ☐ Steel ☒ Plastic ☐ Concrete ☐ Threaded ☐ Welded ☐ Other
If other, specify ____

Pipe Weight:	Diameter:	From:	To:
SCH40 lb/ft	2 inches	0 feet	98.03 feet
____ lb/ft	____ inches	____ feet	____ feet
____ lb/ft	____ inches	____ feet	____ feet

Was perforated pipe used? ☒ Yes ☐ No
Perforated pipe set from 88.03 ft to 98.03 feet
Was casing left open end? ☐ Yes ☒ No
Was a well screened installed? ☒ Yes ☐ No
Material PVC Diameter 2 inches
Slot Size 10 set from 88.03 feet to 98.03 feet
Slot Size ____ set from ____ feet to ____ feet
Was packer or seal used? ☐ Yes ☒ No
If so, what material ____ Depth ____ ft.
(stainless steel, bronze, etc.)
Type of well: Straight screen ☐ Gravel packed ☒
Depth grouted: From 86-0 To ____ #10 Silica
Grouting Material: Cement ____ Other X
If other explain: Betonite Chips
Well head completion: Pitless unit No
12" above grade 30.88 Other ____
If other, specify ____
Was pump installed: ☐ Yes ☒ No
Was well disinfected upon completion? ☒ Yes ☐ No

7. WATER LEVEL
Static water level 93.83 feet below surface
If flowing: closed-in pressure ____ psi
GPM flow ____ through ____ inch pipe
Controlled by: ☐ Valve ☐ Reducers ☐ Other
If other, specify ____

8. WELL TEST DATA
☐ Pump ☐ Bailer ☒ Other Air
Pumping level below land surface:
____ ft. after ____ hrs. pumping N/A gpm
____ ft. after ____ hrs. pumping ____ gpm
____ ft. after ____ hrs. pumping ____ gpm

9. WELL LOG

Formation	Depth (ft.) From	To
Top	0	2
Spoil	2	97

(Use separate sheet if necessary)

10. DATE COMPLETED 6-22-99

11. WAS WELL PLUGGED OR ABANDONED?
☐ Yes ☒ No
If so, how ____

12. REMARKS:
100# 's Silica
1 Bucket Gravel
14 Bags Grout II 16 Bags Chips

13. DRILLER'S CERTIFICATION
This well was drilled under my jurisdiction and this report is true to the best of my knowledge.
Earth Energy & Water Systems 153
Driller's or Firm's Name Certificate No
3890 Judson St. New Salem, ND 58563
Address
Signed by 7-27-99 Date

WHITE-DRILLER'S COPY YELLOW-BOARD'S COPY PINK-CUSTOMER'S COPY

Holweger, Todd L.

From: Shannon Mikula <smikula@minnkota.com>
Sent: Tuesday, December 8, 2020 5:03 PM
To: Holweger, Todd L.
Cc: Lee Parker; Amanda Livers; yardenia@kmstechnologies.com; Daniel Laudal
Subject: Affidavit of Notice
Attachments: SKM_C55820120817150.pdf; Notification-Seismic Survey(non-acess landowner)-KMS.doc; Notification-Seismic Survey(acess landowner)-CSEM.doc; 200m Preplot + New transmitter Location.pdf

Importance: High

Good evening, Todd,

Attached please find the Affidavit of Notice along with referenced attachments in support of KMS Technologies-KJT Enterprises Inc. permit for geophysical survey. The work is being performed as part of Project Tundra as the CarbonSafe Phase 3 Controlled Source Electromagnetic Survey.

The original signature will follow in the mail. If you have any questions or need additional information please let me know.

Best,
Shannon

Shannon R. Mikula
Special Projects Counsel
Minnkota Power Cooperative
5301 32nd Ave. S.
Grand Forks, ND 58201
Office: (701)795-4211
Email: smikula@minnkota.com
Web: minnkota.com