



July 16, 2020

Todd Holweger
North Dakota Industrial Commission
Oil and Gas Division
600 East Boulevard, Department 405
Bismarck, ND 58505

Dear Mr. Holweger,

Oasis Petroleum North America LLC ("Oasis") owns, and effective beginning on the date of this letter desires to assume bonding responsibilities for, the geophones originally installed by MicroSeismic, Inc., located in Williams County, North Dakota, and which are more particularly described within NDIC Geophysical Permit Number 970215 (the "Array").

Oasis respectfully requests: (1) the NDIC release the original bond delivered by MicroSeismic, Inc. with respect to the Array and (2) the NDIC amend the permit and related records to evidence ownership of the Array by "Oasis Petroleum North America LLC" and (3) the NDIC accept the enclosed seismic bond number SUR0061635 with respect to the Array.

As the owner of the Array, Oasis acknowledges its responsibility to maintain the Array (and when applicable, decommission the Array) in accordance with applicable law. The Array's measurement equipment is currently installed, but is not being utilized. Prior to utilizing the array, Oasis would need to mobilize and install applicable data acquisition equipment. At the NDIC's request, Oasis would provide notice to the NDIC prior to mobilizing the data acquisition components of the Array.

If you have any questions or concerns, please do not hesitate to contact us directly at the contact listed below.

Thank you for your time and consideration,

A handwritten signature in blue ink that reads "JKnaebel".

Jay Knaebel
Vice President, Williston Business Unit
Oasis Petroleum North America LLC
1001 Fannin Ste. 1500
Houston, TX 77002
Ph: (281) 404-9640

Enc: Bond SUR0061635

**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 51468 (03-2011)

PERMIT # 970215

Project Name

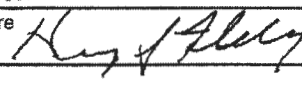
Oasis BA #30ND0000BA

County

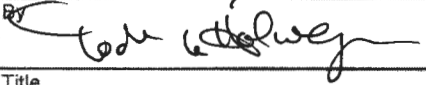
Williston, North Dakota

Supplemental Information

MicroSeismic,s process is designed specifically to monitor activity in and around the wellbore darning wells stimulation. There will be approximately 115 well monitoring stations on this project. There will be battery boxes and recording box on each station. It appears that not all of the stations will be active at once. There will be no cable used on this project. MSI is obtaining permission from all surface owners before entering their surface.

Company MicroSeismic, Inc		Telephone Number 713 781-2323	
Address 10777 Westheimer Ste.500			
City Houston		State TX	Zip Code 77042
Signature 	Printed Name Henry Jake Fadeley 713 304-3044		
Title Representative MicroSeismic, Inc.	Date December 16, 2016		
Email Address hjfad@aol.com			

FOR STATE USE ONLY

<input checked="" type="checkbox"/> Received	<input type="checkbox"/> Approved
Date 12/28/16	
By 	
Title Mineral Resources Permit Manager	

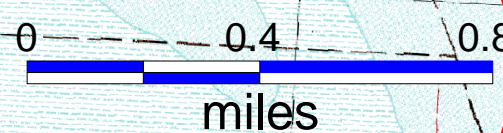
UTV Only
Stay close to fence lines
NO SNOW plowing
No driving on crops

Pipe line

**Core
Land
No Permit**

**No Access
No Permit**

**Walk
Only**



S A
ELEVATION 1838



**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): Oasis Buried Array

PERMIT NUMBER: 97-0215

AFFIDAVIT OF PLUGGING (HOLE PLUGGER)

STATE OF Texas)

COUNTY OF Midland)

Before me, Nancy A. Hanson a Notary Public in and for the said

County and State, this day personally appeared Dimas Gonzalez Jr.

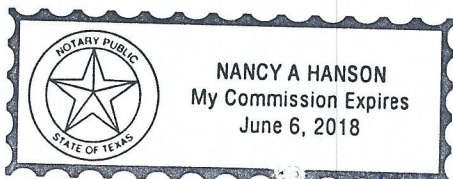
who being first duly sworn, deposes and says that (s)he is employed by

Micro Seismic, 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.

[Signature]
Hole Plugger Representative

Subscribed in my presence and sworn before me this 19 day of March, 2015.



Notary Public Nancy A. Hanson

My Commission Expires

6-6-18



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):

Oasis Burrell Array

PERMIT NUMBER:

97-0215

AFFIDAVIT OF COMPLETION (GEOPHYSICAL CONTRACTOR)

STATE OF

Texas

COUNTY OF

Midland

Before me,

Nancy A. Hanson

, a Notary Public in and for the said

County and State, this day personally appeared

Dimas Gonzalez Jr.

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

Micro Seismic

, 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.

[Signature]
Geophysical Contractor Representative

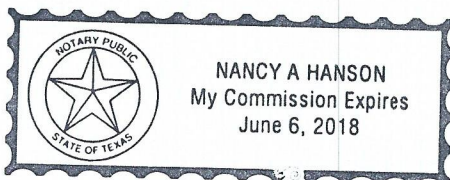
Subscribed in my presence and sworn before me this

19

day of

March

2015



Notary Public

[Signature]

My Commission Expires

6-6-18



Industrial Commission of North Dakota
Oil & Gas Division
600 East Blvd. Dept. 405
Bismarck, North Dakota 58505

Oasis Buried Array #97-0215

Dear, Mr. Todd Holweger,

We have contacted landowners during the permitting process to explain the project followed by the rules and guidelines that apply while performing the Buried Array project.

Best Regards,
Skye Jones

Permit Agent

Alstate Permit Services



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. 97-0215	
Shot Hole Operations no	*Non-Explosive Operations yes

SECTION 1

Geophysical Contractor MicroSeismic Inc.	
Project Name and Number Oasis Burried Array	County(s) Williams
Township(s) see Attached	Range(s) see attached
Drilling and Plugging Contractors Val's Drilling	
Date Commenced December 5, 2011	Date Completed January 31, 2012

SECTION 2

First S.P. # 129101	Last S.P. # 129201											
Loaded Holes (Undetonated Shot Points)												
S.P.#s												
Charge Size												
Depth												
Reasons Holes Were Not Shot												

SECTION 3

Flowing Holes and/or Blowouts S.P.#s none
Procedure for Plugging Flowing Holes and/or Blowouts see schematic
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).

Installation of Micro Seismic monitors in the Oasis BA

This project involves the installation of Micro Seismic monitors in 112 locations over an area as noted below and on the attached map. All specific locations will be approved by landowners and care will be taken to locate monitors where they will be easily accessible by Micro Seismic, Inc. technicians on a regular basis, and where they will not conflict with farming or ranching operations. Monitors will be in use for at least one year and up to five years.

Area of Monitor Installation:

Project area is in Williams County, North Dakota:

T154-R100-SEC 36, 35 34

T154-R99-SEC 31

**T153-R100-SEC 1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 22, 23,
24, 25, 26, 27, 34, 35, 36**

T153-R99-SEC 6, 7, 18, 19, 30, 31

T152-R100-SEC 3, 4, 5

Purpose of Monitors:

To record the sounds emitted when the reservoir is stimulated with high pressure fluid during the hydro fracturing procedures in the area. By mapping the spatial and temporal location of the points of sound emission in the reservoir and by relating these positions to the rate of fluid injection, much can be determined to improve the effectiveness of hydro fracturing.

Installation Process and Plugging Information:

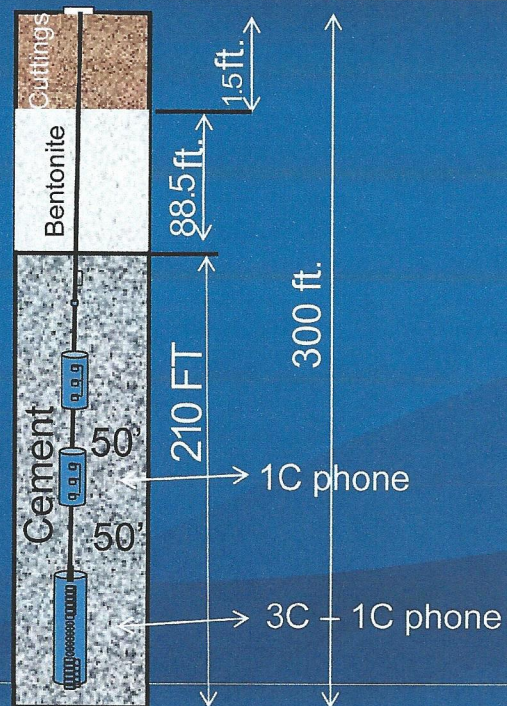
A 300' hole will be drilled (using conventional drill trucks) at each predetermined location as approved by landowners. The geophone string will be attached to a 1" PVC pipe and lowered in to the hole. The geophones are spaced 50' apart to a depth of 300' (with the top geophone located 150' below surface).

Once the geophones are installed they will be cemented in, using a light slurry of "Quick Crete" Portland cement pumped through the PVC to a level approximately 100 feet from the surface. The compressive strength of the cement will be 945 psi @ 140 deg After 72 hours. From past experience, it is expected to take 20 sacks of cement from 300 ft to 150ft. Once the cement is pumped the hole is temporarily plugged to allow the cement 24 hrs to set up. The cement will settle to the 150 foot level.

24 hrs later the temporary plug is removed and one bag of sand is added to assist in attenuating noise from above reaching the cemented area. The hole will then be filled with course bentonite to within 18 inches of the surface. A non metallic plug (which will have MSI scribed into the plug) will be inserted in to a depth of 18 inches. The hole will then be filled with cuttings to the surface. Cuttings will be spread out or removed

Geophone Installation

MicroSeismic Inc. proprietary information, which is PRIVILEGED, CONFIDENTIAL, or subject to COPYRIGHT belonging to MicroSeismic Inc





GEOPHYSICAL EXPLORATION HOLE PLUGGING REPORT - FORM GE 7A

INDUSTRIAL COMMISSION OF NORTH DAKOTA

OIL AND GAS DIVISION

600 EAST BOULEVARD DEPT 405

BISMARCK, ND 58505-0840

SFN 51457 (03-2011)

Geophysical Company MicroSeismic Inc.	Date Plugged January 31, 2012
Hole Plugging Contractor Val's Drilling	Permit No. 97-0215
Prospect Oasis Burried Array	Hole Plugger Val's Drilling

Line No.	S.P. No.	Hole Depth	Drill Type *CABP	Wet/ Dry	Bent. Sx	Bent. Capsules	Capsule Size**	Surface Plug Depth	Remarks Hole Bridged, Thick Mud, Etc.
1	see	attached document							
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

*Conventional-Auger-Buggy-Portable

**Diameter X Length

OASIS BA MASTER DRILL LOG

HOLE #	DRILLER	DATE	DEPTH	CEMENT	Bentonite
115	116	116	116	116	116
129101	JESSE HOFER	17-Dec	300	9	7.0
129102	TIM HOFER	18-Dec	300	9	6.0
129103	TIM HOFER	18-Dec	300	9	4.5
129104	JESSE HOFER	16-Dec	300	9	14.0
129105	JESSE HOFER	17-Dec	300	9	9.0
129106	JESSE HOFER	18-Dec	300	9	11.0
129107	JESSE HOFER	18-Dec	300	9	7.0
129108	JESSE HOFER	16-Dec	300	9	7.5
129109	JESSE HOFER	16-Dec	300	9	7.5
129110	JESSE HOFER	16-Dec	300	9	10.0
129111	JESSE HOFER	17-Dec	300	9	7.0
129112	JESSE HOFER	18-Dec	300	9	7.0
129113	TIM HOFER	17-Dec	300	9	8.5
129114	JESSE HOFER	15-Dec	300	9	1.0
129115	JESSE HOFER	15-Dec	300	9	8.0
129116	TIM HOFER	14-Dec	300	9	8.0
129117	TIM HOFER	14-Dec	300	9	5.0
129118	TIM HOFER	15-Dec	300	10	6.0
129119	JESSE HOFER	31-Jan	300	9	7.0
129120	TIM HOFER	17-Dec	300	9	10.0
129121	TIM HOFER	17-Dec	300	9	9.0
129122	JESSE HOFER	15-Dec	300	9	6.0
129123	TIM HOFER	14-Dec	300	9	7.0
129124	JESSE HOFER	13-Dec	300	9	6.0
129125	JESSE HOFER	13-Dec	300	9	8.0
129126	JESSE HOFER	31-Jan	300	9	7.0
129127	TIM HOFER	18-Dec	300	9	7.5
129128	JESSE HOFER	11-Dec	300	9	8.0
129129	JESSE HOFER	15-Dec	300	9	6.0

129130	TIM HOFER	19-Dec	300	9	8.5
129131	JESSE HOFER	13-Dec	300	9	8.0
129132	JESSE HOFER	13-Dec	300	9	6.0
129133	TIM HOFER	14-Dec	300	9	8.5
129134	TIM HOFER	13-Dec	300	9	9.0
129135	TIM HOFER	16-Dec	300	9	6.0
129136	TIM HOFER	17-Dec	300	9	7.0
129137	JESSE HOFER	11-Dec	300	9	6.0
129138	TIM HOFER	19-Dec	300	9	6.0
129139	JESSE HOFER	18-Dec	300	9	7.0
129140	JESSE HOFER	12-Dec	300	9	8.0
129141	JESSE HOFER	12-Dec	300	9	7.5
129142	TIM HOFER	13-Dec	300	9	9.0
129143	JESSE HOFER	11-Dec	300	9	7.0
129144	JESSE HOFER	11-Dec	300	9	7.5
129145	JESSE HOFER	10-Dec	300	9	5.5
129146	JESSE HOFER	10-Dec	300	9	5.0
129147	JESSE HOFER	12-Dec	300	9	7.0
129148	TIM HOFER	12-Dec	300	9	6.0
129149	TIM HOFER	13-Dec	300	9	6.0
129150	TIM HOFER	13-Dec	300	9	5.0
129151	TIM HOFER	16-Dec	300	9	7.0
129152	TIM HOFER	16-Dec	300	9	7.0
129153	TIM HOFER	15-Dec	300	9	6.0
129154	JESSE HOFER	10-Dec	300	9	8.0
129155	TIM HOFER	12-Dec	300	9	8.0
129156	TIM HOFER	12-Dec	300	9	6.0
129157	TIM HOFER	12-Dec	300	9	7.0
129158	TIM HOFER	11-Dec	300	9	8.0
129159	TIM HOFER	15-Dec	300	9	7.0
129160	TIM HOFER	16-Dec	300	9	7.0
129161	JESSE HOFER	28-Dec	300	9	6.0
129162	JESSE HOFER	10-Dec	300	9	7.0
129163	TIM HOFER	11-Dec	300	9	8.0
129164	TIM HOFER	11-Dec	300	9	9.0
129165	TIM HOFER	11-Dec	300	9	8.0
129166	JESSE HOFER	19-Dec	300	9	7.0

129167	JESSE HOFER	19-Dec	300	9	7.0
129168	JESSE HOFER	19-Dec	300	9	7.0
129169	JESSE HOFER	14-Dec	300	9	6.0
129170	JESSE HOFER	6-Dec	300	8	9.0
129171	JESSE HOFER	6-Dec	300	8	6.0
129172	JESSE HOFER	6-Dec	300	8	9.0
129173	JESSE HOFER	6-Dec	300	8	9.5
129174	TIM HOFER	7-Dec	300	8	8.0
129175	TIM HOFER	6-Dec	300	8	8.5
129176	JESSE HOFER	14-Dec	300	9	7.0
129177	JESSE HOFER	14-Dec	300	9	8.5
129178	JESSE HOFER	7-Dec	300	8	7.0
129179	JESSE HOFER	7-Dec	300	8	8.0
129180	JESSE HOFER	5-Dec	300	8	8.0
129181	JESSE HOFER	5-Dec	300	8	7.0
129182	TIM HOFER	5-Dec	300	8	9.0
129183	TIM HOFER	10-Dec	300	9	6.0
129184	JESSE HOFER	14-Dec	300	9	6.0
129185	JESSE HOFER	9-Dec	300	8	7.0
129186	TIM HOFER	7-Dec	300	8	6.0
129187	TIM HOFER	7-Dec	300	8	8.0
129188	TIM HOFER	#####	300	8	7.0
129189	TIM HOFER	10-Dec	300	9	8.0
129190	TIM HOFER	6-Dec	300	8	6.0
129191	TIM HOFER	5-Dec	300	8	7.0
129192	JESSE HOFER	9-Dec	300	11	14.0
129193	JESSE HOFER	9-Dec	300	9	6.0
129194	JESSE HOFER	9-Dec	300	8	8.0

129195	JESSE HOFER	7-Dec	300	8	8.0
129196	JESSE HOFER	7-Dec	300	8	6.5
129197	JESSE HOFER	10-Dec	300	9	10.5
129198	TIM HOFER	9-Dec	300	8	10.0
129199	TIM HOFER	6-Dec	300	8	7.0
129200	TIM HOFER	10-Dec	300	9	6.0
129201	JESSE HOFER	8-Dec	300	8	8.0
129202	JESSE HOFER	8-Dec	300	8	7.0
129203	JESSE HOFER	8-Dec	300	8	7.0
129204	TIM HOFER	8-Dec	300	8	7.0
129205	TIM HOFER	8-Dec	300	8	7.0
129206	TIM HOFER	9-Dec	300	8	8.0
129207	TIM HOFER	9-Dec	300	10	6.0
129208	JESSE HOFER	8-Dec	300	8	7.0
129209	TIM HOFER	8-Dec	300	8	7.0
129210	TIM HOFER	8-Dec	300	8	5.5
129211	TIM HOFER	9-Dec	300	8	6.0
129212	TIM HOFER	10-Dec	300	9	7.0
129213	JESSE HOFER	31-Jan	300	9	8.0
129214	JESSE HOFER	31-Jan	300	9	6.0
129215	JESSE HOFER	31-Jan	300	9	7.5
129211	JESSE HOFER	12-Dec	300	9	7.5

#970215 OASIS BURIED ARRAY
POST PLOT MAP

Oasis Ba

UTV Only
Stay close to fence lines
NO SNOW plowing
No driving on crops

Pipe line

Core Land
No Permit

No Access
No Permit

Walk Only

0 0.4 0.8
miles





GEOPHYSICAL EXPLORATION SUNDRY NOTICE - FORM GE-4
INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
800 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 51458 (03-2011)



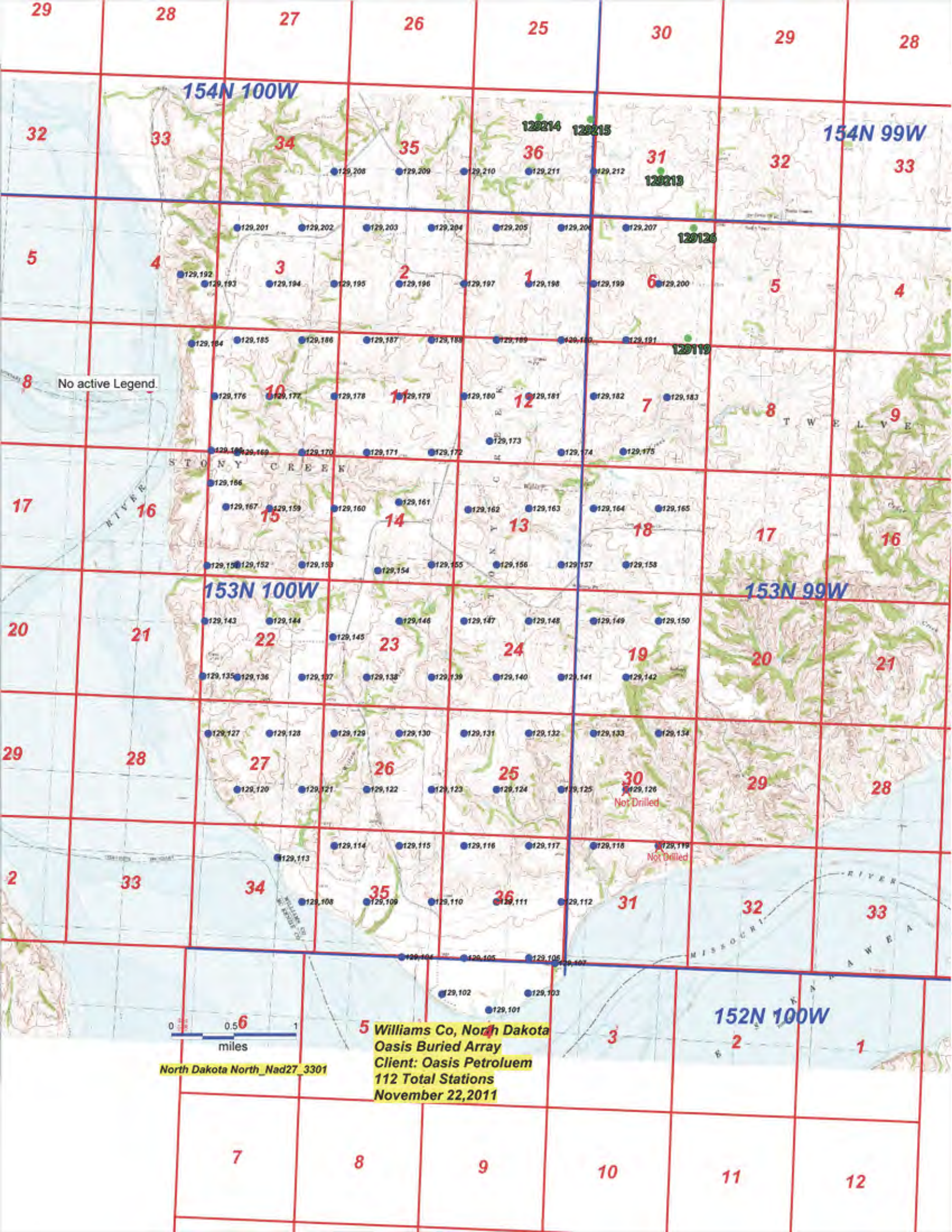
PERMIT #

97-0215

Project Name Oasis Buried Array
County Williams County
Supplemental Information <p>Please note revised map. On our original map, hole # 129119 located on 153N 99W section31 was not drilled due to rough terrain and limited access. This hole was relocated north to 153N 99W section 6. see attached map.</p> <p>On our original map hole # 129126 located on 153N 99W section30 was not drilled due to rough terrain and limited access. This hole was relocated north to 153N 99W section 6. see attached map.</p> <p>Our original project was for 112 holes and we would like to add an additional 3 holes to the project giving us a total of 115 holes for the Oasis Buried Array.</p> <p>Hole 129213 located on 154N 99W section 36 Holes 129214 and 129215 located on 154N100W section 36</p> <p>See attached map all new locations are marked with a green icon.</p>

Company MicroSeismic, Inc.		Telephone Number (432) 238-9700	
Address 1300 West Sam Houston Parkway South, Suite 200,			
City Houston		State Texas	Zip Code 77042
Signature 		Printed Name Dimas Gonzalez	
Title Sr. Project Manager		Date January 23, 2012	
Email Address dgonzalez@microseismic.com			

FOR STATE USE ONLY	
<input type="checkbox"/> Received	<input checked="" type="checkbox"/> Approved
Date 1/23/12	
By 	
Title Project Manager	



No active Legend.

0 0.5 1
miles

North Dakota North_Nad27_3301

5 Williams Co, North Dakota
Oasis Buried Array
Client: Oasis Petroleum
112 Total Stations
November 22, 2011

Not Drilled

Not Drilled

**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 MicroSeismic, Inc.		Address 1300 West Sam Houston Parkway South, Suite 200, Houston, TX. 77042			
Contact Dimas Gonzalez		Telephone (432) 238-9700		Fax (713) 781-2326	
Surety Company U.S. Specialty Insurance Company		Bond Amount \$50,000		Bond Number B005315	
2) a. Subcontractor(s) Allstate Permit Services, LP		Address 5646 Milton St, Suite 608A, Dallas, TX		Telephone (214) 212-1524	
b. Subcontractor(s) Val's Drilling		Address 186 Dawn Dr, Columbia Falls, MT 59914		Telephone (403) 226-0572	
3) Party Manager Terry Dejaiffe		Address (local) TBD		Telephone (local) (607) 377-2036	
4) Project Name or Line Numbers Oasis BA					
5) Exploration Method (Shot Hole, Non-Explosive, 2D, 3D, Other) Burried geophone monitors at specific locations within project areas. See attached detailed description.					
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 300'	Source points per sq. mi. na	No. of sq. mi. 22	
Size of Hole 2-D	Amt of Charge	Depth	Source points per ln. mi.	No. of ln. mi.	
8) Approximate Start Date December 1, 2011			Approximate Completion Date December 1, 2016		

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

9) Location of Proposed Project - County Williams County (see attached details)			
Section(s), Township(s) & Range(s)	Section	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 November 22, 2011
Signature 	Printed Name Skye Jones	Title Contract permit Agent	
Email Address(es) dgonzalez@microseismic.com,skyejones2011@gmail.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. 970215	Approval Date 11/28/11	
Approved by 		
Title Lead Resource Permit Manager		

*See Instructions On Reverse Side

Installation of Micro Seismic monitors in the Oasis BA

This project involves the installation of Micro Seismic monitors in **112** locations over an area as noted below and on the attached map. All specific locations will be approved by landowners and care will be taken to locate monitors where they will be easily accessible by Micro Seismic, Inc. technicians on a regular basis, and where they will not conflict with farming or ranching operations. Monitors will be in use for at least one year and up to five years.

Area of Monitor Installation:

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T154-R100-SEC 36, 35 34

T154-R99-SEC 31

**T153-R100-SEC 1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 22, 23,
24, 25, 26, 27, 34, 35, 36**

T153-R99-SEC 6, 7, 18, 19, 30, 31

T152-R100-SEC 3, 4, 5

Purpose of Monitors:

To record the sounds emitted when the reservoir is stimulated with high pressure fluid during the hydro fracturing procedures in the area. By mapping the spatial and temporal location of the points of sound emission in the reservoir and by relating these positions to the rate of fluid injection, much can be determined to improve the effectiveness of hydro fracturing.

Installation Process and Plugging Information:

A 300' hole will be drilled (using conventional drill trucks) at each predetermined location as approved by landowners. The geophone string will be attached to a 1" PVC pipe and lowered in to the hole. The geophones are spaced 50' apart to a depth of 300' (with the top geophone located 150' below surface).

Once the geophones are installed they will be cemented in, using a light slurry of "Quick Crete" Portland cement pumped through the PVC to a level approximately 100 feet from the surface. The compressive strength of the cement will be 945 psi @ 140 deg After 72 hours. From past experience, it is expected to take 20 sacks of cement from 300 ft to 150ft. Once the cement is pumped the hole is temporarily plugged to allow the cement 24 hrs to set up. The cement will settle to the 150 foot level.

24 hrs later the temporary plug is removed and one bag of sand is added to assist in attenuating noise from above reaching the cemented area. The hole will then be filled with course bentonite to within 18 inches of the surface. A non metallic plug (which will have MSI scribed into the plug) will be inserted in to a depth of 18 inches. The hole will then be filled with cuttings to the surface. Cuttings will be spread out or removed

depending on the landowner's preference.

Surface Indications:

On the surface there will be a small vault that will be flush to the ground for the purpose of housing the geophone leads. There will be a sign installed on location indicating geophone buried-do not dig. The sign will also have Micro Seismic, Inc. contact information and client name.

During periods of data acquisition each geophone string is plugged in to a Remote Acquisition Unit (RAUL) used to digitize the analog geophone output. Each RAUL is approximately 6" x 6" x 10" in size, has a 12 volt external power supply and sits on the ground near the buried geophone string.

Four wheeled all-terrain vehicles (UTV's) such will be used for bulk equipment movement along approved roads and trails.

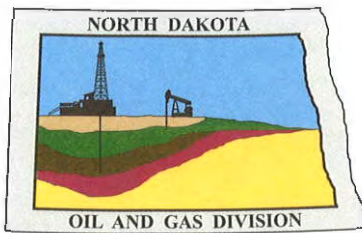
Some time in the future when the monitoring is completed, wire leads will be cut, signs removed and the surface will be restored to normal.

Upon Completion of Monitor Installation:

An inventory of locations will be done upon completion and landowners will be paid pursuant to the permit agreement.

The NDIC Oil & Gas Division will be provided;

A post-plot map showing actual monitor location installations and an SD Card with the Latitude and Longitude of each monitor location that is installed.



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

NOVEMBER 28, 2011

Mr. Dimas Gonzalez
MicroSeismic, Inc.
1300 West Sam Houston Parkway South
Suite 200
Houston, TX 77042

RE: OASIS BURIED ARRAY
GEOPHYSICAL EXPLORATION PERMIT # 97-0215
WILLIAMS COUNTY
NON EXPLOSIVE METHOD

Dear Mr. Gonzalez:


Please be advised that we are in receipt of your Geophysical Exploration (noise attenuation test) permit application and it is conditionally approved; effective for one year from NOVEMBER 28, 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 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,

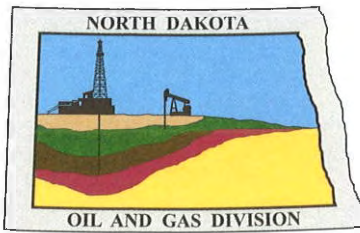
- e. Letter stating that the Geophysical Company has given all surface owner's a copy of the Section and Chapter of the NDCC as stated in paragraph 5.
4. The following information must be submitted within 30 days of the completion of the project by the SUBCONTRACTOR(s) (when applicable):
 - a. Plugging 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



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

NOVEMBER 28, 2011

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

RE: Geophysical Exploration
 Permit #97-0215

Dear Ms. Innis:

Pursuant to Section 38-08.1-04.2 of the North Dakota Century Code, please be advised that MICROSEISMIC, INC. was issued the above captioned permit on NOVEMBER 28, 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



Industrial Commission of North Dakota
Oil & Gas Division
600 East Blvd. Dept. 405
Bismarck, North Dakota 58505

RE: AllState Permit Services, LP, Contracted to MicroSeismic, Inc.

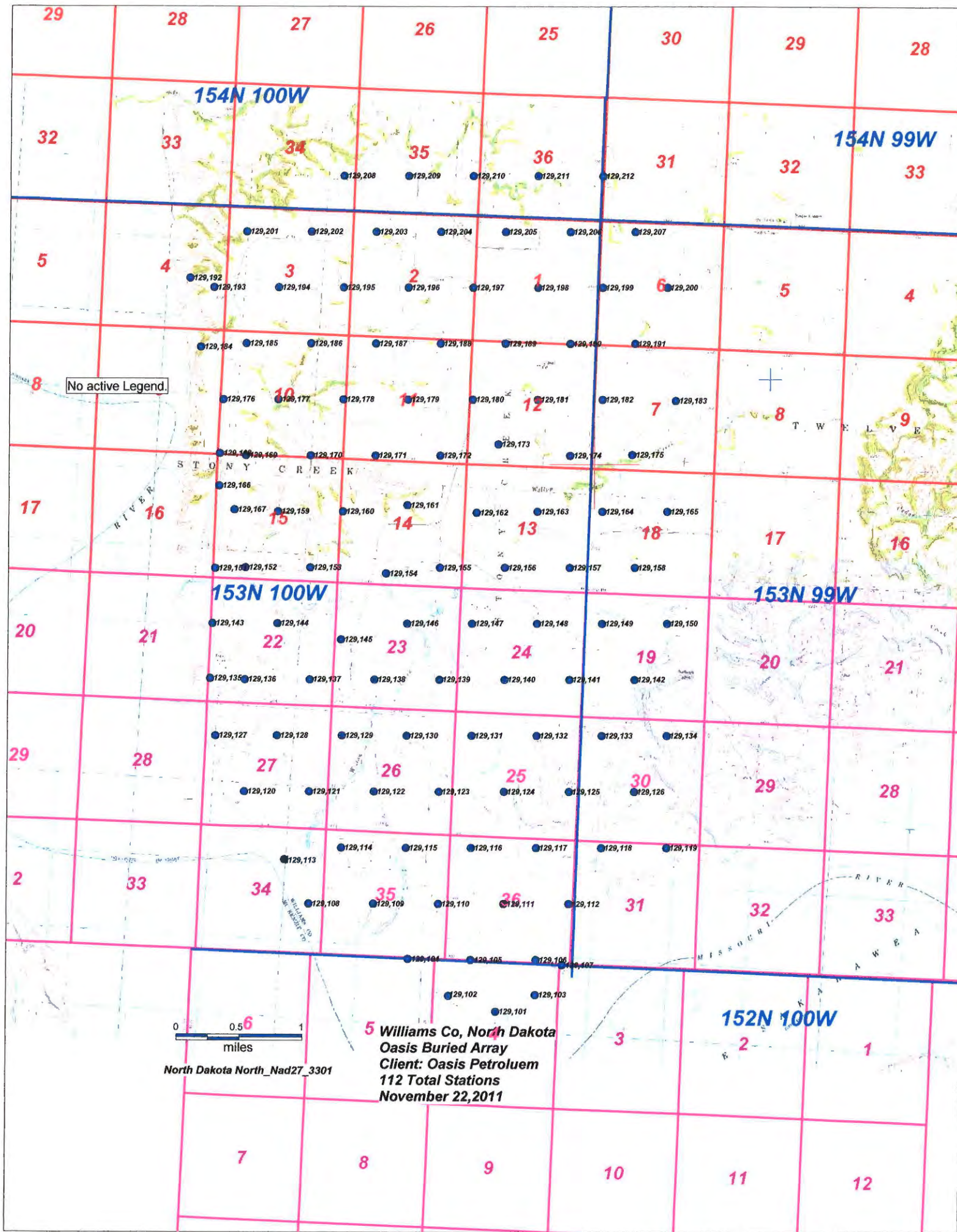
Dear, Mr. Todd Holweger,

We at MicroSeismic, Inc. are engaged in the process of conducting, a Buried Array Service, in Williams County, North Dakota. Our client Oasis Petroleum has contracted to MicroSeismic to Bury Geophones in the Ground and Monitor, their Fracing programs.

Microseismic has contracted Allstate Permit Services, LP to acquire permission from the surface Owners of the property were we will be placing the Buried Array. AllState Permitting, will obtain all permits for the surface, to bury the Geophones. Please call if you have questions. (713) 304-3044

Best Regards
Jake Fadeley

Permit Manager
MicroSeismic, Inc.



No active Legend.

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miles
North Dakota North_Nad27_3301

Williams Co., North Dakota
Oasis Buried Array
Client: Oasis Petroleum
112 Total Stations
November 22, 2011

