

Camp Dominic Savio

Boat Ramp

Campground

Picnic Area

Picnic Area

Picnic Area

Scoria Pits

Scoria Pits

FORT STEVENSON

MILITARY RESERVATION

Pick City

Scoria Pit

Picnic Area

Intake

Public Use Area

#970232 MERCER 2-D TEST

Powerplant

6



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

SEPTEMBER 5, 2012

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

RE: MERCER 2-D TEST
 GEOPHYSICAL EXPLORATION PERMIT # 97-0232
 MERCER 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 SEPTEMBER 5, 2012. **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 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. 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,



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		Telephone	
b. Subcontractor(s)		Address		Telephone	
3) Party Manager Zane Zirschky		Address (local) 6855 S. Havana, Ste. 500 Centennial, ND		Telephone (local) (303) 723-0440	
4) Project Name or Line Numbers Mercer 2D Test					
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D, Other) Airgun-Mounted Boat					
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 NA	NA	NA	NA	NA	
Size of Hole	Amt of Charge	Depth	Source points per ln. mi.	No. of ln. mi.	
2-D NA	NA	NA	1 - NA	2	
8) Approximate Start Date September 15, 2012			Approximate Completion Date October 15, 2012		

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

9) Location of Proposed Project - County Mercer				
Section(s), Township(s) & Range(s)	Section	25, 34, 35	T. 147	R. 85
	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 August 22, 2012
Signature <i>Zane P. Zirschky</i>	Printed Name Zane P. Zirschky	Title Project Manager	
Email Address(es) zirschky@dawson3d.com			

(This space for State office use)	
Permit No. 97-0232	Approval Date 9/5/12
Approved by <i>John G. [Signature]</i>	
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

MERCER 2D TEST

To acquire a seismic exploratory permit from the ACOE for upcoming Stony Creek project, Hess Corporation has partnered with the Army Core of Engineers and US Fish & Wildlife for a study of effects on fish by air-gun mounted water craft. This test will be conducted via one source point located in the river near Pick City and a receiver line of geophones will be positioned along the highway right of way as depicted on the map. The geophones will be used to record test data to determine air-gun source energy dissipation as it travels through the various surface strata.

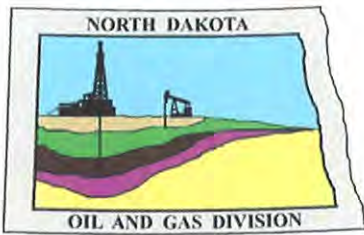
Holweger, Todd L.

From: Matthew Michaeli <mmichaeli1978@yahoo.com>
Sent: Tuesday, September 04, 2012 6:03 PM
To: Holweger, Todd L.
Cc: Zane Zirschky; Bill Michaeli
Subject: Mercer 2D Test Seismic Air Gun Schematic "Sleeve Gun"
Attachments: SleeveGun_PS_080108_rev1.pdf

Todd,

Please find a detailed attachment showing the airgun from Seismic Equipment Solutions that will be utilized for the 2D test. The test itself will be one single source point with the air gun array ramping up to 4 energy source levels starting with a 1 shot, a 2 shot array, a 3 shot array, and ending with a 4 shot array over the same source point.

Please let us know if you need anything else.



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

September 5, 2012

The Honorable Monte Erhardt
Mercer County Auditor
P.O. Box 39
Stanton, ND 58571-0039

RE: Geophysical Exploration
Permit #97-0232

Dear MR. ERHARDT:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that DAWSON GEOPHYSICAL COMPANY issued the above captioned permit on SEPTEMBER 5, 2012 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.

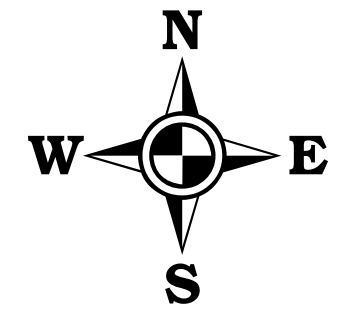
Sincerely,

Todd L. Holweger
DMR Permit Manager

Mercer 2D Test

Hess Corporation
Mineral Permit Map

08-28-2012



Legend

 Source Point

 Receiver Point

 Permitted

 Contacted

