



**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)



PERMIT NAME (Required): GOLIATH 3-D

PERMIT NUMBER: 970209

AFFIDAVIT OF PLUGGING (HOLE PLUGGER)

STATE OF COLORADO)

)

COUNTY OF MESA)

Before me, MICHELLE R. SCHNEIDER a Notary Public in and for the said

County and State, this day personally appeared JEFFREY L. MACKEY


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

HELI-PORT DRILLING, INC., that (s)he has read North Dakota

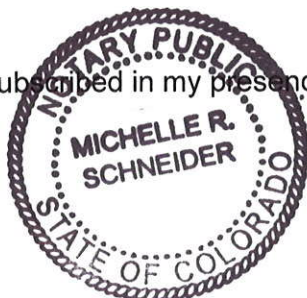
Century Code Section 38-08.1 and that the foregoing seismic project has been plugged in

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

the attached documents are true.

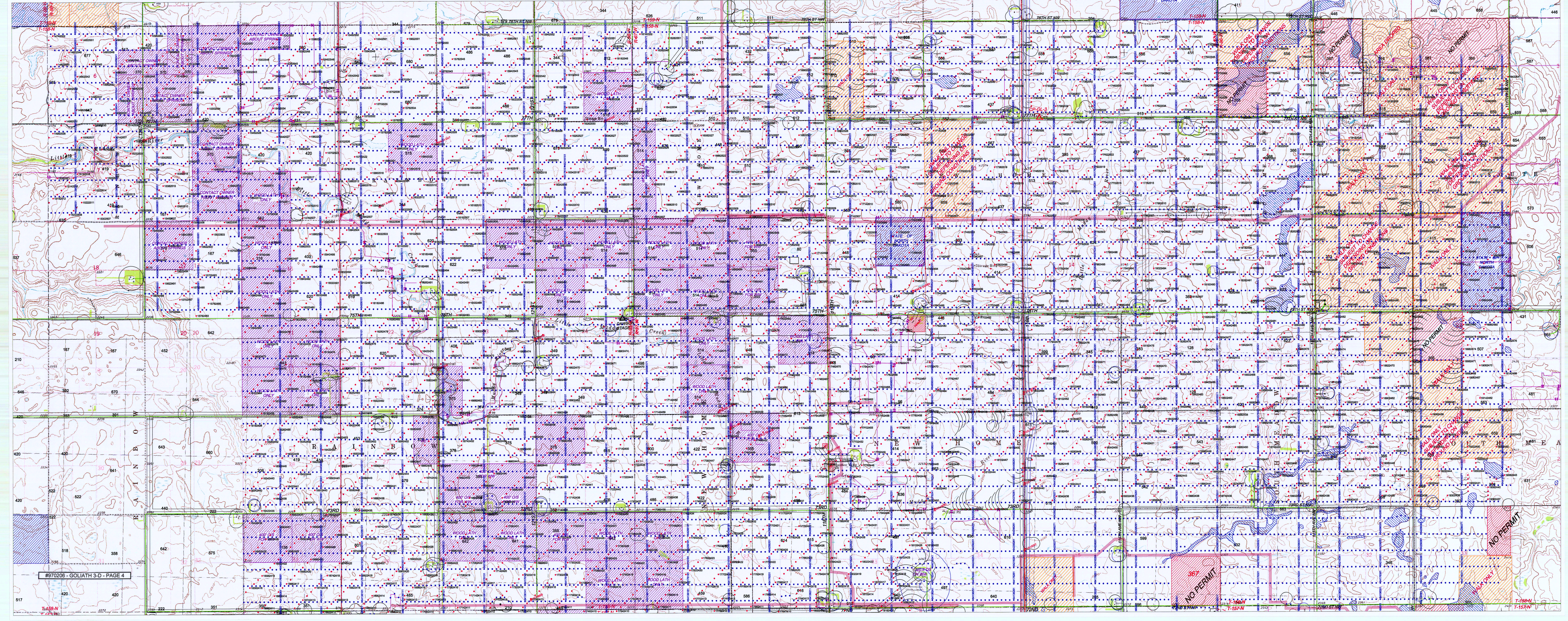

Hole Plugger Representative

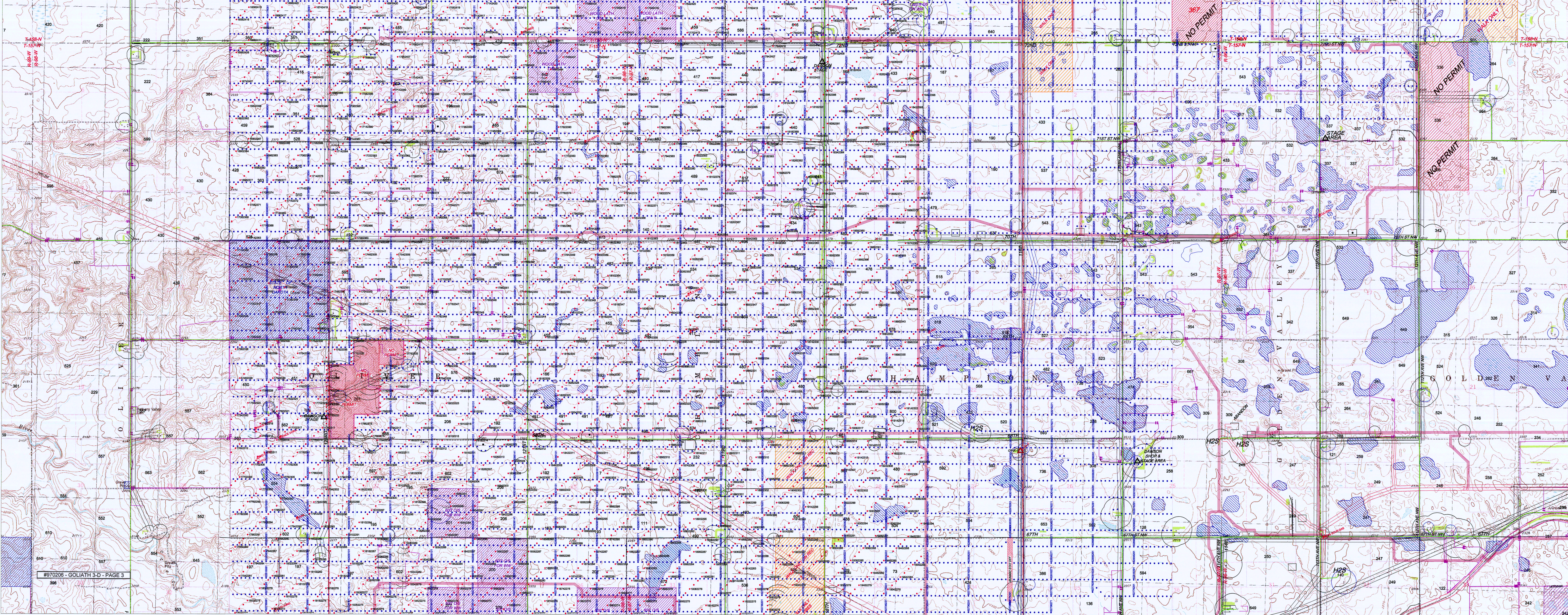
Subscribed in my presence and sworn before me this 23rd day of MAY, 2012

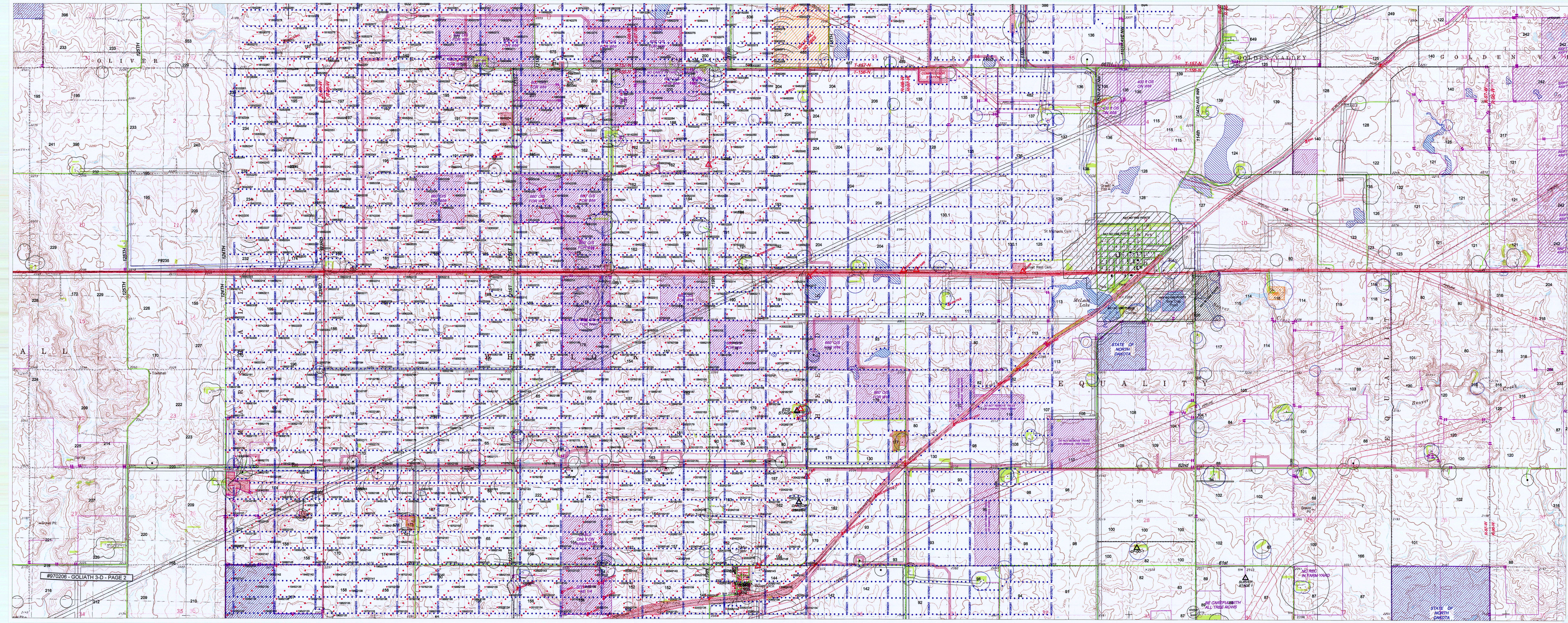


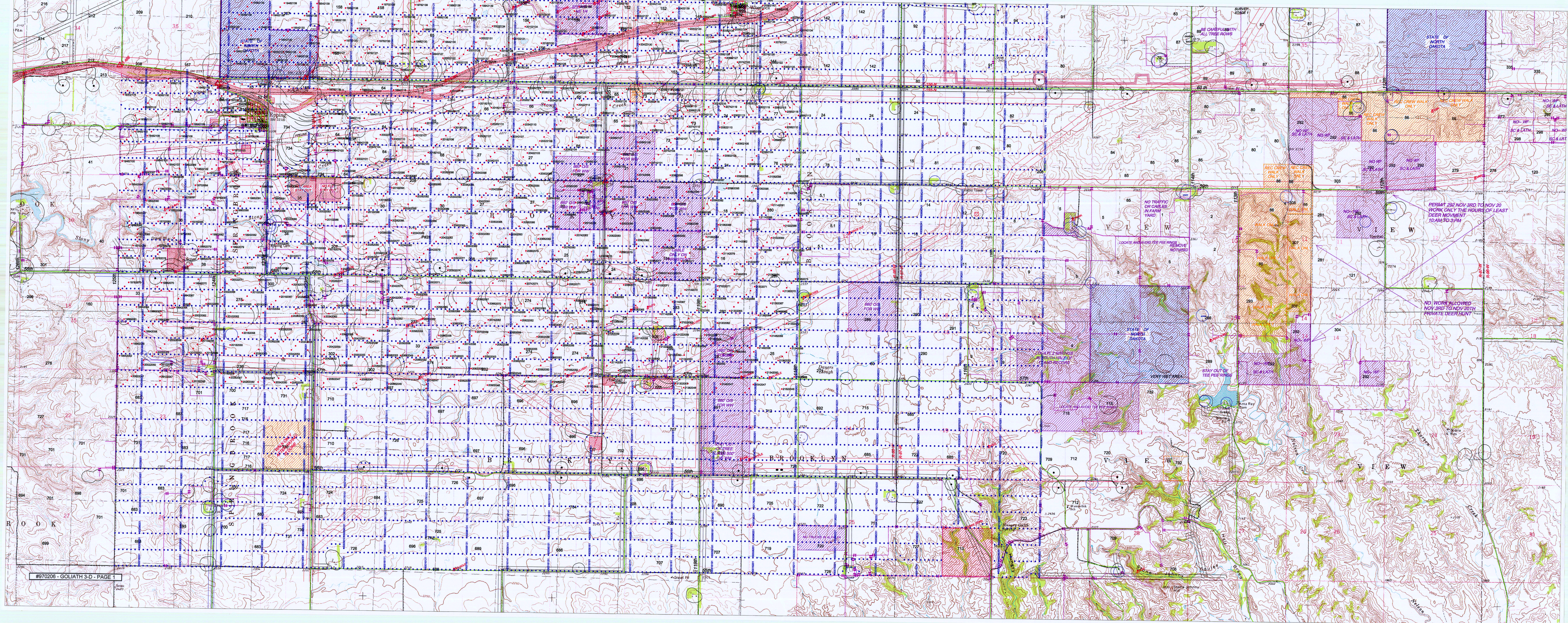
Notary Public 

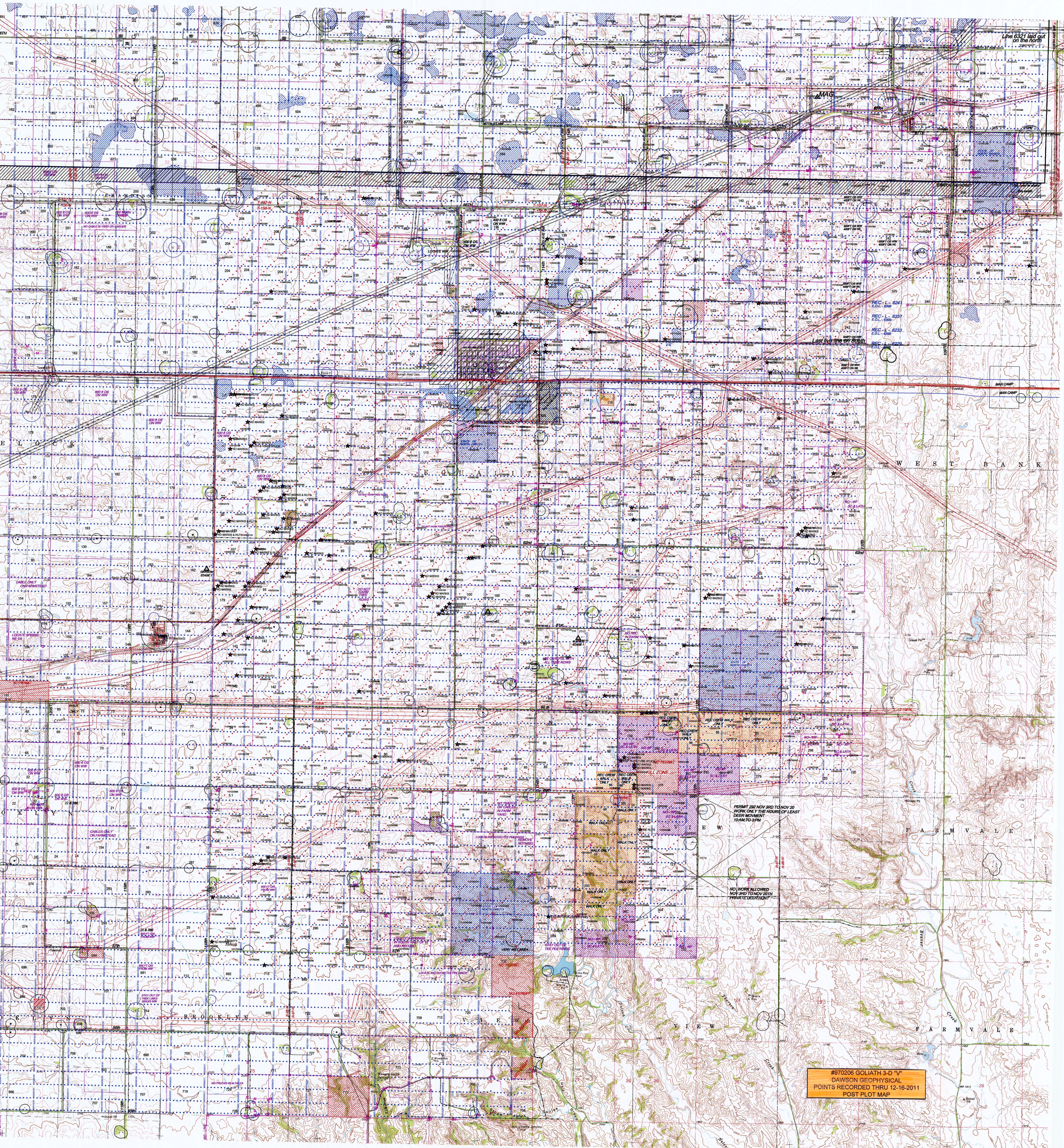
My Commission Expires 10/13/13











Holweger, Todd L.

From: zirschky@dawson3d.com
Sent: Monday, February 13, 2012 10:26 AM
To: Holweger, Todd L.; ZANE ZIRSCHKY
Subject: Re: Goliath 3-D

Todd

The recording crew will be laying out on this job around March 3rd and start shooting around the 8th. The drill crew will be completed drilling around March 14th

After the recording crew has completed shooting off all of the shot hole around the end of March they will pick up and leave the prospect and will not return till sometime in June.

Sorry for any misunderstanding, if you have any questions please don't hesitate to call

Zane
303-720-2229
Sent via BlackBerry by AT&T

From: "Holweger, Todd L." <tholweger@nd.gov>
Date: Mon, 13 Feb 2012 08:54:43 -0600
To: Zane (zirschky@dawson3d.com)<zirschky@dawson3d.com>
Cc: Torstenson, Tomas V.<ttorstenson@nd.gov>
Subject: Goliath 3-D

Zane,
It is my understanding that the cap leads on this project are not buried. Based on this fact, I'm assuming that recording will take place immediately after drilling has ceased. Due to the fact that the cap leads are not buried, the NDIC will not allow suspension of the project.

Please respond with an estimated timeframe of when recording will take place.

Thank You.
Todd L. Holweger
Mineral Resources Permit Manager
NDIC, DMR, Oil and Gas Div.
(701) 328-8024
<https://www.dmr.nd.gov/oilgas/>

Approved via FM 4 on 12/15/2011 due to the fact that "there will be no visible indicators on the surface"

**GEOPHYSICAL EXPLORATION SUNDRY NOTICE - FORM GE 4**

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 51458 (03-2011)

PERMIT # **97-0206**

Project Name

GOLIATH 3D

County

WILLIAMS COUNTY

Supplemental Information

SEE ATTACHMENT:**GOLIATH 3D SUMMARY OF SHOT HOLE OPERATIONS**

* Dawson must notify NDIC immediately of any changes to the enclosed suspension request.

PM

Company DAWSON GEOPHYSICAL COMPANY		Telephone Number 432-681-3000	
Address 508 WALL ST, STE 800			
City MIDLAND	State TX	Zip Code 79701	
Signature <i>Zane Zirschky</i>	Printed Name ZANE ZIRSCHKY		
Title PROJECT MANAGER	Date 11-22-2011		
Email Address ZIRSCHKY@DAWSON3D.COM			

FOR STATE USE ONLY

<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved *
Date 12/15/11	
By <i>Tom L. [Signature]</i>	
Title Resources Permit Manager	



Goliath 3D

Summary of Shot-Hole Operations

Total Square Miles: 85

Total Estimated Shot-Holes: 6,120

Drilling Operations estimated to begin mid-January with estimated completion date of mid-March of 2012.

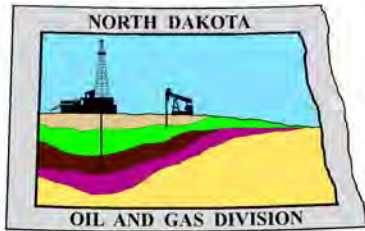
Recording Operations estimated to begin around the first of June.

The purpose of utilizing drill buggies and shot holes during the winter is to minimize impact on the surface while the ground is frozen and minimize damages in the spring and summer months from vibrator trucks. The areas in and around the Goliath 3D prospect have been especially wet this year due to excessive precipitation so we are giving the ground a month to freeze and will be using this time to re-contact landowners in regards to shot hole operations and for surveying the additional off-set distances required for shot-hole operations.

During this time, permit agents will be living and working daily within the area of shot-hole operations. Permit personnel are presently living within the towns of Ray, Tioga, and Wild Rose and will be meeting with landowners periodically up until all operations are complete. Landowners will be receiving notice letters of progress every 15 days and each individual landowner has already been assigned a permit agent to call regarding any questions or comments.

Drilling operations are estimated to take 90 days to complete the proposed 6,120 shot holes. Once drilling operations are completed, the shot holes will remain in the ground for a period of approximately 90 days. Each shot point will be drilled to a depth of 50 feet and a 5.5-lbs Dbx charge will be placed at the bottom of the drill hole. After drilling and placing the shot, the hole will be backfilled with drill cuttings and bentonite as needed (according to the regulations of North Dakota); then a shot hole-plug will be placed in the hole. The cap leads will be concealed and buried 10 inches deep with a magnet and logged into GPS so they can be found by GIS and metal detection. There will be no visible indicators on the surface.

Recording operations are estimated to start around the beginning of June at this time the farming operations of the landowners should be near completion for spring seeding. Crew will have sufficient amount of equipment to lay out with the assistance of a helicopter to spot the equipment, the entire length of the seismic line. Ground crew members would walk along the receiver line, and manually connect cables and geophones. Seismic cable and attached geophones would be laid out by hand around each station in a pre-determined pattern. The geophones mounted on a four-inch spike would be placed into the soil using foot pressure. The crew member would then proceed on foot to the next station and repeat the process until the complete seismic line is laid out and its network of cable and geophones are in working order. After recording is completed all the equipment will be placed into the cache bags for the helicopter to retrieve along with any flagging used before leaving the area.



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.oilgas.nd.gov

MAY 24, 2011

Mr. Zane Zirschky
Dawson Geophysical Company
508 WEST WALL STREET
STE 800
MIDLAND, TX 79710

RE: GOLIATH 3-D
GEOPHYSICAL EXPLORATION PERMIT # 970206
WILLIAMS COUNTY
NON EXPLOSIVE METHOD

Dear Mr. Zirschky:

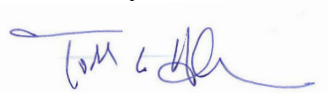
Please be advised that we are in receipt of your Geophysical Exploration permit application and it is conditionally approved; effective for one year from MAY 24, 2011. **PURSUANT TO NDAC 43-02-12-05 (DISTANCE RESTRICTION) non-explosive exploration method may not be conducted not less than 300 feet from a water well, building, underground cistern, pipelines, and flowing spring.** Review the following conditions for your permit:

1. A pre-program meeting with state seismic inspector Tom Torstenson may be 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. SD card or email: ttorstenson@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. The following information must be submitted within 30 days of the completion of the project by the SUBCONTRACTOR(s) (when applicable):
 - a. Plugging Report
 - b. Plugging Affidavit

5. 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.
6. 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.
7. 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/>
8. 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,

A handwritten signature in blue ink, appearing to read "Todd L. Holweger", is written over a light blue rectangular background.

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 Dawson Geophysical Co		Address 508 W Wall, Ste 800, Midland, TX 79701	
Contact Zane Zirschky		Telephone (432) 681-3000	Fax (432) 684-3030
Surety Company U.S. Specialty Ins. Co.		Bond Amount \$50,000	Bond Number B005272
2) a. Subcontractor(s)		Address	
b. Subcontractor(s)		Address	
3) Party Manager Zane Zirschky		Address (local) 6855 S. Havanna, Ste. 500, Centennial	
4) Project Name or Line Numbers Goliath 3D		Telephone (local) (303) 723-0440	
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D, Other) 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 3-D NA	Amt of Charge NA	Depth NA	Source points per sq. mi. 75
Size of Hole 2-D NA	Amt of Charge NA	Depth NA	Source points per ln. mi. NA
8) Approximate Start Date June 1, 2011		Approximate Completion Date December 31, 2011	

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

9) Location of Proposed Project - County Williams County			
Section(s), Township(s) & Range(s)	Section Please see attachment	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.			Date
Signature 	Printed Name Mike Granger	Title Permit Agent	
Email Address(es) mrpermits@live.com			

(This space for State office use)		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.
Permit No. 97-0206	Approval Date 5/24/11	
Approved by 		
Title Mineral Resources Permit Manager		

*See Instructions On Reverse Side

Attachment to Geophysical Exploration Permit Form GE1

Dawson Geophysical Company, GOLIATH 3D

Williams County

TOWNSHIP	RANGE	SECTIONS
- 159	96	7, 18, 19; 30 - 34
- 159	97	7 - 36
- 159	98	7 - 36
- 159	99	12, 13, 24, 25, 36
✓ 158	96	3 - 10; ¹⁵ 10 - 22; 27 - 33
- 158	97	1 - 36
✓ 158	98	1 - 36
- 158	99	1, 12, 13, 24, 25, 36
- 157	96	4 - 10; 15 - 36
- 157	97	1 - 36
- 157	98	1 - 36
- 157	99	1, 12, 13, 24, 25, 36
- 156	96	3 - 7; 18, 19, 30, 31
- 156	97	1 - 36
- 156	98	1 - 36
- 156	99	1 - 4; 9 - 16; 21 - 28; 33 - 36
- 155	96	6
✓ 155	97	^{21 28} 1 - 11; 14 - 23 ; 26 - 30
- 155	98	1 - 30
✓ 155	99	²⁷ 1 - 4; 9 - 16; 21 - 28



Oil and Gas Division

Lynn D. Helms - Director

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North Dakota Industrial Commission

www.oilgas.nd.gov

MAY 24, 2011

The Honorable Beth Innis
Williams County Auditor
P.O. Box 2047
Williston, ND 58802-2047

RE: Geophysical Exploration Permit #97-0206

Dear Ms. Innis:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that DAWSON GEOPHYSICAL was issued the above captioned permit on MAY 24, 2011 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
DMR Permit Manager

GOLIATH 3D

JOB: 12311

HESS CORPORATION

SURFACE MAP
WILLIAMS COUNTY, ND

5-4-2011



pre plot map 970206

