

Final Plan of Cooperation 2012 BeaufortSPANTM West

July 2012

Prepared for

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 ION Geophysical
 July 2012

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ACRONYMS AND ABBREVIATIONS

2D two-dimensional

AEWC Alaska Eskimo Whaling Commission

BOEM Bureau of Ocean Energy Management

CAA Conflict Avoidance Agreement

CFR Code of Federal Regulations

Com Center **Communication Center**

FLIR forward looking infrared

ft foot/feet

G&G Geological and Geophysical

ICAS Iñupiat Community of the Arctic Slope

IHA Incidental Harassment Authorization

ION **ION** Geophysical Corporation

km kilometer(s)

KSOP Kuukpikmiut Subsistence Oversight Panel, Inc.

LOA Letter of Authorization

m meter(s)

mi mile(s)

Marine Mammal Observer(s) MMO(s)

National Marine Fisheries Service **NMFS**

M/V Marine Vessel

POC Plan of Cooperation

SAR Search and Rescue

USFWS US Fish and Wildlife Service

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1.0 INTRODUCTION

ION Geophysical Corporation (ION) plans to conduct an exploratory two-dimensional marine seismic survey in the Beaufort Sea of Alaska during fall 2012 (2012 BeaufortSPANTM West Program). This program was originally proposed for fall of 2010 but was postponed to 2012 because of technical complications with the seismic vessel.

The program is planned for fall and early winter, in broken ice conditions from October 1, 2012, through December 15, 2012. The primary project area extends from the US/Canadian border in the east to Point Barrow in the west. Two shorter transect lines will extend west of Point Barrow into the Chukchi Sea and three short tie lines are proposed near the US/Russian border, as shown on Figure 1. The bathymetry of the proposed project area ranges from shallow (e.g., less than 65 feet [ft] / 20 meters [m]) to relatively deep (greater than 11,000 ft / 3,500 m) water over the continental shelf, the continental slope, and the abyssal plain.

Two vessels will be used for 2012 operations. The Marine Vessel (M/V) Geo Arctic will be the seismic source vessel; the M/V Polar Prince will act as the icebreaker vessel. The icebreaker will travel 0.5 to 1.0 kilometers (km) (0.3 to 0.6 miles [mi]) ahead of the source vessel to break and clear ice. There is no air support planned or necessary for the proposed activities.

For mitigation and operational reasons, the project area has been bisected by a line that runs from 70.5° N,150.5° W to 73° N, 148° W; the portion east of this line is referred to as the "Eastern Project Area" and the portion to the west is the "Western Project Area." The seismic survey vessels will enter the Eastern Project Area from Canadian waters and begin survey activities around October 1, 2012. Approximately November 1, 2012, the survey vessels will begin survey activities in the Western Project Area. Upon completion of the survey program, vessels will exit the Western Project Area and travel south through the Chukchi and Bering seas.

The survey has been timed to take place when most marine mammals will have migrated out of the project area. Starting the survey in the east allows a greater buffer with migrating marine mammals, because typical marine mammal migrations are from the east (Beaufort Sea) to the west (Chukchi Sea); therefore, it is expected that interference with marine mammal migrations will be minimized. The timing and location of the surveys are also designed to prevent conflicts with subsistence activities.

1.1 **Purpose**

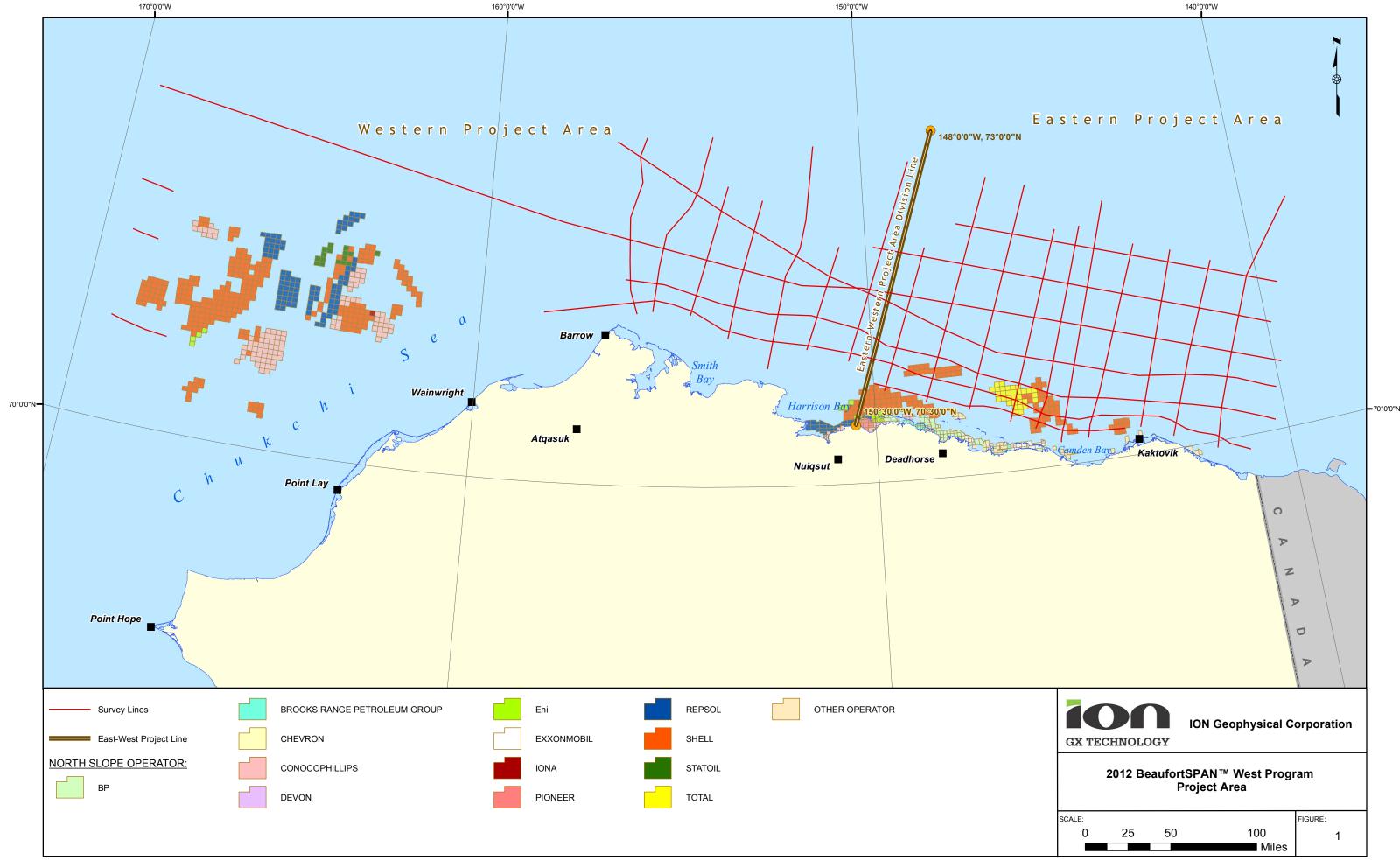
This Plan of Cooperation (POC) outlines the measures to avoid any potential conflicts between subsistence activities and the proposed 2012 BeaufortSPANTM West Program. A copy of the Draft POC was provided to affected communities in May 2012. Potential conflicts between the proposed offshore activities and subsistence activities were identified during leadership and public meetings held in 2009 – 2012 in Barrow, Nuiqsut, Kaktovik, and Wainwright. When appropriate, comments and questions regarding potential conflicts have been incorporated into this POC. A complete list of meetings can be found in Section 2.2.

1.2 **Permits**

Federal permit applications were submitted to the US Fish and Wildlife Service (USFWS), the National Marine Fisheries Service (NMFS), and the Bureau of Ocean Energy Management (BOEM). This section lists the permits required from the three agencies.

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1.2.1 National Marine Fisheries Service

To obtain an Incidental Harassment Authorization (IHA) from the NMFS, ION must demonstrate that it has developed a POC in accordance with federal regulations [50 Code of Federal Regulations [CFR] 216.104(a)(12)]. If the proposed activities will take place in or near traditional Arctic subsistence hunting areas and/or may affect the availability of a species or stock of marine mammals for subsistence use, the POC must identify what measures will be taken to minimize adverse impacts on the availability of whales and seals for subsistence use. At a minimum, the POC must include the following:

- A statement that the applicant has provided the affected communities with a Draft POC
- A schedule for meeting with the affected subsistence communities to discuss proposed activities and resolve potential conflicts related to proposed operations
- A description of the measures the applicant has taken, or will take, to ensure that the proposed activities will not interfere with subsistence hunting
- A plan to continue to meet with the affected subsistence communities, both before and during operations, to resolve conflicts and notify communities of operational changes

1.2.2 US Fish and Wildlife Service

To obtain a Letter of Authorization (LOA) from the USFWS for the nonlethal incidental take of Pacific walrus and polar bear, ION must demonstrate that it has developed a POC in accordance with 50 CFR 18.124. If the proposed activities will take place in or near a traditional subsistence hunting area, the POC must identify what measures will be taken to minimize adverse impacts on the availability of polar bear and Pacific walrus for subsistence use.

1.2.3 Bureau of Ocean Energy Management

A Geological and Geophysical (G&G) permit is required from BOEM, pursuant to 30 CFR 551.4, for ION to conduct geological or geophysical exploration for mineral resources. The G&G permit will allow ION to conduct the seismic survey in accordance with appropriate statutes, regulations, and stipulations for a specified length of time and in a specified area.

1.3 Description of Proposed Project

The purpose of the proposed 2012 BeaufortSPANTM West Program is to image the subsurface geological structures in the region, providing geologists and geophysicists with information to better evaluate prospects for potential oil and gas reserves. The data obtained will allow ION to view and interpret large-scale subsurface geologic structural features. This information will provide critical insight into the geologic evolution, basin architecture, and depositional and structural history of the petroleum system. The program is designed to support future oil and gas exploration within the area of coverage.

The proposed geophysical data acquisition will be conducted for approximately 76 days from about October 1 to December 15, 2012. All permits have been requested from October 1 to December 15, 2012 to allow for contingencies and weather delays. Approximately 7,175 km of seismic data are planned to be acquired, not including transits when the airguns are not operating, during powerup, powerdown, or sound source verification.

The Geo Arctic and the Polar Prince will leave from Tuktoyaktuk, Canada, during late September and enter the Alaskan Beaufort Sea from Canadian waters. The survey vessels access the survey area from

Canadian waters and will begin seismic survey activities no earlier than October 1, 2012, or upon completion of the Kaktovik and Nuiqsut subsistence bowhead whale hunts, whichever is later. At the beginning of the survey, acousticians will deploy hydrophones to collect sound source measurements and determine marine mammal safety and disturbance radii.

Weather and ice permitting, ION plans to initiate survey operations within the Eastern Project Area (Figure 1) in offshore waters greater than 1,000 meters deep in early October. Beginning work in this area is expected to minimize impacts to bowhead whales since bowheads are expected to be least abundant in this area. The survey will then progress to shallower waters in the Eastern Survey Area before moving to the Western Survey Area (Figure 1) in late October or early November after the bowhead whale subsistence hunt from Barrow is complete.

To the extent practicable, the *Geo Arctic* will travel along pre-determined lines, dependent upon ice conditions. The seismic vessels will operate in ice conditions ranging from open water to ice coverage up to $10/10^{th}$ ice. However, the survey cannot take place in thick multi-year ice as both the icebreaker and seismic vessel must make continuous forward progress at 3 to 4 knots while the airgun array discharges. In order for the survey to proceed, areas of high ice concentration will have to consist of mostly newly forming juvenile first year ice or young first year ice less than 0.5 meters thick.

After the survey is complete, or when ice and weather conditions dictate, the vessels will exit to the south passing through the Chukchi and Bering seas.

2012 BeaufortSPAN™ West Final Plan of Cooperation

PLAN OF COOPERATION FOR CONFLICT AVOIDANCE 2.0

The Draft POC for the proposed 2012 activities was submitted to the USFWS and NMFS, as well as to potentially affected subsistence communities and members of marine mammal co-management groups, for comment. Where appropriate, comments and suggestions from leadership and members of potentially affected subsistence communities and subsistence stakeholder groups have been incorporated into this document.

To further support conflict avoidance with North Slope subsistence communities, ION signed the Conflict Avoidance Agreement (CAA) at the 2012 Open Water Meeting on 6 March 2012 in Anchorage.

2.1 Affected Subsistence Communities and Stakeholders

The following subsistence and community groups have been identified by ION as being potentially affected by the proposed activities. ION has included and will include these groups in the POC process and will continue to meet with representatives of each group. Because many of the marine mammal comanagement groups (e.g., Alaska Ice Seal Committee) have members in several communities, representatives from the potentially affected communities were individually invited to leadership and/or public meetings so that their input could be solicited. Copies of invitation letters and the letters notifying subsistence and community groups of the delay of the proposed 2010 and 2011 BeaufortSPANTM West Program are provided in Appendix A.

- Alaska Eskimo Whaling Commission (AEWC)
- Alaska Ice Seal Committee
- Alaska Nanuuq Commission
- Iñupiat Community of the Arctic Slope (ICAS)
- Kuukpikmiut Subsistence Oversight Panel, Inc. (KSOP)
- Native Village of Nuigsut
- Native Village of Barrow
- Native Village of Kaktovik
- Village Whaling Captains Associations of Kaktovik, Nuiqsut, Barrow, and Wainwright

2.2 Meetings with Communities and Subsistence Users

Presentations to community and stakeholder groups began in late 2009 and will continue through 2012. These meetings are designed to share information and to document concerns and comments regarding impacts to subsistence activities. Tables 2-1, 2-2, and 2-3 list potentially affected communities and subsistence users and the dates and location of their leadership and/or public meetings with ION.

ION held public and leadership meetings in February of 2012 to present the 2012 program. ION also plans a status meeting with communities in August 2012 before beginning survey activities. ION intends to hire community members in Barrow, Nuiqsut, Kaktovik, and possibly Wainwright as Village Liaisons. The Village Liaisons will be responsible for informing community members about ION's project activities, reporting any questions or concerns about the project to the designated ION representative, and passing on ION's responses to community members. The Village Liaisons will also inform community members upon completion of survey activities.

2010 Meetings and Correspondence with Potentially Affected Stakeholders Table 2-1 and Subsistence Users

	Jubsistence	000.0	
Community/ Stakeholder	Date	Location	Notes
NSB Department of Wildlife Management	15 December 2009	Barrow	Met with Robert Suydam of NSB to discuss proposed project.
AEWC and Village Whaling Captains	12–13 February 2010	Barrow	Presented the proposed project to AEWC as part of the 2010 Annual Captains' Mini-Convention.
Kaktovik Leadership	16 March 2010	Anchorage	Meeting with Kaktovik mayor and president of Kaktovik Iñupiat Corporation scheduled, but canceled because of illness.
Nuiqsut Leadership	17 March 2010	Nuiqsut	Met with KSOP and Native Village of Nuiqsut. Thomas Napageak Jr., mayor of Nuiqsut, was present.
NSB Planning Commission	18 March 2010	Barrow	Presented the proposed project to NSB Planning Commission. Representatives of NSB Planning Department were present.
Barrow Leadership	18 March 2010	Barrow	Met with NSB Dept. of Wildlife Management, ICAS, and Native Village of Barrow.
NMFS Open Water Meeting	22–24 March 2010	Anchorage	Presented at NMFS Open Water Meeting.
NMFS Peer Review Panel	25 March 2010	Anchorage	Presented to NMFS Peer Review Panel.
Barrow Public Meeting	8 April 2010	Barrow	Presented the proposed project at a public meeting held at Iñupiat Heritage Center from 7 p.m. to 9 p.m.
Kaktovik Public Meeting	10 April 2010	Kaktovik	Presented the proposed project at a public meeting held at Kaktovik Community Center from 7 p.m. to 9 p.m.
Nuiqsut Public Meeting	17 April 2010	Nuiqsut	Presented the proposed project at a public meeting held at Kisik Community Center from 7 p.m. to 9 p.m. before beginning of proposed operations.
Kaktovik Status Report	3 August 2010	Kaktovik	ION provided a report on the project status at the Kaktovik Community Center from 7 p.m. to 9 p.m.
Nuiqsut Status Report	4 August 2010	Nuiqsut	ION provided a report on the project status at the Kisik Community Center from 7 p.m. to 9 p.m., before beginning of proposed operations.
Barrow Status Report	5 August 2010	Barrow	ION provided a report on the project status at the Iñupiat Heritage Center from 7 p.m. to 9 p.m., before beginning of proposed operations.
NSB Planning Commission	30 September 2010	Barrow	Notified NSB Planning Commission that the 2010 BeaufortSPAN [™] West Program would be delayed a year because of technical complications with the seismic vessel.
Notice of Project Delay	30 September 2010	Barrow	Notified Barrow, Nuiqsut, and Kaktovik leadership and subsistence users' groups via letter that the 2010 BeaufortSPAN [™] West Program would be delayed a year because of technical complications with the seismic vessel.
AEWC	7-8 December 2010	Barrow	Presented the proposed project to the AEWC at its Fourth Quarter Meeting.

Notes:

AEWC = Alaska Eskimo Whaling Commission

ICAS = Iñupiat Community of the Arctic Slope
KSOP = Kuukpikmiut Subsistence Oversight Panel, Inc.
NMFS = National Marine Fisheries Service

NSB = North Slope Borough

2011 Meetings and Correspondence with Potentially Affected Stakeholders Table 2-2 and Subsistence Users

Community/Stakeholder	Date	Location	Notes
AEWC and Village Whaling Captains	18 February 2011	Barrow	Presented the proposed project to the AEWC as part of the 2011 Annual Captains' Mini-Convention.
Barrow Public Meeting	19 February 2011	Barrow	Presented the proposed project at a public meeting held at the Iñupiat Heritage Center from 7 p.m. to 9 p.m. Invitations to the public meeting were sent to Barrow leadership before the public meeting.
Nuiqsut Public Meeting	21 February 2011	Nuiqsut	Presented the proposed project at a public meeting held at the Kuukpik Corporation Hotel from 7 p.m. to 9 p.m. Invitations to the public meeting were sent to Nuiqsut leadership before the public meeting.
Kaktovik Public Meeting	22 February 2011	Kaktovik	ION attempted to host a public meeting in Kaktovik at the Kaktovik Community Center from 7 p.m. to 9 p.m., but the meeting was cancelled because of weather. Invitations to the public meeting were sent to Kaktovik leadership before the public meeting.
NSB Planning Commission	24 February 2011	Barrow	Presented proposed project to NSB Planning Commission. Representatives of NSB Planning Department were present.
NMFS Open Water Meeting	7-8 March 2011	Anchorage	Presented at NMFS Open Water Meeting.
NMFS Peer Review Panel	9 March 2011	Anchorage	Presented to NMFS Peer Review Panel.
NSB Planning Commission	18 April 2011	Barrow	Submitted a letter to NSB Planning Commission members addressing questions raised at the 24 February 2011 Planning Commission meeting.
Kaktovik Leadership and Public Meeting	18 April 2011	Kaktovik	Presented the proposed project at a leadership and public meeting held at the Kaktovik Community Center from 5 p.m. to 6 p.m. This was a reschedule of the planned February meeting that was canceled because of weather.
Nuiqsut Leadership Meeting	19 April 2011	Nuiqsut	ION attempted to meet with Leadership in Nuiqsut, including KSOP, the Native Village of Nuiqsut, the City of Nuiqsut, Kuukpik Corp., and the Nuiqsut Whaling Captains' Association. The meeting was cancelled because of weather.
Barrow Leadership Meeting	20 April 2011	Barrow	ION notified Barrow leadership that it would be in Barrow this day and that ION would be happy to meet with members of Barrow leadership. Because of timing (preparation for Barrow spring whale hunt), no meetings were scheduled.
Notice of Project Delay	7 July 2011	Multiple Locations	Notified Barrow, Nuiqsut, Kaktovik, and NSB leadership via a letter that the 2011 BeaufortSPAN TM West Program would be delayed a year.
AEWC Second Quarter Meeting	21–22 July 2011	Fairbanks	Notified AEWC Commissioners of the project delay.
Notice of Project Delay	16 August 2011	Kaktovik	ION notified leadership in Kaktovik that the 2011 BeaufortSPAN TM West Program would be delayed a year.
Notice of Project Delay	17 August 2011	Barrow	ION notified leadership in Barrow that the 2011 BeaufortSPAN TM West Program would be delayed a year because of uncertainty in the availability of the M/V <i>Polar Explorer</i> .
Notice of Project Delay	18 August 2011	Nuiqsut	ION notified leadership in Nuiqsut that the 2011 BeaufortSPAN TM West Program would be delayed a year.

Notes: AEWC = Alaska Eskimo Whaling Commission

KSOP = Kuukpikmiut Subsistence Oversight Panel, Inc.
NMFS = National Marine Fisheries Service

= North Slope Borough NSB

Table 2-3 2012 Meetings and Correspondence with Potentially Affected Stakeholders and Subsistence Users

Community/Stakeholder	Date	Location	Notes
Kaktovik Public Meeting	23 January 2012	Kaktovik	ION presented the proposed 2012 project to leadership and community members in Kaktovik.
Barrow Whaling Captains' Association	25 January 2012	Barrow	ION presented the proposed 2012 project to the Barrow Whaling Captains' Association over dinner at Pepe's Restaurant. Approximately 40 whaling captains attended.
Barrow Public Meeting	25 January 2012	Barrow	ION presented the proposed 2012 project at a public meeting held at the Iñupiat Heritage Center from 7 p.m. to 9 p.m. Invitations to the public meeting were sent to Barrow leadership before the public meeting.
AEWC Mini-Convention	16–17 February 2012	Barrow	ION participated in the AEWC Mini-Convention and presented information about the proposed 2012 project.
Wainwright Whaling Captains' Association	20 February 2012	Wainwright	ION presented the proposed 2012 project to the Wainwright Whaling Captains' Association. The focus was on transit from the project site near Barrow through the Chukchi Sea after completion of the seismic survey.
Nuiqsut Public Meeting	21 February 2012	Nuiqsut	ION presented the 2012 proposed project at a public meeting held at the Community Center from 6 p.m. to 8 p.m. Invitations to the public meeting and fliers were sent to Nuiqsut leadership before the public meeting.
NMFS Open Water Meeting	5–9 March 2012	Anchorage	ION presented the proposed 2012 project at the Open Water Meeting.
Meeting with members of AEWC	6 March 2012	Anchorage	ION reviewed and signed the Conflict Avoidance Agreement with AEWC.
NSB Planning Commission	28 June 2012	Barrow	ION presented the proposed project to NSB Planning Commission. Representatives of NSB Planning Department were present.
Barrow Status Report	August 2012 (proposed)	Barrow	ION will provide an update of the proposed project before beginning operations.
Nuiqsut Status Report	August 2012 (proposed)	Nuiqsut	ION will provide an update of the proposed project before beginning operations.
Kaktovik Status Report	August 2012 (proposed)	Kaktovik	ION will provide an update of the proposed project before beginning operations.
Wainwright Status Report	August 2012 (potential)	Wainwright	ION will provide an update of the proposed project before beginning operations. This may be include a meeting in Wainwright or be via letter.

Notes:

ION's 2012 Monitoring Plan was not reviewed at the 2012 Peer Review Panel held in Seattle on January 2012. The Peer Review Panel determined that there had been insufficient changes from previous versions reviewed at the 2010 and 2011 Peer Review Panels to warrant review.

AEWC = Alaska Eskimo Whaling Commission

2.3 **Communications Center and Emergency Response**

An Emergency Communications Center will be established in Deadhorse to provide emergency communication and support to ION's 2012 BeaufortSPANTM West Program. The Emergency Communications Center will be staffed by three operators to allow 24 hours a day, 7 days a week operation during the survey operational window. Vessels will be required to report in to the Emergency Communications Center a minimum of every six hours to provide information about the vessel's location, speed, and direction. The Emergency Communication Center will be notified if there are any significant changes in plans or any potentially unsafe or unanticipated conditions (e.g., weather, ice conditions). The Emergency Communication Center is intended to provide emergency communication and support, and is not intended to meet the requirements for communications centers outlined in the AEWC CAA.

In addition to being on standby for vessel communications and needs, the Com Center will serve as a conduit for communication between the operating vessels and the Village Liaisons in Barrow, Nuiqsut, Kaktovik, and possibly Wainwright.

In the event of an emergency, ION will coordinate with North Slope Borough (NSB) Search and Rescue (SAR). ION has been in communication with NSB SAR to coordinate activities since 2010 and will continue close communication with them. It is anticipated that, if an emergency occurs requiring NSB SAR response, the NSB SAR helicopter stationed in Barrow will be available. A list of meetings with SAR operators, including NSB SAR and Barrow SAR, can be found in Table 2-4. In addition, ION has spoken with the US Coast Guard regarding their capabilities to respond to an emergency in the Beaufort Sea.

The Polar Prince will have a physician assistant and a full clinic onboard the vessel in the event of a medical emergency. If a medical evacuation is necessary, both the Geo Arctic and the Polar Prince have helicopter decks capable of accommodating the NSB SAR helicopters. The *Polar Prince* will be the main emergency support vessel and will support the medical treatment and transportation of injured or ill personnel to medical facilities.

Meetings with Barrow Volunteer Search and Rescue and North Slope Table 2-4 **Borough Search and Rescue**

Community/Stakeholder	Date	Location	Notes
Barrow Volunteer SAR	2 September 2010	Barrow	Discussed proposed Communications Center.
Barrow Volunteer SAR	30 September 2010	Barrow	Discussed proposed Communications Center agreement.
NSB SAR	30 September 2010	Barrow	Discussed emergency response protocol and capabilities.
NSB SAR	20 April 2011	Barrow	ION met with NSB SAR to discuss the Communications Center and emergency response protocol and needs.
NSB SAR	25 June 2012	Barrow	ION met with NSB SAR to discuss the Communications Center and emergency response protocol and needs.

NSB = North Slope Borough SAR = Search and Rescue

2.4 **Meeting Summaries**

Agendas, flyers, notes, comments, and sign-in sheets from the following meetings are included in Appendix B. Meetings that have occurred include:

2.4.1 Meetings in 2010

- North Slope Borough Department of Wildlife Management, 18 March 2010
- ICAS meeting, 18 March 2010
- Native Village of Barrow, 18 March 2010
- Barrow Public Meeting, 8 April 2010
- Kaktovik Public Meeting, 10 April 2010
- Nuiqsut Public Meeting, 17 April 2010

2.4.2 Meetings in 2011

- Barrow Public Meeting, 19 February 2011
- Nuiqsut Public Meeting, 21 February 2011
- Kaktovik Leadership and Public Meeting, 18 April 2011
- Kaktovik Leadership Meeting, 16 August 2011
- Barrow Leadership Meeting, 16 August 2011
- Nuiqsut Leadership Meeting, 18 August 2011

2.4.3 Meetings in 2012

- Kaktovik Public Meeting, 12 January 2012
- Barrow Whaling Captains' Association Meeting, 25 January 2012
- Barrow Public Meeting, 25 January 2012
- AEWC Mini-Convention, February 2012
- Wainwright Whaling Captains' Association Meeting, 20 February 2012
- Nuiqsut Public Meeting, 21 February 2012
- Open Water Meeting, 5–9 March 2012
- Barrow Status Report, August 2012 (proposed)
- Nuiqsut Status Report, August 2012 (proposed)
- Kaktovik Status Report, August 2012 (proposed)
- Wainwright Status Report, August 2012 (potential)

Project Information and Presentation Materials 2.5

Copies of presentation materials provided at the leadership meetings and the public meetings are included in Appendix C.

2.6 Comments to Draft Plan of Cooperation

Throughout the POC process, ION has responded to community and subsistence users' comments and concerns and, when appropriate, incorporated both comments and responses into the Draft POC or Final POC. The 2012 Draft POC was submitted to the potentially affected communities and stakeholder groups for further comment in May 2012. No additional comments or responses were received for the Draft POC.

2012 BeaufortSPAN™ West Final Plan of Cooperation

3.0 PROPOSED MITIGATION

This Final POC includes the proposed measures for mitigation and avoidance of conflicts with subsistence use activities, and procedures to communicate with subsistence users developed as a result of meetings with community and subsistence users.

ION proposes to avoid potential conflicts with subsistence users by timing their activities to take place when subsistence hunting is not anticipated. The program is scheduled to start after whaling activities have concluded for the season and most marine mammals have migrated out of the project area (October for the Eastern Project Area; November for the Western Project Area). The survey will be conducted from east to west, following behind the whale migration and thus limiting potential effects on whales and the subsistence harvest. The survey vessel will not enter the US Beaufort Sea before 1 October 2012, or the completion of Kaktovik bowhead whaling, whichever is later. Seismic operations will be confined to the eastern project area until completion of Barrow fall bowhead whaling (expected to be approximately 1 November 2012).

Subsistence hunting of seals is not anticipated to begin until shore-fast ice is formed, typically in January.

3.1 Marine Mammal Monitoring and Mitigation

A plan to monitor for marine mammals during offshore operations and mitigate impacts is required by the NMFS and USFWS. Proposed monitoring is included in Section 11 of the IHA application and Section 2 of the LOA application. Proposed mitigation measures are included in Section 13 of the IHA application and Section 2 of the LOA application.

Proposed Conflict Avoidance Measures 3.2

ION has developed its operational schedule so that there is very little opportunity to interfere with subsistence activities. Program features include the following elements:

- Schedule the seismic survey so that seismic operations in the eastern survey area do not begin until 1 October 2012, or the completion of Kaktovik bowhead whaling, whichever is later.
- Schedule the seismic survey so that seismic operations in the western survey area do not begin until completion of Barrow fall bowhead whaling (expected to be approximately 1 November
- Schedule the seismic survey between 1 October 2012, and mid-December 2012 to avoid periods of higher abundance of marine mammal species that are present during the open-water season.
- Plan the survey to proceed from the eastern to western US Beaufort Sea to avoid, as much as possible, any remaining migratory animals and associated subsistence activities.
- Complete the survey before development of shore-fast ice, typically in January. The survey would be completed before the time when ringed seals would establish and enter lairs for reproductive purposes.

Other operational activities that will minimize the disturbance of marine mammals include the following measures:

- Safety radii have been modeled for the proposed seismic source and will be measured during sound-source verification as part of project operations before beginning seismic work.
- Ramp-up and soft-start methods will be employed when initiating airguns and seismic operations. This will allow any marine mammals in the area an opportunity to swim away from the source before the full energy is emitted.
- Marine mammal observers (MMOs), also referred to a Protected Species Observers, will actively
 watch for signs and sightings of marine mammals and will initiate power-down, shut down, or
 speed and course alterations if marine mammals are observed in or entering safety radii. MMOs
 located on the icebreaker will use big-eye binoculars during daylight, and a forward-looking
 infrared (FLIR) camera during darkness.
- Vessel lights, large spotlights, and night vision equipment will also be used during darkness and low-light conditions.
- A record of all marine mammals within safety radii will be maintained. Periodic updates will be made to the USFWS and the NMFS as required by the LOA and IHA, respectively.

Appendix A 2010–2012 Invitation, Notification, and Response Letters

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2010 April Community Meeting Invitation Letters

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April 2, 2010

Thomas Olemaun, Executive Director Native Village of Barrow P.O. Box 1130 Barrow, AK 99723

Re: Leadership Meeting with ION Geophysical, Inc.

Dear Mr. Olemaun:

On behalf of ION Geophysical, Inc. (ION), my colleagues and I would like to thank you for taking the time to meet with us regarding the proposed ION BeaufortSPANTM West Program. We appreciate the numerous informative comments and the input that you shared addressing our planned operations.

Enclosed please find a copy of our Draft Plan of Cooperation (POC) for your review. The Draft POC describes the procedures ION will follow to avoid conflicts with subsistence activities and is designed to address your comments and concerns. We are expecting to hold public meetings in Barrow, Nuiqsut, and Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project and the Draft POC. A Final POC incorporating comments and suggestions from the public meetings will be submitted to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Copies will be provided to interested parties upon request.

The Barrow public meeting is scheduled to take place on April 8th from 7pm to 9pm in the Multipurpose Room at the Inupiat Heritage Center. We would like to extend to you and your staff a special invitation to attend the meeting and provide your input. Refreshments and door prizes will be provided.

If you have any questions or would like to provide comments on the Draft POC, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Once again thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

Enclosure: Draft Plan of Cooperation

cc: Michelle Turner, AES

AES Project File Administrative Record

MT/EB/NS/RS

15337-02-10-002A/10-026A





Harry Brower, Chairman Alaska Eskimo Whaling Commission P.O. Box 570 Barrow, AK 99723

Re: Leadership Meeting with ION Geophysical, Inc.

Dear Mr. Brower:

On behalf of ION Geophysical, Inc. (ION), my colleagues and I would like to thank you for taking the time to meet with us regarding the proposed ION BeaufortSPANTM West Program. We appreciate the numerous informative comments and the input that you shared addressing our planned operations.

Enclosed please find a copy of our Draft Plan of Cooperation (POC) for your review. The Draft POC describes the procedures ION will follow to avoid conflicts with subsistence activities and is designed to address your comments and concerns. We are expecting to hold public meetings in Barrow, Nuiqsut, and Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project and the Draft POC. A Final POC incorporating comments and suggestions from the public meetings will be submitted to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Copies will be provided to interested parties upon request.

The Barrow public meeting is scheduled to take place on April 8th from 7pm to 9pm in the Multipurpose Room at the Inupiat Heritage Center. We would like to extend a special invitation to you and any member of the marine mammal co-management groups you are a member of (the Alaska Eskimo Whaling Commission, Ice Seal Committee, the Alaska Nanuuq Commission, and the Alaska Beluga Whale Committee) to attend the meeting and provide input. Refreshments and door prizes will be provided.

If you have any questions or would like to provide comments on the Draft POC, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Once again thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

Enclosure: Draft Plan of Cooperation

cc: Michelle Turner, AES

AES Project File Administrative Record

MT/EB/NS/RS

15337-02-10-002A/10-026A





George Edwardson, President Inupiat Community of the Arctic Slope P.O. Box 1121 Barrow, AK 99723

Re: Leadership Meeting with ION Geophysical, Inc.

Dear Mr. Edwardson:

On behalf of ION Geophysical, Inc. (ION), my colleagues and I would like to thank you for allowing your representatives, Mr. Lloyd Paningona and Ms. Helen Simmonds to meet with us regarding the proposed ION BeaufortSPANTM West Program and for providing your input at the Open Water Meeting. We appreciate the information that you have shared addressing our planned operations.

Enclosed please find a copy of our Draft Plan of Cooperation (POC) for your review. The Draft POC describes the procedures ION will follow to avoid conflicts with subsistence activities and is designed to address your comments and concerns. We are expecting to hold public meetings in Barrow, Nuiqsut, and Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project and the Draft POC. A Final POC incorporating comments and suggestions from the public meetings will be submitted to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Copies will be provided to interested parties upon request.

The Barrow public meeting is scheduled to take place on April 8th from 7pm to 9pm in the Multipurpose Room at the Inupiat Heritage Center. We would like to extend to you and your staff a special invitation to attend the public meeting and provide your input. Refreshments and door prizes will be provided.

If you have any questions or would like to provide comments on the Draft POC, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Once again thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

Enclosure: Draft Plan of Cooperation

cc: Lloyd Paningona, ICAS

Helen Simmonds, ICAS Michelle Turner, AES AES Project File Administrative Record





Joseph Sage, Boardmember Alaska Eskimo Walrus Commission c/o Native Village of Barrow P.O. Box 1130 Barrow, AK 99723

Re: Leadership Meeting with ION Geophysical, Inc.

Dear Mr. Sage:

ION Geophysical, Inc. (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2010. The proposed ION BeaufortSPANTM West Program operations are planned for October 1, 2010 through mid-December 2010. We are expecting to hold public meetings in Barrow, Nuiqsut, and Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project.

The Barrow public meeting is scheduled to take place on April 8th from 7pm to 9pm in the Multipurpose Room at the Inupiat Heritage Center. We would like to extend a special invitation to you and any member of the Alaska Eskimo Walrus Commission to attend the public meeting and provide your input. Refreshments and door prizes will be provided. If you are available, we would be happy to meet with you at your convenience while we are in Barrow.

Enclosed please find a copy of our Draft Plan of Cooperation (POC) for your review. The Draft POC describes the procedures ION will follow to avoid conflicts with subsistence activities and is designed to address your comments and concerns. A Final POC incorporating comments and suggestions from the public meetings will be submitted to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Copies will be provided to interested parties upon request.

If you have any questions or would like to provide comments on the Draft POC, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

Enclosure: Draft Plan of Cooperation

cc: Michelle Turner, AES
AES Project File

Administrative Record



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April 2, 2010

Edward Itta, Mayor North Slope Borough P.O. Box 69 Barrow, AK 99723

Re: Leadership Meeting with ION Geophysical, Inc.

Dear Mayor Itta:

On behalf of ION Geophysical, Inc. (ION), my colleagues and I would like to thank you for allowing your representative, Mr. Andy Mack, to meet with us regarding the proposed ION BeaufortSPANTM West Program. We appreciate the input that Mr. Mack has shared addressing our planned operations.

Enclosed please find a copy of our Draft Plan of Cooperation (POC) for your review. The Draft POC describes the procedures ION will follow to avoid conflicts with subsistence activities and is designed to address your comments and concerns. We are expecting to hold public meetings in Barrow, Nuiqsut, and Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project and the Draft POC. A Final POC incorporating comments and suggestions from the public meetings will be submitted to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Copies will be provided to interested parties upon request.

The Barrow public meeting is scheduled to take place on April 8th from 7pm to 9pm in the Multipurpose Room at the Inupiat Heritage Center. We would like to extend to you a special invitation to attend the meeting and provide your input. Refreshments and door prizes will be provided.

If you have any questions or would like to provide comments on the Draft POC, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Once again thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager ION Geophysical, Inc.

Enclosure: Draft Plan of Cooperation

cc: Andy Mack, Special Assistant to Mayor Itta, NSB

Michelle Turner, AES AES Project File Administrative Record



Taqulik Hepa North Slope Borough Department of Wildlife Management P.O. Box 69 Barrow, AK 99723

Re: Leadership Meeting with ION Geophysical, Inc.

Dear Ms. Hepa:

On behalf of ION Geophysical, Inc. (ION), my colleagues and I would like to thank you for taking the time to meet with us regarding the proposed ION BeaufortSPANTM West Program. We appreciate the numerous informative comments and the input that you shared addressing our planned operations.

Enclosed please find a copy of our Draft Plan of Cooperation (POC) for your review. The Draft POC describes the procedures ION will follow to avoid conflicts with subsistence activities and is designed to address your comments and concerns. We are expecting to hold public meetings in Barrow, Nuiqsut, and Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project and the Draft POC. A Final POC incorporating comments and suggestions from the public meetings will be submitted to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Copies will be provided to interested parties upon request.

The Barrow public meeting is scheduled to take place on April 8th from 7pm to 9pm in the Multipurpose Room at the Inupiat Heritage Center. We would like to extend to you and your staff a special invitation to attend the public meeting and provide your input. Refreshments and door prizes will be provided.

If you have any questions or would like to provide comments on the Draft POC, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Once again thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

Enclosure: Draft Plan of Cooperation

cc: Robert Suydam, NSB

Harry Brower, NSB Todd Sformo, NSB Leslie Pierce, NSB Michelle Turner, AES AES Project File Administrative Record



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April 2, 2010

Eugene Brower, President Barrow Whaling Captains' Association P.O. Box 4927 Barrow, AK 99723

Re: Leadership Meeting with ION Geophysical, Inc.

Dear Mr. Brower:

ION Geophysical, Inc. (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2010. The proposed ION BeaufortSPANTM West Program operations are planned for October 1, 2010 through mid-December 2010. We are expecting to hold public meetings in Barrow, Nuiqsut, and Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project.

The Barrow public meeting is scheduled to take place on April 8th from 7pm to 9pm in the Multipurpose Room at the Inupiat Heritage Center. We would like to extend a special invitation to you and any member of the Barrow Whaling Captains Association to attend the public meeting and provide input. Refreshments and door prizes will be provided. If you are available, we would be happy to meet with you at your convenience while we are in Barrow.

Enclosed please find a copy of our Draft Plan of Cooperation (POC) for your review. The Draft POC describes the procedures ION will follow to avoid conflicts with subsistence activities and is designed to address your comments and concerns. A Final POC incorporating comments and suggestions from the public meetings will be submitted to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Copies will be provided to interested parties upon request.

If you have any questions or would like to provide comments on the Draft POC, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

Enclosure: Draft Plan of Cooperation

cc: Michelle Turner, AES
AES Project File
Administrative Record



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April 2, 2010

Isaac Akootchook, President Native Village of Kaktovik P.O. Box 130 Kaktovik, AK 99747

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Akootchook:

ION Geophysical, Inc. (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2010. The proposed ION BeaufortSPANTM West Program operations are planned for October 1, 2010 through mid-December 2010. Some information about the program was sent to you on March 25th. We are expecting to hold public meetings in Barrow, Nuiqsut, and Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project.

The Kaktovik public meeting is scheduled to take place on April 10th from 7pm to 9pm in the Kaktovik Community Center. Refreshments and door prizes will be provided. We would like to extend a special invitation to you and any member of the Native Village of Kaktovik Board to attend the meeting and provide input. If you are available, we would be happy to meet with you at your convenience while we are in Kaktovik.

Enclosed please find a copy of our Draft Plan of Cooperation (POC) for your review. The Draft POC describes the procedures ION will follow to avoid conflicts with subsistence activities and is designed to address your comments and concerns. A Final POC incorporating comments and suggestions from the public meetings will be submitted to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Copies will be provided to interested parties upon request.

If you have any questions or would like to provide comments on the Draft POC, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Sincerely,

Ed Nelson Project Manager ION Geophysical, Inc.

Enclosure: Draft Plan of Cooperation

cc: Fenton Rexford, Native Village of Kaktovik

Michelle Turner, AES AES Project File Administrative Record





Nora Jane Burns NSB Village Liaison P.O. Box 102 Kaktovik, AK 99747

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Burns:

ION Geophysical, Inc. (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2010. The proposed ION BeaufortSPANTM West Program operations are planned for October 1, 2010 through mid-December 2010. Some information about the program was sent to you on March 25th. We are expecting to hold public meetings in Barrow, Nuiqsut, and Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project.

The Kaktovik public meeting is scheduled to take place on April 10th from 7pm to 9pm in the Kaktovik Community Center. Refreshments and door prizes will be provided. We would like to extend to you a special invitation to attend the public meeting and provide your input. If you are available, we would be happy to meet with you at your convenience while we are in Kaktovik.

Enclosed please find a copy of our Draft Plan of Cooperation (POC) for your review. The Draft POC describes the procedures ION will follow to avoid conflicts with subsistence activities and is designed to address your comments and concerns. A Final POC incorporating comments and suggestions from the public meetings will be submitted to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Copies will be provided to interested parties upon request.

If you have any questions or would like to provide comments on the Draft POC, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

Enclosure: Draft Plan of Cooperation

cc: Michelle Turner, AES

AES Project File Administrative Record

ML/MT/NS/RS

15337-02-10-002C/10-026C



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April 2, 2010

Nathan Gordon, President Kaktovik Inupiat Corporation P.O. Box 73 Kaktovik, AK 99747

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Gordon:

ION Geophysical, Inc. (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2010. The proposed ION BeaufortSPANTM West Program operations are planned for October 1, 2010 through mid-December 2010. Some information about the program was sent to you on March 25th. We are expecting to hold public meetings in Barrow, Nuiqsut, and Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project.

The Kaktovik public meeting is scheduled to take place on April 10th from 7pm to 9pm in the Kaktovik Community Center. Refreshments and door prizes will be provided. We would like to extend a special invitation to you and any member of the Kaktovik Inupiat Corporation (KIC) Board to attend the public meeting and provide input. If you are available, we would be happy to meet with you at your convenience while we are in Kaktovik.

Enclosed please find a copy of our Draft Plan of Cooperation (POC) for your review. The Draft POC describes the procedures ION will follow to avoid conflicts with subsistence activities and is designed to address your comments and concerns. A Final POC incorporating comments and suggestions from the public meetings will be submitted to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Copies will be provided to interested parties upon request.

If you have any questions or would like to provide comments on the Draft POC, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

Enclosure: Draft Plan of Cooperation

cc: Phillip Tikluk, KIC
Michelle Turner, AES
AES Project File
Administrative Record

ML/MT/NS/RS 15337-02-10-002C/10-026C



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April 2, 2010

Fenton Rexford, President Kaktovik Whaling Captains Association P.O. Box 137 Kaktovik, AK 99747

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Rexford:

ION Geophysical, Inc. (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2010. The proposed ION BeaufortSPANTM West Program operations are planned for October 1, 2010 through mid-December 2010. Some information about the program was sent to you on March 25th. We are expecting to hold public meetings in Barrow, Nuiqsut, and Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project.

The Kaktovik public meeting is scheduled to take place on April 10th from 7pm to 9pm in the Kaktovik Community Center. Refreshments and door prizes will be provided. We would like to extend a special invitation to you and any member of the Kaktovik Whaling Captains Association to attend the public meeting and provide input. Refreshments and door prizes will be provided. If you are available, we would be happy to meet with you at your convenience while we are in Kaktovik.

Enclosed please find a copy of our Draft Plan of Cooperation (POC) for your review. The Draft POC describes the procedures ION will follow to avoid conflicts with subsistence activities and is designed to address your comments and concerns. A Final POC incorporating comments and suggestions from the public meetings will be submitted to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Copies will be provided to interested parties upon request.

If you have any questions or would like to provide comments on the Draft POC, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

Enclosure: Draft Plan of Cooperation

cc: Michelle Turner, AES

AES Project File Administrative Record

ML/MT/NS/RS 15337-02-10-002C/10-026C





April 2, 2010

Annie Tikluk, Mayor City of Kaktovik P.O. Box 27 Kaktovik, AK 99747

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Tikluk:

ION Geophysical, Inc. (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2010. The proposed ION BeaufortSPANTM West Program operations are planned for October 1, 2010 through mid-December 2010. Some information about the program was sent to you on March 25th. We are expecting to hold public meetings in Barrow, Nuiqsut, and Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project.

The Kaktovik public meeting is scheduled to take place on April 10th from 7pm to 9pm in the Kaktovik Community Center. Refreshments and door prizes will be provided. We would like to extend to you a special invitation to attend the public meeting and provide your input. If you are available, we would be happy to meet with you at your convenience while we are in Kaktovik.

Enclosed please find a copy of our Draft Plan of Cooperation (POC) for your review. The Draft POC describes the procedures ION will follow to avoid conflicts with subsistence activities and is designed to address your comments and concerns. A Final POC incorporating comments and suggestions from the public meetings will be submitted to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Copies will be provided to interested parties upon request.

If you have any questions or would like to provide comments on the Draft POC, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

Enclosure: Draft Plan of Cooperation

cc: Michelle Turner, AES
AES Project File

Administrative Record

ML/MT/NS/RS

15337-02-10-002C/10-026C





Billy Oyagak, President Nuiqsut Whaling Captains Association P.O. Box 89013 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Oyagak:

ION Geophysical, Inc. (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2010. The proposed ION BeaufortSPANTM West Program operations are planned for October 1, 2010 through mid-December 2010. We are planning to hold a public meeting in Nuiqsut to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project.

The Nuiqsut public meeting is scheduled to take place on April 17th from 7:00pm to 9:00pm in the Kusik Community Center. We would like to extend a special invitation to you and any member of the Nuiqsut Whaling Captains Association to attend the public meeting and provide your input. Refreshments and door prizes will be provided. If you are available, we would be happy to meet with you at your convenience while we are in Nuiqsut.

If you have any questions, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record

Administrative Record





Annie Gray, Executive Director Kuukpikmiut Subsistence Oversight Panel, Inc. P.O. Box 89126 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Gray:

ION Geophysical, Inc. (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2010. The proposed ION BeaufortSPANTM West Program operations are planned for October 1, 2010 through mid-December 2010. We are planning to hold a public meeting in Nuiqsut to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project.

The Nuiqsut public meeting is scheduled to take place on April 17th from 7:00pm to 9:00pm in the Kusik Community Center. We would like to extend a special invitation to you and the members of KSOP, Inc. to attend the public meeting and provide your input. Refreshments and door prizes will be provided. If you are available, we would be happy to meet with you at your convenience while we are in Nuiqsut.

If you have any questions, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Isaac Nukapigak, President Kuukpik Corporation P.O. Box 89187 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Nukapigak:

ION Geophysical, Inc. (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2010. The proposed ION BeaufortSPANTM West Program operations are planned for October 1, 2010 through mid-December 2010. We are planning to hold a public meeting in Nuiqsut to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project.

The Nuiqsut public meeting is scheduled to take place on April 17th from 7:00pm to 9:00pm in the Kusik Community Center. We would like to extend a special invitation to you and any member of Kuukpik Corporation to attend the public meeting and provide your input. Refreshments and door prizes will be provided. If you are available, we would be happy to meet with you at your convenience while we are in Nuiqsut.

If you have any questions, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record



Bernice Kaigelak, President Native Village of Nuiqsut P.O. Box 169 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Kaigelak:

ION Geophysical, Inc. (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2010. The proposed ION BeaufortSPANTM West Program operations are planned for October 1, 2010 through mid-December 2010. We are planning to hold a public meeting in Nuiqsut to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project.

The Nuiqsut public meeting is scheduled to take place on April 17th from 7:00pm to 9:00pm in the Kusik Community Center. We would like to extend a special invitation to you and any member of the Native Village of Nuigsut to attend the public meeting and provide your input. Refreshments and door prizes will be provided. If you are available, we would be happy to meet with you at your convenience while we are in Nuigsut.

If you have any questions, please don't hesitate to contact me at Edward.Nelson@iongeo.com or 907-339-5460 Michelle Turner with **ASRC** Energy Services (AES) or michelle.turner@asrcenergy.com.

Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File

Administrative Record





Thomas Napageak Jr., Mayor City of Nuiqsut P.O. Box 89148 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Napageak:

ION Geophysical, Inc. (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2010. The proposed ION BeaufortSPANTM West Program operations are planned for October 1, 2010 through mid-December 2010. We are planning to hold a public meeting in Nuiqsut to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project.

The Nuiqsut public meeting is scheduled to take place on April 17th from 7:00pm to 9:00pm in the Kusik Community Center. We would like to extend a special invitation to you and any member of the City of Nuiqsut to attend the public meeting and provide your input. Refreshments and door prizes will be provided. If you are available, we would be happy to meet with you at your convenience while we are in Nuiqsut.

If you have any questions, please don't hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com.

Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record

Final Plan of Cooperation 2012 BeaufortSPAN™ West

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Final Plan of Cooperation 2012 BeaufortSPAN™ West

2010 October Notification of Program Delay

Final Plan of Cooperation 2012 BeaufortSPAN™ West

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North Slope Borough Planning Commission P.O. Box 69 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Planning Commission Member:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

On behalf of ION, my colleagues and I would like to thank you for taking the time to meet with us regarding the ION BeaufortSPANTM West Program. We appreciate the comments and suggestions you provided regarding our planned operations (e.g., safe harbor locations). We look forward to working with you next year as we gear up for 2011 activities.

If you have any questions, please do not hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or Michelle.Turner@asrcenergy.com.

Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Margie Fisher, NSB

Michelle Turner, AES
AES Project File
Administrative Record





Oliver Leavitt
President
Barrow Search & Rescue, Inc.
P.O. Box 0565
Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Leavitt:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

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If you have any questions, please do not hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or Michelle. Turner@asrcenergy.com.

Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Patrick Suvlu, BVSAR

Price Brower, BVSAR Eli Solomon, BVSAR Jimmy Nayakik, BVSAR Hubert Hopson, BVSAR Johnny Adams, BVSAR Fannie Suvlu, BVSAR Arnold Brower, Jr, BVSAR Michelle Turner, AES

AES Project File
Administrative Record





Patrick Suvlu Vice President Barrow Search & Rescue, Inc. P.O. Box 0565 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Suvlu:

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Oliver Leavitt, BVSAR

Price Brower, BVSAR Eli Solomon, BVSAR Jimmy Nayakik, BVSAR Hubert Hopson, BVSAR Johnny Adams, BVSAR Fannie Suvlu, BVSAR Arnold Brower, Jr, BVSAR Michelle Turner, AES AES Project File

AES Project File
Administrative Record





Price Brower Member Barrow Search & Rescue, Inc. P.O. Box 0565 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Brower:

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ION Geophysical, Corp.

cc: Patrick Suvlu, BVSAR

Oliver Leavitt, BVSAR Eli Solomon, BVSAR Jimmy Nayakik, BVSAR

Hubert Hopson, BVSAR Johnny Adams, BVSAR Fannie Suvlu, BVSAR Arnold Brower, Jr, BVSAR

Michelle Turner, AES AES Project File

Administrative Record





Eli Solomon Treasurer Barrow Search & Rescue, Inc. P.O. Box 0565 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Solomon:

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Arnold Brower, Jr, BVSAR Michelle Turner, AES

AES Project File

Administrative Record





Jimmy Nayakik Member Barrow Search & Rescue, Inc. P.O. Box 0565 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Nayakik:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

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Ed Nelson Project Manager

ION Geophysical, Corp.

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Price Brower, BVSAR
Eli Solomon, BVSAR
Oliver Leavitt, BVSAR
Hubert Hopson, BVSAR
Johnny Adams, BVSAR
Fannie Suvlu, BVSAR
Arnold Brower, Jr, BVSAR
Michelle Turner, AES
AES Project File
Administrative Record





Hubert Hopson Member Barrow Search & Rescue, Inc. P.O. Box 0565 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Hopson:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

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Ed Nelson Project Manager

ION Geophysical, Corp.

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Price Brower, BVSAR Eli Solomon, BVSAR Jimmy Nayakik, BVSAR Oliver Leavitt, BVSAR Johnny Adams, BVSAR Fannie Suvlu, BVSAR Arnold Brower, Jr, BVSAR Michelle Turner, AES AES Project File

AES Project File Administrative Record





Johnny Adams Member Barrow Search & Rescue, Inc. P.O. Box 0565 Barrow, AK 99723

ION BeaufortSPANTM West Program Delayed Until 2011 Re:

Dear Mr. Adams:

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Ed Nelson Project Manager

ION Geophysical, Corp.

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AES Project File

Administrative Record





Fannie Suvlu Barrow Search & Rescue, Inc. P.O. Box 0565 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

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Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Patrick Suvlu, BVSAR

Price Brower, BVSAR

Eli Solomon, BVSAR Jimmy Nayakik, BVSAR

Hubert Hopson, BVSAR

Johnny Adams, BVSAR

Oliver Leavitt, BVSAR

Arnold Brower, Jr, BVSAR

Michelle Turner, AES

AES Project File

Administrative Record





Arnold Brower, Jr Barrow Search & Rescue, Inc. P.O. Box 0565 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Brower:

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ION Geophysical, Corp.

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Price Brower, BVSAR Eli Solomon, BVSAR Jimmy Nayakik, BVSAR Hubert Hopson, BVSAR

Johnny Adams, BVSAR Fannie Suvlu, BVSAR Oliver Leavitt, BVSAR Michelle Turner, AES

AES Project File Administrative Record





Hugh Patkotak North Slope Borough Search & Rescue P.O. Box 869 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Patkotak:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Price Brower, NSB

Don Meany, NSB

Richard (Pat) Patterson, NSB

April Brower, NSB Michelle Turner, AES AES Project File

Administrative Record





Edward Itta Mayor North Slope Borough P.O. Box 69 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Itta:

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Andy Mack, Special Assistant to the Mayor, Government and External Affairs

Michelle Turner, AES AES Project File Administrative Record





Taqulik Hepa North Slope Borough Department of Wildlife Management P.O. Box 69 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Ms. Hepa:

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Robert Suydam, NSB

Harry Brower, NSB Todd Sformo, NSB Michelle Turner, AES AES Project File Administrative Record





George Edwardson President Inupiat Community of the Arctic Slope P.O. Box 1121 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Edwardson:

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Lloyd Paningona, Reality Director

Michelle Turner, AES AES Project File Administrative Record





Thomas Olemaun Executive Director Native Village of Barrow P.O. Box 1130 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Olemaun:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

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Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Harry Brower Chairman Alaska Eskimo Whaling Commission P.O. Box 570 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Brower:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Joseph Sage **Board Member** Alaska Eskimo Walrus Commission c/o Native Village of Barrow P.O. Box 1130 Barrow, AK 99723

ION BeaufortSPANTM West Program Delayed Until 2011 Re:

Dear Mr. Sage:

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Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File

Administrative Record





Eugene Brower President Barrow Whaling Captains' Association P.O. Box 4927 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed Until 2011

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ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Fenton Rexford President Kaktovik Whaling Captains' Association P.O. Box 137 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Rexford:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Isaac Akootchook President Native Village of Kaktovik P.O. Box 130 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Akootchook:

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Fenton Rexford, Native Village of Kaktovik

Michelle Turner, AES AES Project File Administrative Record





Nathan Gordon President Kaktovik Inupiat Corporation P.O. Box 73 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Gordon:

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Phillip Tikluk, Kaktovik Inupiat Corporation

Michelle Turner, AES AES Project File Administrative Record





Annie Tikluk Mayor City of Kaktovik P.O. Box 27 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Ms. Tikluk:

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cc: Michelle Turner, AES

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Thomas Napageak Jr. Mayor City of Nuiqsut P.O. Box 89148 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Napageak:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

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If you have any questions, please do not hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or Michelle.Turner@asrcenergy.com.

Once again, thank you for your time.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Bernice Kaigelak President Native Village of Nuiqsut P.O. Box 169 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Ms. Kaigelak:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Isaac Nukapigak President Kuukpik Corporation P.O. Box 89187 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Nukapigak:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Annie Gray
Executive Director
Kuukpikmiut Subsistence Oversight Panel, Inc.
P.O. Box 89126
Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Ms. Gray:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Eli Nukapigak Kuukpikmiut Subsistence Oversight Panel, Inc. P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Nukapigak:

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Thomas Napageak Jr. Kuukpikmiut Subsistence Oversight Panel, Inc. P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Napageak:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Jonah Nukapigak Kuukpikmiut Subsistence Oversight Panel, Inc. P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Nukapigak:

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Frank Oyagak Jr. Kuukpikmiut Subsistence Oversight Panel, Inc. P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Oyagak:

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Theodore Pasanna Kuukpikmiut Subsistence Oversight Panel, Inc. P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Pasanna:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record

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2011 February Community Meeting Invitation Letters

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Mayor Edward Itta North Slope Borough P.O. Box 69 Barrow, AK 99723

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mayor Itta:

ION Geophysical, Corporation (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical complications with our source vessel, the *BOS Atlantic*. The 2011 ION BeaufortSPANTM West Program operations are proposed for October 1 through mid-December, 2011.

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Thank you, in advance, for taking the time to meet with us regarding the 2011 ION BeaufortSPANTM West Program. It is important we hear your comments and suggestions. We look forward to working with you as we gear-up for 2011 activities.

If you have any questions, please do not hesitate to contact me at Edward.Nelson@iongeo.com, Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or via email at Michelle.Turner@asrcenergy.com, or Maggie Ahmaogak with AES at 907-334-1566 or via email at Maggie.Ahmaogak@asrcenergy.com.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Andy Mack, North Slope Borough

Michelle Turner, AES Maggie Ahmaogak, AES

AES Project File

Administrative Record





Ms. Taqulik Hepa North Slope Borough Department of Wildlife Management P.O. Box 69 Barrow, AK 99723

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Ms. Hepa:

ION Geophysical, Corporation (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical complications with our source vessel, the *BOS Atlantic*. The 2011 ION BeaufortSPANTM West Program operations are proposed for October 1 through mid-December, 2011.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Robert Suydam, NSB

Harry Brower, NSB Todd Sformo, NSB Michelle Turner, AES Maggie Ahmaogak, AES

AES Project File Administrative Record





Ms. Doreen Lampe Inupiat Community of the Arctic Slope P.O. Box 1121 Barrow, AK 99723

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Ms. Lampe:

ION Geophysical, Corporation (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical complications with our source vessel, the *BOS Atlantic*. The 2011 ION BeaufortSPANTM West Program operations are proposed for October 1 through mid-December, 2011.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Lloyd Paningona, ICAS

Michelle Turner, AES Maggie Ahmaogak, AES AES Project File

Administrative Record





Mr. Thomas Olemaun Native Village of Barrow P.O. Box 1130 Barrow, AK 99723

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mr. Olemaun:

ION Geophysical, Corporation (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical complications with our source vessel, the *BOS Atlantic*. The 2011 ION BeaufortSPANTM West Program operations are proposed for October 1 through mid-December, 2011.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Michelle Turner, AES

Maggie Ahmaogak, AES

AES Project File Administrative Record





Mr. Harry Brower Alaska Eskimo Whaling Commission P.O. Box 570 Barrow, AK 99723

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mr. Brower:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Arnold Brower Jr., AEWC

Michelle Turner, AES Maggie Ahmaogak, AES

AES Project File Administrative Record





Mr. Joseph Sage Alaska Eskimo Walrus Commission c/o Native Village of Barrow P.O. Box 1130 Barrow, AK 99723

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mr. Sage:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Michelle Turner, AES

Maggie Ahmaogak, AES

AES Project File

Administrative Record





Mr. Eugene Brower Barrow Whaling Captains' Association P.O. Box 4927 Barrow, AK 99723

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mr. Brower:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: George Ahmaogak, Sr., Barrow Whaling Captains' Association

Michelle Turner, AES Maggie Ahmaogak, AES

AES Project File Administrative Record





Mr. Fenton Rexford Kaktovik Whaling Captains' Association P.O. Box 137 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mr. Rexford:

ION Geophysical, Corporation (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical complications with our source vessel, the *BOS Atlantic*. The 2011 ION BeaufortSPANTM West Program operations are proposed for October 1 through mid-December, 2011.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Michelle Turner, AES

Maggie Ahmaogak, AES

AES Project File

Administrative Record

MM/MT/NS/GS

15356-02-11-001/11-018





Mr. Isaac Akootchook Native Village of Kaktovik P.O. Box 130 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mr. Akootchook:

ION Geophysical, Corporation (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical complications with our source vessel, the *BOS Atlantic*. The 2011 ION BeaufortSPANTM West Program operations are proposed for October 1 through mid-December, 2011.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Fenton Rexford, Native Village of Kaktovik

Michelle Turner, AES Maggie Ahmaogak, AES

AES Project File Administrative Record





Mr. Nathan Gordon Kaktovik Inupiat Corporation P.O. Box 73 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mr. Gordon:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Phillip Tikluk, Kaktovik Inupiat Corporation

Michelle Turner, AES Maggie Ahmaogak, AES

AES Project File Administrative Record





Billy Oyagak President Nuiqsut Whaling Captains' Association P.O. Box 89013 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed Until 2011

Dear Mr. Oyagak:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2010. The ION BeaufortSPANTM West Program operations were planned for October 1, 2010 through mid-December 2010. However, the source vessel, *BOS Atlantic*, experienced an equipment failure and will be returning to dock in Seattle, Washington. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2011 and run through mid-December 2011.

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corp.

cc: Michelle Turner, AES

AES Project File Administrative Record





Ms. Annie Tikluk City of Kaktovik P.O. Box 27 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Ms. Tikluk:

ION Geophysical, Corporation (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical complications with our source vessel, the *BOS Atlantic*. The 2011 ION BeaufortSPANTM West Program operations are proposed for October 1 through mid-December, 2011.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Michelle Turner, AES

Maggie Ahmaogak, AES

AES Project File

Administrative Record

MM/MT/NS/GS

15356-02-11-001/11-018





Mr. Thomas Napageak Jr. City of Nuiqsut P.O. Box 89148 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mr. Napageak:

ION Geophysical, Corporation (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical complications with our source vessel, the *BOS Atlantic*. The 2011 ION BeaufortSPANTM West Program operations are proposed for October 1 through mid-December, 2011.

We are expecting to hold community meetings for the general public in Barrow, Nuiqsut, and Kaktovik to provide an update on the 2011 program and obtain feedback on the project. On behalf of ION, my colleagues and I would like to invite you to the community meeting on 2/21/2011 from 7:00 pm - 9:00 pm at the Kisik Community Center.

Thank you, in advance, for taking the time to meet with us regarding the 2011 ION BeaufortSPANTM West Program. It is important we hear your comments and suggestions. We look forward to working with you as we gear-up for 2011 activities.

If you have any questions, please do not hesitate to contact me at Edward.Nelson@iongeo.com, Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or via email at Michelle.Turner@asrcenergy.com, or Maggie Ahmaogak with AES at 907-334-1566 or via email at Maggie.Ahmaogak@asrcenergy.com.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Michelle Turner, AES

Maggie Ahmaogak, AES

AES Project File

Administrative Record





Ms. Bernice Kaigelak Native Village of Nuiqsut P.O. Box 169 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Ms. Kaigelak:

ION Geophysical, Corporation (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical complications with our source vessel, the *BOS Atlantic*. The 2011 ION BeaufortSPANTM West Program operations are proposed for October 1 through mid-December, 2011.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Michelle Turner, AES

Maggie Ahmaogak, AES

AES Project File Administrative Record

MM/MT/NS/GS

15356-02-11-001/11-018





Mr. Isaac Nukapigak Kuukpik Corporation P.O. Box 89187 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mr. Nukapigak:

ION Geophysical, Corporation (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical complications with our source vessel, the *BOS Atlantic*. The 2011 ION BeaufortSPANTM West Program operations are proposed for October 1 through mid-December, 2011.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Michelle Turner, AES

Maggie Ahmaogak, AES

AES Project File Administrative Record





Ms. Annie Gray Kuukpikmiut Subsistence Oversight Panel, Inc. P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Ms. Gray:

ION Geophysical, Corporation (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical complications with our source vessel, the *BOS Atlantic*. The 2011 ION BeaufortSPANTM West Program operations are proposed for October 1 through mid-December, 2011.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Eli Nukapigak, KSOP

Thomas Napageak, Jr., KSOP

Eli Kilapsuk, KSOP Jonah Nukapigak, KSOP

Frank Oyagak, Jr., KSOP

Theodore Pausanna, KSOP

Michelle Turner, AES

Maggie Ahmaogak, AES

AES Project File

Administrative Record





Mr. Herbert Ipalook Nuiqsut Whaling Captains' Association P.O. Box 89013 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mr. Ipalook:

ION Geophysical, Corporation (ION) is proposing to conduct a 2D marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical complications with our source vessel, the *BOS Atlantic*. The 2011 ION BeaufortSPANTM West Program operations are proposed for October 1 through mid-December, 2011.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Michelle Turner, AES

Maggie Ahmaogak, AES

AES Project File Administrative Record

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2011 April Notification of Nuiqsut Meeting Cancellation Because of Weather

 ION Geophysical
 July 2012

 15378-03 12-030A
 Rev. 2

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Thomas Napageak Jr. Mayor City of Nuiqsut P.O. Box 89148 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mr. Napageak:

As you may know, ION Geophysical, Corporation (ION) scheduled a meeting with the community leadership of Nuiqsut for April 19, 2011. Unfortunately, we were unable to get to Nuiqsut on that date due to weather conditions. We apologize for not being able to hold the meeting as planned and appreciate your understanding.

The purpose of the meeting was to provide an update on the 2011 ION BeaufortSPANTM West program and obtain feedback on the project. ION is proposing to conduct a two-dimensional (2D) marine seismic survey in the Beaufort Sea during fall 2011. The original 2010 program was postponed due to technical problems with our source vessel, the *BOS Atlantic*. The 2011 program operations are scheduled for October 1 through mid-December 2011.

Included with this letter is a copy of the presentation that would have been given at the April meeting. Though we could not make it to Nuiqsut in April, we would appreciate hearing your comments and suggestions. We expect to hold another round of meetings in August, but please feel free contact us before then.

Thank you, in advance, for taking the time to look over the materials regarding the 2011 ION BeaufortSPANTM West Program. We look forward to working with you as we gear up for 2011 activities.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

Enclosure: 2011 ION BeaufortSPANTM West Program Presentation

cc: Michelle Turner, AES Meghan Larson, AES

AES Project File Administrative Record





Bernice Kaigelak President Native Village of Nuiqsut P.O. Box 89169 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Ms. Kaigelak:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

Enclosure: 2011 ION BeaufortSPANTM West Program Presentation

cc: Michelle Turner, AES

Meghan Larson, AES AES Project File Administrative Record





Isaac Nukapigak President Kuukpik Corporation P.O. Box 89187 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Mr. Nukapigak:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

Enclosure: 2011 ION BeaufortSPANTM West Program Presentation

cc: Michelle Turner, AES

Meghan Larson, AES AES Project File Administrative Record





Herbert Ipalook President Nuiqsut Whaling Captains' Association P.O. Box 89013 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Proposed 2011 Program

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

Enclosure: 2011 ION BeaufortSPANTM West Program Presentation

cc: Michelle Turner, AES

Meghan Larson, AES AES Project File Administrative Record





Annie Gray Executive Director Kuukpikmiut Subsistence Oversight Panel, Inc. P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Proposed 2011 Program

Dear Ms. Gray:

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Sincerely,

Ed Nelson

Project Manager

ION Geophysical, Corporation

Enclosure: 2011 ION BeaufortSPANTM West Program Presentation





cc: Eli Nukapigak

Thomas Napageak Jr., Jonah Nukapigak Frank Oyagak Jr. Theodore Pausanna Gordon Brown Dora Leavitt

Michelle Turner, AES Meghan Larson, AES AES Project File Administrative Record

2011 April Letter Responses to Questions Asked at the February 2011 Planning Commission Meeting

 ION Geophysical
 July 2012

 15378-03 12-030A
 Rev. 2

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April 18, 2011

North Slope Borough Planning Commission Attention: Margie Fisher P.O. Box 69 Barrow, Alaska 99723

Re: ION 2011 BeaufortSPANTM West Program

Dear Commissioners:

Thank you for allowing ION Geophysical, Corporation (ION) to present information on our proposed 2011 BeaufortSPANTM West Program at the February 24th Planning Commission meeting. We appreciate the comments we received. ION will not be able to attend the April 28th Planning Commission meeting, but we wanted to provide a prompt response to your questions. Both the question and ION's response are provided below.

Question: The Planning Commission would like a report of the seismic activity and any additional studies. **Response:** ION will provide the Commission with a report after completion of the 2011 BeaufortSPANTM West Program.

Question: How far offshore is the vessel during transit when in the Chukchi Sea?

Response: The U.S. Coast Guard will be directing the vessel during transit in the Chukchi Sea. We will know the offshore distance approximately one week ahead of time.

Question: What effect do sound waves have on plankton or krill and other organisms?

Response: The impacts of seismic surveys on krill and other plankton are expected to be limited to those organisms within a few yards of the airguns. These impacts may include slowed development of exposed eggs, "stunned" organisms, or other injuries. Organisms more than a few yards away from the airguns should not be affected.

Question: Last season there was seismic activity in Canada. Did you do any recordings so we can hear how the sound travels? If so, can you bring that sound recording to Kaktovik?

Response: Ion will bring movies of the seismic activity in the Canadian Beaufort from last season to Kaktovik so that residents can see how data is acquired. New sound source verification tests (SSVs) will be required by the National Marine Fisheries Service under the Incidental Harassments Authorization for the 2011 U.S. work since the location and time period are different from previous SSVs.

Question: Last season our Canadian relatives saw two dead whales on the beach. Did ION have anything to do with this?

Response: According to the Canadian government Department of Fisheries and Oceans and Parks Canada, there was only one whale carcass that washed up on the beach. It washed up near Stokes Point in Ivvavik National Park on July 30, 2010 and was in an advanced state of decay, suggesting that it may have died in 2009. It was observed a second time in that location months later during a flyover on an unrelated project. No harmful impacts to whales or other marine mammals were observed in the Canadian Beaufort during the 2010 open water season by marine mammal observers.





Question: Is industry doing any research into limiting the sound that gets put in the water such as bubble curtains? **Response:** ION is not currently conducting research on techniques to limit the sound that is put into the water.

Question: Is ION looking into Safe Harbor areas and using a local liaison to identify those areas?

Response: ION has discussed Safe Harbor with community members in Nuigsut and Barrow. We will be

discussing emergency response and Safe harbor with NSB Search and Rescue on April 20th.

If you would like to discuss the 2011 ION BeaufortSPANTM West Program please do not hesitate to contact me at <u>Edward.Nelson@iongeo.com</u> or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or <u>Michelle.Turner@asrcenergy.com</u>.

Sincerely,

Ed Nelson

Project Manager

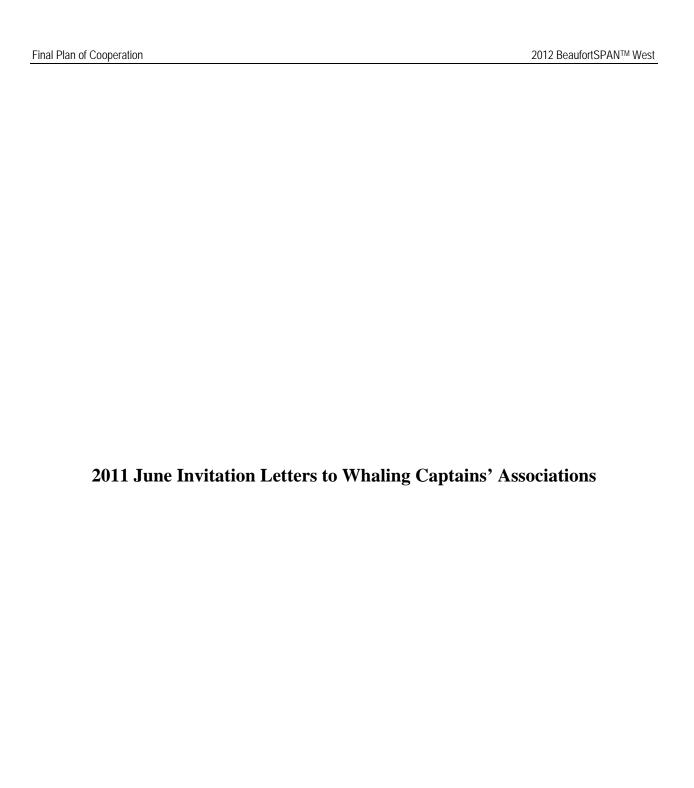
ION Geophysical, Corporation

cc: Michelle Turner, AES

AES Project File Administrative Record

Administrative Record

CG/MT/NS/GS 15356-02-11-002/11-044



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June 24, 2011

Barrow Whaling Captains' Association Eugene Brower, President P.O. Box 492 Barrow, AK 99723

Re: Request to Meet With Barrow Whaling Captains' Association on August 17, 2011

Dear Mr. Brower:

ION Geophysical, Corporation (ION) is planning on conducting an exploratory two-dimensional marine seismic survey in the Beaufort Sea of Alaska. The proposed survey, titled the BeaufortSPANTM West Program, will occur in broken ice conditions during early winter from October 1, 2011 through mid-December 2011. This program was originally proposed for fall 2010, but was delayed due to equipment issues. The primary project area will extend from the U.S./Canadian border in the east to Point Barrow in the west. All activity will occur in federal waters.

Based upon input from affected communities and the fact that ION's activities occur after the completion of fall whaling, ION believes that there is no possibility for conflict to occur; therefore, we have decided not to sign the 2011 Conflict Avoidance Agreement. ION informed the Alaska Eskimo Whaling Commission of this decision in a letter dated February 28, 2011, and publicly announced it in April, 2011, at the Open Water Meeting sponsored by the National Marine Fisheries Service.

We will be in Barrow on the evening of Wednesday, August 17, 2011, for a community meeting and would welcome the opportunity to also meet with you and the Barrow Whaling Captains' Association prior to that meeting to discuss ION's proposed project We believe that it is in the best interests of all parties to discuss proposed activities and appreciate your willingness to meet with us.

Please feel free to forward this invitation to the other members of the Barrow Whaling Captains' Association and let me know if a meeting is possible. Any questions or concerns, you can contact me at Edward.Nelson@iongeo.com or 832-344-6852.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Harry Brower, AEWC

Johnny Aiken, AEWC AES Project File Administrative Record

ER/ MT/NS 15356-02-11-004/11-109





June 24, 2011

Kaktovik Whaling Captains' Association Charlie M. Brower, President P.O. Box 41 Kaktovik, AK 99747

Re: Request to Meet With Kaktovik Whaling Captains' Association on August 16, 2011

Dear Mr. Brower:

ION Geophysical, Corporation (ION) is planning on conducting an exploratory two-dimensional marine seismic survey in the Beaufort Sea of Alaska. The proposed survey, titled the BeaufortSPANTM West Program, will occur in broken ice conditions during early winter from October 1, 2011 through mid-December 2011. This program was originally proposed for fall 2010, but was delayed due to equipment issues. The primary project area will extend from the U.S./Canadian border in the east to Point Barrow in the west. All activity will occur in federal waters.

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We will be in Kaktovik on Tuesday, August 16, 2011 for a community meeting and would welcome the opportunity to also meet with you and the Kaktovik Whaling Captains' Association prior to that meeting to discuss the proposed project. We believe that it is in the best interests of all parties to discuss proposed activities and appreciate your willingness to meet with us.

Please feel free to forward this invitation to the other members of the Kaktovik Whaling Captains' Association and let me know if a meeting is possible. Any questions or concerns, you can contact me at Edward.Nelson@iongeo.com or 832-344-6852.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Harry Brower, Alaska Eskimo Whaling Commission

Johnny Aiken, Alaska Eskimo Whaling Commission

AES Project File Administrative Record

ER/ MT/NS 15356-02-11-004/11-109





June 24, 2011

Nuiqsut Whaling Captains' Association Herbert Ipalook, President P.O. Box 89183 Nuiqsut, AK 99789

Re: Request to Meet With Nuiqsut Whaling Captains' Association on August 18, 2011

Dear Mr. Ipalook:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Harry Brower, AEWC

Johnny Aiken, AEWC AES Project File Administrative Record

ER/ MT/NS 15356-02-11-004/11-109

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2011 July Notification of Program Delay

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Taqulik Hepa, Director NSB Department of Wildlife Management P.O. Box 69 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed until 2012

Dear Ms. Hepa:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2011. The ION BeaufortSPANTM West Program operations were planned for October 1, 2011, through mid-December 2011. However, we have not received adequate confirmation from Transport Canada that the *Polar Explorer* will be allowed to transit the Northwest Passage in early October to justify committing the vessel to the ION BeaufortSPANTM West Program. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2012, and run through mid-December 2012.

If you have any questions, please do not hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or Michelle.Turner@asrcenergy.com.

Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES

AES Project File Administrative Record





Hugh Patkotak, Sr., Director NSB Search and Rescue P.O. Box 69 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed until 2012

Dear Mr. Patkotak:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2011. The ION BeaufortSPANTM West Program operations were planned for October 1, 2011, through mid-December 2011. However, we have not received adequate confirmation from Transport Canada that the *Polar Explorer* will be allowed to transit the Northwest Passage in early October to justify committing the vessel to the ION BeaufortSPANTM West Program. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2012, and run through mid-December 2012.

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Once again, thank you for your time.

Sincerely,

Ed Nelson

Project Manager

ION Geophysical Corporation

cc: Price Brower, NSB Search and Rescue

Pat Patterson, NSB Search and Rescue

Michelle Turner, AES AES Project File

Administrative Record

ML/MT/LO/GS

15356-02-11-008/11-119





Edward Itta, Mayor North Slope Borough P.O. Box 69 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed until 2012

Dear Mayor Itta:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2011. The ION BeaufortSPANTM West Program operations were planned for October 1, 2011, through mid-December 2011. However, we have not received adequate confirmation from Transport Canada that the *Polar Explorer* will be allowed to transit the Northwest Passage in early October to justify committing the vessel to the ION BeaufortSPANTM West Program. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2012, and run through mid-December 2012.

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Andy Mack, NSB

Michelle Turner, AES AES Project File

Administrative Record



+

July 14, 2011

Thomas Olemaun, Executive Director Native Village of Barrow P.O. Box 1130 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Olemaun:

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES AES Project File

Administrative Record





Price Leavitt, Executive Director Inupiat Community of the Arctic Slope P.O. Box 1121 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Leavitt:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2011. The ION BeaufortSPANTM West Program operations were planned for October 1, 2011, through mid-December 2011. However, we have not received adequate confirmation from Transport Canada that the *Polar Explorer* will be allowed to transit the Northwest Passage in early October to justify committing the vessel to the ION BeaufortSPANTM West Program. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2012 and run through mid-December 2012.

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES AES Project File

Administrative Record



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July 14, 2011

Joseph Sage, Natural Resource Director Native Village of Barrow P.O. Box 1130 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Sage:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2011. The ION BeaufortSPANTM West Program operations were planned for October 1, 2011, through mid-December 2011. However, we have not received adequate confirmation from Transport Canada that the *Polar Explorer* will be allowed to transit the Northwest Passage in early October to justify committing the vessel to the ION BeaufortSPANTM West Program. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2012 and run through mid-December 2012.

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES AES Project File

Administrative Record





Johnny Aiken, Executive Director Alaska Eskimo Whaling Commission P.O. Box 570 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Aiken:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2011. The ION BeaufortSPANTM West Program operations were planned for October 1, 2011, through mid-December 2011. However, we have not received adequate confirmation from Transport Canada that the *Polar Explorer* will be allowed to transit the Northwest Passage in early October to justify committing the vessel to the ION BeaufortSPANTM West Program. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2012 and run through mid-December 2012.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES AES Project File

Administrative Record



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July 14, 2011

Harry Brower Jr., President Alaska Eskimo Whaling Commission P.O. Box 570 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Brower:

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Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES AES Project File

Administrative Record



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July 14, 2011

Eugene Brower, President Barrow Whaling Captains Barrow Whaling Captain Association P.O. Box 4927 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Brower:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES AES Project File

Administrative Record





Doreen Lampe, President Inupiat Community of the Arctic Slope P.O. Box 1121 Barrow, AK 99723

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Ms. Lampe:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES AES Project File

Administrative Record





Nora Jane Burns NSB Village Coordinator P.O. Box 102 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Ms. Burns:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES
AES Project File
Administrative Record





Fenton Rexford, Executive Director Native Village of Kaktovik P.O. Box 130 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Rexford:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES
AES Project File
Administrative Record





Charles Brower, President Kaktovik Whaling Captains Kaktovik Whaling Captain Association P.O. Box 137 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Brower and Kaktovik Whaling Captains:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES

AES Project File Administrative Record





Annie Tikluk, Mayor City of Kaktovik P.O. Box 27 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Ms. Tikluk:

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Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES
AES Project File
Administrative Record





Isaac Akootchook, President Native Village of Kaktovik P.O. Box 130 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Akootchook:

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Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES
AES Project File
Administrative Record





Phillip Tikluk, President Kaktovik Inupiat Corporation P.O. Box 73 Kaktovik, AK 99747

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Tikluk:

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Ed Nelson Project Manager

ION Geophysical Corporation

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Administrative Record





Theodore Pausanna Kuukpik Corporation/KSOP Board P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Pausanna:

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Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES
AES Project File
Administrative Record





Jonah Nukapigak Kuukpik Corporation/KSOP Board P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Nukapigak:

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Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES
AES Project File
Administrative Record





Isaac Nukapigak, President Kuukpik Corporation P.O. Box 89187 Nuiqsut, AK 99789

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Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES
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Herbert Ipalook, President Nuiqsut Whaling Captains Nuiqsut Whaling Captain Association P.O. Box 89103 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Ipalook and Nuiqsut Whaling Captains:

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Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES

AES Project File Administrative Record





Gordon Brown Jr. Kuukpik Corporation/KSOP Board P.O. Box 89126 Nuigsut, AK 99789

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ION Geophysical Corporation

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Frank Oyapak III KSOP Board P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

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AES Project File
Administrative Record





Eunice Brower, Executive Director KSOP Board P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Ms. Brower:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2011. The ION BeaufortSPANTM West Program operations were planned for October 1, 2011, through mid-December 2011. However, we have not received adequate confirmation from Transport Canada that the *Polar Explorer* will be allowed to transit the Northwest Passage in early October to justify committing the vessel to the ION BeaufortSPANTM West Program. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2012, and run through mid-December 2012.

We would like to invite you to meet with ION in Nuiqsut on August 18, 2011, to discuss the 2012 program. The meeting is scheduled from 1:00 p.m. to 3:00 p.m. at the Kisik Community Center.

On behalf of ION and my colleagues, I would like to thank you for taking the time to meet with us regarding the ION BeaufortSPANTM West Program. We appreciate the comments and suggestions you provide regarding our planned operations. We look forward to working with you as we gear up for 2012 activities.

If you have any questions, please do not hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or Michelle.Turner@asrcenergy.com.

Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES
AES Project File
Administrative Record





Eli Nukapigak Native Village of Nuiqsut/KSOP Board P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Nukapigak:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2011. The ION BeaufortSPANTM West Program operations were planned for October 1, 2011, through mid-December 2011. However, we have not received adequate confirmation from Transport Canada that the *Polar Explorer* will be allowed to transit the Northwest Passage in early October to justify committing the vessel to the ION BeaufortSPANTM West Program. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2012, and run through mid-December 2012.

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If you have any questions, please do not hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or Michelle.Turner@asrcenergy.com.

Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES
AES Project File
Administrative Record





Dora Leavitt KSOP Board P.O. Box 89126 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Ms. Leavitt:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2011. The ION BeaufortSPANTM West Program operations were planned for October 1, 2011, through mid-December 2011. However, we have not received adequate confirmation from Transport Canada that the *Polar Explorer* will be allowed to transit the Northwest Passage in early October to justify committing the vessel to the ION BeaufortSPANTM West Program. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2012, and run through mid-December 2012.

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If you have any questions, please do not hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or Michelle.Turner@asrcenergy.com.

Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES
AES Project File
Administrative Record





Bernice Kaigelak, President Native Village of Nuiqsut P.O. Box 169 Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Ms. Kaigelak:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2011. The ION BeaufortSPANTM West Program operations were planned for October 1, 2011, through mid-December 2011. However, we have not received adequate confirmation from Transport Canada that the *Polar Explorer* will be allowed to transit the Northwest Passage in early October to justify committing the vessel to the ION BeaufortSPANTM West Program. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2012, and run through mid-December 2012.

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If you have any questions, please do not hesitate to contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or Michelle.Turner@asrcenergy.com.

Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES
AES Project File
Administrative Record





July 14, 2011

Thomas Napageak Jr.
Mayor and Chairman
City of Nuiqsut/Native Village of Nuiqsut/KSOP Board
P.O. Box 89126
Nuiqsut, AK 99789

Re: ION BeaufortSPANTM West Program Delayed until 2012 and Invitation to Meet

Dear Mr. Napageak:

ION Geophysical, Corp. (ION) proposed conducting a 2D marine seismic survey in the Beaufort Sea during fall 2011. The ION BeaufortSPANTM West Program operations were planned for October 1, 2011, through mid-December 2011. However, we have not received adequate confirmation from Transport Canada that the *Polar Explorer* will be allowed to transit the Northwest Passage in early October to justify committing the vessel to the ION BeaufortSPANTM West Program. As a result, the BeaufortSPANTM West Program will be delayed for one year. ION anticipates that the proposed program will begin October 1, 2012, and run through mid-December 2012.

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Once again, thank you for your time.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation

cc: Michelle Turner, AES

AES Project File Administrative Record

ML/MT/LO/GS 15356-02-11-008/11-119

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2011 August Reminder E-mails for Barrow Whaling Captains' Meeting

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From: Ahmaogak, Maggie

Thursday, August 11, 2011 9:13 AM Sent:

To: Edward Itta: tribal@inupiatgov.com: Rock, Rex: aedwardsen@ukpik.com: Bob Harcharek:

tolemaun@nvbarrow.net; eugenebrower@gci.net; Harry Brower; aewc1@gci.net

Cc: Turner, Michelle

Subject: ION Geophysical Meeting for August 17, 2011 ASRC 3rd Floor Conference Room

August 11, 2011

Edward S. Itta, Mayor, North Slope Borough Doreen Lampe, President, Inupiat Community of the Arctic Slope Price Leavitt, Executive Director, Inupiat Community of the Arctic Slope Rex Rock, Sr., President, Arctic Slope Regional Corporation Anthony Edwardsen, President, Ukpeagvik Inupiat Corporation Robert Harcharek, Mayor, City of Barrow Thomas Olemaun, President/Executive Director, Native Village of Barrow Eugene Brower, President, Barrow Whaling Captains' Association Harry Brower Jr., Chairman, Alaska Eskimo Whaling Commission Johnny Aiken, Executive Director, Alaska Eskimo Whaling Commission

Dear All:

This email is sent as a reminder that Ed Nelson, Project Manager for ION Geophysical Corporation invited the Barrow Leadership to meet on August 17 to discuss their 2012 program. The meeting is scheduled from 1:00 to 3:00 pm at the ASRC 3rd Floor Conference room.

The meeting is in the ASRC Office 3rd Floor Conference room. If you have any guestions, please do not hesitate to contact Michelle Turner,

AES/ION Senior Project Manager at (907) 339-5460 or Michelle.Turner@asrcenergy.com or Maggie Ahmaogak, AES Community Relations Coordinator at (907)334-1566 or Maggie.Ahmaogak@asrcenergy.com. Thank you

Maggie Ahmaogak

Community Relations Coordinator | RTS ASRC Energy Services Alaska, Inc. 2700 Gambell St, Suite 200 Anchorage, AK 99503

Desk: 907-334-1566 | Cell: 907-250-0083



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Response to Reminder E-mails for Barrow Whaling Captains' Meeting

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From: Harry Brower [Harry.Brower@north-slope.org]

Sent: Friday, August 12, 2011 8:55 AM

To: Ahmaogak, Maggie; Edward Itta; tribal@inupiatgov.com; Rock, Rex;

aedwardsen@ukpik.com; Bob Harcharek; tolemaun@nvbarrow.net; C. Eugene Brower;

aewc1@gci.net

Cc: Turner, Michelle

Subject: RE: ION Geophysical Meeting for August 17, 2011 ASRC 3rd Floor Conference Room

Good morning to all, I have prior commitments on Aug. 17 2011 to be in Point Hope, I will not be here in Barrow for the meeting. HB.

From: Ahmaogak, Maggie [mailto:Maggie.Ahmaogak@asrcenergy.com]

Sent: Thursday, August 11, 2011 9:13 AM

To: Edward Itta; tribal@inupiatgov.com; Rock, Rex; aedwardsen@ukpik.com; Bob Harcharek; tolemaun@nvbarrow.net;

C. Eugene Brower; Harry Brower; aewc1@qci.net

Cc: Turner, Michelle

Subject: ION Geophysical Meeting for August 17, 2011 ASRC 3rd Floor Conference Room

August 11, 2011

Edward S. Itta, Mayor, North Slope Borough

Doreen Lampe, President, Inupiat Community of the Arctic Slope

Price Leavitt, Executive Director, Inupiat Community of the Arctic Slope

Rex Rock, Sr., President, Arctic Slope Regional Corporation

Anthony Edwardsen, President, Ukpeagvik Inupiat Corporation

Robert Harcharek, Mayor, City of Barrow

Thomas Olemaun, President/Executive Director, Native Village of Barrow

Eugene Brower, President, Barrow Whaling Captains' Association

Harry Brower Jr., Chairman, Alaska Eskimo Whaling Commission

Johnny Aiken, Executive Director, Alaska Eskimo Whaling Commission

Dear All:

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The meeting is in the ASRC Office 3rd Floor Conference room. If you have any questions, please do not hesitate to contact Michelle Turner,

AES/ION Senior Project Manager at (907) 339-5460 or <u>Michelle.Turner@asrcenergy.com</u> or Maggie Ahmaogak, AES Community Relations Coordinator at (907)334-1566 or <u>Maggie.Ahmaogak@asrcenergy.com</u>. Thank you

Maggie Ahmaogak

Community Relations Coordinator |RTS ASRC Energy Services Alaska, Inc. 2700 Gambell St, Suite 200 Anchorage, AK 99503

Desk: 907-334-1566 | Cell: 907-250-0083



From: Ahmaogak, Maggie

Sent:Friday, August 12, 2011 7:13 AMTo:Turner, Michelle; Larson, MeghanSubject:FW: ION August 17, 2011 Meeting

From: Eugene Brower [mailto:eugenebrower@gci.net]

Sent: Friday, August 12, 2011 12:20 AM

To: Ahmaogak, Maggie **Cc:** <u>jadams@qci.net</u>

Subject: Re: ION August 17, 2011 Meeting

I have not inform the Barrow whalers of this meeting and request that the meeting is rescheduled to Aug. 26,2011 due to other commimmitments I am out of town from Aug 14, until Aug. 19, 2011. Thanks Eugene----- Original Message -----

From: Ahmaogak, Maggie
To: eugenebrower@gci.net
Cc: jadams@gci.net

Sent: Monday, August 08, 2011 12:48 PM Subject: ION August 17, 2011 Meeting

Good Afternoon, Eugene:

I hope that this email goes thru and finds you well. I am emailing you to find out if the Barrow whaling captains have been notified of the ION meeting on August 17, 2011 at the 3rd Floor ASRC Conference room from 1:00 to 3:00 PM to discuss ION's Delaying their 2011 Program and to discuss their 2012 ION Program. Thank you for your response, in advance. Your letter was dated July 14, 2011 which was sent to you inviting the Barrow whaling captains to this meeting. Quyannaq!

Maggie Ahmaogak, AES Community Relations Coordinator

Maggie Ahmaogak

Community Relations Coordinator |RTS ASRC Energy Services Alaska, Inc. 2700 Gambell St, Suite 200 Anchorage, AK 99503

Desk: 907-334-1566 | Cell: 907-250-0083



From: Ahmaogak, Maggie

Sent: Friday, August 12, 2011 7:14 AM
To: Turner, Michelle; Larson, Meghan

Subject: FW: ION Geophysical Meeting for August 17, 2011 ASRC 3rd Floor Conference Room

From: Eugene Brower [mailto:eugenebrower@gci.net]

Sent: Friday, August 12, 2011 12:23 AM

To: Ahmaogak, Maggie; Edward Itta; tribal@inupiatqov.com; Rock, Rex; aedwardsen@ukpik.com; Bob Harcharek;

tolemaun@nvbarrow.net; Harry Brower; aewc1@gci.net

Cc: Turner, Michelle

Subject: Re: ION Geophysical Meeting for August 17, 2011 ASRC 3rd Floor Conference Room

Due to other comminmitents I am not available for this meeting date and request it be change to Aug.24, or 26. Thanks Eugene Brower President of Barrow Whaling Captains Association

---- Original Message -----

From: Ahmaogak, Maggie

To: Edward Itta; tribal@inupiatgov.com; Rock, Rex; aedwardsen@ukpik.com; Bob Harcharek;

tolemaun@nvbarrow.net; eugenebrower@gci.net; Harry Brower; aewc1@gci.net

Cc: Turner, Michelle

Sent: Thursday, August 11, 2011 9:13 AM

Subject: ION Geophysical Meeting for August 17, 2011 ASRC 3rd Floor Conference Room

August 11, 2011

Edward S. Itta, Mayor, North Slope Borough

Doreen Lampe, President, Inupiat Community of the Arctic Slope

Price Leavitt, Executive Director, Inupiat Community of the Arctic Slope

Rex Rock, Sr., President, Arctic Slope Regional Corporation

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Dear All:

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AES/ION Senior Project Manager at (907) 339-5460 or Michelle.Turner@asrcenergy.com or Maggie Ahmaogak, AES Community Relations Coordinator at (907)334-1566 or Maggie.Ahmaogak@asrcenergy.com. Thank you

Maggie Ahmaogak

Community Relations Coordinator |RTS ASRC Energy Services Alaska, Inc.

1

2700 Gambell St, Suite 200 Anchorage, AK 99503 Desk: 907-334-1566 | Cell: 907-250-0083



From: Ahmaogak, Maggie

Sent: Friday, August 12, 2011 9:20 AM Larson, Meghan; Turner, Michelle

Subject: FW: ION Geophysical Meeting for August 17, 2011 ASRC 3rd Floor Conference Room

From: Marie Itta [mailto:Marie.Itta@north-slope.org] On Behalf Of Edward Itta

Sent: Friday, August 12, 2011 9:10 AM

To: Ahmaogak, Maggie; Edward Itta; tribal@inupiatqov.com; Rock, Rex; aedwardsen@ukpik.com; Bob Harcharek;

tolemaun@nvbarrow.net; C. Eugene Brower; Harry Brower; aewc1@gci.net

Cc: Turner, Michelle

Subject: RE: ION Geophysical Meeting for August 17, 2011 ASRC 3rd Floor Conference Room

On behalf of Mayor Itta, this is Marie Itta, Deputy Assistant

The Mayor has other commitments on the 17th as well. He will be out of town for meetings that have been on his calendar for some time.

Quyanaqpak

From: Ahmaogak, Maggie [mailto:Maggie.Ahmaogak@asrcenergy.com]

Sent: Thursday, August 11, 2011 9:13 AM

To: Edward Itta; tribal@inupiatgov.com; Rock, Rex; aedwardsen@ukpik.com; Bob Harcharek; tolemaun@nvbarrow.net;

C. Eugene Brower; Harry Brower; aewc1@gci.net

Cc: Turner, Michelle

Subject: ION Geophysical Meeting for August 17, 2011 ASRC 3rd Floor Conference Room

August 11, 2011

Edward S. Itta, Mayor, North Slope Borough

Doreen Lampe, President, Inupiat Community of the Arctic Slope

Price Leavitt, Executive Director, Inupiat Community of the Arctic Slope

Rex Rock, Sr., President, Arctic Slope Regional Corporation

Anthony Edwardsen, President, Ukpeagvik Inupiat Corporation

Robert Harcharek, Mayor, City of Barrow

Thomas Olemaun, President/Executive Director, Native Village of Barrow

Eugene Brower, President, Barrow Whaling Captains' Association

Harry Brower Jr., Chairman, Alaska Eskimo Whaling Commission

Johnny Aiken, Executive Director, Alaska Eskimo Whaling Commission

Dear All:

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Maggie Ahmaogak Community Relations Coordinator |RTS ASRC Energy Services Alaska, Inc. 2700 Gambell St, Suite 200 Anchorage, AK 99503 Desk: 907-334-1566 | Cell: 907-250-0083



2011 August Notification of Delay of Program Barrow Whaling Captains' Associations and Response

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August 12, 2011

Barrow Whaling Captains Association Eugene Brower, President P.O. Box 492 Barrow, AK 99723

Re: Request to Meet With Barrow Whaling Captains Association on August 17, 2011

Dear Mr. Brower:

Thank you for responding to our reminder that ION Geophysical, Corp. (ION) will be in Barrow on Wednesday, August 17, 2011, and would like to meet with you and the Barrow Whaling Captains Association. We understand that you will be unavailable to meet with ION. Unfortunately, we cannot reschedule our trip to Barrow for the following week.

We wanted to inform you in person that ION will be postponing its 2011 BeaufortSPANTM West Program until 2012.

As you are aware from our July 14, 2011, letter to Barrow Whaling Captains Association, ION is delaying the program because the original seismic source vessel, the *BOS Atlantic*, is no longer available. When ION was able to identify an alternative vessel, the *Polar Explorer*, there was not enough time to get adequate confirmation from Transport Canada that it would be allowed to transit the Northwest Passage. ION is planning on conducting the same program from October 1 through mid-December 2012.

If your schedule changes and you are available on August 17, 2011, we would appreciate it if you could join us. We will be meeting from 1:00 p.m. to 3:00 p.m. at the ASRC Office Conference Room on the 3rd floor.

Please feel free to inform other whaling captains of the August 17, 2011, meeting. If you have any questions, please contact me at Edward.Nelson@iongeo.com or 832-344-6852.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Corporation

cc: Harry Brower, AEWC

Johnny Aiken, AEWC Jake Adams, BWCA AES Project File Administrative Record

ML/ MT/MA/LO 15356-02-11-006/11-138

From: Ahmaogak, Maggie

Sent: Friday, August 12, 2011 12:08 PM
To: Marie.ltta@north-slope.org
Cc: Turner, Michelle; Ed Nelson

Subject: RE: ION Geophysical Meeting for August 17, 2011 ASRC 3rd Floor Conference Room

Marie:

Thank you for responding on behalf of Mayor Edward Itta, if he cannot attend he can designate a representative to this meeting. Thank you.

Maggie

From: Marie Itta [mailto:Marie.Itta@north-slope.org] On Behalf Of Edward Itta

Sent: Friday, August 12, 2011 9:10 AM

To: Ahmaogak, Maggie; Edward Itta; tribal@inupiatgov.com; Rock, Rex; aedwardsen@ukpik.com; Bob Harcharek;

tolemaun@nvbarrow.net; C. Eugene Brower; Harry Brower; aewc1@gci.net

Cc: Turner, Michelle

Subject: RE: ION Geophysical Meeting for August 17, 2011 ASRC 3rd Floor Conference Room

On behalf of Mayor Itta, this is Marie Itta, Deputy Assistant

The Mayor has other commitments on the 17th as well. He will be out of town for meetings that have been on his calendar for some time.

Quyanaqpak

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Sent: Thursday, August 11, 2011 9:13 AM

To: Edward Itta; tribal@inupiatgov.com; Rock, Rex; aedwardsen@ukpik.com; Bob Harcharek; tolemaun@nvbarrow.net;

C. Eugene Brower; Harry Brower; aewc1@qci.net

Cc: Turner, Michelle

Subject: ION Geophysical Meeting for August 17, 2011 ASRC 3rd Floor Conference Room

August 11, 2011

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Doreen Lampe, President, Inupiat Community of the Arctic Slope

Price Leavitt, Executive Director, Inupiat Community of the Arctic Slope

Rex Rock, Sr., President, Arctic Slope Regional Corporation

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Robert Harcharek, Mayor, City of Barrow

Thomas Olemaun, President/Executive Director, Native Village of Barrow

Eugene Brower, President, Barrow Whaling Captains' Association

Harry Brower Jr., Chairman, Alaska Eskimo Whaling Commission

Johnny Aiken, Executive Director, Alaska Eskimo Whaling Commission

Dear All:

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The meeting is in the ASRC Office 3rd Floor Conference room. If you have any questions, please do not hesitate to contact Michelle Turner,

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Maggie Ahmaogak

Community Relations Coordinator |RTS ASRC Energy Services Alaska, Inc. 2700 Gambell St, Suite 200 Anchorage, AK 99503

Desk: 907-334-1566 | Cell: 907-250-0083



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2012 January Community Meeting Invitation Letters

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Clarice Akootchook ASRC Village Liaison P.O. Box 75 Kaktovik, AK 99747

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Akootchook:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

We are planning to hold a public meeting in Kaktovik to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project. The Kaktovik public meeting is scheduled to take place on January 23, 2012 from 7:00pm to 9:00pm at the Community Center. We would like to extend a special invitation to you and any member of your organization to attend the public meeting and provide your input. Refreshments and door prizes will be provided. If you are available, we would be happy to meet with you at your convenience while we are in Nuiqsut.

If you have any questions please contact me at <u>Edward.Nelson@iongeo.com</u>, Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or <u>michelle.turner@asrcenergy.com</u>, or Meghan Larson with AES at 907-339-5492 or <u>Meghan.Larson@asrcenergy.com</u>.

Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Annie Tikluk City of Kaktovik P.O. Box 27 Kaktovik, AK 99747

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Tikluk:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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If you have any questions please contact me at <u>Edward.Nelson@iongeo.com</u>, Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or <u>michelle.turner@asrcenergy.com</u>, or Meghan Larson with AES at 907-339-5492 or <u>Meghan.Larson@asrcenergy.com</u>.

Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Nora Jane Burns City of Kaktovik P.O. Box 27 Kaktovik, AK 99747

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Burns:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Fenton Rexford Native Village of Kaktovik P.O. Box 137 Kaktovik, AK 99747

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Rexford:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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If you have any questions please contact me at <u>Edward.Nelson@iongeo.com</u>, Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or <u>michelle.turner@asrcenergy.com</u>, or Meghan Larson with AES at 907-339-5492 or <u>Meghan.Larson@asrcenergy.com</u>.

Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Philip Tikluk Jr. Kaktovik Inupiat Corporation P.O. Box 73 Kaktovik, AK 99747

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Tikluk Jr.:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Bert Akootchook Kaktovik Inupiat Corporation P.O. Box 73 Kaktovik, AK 99747

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Akootchook:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Joe Kaleak Kaktovik Whaling Captains' Association P.O. Box 83 Kaktovik, AK 99747

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Kaleak:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Mary Cabinboy ASRC Village Liaison P.O. Box 266 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Cabinboy:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Thomas "Kupa" Napageak Jr. City of Nuiqsut P.O. Box 89148 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Napageak:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Rhoda Bennet City of Nuiqsut P.O. Box 89148 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Bennet:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Bernice Kaigelak Native Village of Nuiqsut 2205 2nd Avenue Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Kaigelak:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Margaret Pardue Native Village of Nuiqsut 2205 2nd Avenue Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Pardue:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Isaac Nukapigak Nuiqsut Whaling Captains' Association P.O. Box 89187 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Nukapigak:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Joe Nukapigak Sr. Kuukpik Corporation P.O. Box 89178 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Nukapigak:

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Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Eunice Brower Kuukpik Subsistence Oversight Panel P.O. Box 89126 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Brower:

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Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Jonah Nukapigak Kuukpik Subsistence Oversight Panel P.O. Box 89126 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Nukapigak:

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Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Gordon Brown Jr. Kuukpik Subsistence Oversight Panel P.O. Box 89126 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Brown Jr.:

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Sincerely,

Ed Nelson

Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Eli Nukapigak Kuukpik Subsistence Oversight Panel P.O. Box 89126 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

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Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Theodore Pausanna Kuukpik Subsistence Oversight Panel P.O. Box 89126 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Pausanna:

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Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Frank Oyagak III Kuukpik Subsistence Oversight Panel P.O. Box 89126 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Oyagak:

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Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Thomas Napageak Jr. Kuukpik Subsistence Oversight Panel P.O. Box 89126 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Napageak:

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Isaac Nukapigak Kuukpik Corporation P.O. Box 89178 Nuiqsut, AK 99789

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Nukapigak:

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Mayor Charlotte Brower NSB Mayor's Office P.O. Box 69 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mayor Brower:

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We are planning to hold a public meeting in Barrow to present the BeaufortSPANTM West Program to the general public and obtain feedback on the project. The Barrow public meeting is scheduled to take place on January 25, 2012 from 7:00pm to 9:00pm at the Inupiat Heritage Center. We would like to extend a special invitation to you and any member of your organization to attend the public meeting and provide your input. Refreshments and door prizes will be provided. If you are available, we would be happy to meet with you at your convenience while we are in Nuiqsut.

If you have any questions please contact me at Edward.Nelson@iongeo.com, Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or michelle.turner@asrcenergy.com, or Meghan Larson with AES at 907-339-5492 or Meghan.Larson@asrcenergy.com.

Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File
Administrative Record





Jake Adams NSB Mayor's Office P.O. Box 69 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Adams:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record

ML/MT/LC 15378-03-10-003/10-033





Taqulik Hepa NSB Department of Wildlife Management P.O. Box 69 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Hepa:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Harry Brower Jr. NSB Department of Wildlife Management P.O. Box 69 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Brower Jr.:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Robert Suydam NSB Department of Wildlife Management P.O. Box 69 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Suydam:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Price Leavitt
Inupiat Community of the Arctic Slope
P.O. Box 1121
Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Leavitt:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





George Edwardson Inupiat Community of the Arctic Slope P.O. Box 1121 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Edwardson:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





George Olemaun Inupiat Community of the Arctic Slope P.O. Box 1121 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Olemaun:

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Bob Harcharek City of Barrow P.O. Box 629 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Harcharek:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Thomas Olemaun Native Village of Barrow P.O. Box 1130 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Olemaun:

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Charles Brower Native Village of Barrow P.O. Box 1130 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Brower:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Joseph Sage Native Village of Barrow P.O. Box 1130 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Sage:

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Grace Leavitt AEWC P.O. Box 69 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Ms. Leavitt:

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Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Johnny Aiken AEWC P.O. Box 69 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Aiken:

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Harry Brower AEWC P.O. Box 570 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Brower:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record





Eugene Brower Barrow Whaling Captains' Association P.O. Box 570 Barrow, AK 99723

Re: Public Meeting with ION Geophysical, Inc.

Dear Mr. Brower:

ION Geophysical, Inc. (ION), is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager ION Geophysical, Inc.

cc: Michelle Turner, AES

AES Project File Administrative Record

Final Plan of Cooperation 2012 BeaufortSPAN™ West

2012 January Letter Responses to Questions asked at Barrow Community Meeting Final Plan of Cooperation 2012 BeaufortSPAN™ West

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Craig George North Slope Borough Department of Wildlife Management P.O. Box 69 Barrow, AK 99723

Re: ION 2012 BeaufortSPANTM West Community Meeting

Dear Mr. George:

Thank you for attending the ION Geophysical, Inc., (ION) community meeting on January 25, 2012, and providing input for the proposed 2012 BeaufortSPANTM West program. I would like to correct a misstatement I made in response to a question you asked regarding airgun operations during low-visibility situations such as fog.

ION will adhere to current NMFS and USFWS protocols regarding airgun operations during low-visibility situations as described below and as stipulated in our permits:

- MMOs will conduct a 30-minute observation of the safety zone before ramp-up from a cold start (i.e., all airguns are off for 10 minutes or more). If the entire safety zone is not visible, then ramp-up from a cold start will not begin. If a marine mammal(s) is sighted within the safety zone during the 30-minute watch before ramp-up, the ramp-up will be delayed until the marine mammal(s) is sighted outside of the safety zone or the animal(s) is not sighted for at least 15–30 minutes (15 minutes for small odontocetes, pinnipeds [excluding walruses], and polar bears, or 30 minutes for mysticetes, large odontocetes, and walruses).
- During turns and transit between seismic transects, the 70-in³ mitigation airgun will remain operational. Standard ramp-up procedures will be followed when increasing the source levels from one airgun to the full array. However, keeping one airgun firing will allow a ramp-up to the full array during darkness or other periods of poor visibility on the assumption that marine mammals will be alerted by the sounds from the single airgun and can move away. In this manner, airgun operations will continue through periods of reduced visibility. Should airgun operations be discontinued for more than 10 minutes during a period of reduced visibility, then operations will not resume until the full safety zone is once again visible and MMOs have completed a 30-minute observation period.
- Visibility conditions will be documented during all observation periods.
- Specialized equipment, including night vision devices and a forward looking infrared (FLIR) camera will be tested during low-light hours. If animals are detected within the safety zone using this equipment, standard power-down and shutdown mitigation measures will be taken.

If you have any questions please contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or Michelle.Turner@asrcenergy.com. Thank you for your time and have a wonderful day.





Sincerely,

Ed Nelson Project Manager

ION Geophysical, Inc.

cc: Darren Ireland, LGL Research Associates

Michelle Turner, AES AES Project File Administrative Record

MT/LC/DI 15378-03 12-009 Final Plan of Cooperation 2012 BeaufortSPAN™ West

2012 February Community Meeting Invitation Letters Final Plan of Cooperation 2012 BeaufortSPAN™ West

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Charlotte Brower Mayor, North Slope Borough P.O. Box 69 Barrow, AK 99723

Re: Meeting with ION Geophysical, Inc.

Dear Mrs. Brower:

ION Geophysical, Inc., (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

We will be in Barrow during February 16–17 to attend the AEWC CAA meetings. While we are in Barrow, we would like to introduce ourselves. If you or your staff are interested, we would be happy to present the BeaufortSPANTM West Program. Please let us know a time that would be convenient.

If you have any questions, please contact me at <u>Edward.Nelson@iongeo.com</u>, Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or <u>Michelle.Turner@asrcenergy.com</u>. Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager

ION Geophysical, Inc.

cc: June Elavgak, Deputy Assistant to the Mayor

Michelle Turner, AES AES Project File Administrative Record

MT/LC

15378-03 12-011





John Hopson, Jr, Commissioner Alaska Eskimo Whaling Commission P.O. Box 67 Wainwright, AK 99782 Lovelle_h@hotmail.com

Re: Whaling Captains Association Meeting with ION Geophysical Corporation, Monday, February 20, 2012.

Dear Mr. Hopson:

ION Geophysical Corporation (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

There is potential for the vessels involved in the BeaufortSPANTM West Program to transit through the Chukchi Sea during fall whaling. Because of the timing, we would like to present our proposed program to the Wainwright Whaling Captains Association to obtain feedback about how we can minimize any conflict.

ION originally planned to hold a Whaling Captains Meeting in Wainwright on Thursday, January 26, 2012, but cancelled because of adverse weather conditions. We would like to extend an invitation to all members of the Wainwright Whaling Captains Association and their wives to join ION for dinner on Monday, February 20, 2012, from 5:30 PM to 8:30 PM at the Community Center. We look forward to speaking with you.

If you have any questions, please contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or Michelle.Turner@asrcenergy.com.

Thank you for your time and have a wonderful day.

Sincerely.

Ed Nelson Project Manager

ION Geophysical Corporation.

cc: Michelle Turner, AES

AES Project File Administrative Record

Administrative Record

ER/MT/LC 15378-03-12-003/12-033





Mary Cabinboy ASRC Village Liaison P.O. Box 266 Nuiqsut, AK 99789 Mcabinboy@asrc.com

Re: Nuiqsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

Dear Ms. Cabinboy:

ION Geophysical Corporation (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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If you have any questions please contact me at Edward.Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or Michelle.Turner@asrcenergy.com.

Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation.

cc: Michelle Turner, AES

AES Project File Administrative Record

ML/MT/LC 15378-03-12-003/12-033





Mayor Thomas "Kupa" Napageak, Jr. City of Nuiqsut PO Box 89148 Nuiqsut, Alaska 99789 cityofnuiqsut@gmail.com

Re: Nuiqsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

Dear Mayor Napageak:

ION Geophysical Corporation (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation.

cc: Michelle Turner, AES

AES Project File Administrative Record

ML/MT/LC

15378-03-12-003/12-033





Vice Mayor Rhoda Bennett City of Nuiqsut PO Box 89148 Nuiqsut, Alaska 99789 rhoda.bennett@north-slope.org

Re: Nuigsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

Dear Vice Mayor Bennett:

ION Geophysical Corporation (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation.

cc: Michelle Turner, AES

AES Project File Administrative Record

ML/MT/LC 15378-03-12-003/12-033





President Bernice Kaigelak Native Village of Nuiqsut Nuiqsut, Alaska 99789 native.village@astacalaska.net

Re: Nuiqsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

Dear President Kaigelak:

ION Geophysical Corporation (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation.

cc: Michelle Turner, AES

AES Project File
Administrative Record

ML/MT/LC 15378-03-12-003/12-033





Vice President Margaret Pardue Native Village of Nuigsut Nuigsut, Alaska 99789 native.village@astacalaska.net mpardue@kuukpik.com

Re: Nuiqsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

Dear Vice President Pardue:

ION Geophysical Corporation (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation.

cc: Michelle Turner, AES

> **AES Project File** Administrative Record





President Isaac Nukapigak Kuukpik Corporation P.O. Box 89187 Nuiqsut, Alaska 99789 inukapigak@kuukpik.com

Re: Nuiqsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

Dear President Nukapigak:

ION Geophysical Corporation (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson

Project Manager

ION Geophysical Corporation.

cc: Michelle Turner, AES

AES Project File Administrative Record





Chairman Joe Nukapigak Sr. Kuukpik Corporation P.O. Box 89187 Nuiqsut, Alaska 99789 leonardlampe@kuukpik.com

Re: Nuigsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

Dear Chairman Nukapigak:

ION Geophysical Corporation (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation.

cc: Michelle Turner, AES

AES Project File Administrative Record





Eunice Brower Kuukpik Subsistence Oversight Panel (KSOP) PO Box 89126 Nuiqsut, Alaska 99789 ksopi@astacalaska.net

Re: Nuigsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

Dear Ms. Brower:

ION Geophysical Corporation (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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ION Geophysical Corporation.

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AES Project File Administrative Record





Jonah Nukapigak Kuukpik Subsistence Oversight Panel (KSOP) PO Box 89126 Nuiqsut, Alaska 99789 ksopi@astacalaska.net

Re: Nuigsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation.

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AES Project File Administrative Record





Gordon Brown, Jr. Kuukpik Subsistence Oversight Panel (KSOP) PO Box 89126 Nuiqsut, Alaska 99789 ksopi@astacalaska.net

Re: Nuigsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

Dear Mr. Brown:

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ION Geophysical Corporation.

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AES Project File Administrative Record





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Re: Nuigsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

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AES Project File Administrative Record

Administrative Record





Theodore Mark Pausanna Kuukpik Subsistence Oversight Panel (KSOP) PO Box 89126 Nuiqsut, Alaska 99789 ksopi@astacalaska.net

Re: Nuigsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

Dear Mr. Pausanna:

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Thank you for your time and have a wonderful day.

Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation.

cc: Michelle Turner, AES

AES Project File Administrative Record





Frank Oyagak III Kuukpik Subsistence Oversight Panel (KSOP) PO Box 89126 Nuiqsut, Alaska 99789 ksopi@astacalaska.net

Re: Nuigsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

Dear Mr. Oyagak:

ION Geophysical Corporation (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

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ION Geophysical Corporation.

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Chairman Thomas Napageak, Jr. Kuukpik Subsistence Oversight Panel (KSOP) PO Box 89126 Nuiqsut, Alaska 99789 ksopi@astacalaska.net

Re: Nuigsut Public Meeting with ION Geophysical Corporation, Tuesday February 21, 2012.

Dear Chairman Napageak:

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ION Geophysical Corporation.

cc: Michelle Turner, AES

AES Project File Administrative Record



John Hopson, Jr, Commissioner Alaska Eskimo Whaling Commission P.O. Box 67 Wainwright, AK 99782 Lovelle h@hotmail.com

Re: Whaling Captains Association Meeting with ION Geophysical Corporation, Monday, February 20, 2012.

Dear Mr. Hopson:

ION Geophysical Corporation (ION) is proposing to conduct a two-dimensional (2D) seismic survey in the Beaufort Sea during fall 2012. This program was originally scheduled for 2010 and then for 2011, but was postponed both times because of technical issues. The proposed 2012 ION BeaufortSPANTM West Program operations are planned for October 1, 2012, through mid-December 2012.

There is potential for the vessels involved in the BeaufortSPANTM West Program to transit through the Chukchi Sea during fall whaling. Because of the timing, we would like to present our proposed program to the Wainwright Whaling Captains Association to obtain feedback about how we can minimize any conflict.

ION originally planned to hold a Whaling Captains Meeting in Wainwright on Thursday, January 26, 2012, but cancelled because of adverse weather conditions. We would like to extend an invitation to all members of the Wainwright Whaling Captains Association and their wives to join ION for dinner on Monday, February 20, 2012, from 5:30 PM to 8:30 PM at the Community Center. We look forward to speaking with you.

If you have any questions, please contact me at Edward. Nelson@iongeo.com or Michelle Turner with ASRC Energy Services (AES) at 907-339-5460 or Michelle.Turner@asrcenergy.com.

Thank you for your time and have a wonderful day.

Sincerely.

Ed Nelson Project Manager

ION Geophysical Corporation.

Michelle Turner, AES cc:

AES Project File

Administrative Record





Ransom Agnasagga, Alternate Commissioner Alaska Eskimo Whaling Commission Wainwright, AK 99782 Ransom.Agnasagga@north-slope.org

Re: Whaling Captains Association Meeting with ION Geophysical Corporation, Monday, February 20, 2012.

Dear Mr. Agnasagga:

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ION Geophysical Corporation.

cc: Michelle Turner, AES

> **AES Project File** Administrative Record

ER/MT/LC

15378-03-12-003/12-033





Walter Nayakik, President Wainwright Whaling Captains Association P.O. Box 29 Wainwright, AK 99782

Fax: 907.763.2926

Re: Whaling Captains Association Meeting with ION Geophysical Corporation, Monday, February 20, 2012.

Dear President Nayakik:

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Sincerely,

Ed Nelson Project Manager

ION Geophysical Corporation.

cc: Michelle Turner, AES

AES Project File Administrative Record

ER/MT/LC

15378-03-12-003/12-033



Fax Transmittal

To: Walter Nayakik	Fax Number: 907.763.2926
Company: Olgoonik Corporation	Date: February 16, 2012
Total pages, including transmittal: 2	
Whaling Captains Association Meeting with Re: February 20, 2012	ION Geophysical Corporation, Monday,
. to: 1 - 52 - 13 - 12 - 12 - 12 - 12 - 12 - 12 - 1	
From: Elizabeth Rexford	
Phone: (907) 339.6287	Fax Number: (907) 339.5475
☐ Urgent ☐ Please Reply	☐ Please Comment ☐ For Review
Notes: Good Afternoon Olgoonik, Walter Nayakik told me to send his dinner invitation see that Walter gets this when he returns from the Quyanaqpak, ~Elizabeth Rexford	

Confirmation Report - Memory Send

Date & Time: Feb-16-2012 13:15

Telline: Machine ID :

Job number

: 819

Date & Time : Feb-16 13:12

To

: 919077632926

Number of pages : 002

Start time

: Feb-16 13:12

End time

: Feb-16 13:15

Pages sent

: 002

Status

: OK

Job number : 819

*** SEND SUCCESSFUL ***



Fax Transmittal

To: Walter Nayakik Fax Number: 907.763.2926				
Company: Olgoonik C	Corporation	Date: February 16, 2012		
Total pages, including	transmittal: 2			
Whaling Captain Re: February 20, 201	s Association Meeting v	vith ION Geophysica	I Corporation, Mo	nday,
1 ebidaly 20, 20				
No. of the Control of				**************************************
From: Elizabeth Re	xford			222
Phone: (907) 339.62	87	Fax Number:	(907) 339.5475	103 - 12
☐ Urgent	☐ Please Reply	Please Com	ment 🖂	For Review
Notes:				
Good Afternoon Olg	oonik,			
Walter Nayakik told see that Walter gets	me to send his dinner in this when he returns fro	vitation through to thom the Mini-Conventi	ne Olgoonik office ion?	. Can you
Quyanaqpak, ~Elizabeth Rexford				

3900 C Street, Suite 601, Anchorage, Alaska 99503 - (907) 339-6200 - fox (907) 339-5475 - www.asrcenergy.com

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Appendix B 2010–2012 Meeting Flyers, Sign-in Sheets, Notes, Comments, and Responses

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2010 Leadership Meetings

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Nuiqust Combined Leadership Meeting

Meeting Notes

Attendees: Eli Nukapigak, KSOP member (via telephone)

Thomas Napageak Jr., KSOP member and Nuiqsut Mayor

Eli Kilapsuk, KSOP member
Jonah Nukapigak, KSOP member
Frank Oyagak Jr., KSOP member
Theodore Pasanna, KSOP member
Myrna Skin, Native Village of Nuiqsut
Josaphine Leavitt, Native Village of Nuiqsut
Hazel Kunakuana, Native Village of Nuiqsut

Ed Nelson, Ion, Project Manager Beth Haley, LGL, Marine Biologist

Maggie Ahmaogak, AES, Stakeholder Relations

Michelle Turner, AES, Project Manager

Date: 17 March 2010, 3pm

General – provided an overview of the proposed project using the Leadership powerpoint slide. These notes are meant to capture comments and responses from meeting attendees.

Thomas	Has there been any issue in the past regarding incidental takes?
Ed	I believe that there was one take in Greenland.
Beth	To attendees: Do you agree that ice isn't fast (shorefast) by mid-December?
Thomas	It should like the time planned for the project (October through mid-December) is the best time. Nobody risks boats in November.
Thomas	Do the vessels have incinerators for waste?
Ed	Yes. We will provide you with the particulars for waste streams. AES will distribute them
Thomas	Regarding FLIR: I like this.
Attendee	Did AEWC like the idea of the program (timing)?
Ed	We talked to Eugene and Harry Brower and they seemed to like the program.
Attendee	You are taking care of our animals by doing things this way.
Eli	The time when you propose to work is the season for winds and storm surge in the area. Can you do a seismic survey during storms?
Ed	If there's a storm, we'll have to run for cover. Ion hasn't worked in this area at this time before. We would like to get input from you about safe harbor. Discussion about storms and safe harbor near barrier islands (Pole Island, Alaska Island)
Eli	Will you continue doing seismic in heavy ice conditions?
Ed	We have to take into account the safety of the crew and make sure we don't lose

Nuiqust Combined Leadership Meeting

Meeting Notes

	anything. When in doubt, we'll go to safety.
Thomas	To Eli – the boats are 300 ft long.
Ed	Even though the vessels are big, we still have to look at weather, shut down for weather.
Eli	In October you can get caught in freezeup inside the barrier islands.
Thomas	October & November is the best time to work, it's out of the way of subsistence hunters.
Ed	We want to work with subsistence hunters so that we don't interfere with their activities.
Thomas	The last project you worked well with us.
Hazel	The Native Village of Nuiqsut would like to get copies of the MMO reports like you provide to NSB Wildlife. Please sent to native.village@astacalaska.net

Native Village of Barrow

Meeting Notes

Attendees: Thomas Olemaun, Native Village of Barrow Executive Director

Ed Nelson, Ion, Project Manager Beth Haley, LGL, Marine Biologist

Maggie Ahmaogak, AES, Stakeholder Relations

Michelle Turner, AES, Project Manager

Date: 18 March 2010, 1pm

General – provided an overview of the proposed project using the Leadership powerpoint slide. These notes are meant to capture comments and responses from meeting attendees.

In general, Mr. Olemaun did not have concerns about the project. He was interested in finding out about opportunities for local hire. Native Village of Barrow has a list of local residents who are available for hire and would like to be advised about opportunities (contact Joseph Sage or himself). Local hire opportunities for the Ion project may include Inupiat MMOs and Subsistence Advisors.

Mr. Olemaun also mentioned that spring whaling is occurring earlier in Barrow than previously. He suggested that a good time to schedule a public meeting would be April 8th or 9th, prior to the beginning of spring whaling.

Inupiat Community of the Arctic Slope

Meeting Notes

Attendees: Lloyd P, ICAS Land Manager

Helen, ICAS Board of Directors member

Ed Nelson, Ion, Project Manager Beth Haley, LGL, Marine Biologist

Maggie Ahmaogak, AES, Stakeholder Relations

Michelle Turner, AES, Project Manager

Date: 18 March 2010, 2pm

General – provided an overview of the proposed project using the Leadership powerpoint slide. These notes are meant to capture comments and responses from meeting attendees. George Edwardson, ICAS President was unable to attend due to plane trouble.

Lloyd	How far does the noise from the source vessel travel?
Beth	Based upon modeling, the 180 dB zone (which is where NMFS requires mitigation such as powering down guns) is about ½ mile from the sound source. Ion will measure how far sounds carry (Sound Source Verification) upon beginning their program.
Lloyd	What about fueling of vessels and fuel containment?
Ed	The Ion vessels can go 6 weeks without refueling. Ion has standard procedures in place to address fueling as well as disposal of waste, etc. These procedures are similar to what we do on land that you're familiar with. We can send these procedures to you in a couple of weeks. We will keep track of waste management and document it as required by permits.
Lloyd	What about risk of crushing the vessel hulls in ice.
Ed	Both vessels are ice-class vessels. They can be frozen in the ice without damaging the ships.
Lloyd	Can you develop something that shows how the icebreaker and source vessel will actually work?
Ed	We already have something developed. We can get it to you in a couple of weeks. We can send it up as a link or send up CDs with the information.

2010 Meeting Flyers, Sign-in Sheets, Notes, Comments, and Responses

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Public Notice

of

Barrow Community Meeting

Who ION Geophysical, Inc. (ION)

(working as GX Technology)

Why ION is proposing to conduct a 2D seismic survey in the

Beaufort Sea during fall 2010. The proposed ION BeaufortSPAN $^{\text{TM}}$ West Program operations are planned

for October 1, 2010 through mid-December 2010.

What Present the proposed BeaufortSPANTM West Program

and obtain community feedback

When April 8th, 2010 at 7pm to 9pm

Where Inupiat Heritage Center Multi-Purpose Room

Door Prizes and Refreshments will be provided.

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A	Quincy Adams	Se IF	852-2755	MM Deroste	Ig who clool & yakoo wa	POBOX 176
	MAX ADAMS	SelF	367-8058		none	PaBox 26
	Qannik Ningeok	self	3674166			Box 1407 Bro, MK
	Kate A. Brower	self	3674455			Box 1532,BRW,AK 99723
	yus y pio geor	- Self				Bux 1407 Brw

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Susan Patkotak	5e/f	859-6355			B x 1183
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Gideon Patkon	Self	878-5993			
Julia Ningeok	Self.	367-4166			BX1407-BRW, Ab.

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Thomas Clemen	myself	855. 4411	NIA	to lemen e NV berrow, net	Box 1130
Aiden Olemen	((Ľ (((()
cenelle, Okpeaha Okpeaha		872-63815			PD. 130x 1183 13 vw, Alc99723
14 April 1951 Okpeaha	·	852-6355	-		P2. (30x 1183 Brw/AK.99723

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Plan of Cooperation Meeting ION/Community of Barrow Inupiat Heritage Center Multi-Purpose Room April 8, 2010 Presentation 7:00 – 9:00 pm

Barrow, Alaska Meeting Notes

Attendees:

David Saganna Beverly Hugo
Johnny Ningeok Patnck Hugo
Sheldon Adams Clyde Numnik
Quincy Adams Rick L. Rice

Max Adams Mascheena, Johnson **Qannik Ningeok** Robert Ningeok Kate A. Brower David Koganaaluk Yugu Ningeok Doreen Knodel Joseph Akpik Mary Hugo Wilbur Ahtungaruak Charlie Navakik Richard Olpeaha Clarence Fishel Raenelle Okpeaka Nathan Fishel Susan Patkotak **Deidre Simmonds** Pearletha Patkotak Ellen Oyagak Gideon Patkotak **Thomas Olemaun** Aiden Olemaun Julia Ningeok Genelle Okpeaha Steu

Ron Saganna Dora Brower

The following organizations were informed of the POC Community Meeting:

Native Village of Barrow Inupiat Community of the Arctic Slope North Slope Borough Wildlife Department Alaska Eskimo Whaling Commission

Ed Nelson , ION Exploration Manager Maggie Ahmaogak, ASRC Energy Services (AES) Community Affairs Beth Hayley, LGL, Biologist Michelle Turner, ASRC Energy Services (AES) Stakeholder Engagement

General – provided an overview of the proposed ION 2010 BeaufortSPAN West project using a power point slide. These notes are meant to capture comments and responses from meeting attendees.

Aqsi Okpeaha

Public	How many decibels does your airgun operate at?
ION	Before we start production we are going to run a sound source verification and that
Representative	will determine the decibels. We have from 120, 160, 180, 190 decibels but we can't
	start anything until we run a test and submit it to the NSB, USFWS, and other agencies
	and then we will determine what decibel we are going to be shooting. It is all going to
	depend if we are going to shoot 2000 cubic inch (cu in), 1000 cu in, 4000 cu in, it is
	going to change so we are going to try different tests before we pick which one. All

Plan of Cooperation Meeting ION/Community of Barrow Inupiat Heritage Center Multi-Purpose Room April 8, 2010 Presentation 7:00 – 9:00 pm

Barrow, Alaska Meeting Notes

	Meeting Notes
	this will be done the first couple days around October 1 st to October 5 th . What we expect considering the number of guns and the size of the array and how the airgun array is configured, that the 180 decibel radius around the guns when they are operating will be about a half a mile. So if ever, the MMOs on board actually see a whale or a seal approaching half a mile, the guns will be powered down or shut down completely.
Public	
Public	Are you guys going to have a lookout post (a chase boat) a few miles away from your gun array? Have a chase boat (like a lookout range) like 10 miles out because pretty much you can't see within 5 or 10 miles from a vessel. It is going to affect a lot of hunters that you can't even see 20 miles or 30 miles away from the vessel.
ION	We will not have the resources to put people 10 to 20 miles away from our vessel at
Representative	that time of year. We will have MMOs on both boats is what we will have.
Public	What I am saying is that the sound from the boat is going to travel fast under water and it will travel 50 to 70 miles and there will be someone hunting there. It is good to have a lookout. The icebreaker is just to open up the ice right?
ION	Yes but there will be MMOs on that boat.
Representative	
Public	How far will the icebreaker be from your seismic vessel?
ION	The ice breaker will be from 1600 feet to 3300 feet in front of the seismic vessel. We
Representative	will have MMOs on both vessels.
Public	You are only looking at what you can see on the horizon for Marine Mammals. That sound travels fast underwater.
ION	We do have some big eye binoculars and an infrared camera that can look out to sea
Representative	when it is dark.
Public	What I am saying is that your camera will not be able to see over the horizon. You know how far they can see will only be a certain distance. Unless you have another lookout station way beyond the project area on the outside.
ION	These guys are going to be doing their seismic during the time the ocean is forming
Representative	into ice. Further in the presentation we will show pictures of the ice conditions during the planned operation. It will all come together by the end of the presentation and it will make sense as to why we want to conduct during early October.
Public	It is pretty much useless when you are trying to look at something that is popping out of the water, it is pretty useless. I tried those infrared, they are good for animals out of the water or on ice but anything that is in the water they do not work.
ION	Yes, we know that but we are being encouraged by the NSB Wildlife Management
Representative	Department to use it and continue to test it and give them some feedback on whether or not they can be improved. We all know that in the industry that this is one of its weaknesses but we would like to test it further and use it on this job.
Public	How many observers do you have on each vessel?
ION	Well that is going to be determined by our experiments. I know that the MMOs, they
Representative	work 4 hour shifts, 24 hours a day so if the permits says we need to have 6 in a boat then for us to work we will have to put 6 MMOs on each vessel so that will be a total of 12. That is going to be determined when we get our permit back.

Plan of Cooperation Meeting ION/Community of Barrow Inupiat Heritage Center Multi-Purpose Room April 8, 2010 Presentation 7:00 – 9:00 pm

Barrow, Alaska Meeting Notes

	Meeting Notes
Public	Will you be hiring MMOs?
ION	Yes, ASRC is handling the MMO hiring. If people are interested please contact
Representative	Michelle or Maggie. ASRC Energy Services is starting the training if you are interested
	please sign up here. They will be starting the training May 30 th through June 13 th and
	then right after you will get deployed to the ships.
Public	How does seismic testing affect the Arctic Cisco and the cod?
ION	There are a couple dozen studies on how airguns affect fish and basically what has
Representative	been found is that they avoid the noise. Essentially what they do first is to head
	towards the bottom and if they are not comfortable there because the noise is too
	loud for them they will disperse and that may be going on as the airgun is firing and
	following the track line but within (I think) 6 hours the fish usually return to the area
	where they usually reside.
Public	Have any of the small mammals come up floating from your seismic testing?
ION	No, we have seen some carcasses while out in the field but they have been in really
Representative	high decomposed states and have been dead for a long time.
Public	What does KSOP stand for?
ION	Kuukpik Subsistence Oversight Panel
Representative	
Public	Is there a website we can go to observe your daily activity?
ION	We have a website we have a couple websites but I do not think you will be able to
Representative	see our daily activity. Maggie don't we have something in place if the community
	wants to know where the boat is going to be and what transect line they are shooting,
	they can get that from who?
Maggie	They can get it from the AEWC. All of the daily activities are monitored by them per
	the CAA.
ION	The AEWC will monitor all of our daily activities.
Representative	
Maggie	Or the communication centers.
Public	Will you have a Communication Plan?
ION	The Communication Plan for ION is to work through the Search and Rescue Office in
Representative	Barrow. ION has contacted the president of the Barrow Search and Rescue to discuss
	the Communication Plans.
Maggie	ION will be contacting Oliver Leavitt, President Barrow SAR and they will be meeting
	with Search and Rescue officers. Because the Communication Centers for the Open
	Water Season for the Beaufort and Chukchi will be closed by the time they reach
	Barrows area, so they want to employ Barrow Search and Rescue to do their
	communications.
Public	Will this be going on every year?
ION	No, this is a pretty big job and if we can get half of it done we will be looking at two
Representative	seasons maybe two and a half early winter seasons. This is a huge job it goes from
	the Canadian Border all the way out to almost Point Barrow or just before it starts
	going west down to the Bearing Straight. So just for this project itself this is the only
	one I can talk about.

5 11.	Meeting Notes
Public	Is it a single hull on that Geo Explorer?
ION	No it's a double hull because it is an ice class vessel.
Representative	
Public	Will the ice breaker be operating west or east?
ION	From the East to the West
Representative	
Public	How many airguns will you have?
ION	There will be 28 airguns itself ranging the smallest at 65 cubic inch and the biggest
Representative	being 350 cubic inches. We will be using different arrays depending on what psi we
	are going to be shooting when we determine from the test.
Public	Do you test your airguns?
ION	You know I think we have tested all of them but I doubt very much if we have used all
Representative	of them at one time in production. They have to be tested to make sure they are all
	functioning because say we are only going to use 16 out of the 28 or 12 if one of them
	breaks down we will have to turn on another one and it needs to be tested and ready
	to go.
Public	How long have you been monitoring these ice movements within that polar cap
	where the seismic is going to be conducted?
ION	We go back five years but we monitor it every day, twenty four hours a day.
Representative	
Public	I mean for how many years have you monitored the ice movement, the current. This
	is a very powerful project from what I can see because in Greenland I can see there is
	different ice and hardly any current
ION	There is current in Greenland
Representative	
Public	But here there is a lot of swift current and the open current is different so actually
	this to me is very powerful especially during the period where you guys are going to
	conduct this project. We can see outside of Barrow where there is ice movement, ice
	burms and everything builds up, the current, the wind, everything. It is a very harsh
	environment. It is all together very different than any other place I have been. Do
	you have a satellite view of the way the ice moves, I mean daily? Every day there is a
	harsh wind, every day that ice is moving. It is a very harsh environment.
ION	Harry Brower Jr., the President of the AEWC, when we first talked to him and gave
Representative	this presentation with stuff like that, that is exactly what he said. He said it is going to
	be rough, it's going to be tough, and it is going to be a big undertaking and we do
	have people going back through the years with ice satellite coverage and its
	movement. All of our ice coverage is going to be in real time straight from the
	satellite to the boat.
Public	Where is your main headquarters for ION.
ION	Houston, Texas
Representative	
Public	Houston, so actually you will have a daily satellite view of the ship? It will be
	monitored and that will include the ice movement? It is important because it is a very

	Meeting Notes						
	harsh environment and this is a very risky project.						
ION	Yes, the ice monitoring will all be in real time						
Representative							
Public	Your wind conditions down in Canada the wind is coming from the land side instead of the ocean side right? You come out there and it's all open and the weather can						
	change just like that, boom really quick.						
ION	You know I have worked out on the ice in the Beaufort in the winter time and the						
Representative	wind does not stop blowing and it changes really fast and in the winter time it is one really hard place to work.						
Dublic	, ,						
Public	Thank you for saying that, ice conditions yea it is. There might be some young ice 9 or 10 ice like she was saying just some really small ice and then when the wind comes						
ION	out boom.						
ION	I appreciate that input there.						
Representative							
Public	How often will you use your sonar? You guys have sonar off the back right?						
ION	Yes, we use it all the time to check ice conditions and to check water depth.						
Representatives							
Public	Water depth; is it constant always on?						
ION	Yes, we have it on all the time.						
Representatives							
Public	There were sometimes a while back that sonar on marine mammals is pretty hard on						
	their ability to hear in the water. Their ears are so sensitive that sonar goes along						
	ways it goes about a thousand miles and the intensity on their ears and the animals						
	will go really quick. In fact under the Navy they tried it, they observed it there were						
	no animals. That sonar technology they shut them down and told them no more						
	sonar. All the animals, boom disappeared.						
ION	That is right, if I may respond to that, the Navy sonar is very different from the echo						
Representative	sounder that will be used onboard, it is directed out horizontally, they are trying to						
,	look around the actual sonar units. The unit that will be used onboard these vessels						
	are looking down in a very narrow beam, directly in front of them. It is not as						
	expansive as what the Navy is using and that is a mid frequency range and you are						
	absolutely right that travels for miles and miles.						
Public	If you are doing some seismic way out there and we have hunters up there, you never						
	know the weather may be real bad up there and we might not start whaling until later						
	October. Like a couple times we have started late September and we always try to						
	start our whaling mid-September and before the end October comes around, like						
	when you guys are going to start, the weather is bad. Mother nature, you guys bring						
	your sonar around there, well it's going to hit Barrow, it's going to deflect whales out						
	the other way.						
ION	Well again these sonar's are really different from Navy sonar's you are talking about						
Representative	this is a narrow beam so it should only affect animals very close to the vessel. And						
Representative	the whole part of these stakeholder meetings is to get your input and to hear about						
	your concerns and there will be another meeting I expect, I cannot speak for ION. But						
	your concerns and there will be another meeting respect, realinot speak for ion. But						

	Meeting Notes						
D. L.P.	if you guys haven't caught your quota yet there will be more discussion.						
Public	Actually what you are doing on this project is that you are taking a picture of the						
	formation down below underneath am I right?						
ION	That is correct we are mapping						
Representative							
Public	Whatever it is because when you are going towards the ocean it is a rock formation						
	and when you go beyond the ocean it is a formation that marks where you need to						
	drill. Because there is sand and silt and you have everything on the bottom of the						
	ocean in both the Chukchi and the Beaufort. I hope you are going to get everything						
	on this trip.						
Public	When that sonar is on and you guys see in one direction do you see any animals? Do						
	the lookout guys on the outside, do they see any animals on the outside around the						
	perimeter like 5 or 10 miles out?						
ION	Well you are better acquainted with the equipment again, the sonar on the boat is						
Representative	just looking directly under the boat to find out what the water depth is, the other one						
	just goes ahead to tell the boat the condition of the ice.						
Public	The one that goes						
ION	The one that goes down just gives you water depth. We have to measure water						
Representative	depth.						
Public	I said there were signs and in fact even one direction that thing will go a long way.						
ION	Actually it is a fathometer. A depth finder. It is basically different it just goes down						
Representative	and comes back up. It really is different from the Navy sonar which you are						
	absolutely right is looking all around. This is just looking right to the bottom.						
Public	They used it they tried it and misused it by the Navy even when they were trying to						
	get one depth down into the ground. To the bottom of the ocean they said they were						
	doing just one direction and it took them years and years, the scientist and they						
	figured it out that it was the sonar. When they quite using that						
ION	Comparing what the US Government and how far they are ahead with all this						
Representative	electronic and stuff like that and comparing ION, we are nothing really. The						
	government is using stuff that people don't even know about and we don't even						
	know about until 20 years from now we find out that they were doing this. I don't						
	know what to say but we are not using high powered US Navy coast guard stuff. Our						
	equipment you can buy commercially.						
Public	The lowest sonar thing they used, even in one direction checking the depth down on						
	the bottom of the ocean, that is what you guys are using right now.						
ION	I thank you for that comment and I will see what I can do to get more technical						
Representative	information to you about our depth finder (fathometer) and we will just move						
	forward from there. I do not have the details or the technical expertise to explain the						
	level of detail that you want now on sonar but I can get that for you from our support						
	people and I will make sure it gets back to you or the group here.						
Public	That is still powerful and misinterpreted.						
Public	What will happen if the ice skeg breaks?						
ION	We have had pretty good luck with it including every year, every year after the ice						

	Meeting Notes
Representative	season we bring it back on dry dock and look at it and we continue improvements on it and just hope that it doesn't break. It is pretty well built. I mean you can break it if
	you just pull the boat at full speed and just start mowing everything down but the
	boat will travel maybe 4.5 to 5 knots and sometimes slower.
Public	Really slow huh?
ION	Yes, very slow.
Representative	
Public	Do you guys do a survey check after you guys do all your seismic in one area within a
	one or two month time frame? Do you go back to that same area and check it to see
	how much mammal migration there is through there? They might eat there, it could
	be their eating spot where they go, do you go back and monitor that same area after
	a few months have passed?
ION	To tell you the truth I just did the Nikachuck job and we did not do it there. It was
Representative	inside the Thetis Island so
Public	It's like when we go to our favorite hunting ground and some guys comes around and
	now we don't want to go there anymore. It is the same with the animals out there.
	That might be their favorite spot for spawning, their eating place and with all that
	equipment that you are playing with you might scare them.
ION	Well we will only be towing one cable not six or twelve, I thank you for that comment.
Representative	
Public	What about the range when we hunt, for example when we fire bullets will they have
	to stop us from hunting when you are out there? How safe will we be to not shoot
	your boat?
ION	The timing and location of the operation will hopefully avoid this. ION will start
Representative	October 1 through the middle of December.
Public	Oh, I see.
Public	What about the guys that hunt
ION	They are down on the South, the furthest east, from Canada on.
Representative	
Public	October time is when all the fish come out of the rivers and the creeks and hit the
	ocean, right? They go out to the ocean and pretty much they stay out there and lay
	their eggs, you guys might be hitting the favorite spawning ground for fish. The fish
	go a long ways.
ION	You are right about the Arctic Cod and there are not many studies about what they
Representative	are doing under the ice, there are some that through using acoustics they are able to
	find that the fish are pretty low in the water but there are no mapped areas for Cod
	spawning right now we do not know where they do it. We know there is a
	congregation in the Eastern Beaufort and the Southern Amundsons Bay but that is
	something we really can't answer because there are no studies available, you are
	right the Arctic Cod will be out there for sure. The Arctic Cisco are probably following
	the salt wedge by October into the mouth of the Colville. You are right there are fish
Dublic	out there and thank you for your comment.
Public	Just like that one year in Nuiqsut some boys out there out by Kaktovik that fish, the

Plan of Cooperation Meeting ION/Community of Barrow Inupiat Heritage Center Multi-Purpose Room April 8, 2010 Presentation 7:00 – 9:00 pm Barrow, Alaska Meeting Notes

	year before they did all their seismic stuff and the next year there were hardly any
	fish coming inside that river and hardly anything coming out.
ION	Was that in 2006 or 2007? Studies at Endicott had predicted that there would not be
Representative	a good return that year because the fisheries recruitment of the little guys that come
	from the Makenzie River was really poor that year and the expectation is that it had
	to do with the winds out of the west because it is the winds out of the west and the
	currents that drive the one year old fish that were just born that year towards the
	Colville. And it is not until they are about 6 to 8 years old that they are actually
	caught in the Colville and that was actually forecasted from some of the BP studies
	the fact that there would be bad fishing that year.



BEAUFORTSPAN'M WEST PROGRAM

2010 2D MARINE SEISMIC SURVEY -BEAUFORT SEA

Comment Card We appreciate your comments!

If you would like to be added to our information list, please fill out area below:

Name: Steven Gavill	Address:
Email:	Phone:
Comment: Dooth Tunder.	- States that it
Was a Sonar	Ed Molson to
clarify and get	I into to Steven
0 1	0
Just need to write	him a letter
Clarbing	

Final Plan of Cooperation 2012 BeaufortSPAN™ West

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Public Notice

of

Kaktovik Community Meeting

Who ION Geophysical, Inc. (ION)

(working as GX Technology)

Why ION is proposing to conduct a 2D seismic survey in the

Beaufort Sea during fall 2010. The proposed ION BeaufortSPAN $^{\text{TM}}$ West Program operations are planned

for October 1, 2010 through mid-December 2010.

What Present the proposed BeaufortSPANTM West Program

and obtain community feedback

When April 10th, 2010 at 7pm to 9pm

Where Kaktovik Community Center

Door Prizes and Refreshments will be provided.

Final Plan of Cooperation 2012 BeaufortSPAN™ West

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BeaufortSPAN™ West Program 2010 2D Marine Seismic Survey – Beaufort Sea

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Kimberley Ann B.					
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Nother Jagard		640-7884			P.O.Box 120
Charlie NoGEAL		646-3242			P.08 14



BeaufortSPAN™ West Program 2010 2D Marine Seismic Survey - Beaufort Sea

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Lucy Heles	2				
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Fred TA GARGOL	(Sr				Box 17
Mildred Aishann	a				BOX58
Doner Kayatuk					
Fred KALEAK		640-621	3		Box 83
Jeanine Kayatuk		640-0200			BUX 23



BeaufortSPAN™ West Program 2010 2D Marine Seismic Survey - Beaufort Sea

ATTENDANCE SIGN-IN SHEET KAKTOVIK, ALASKA April 10, 2010

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Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
			1.00		P.O Box 116
Nation Gordon Si	K. I.C	440-6925		Myordon@g.net	Kattovik 4974
John Hi Tagaroa	KaK				Box 98 Kaktovik, KK Hmail.con Box 55
John HI Tagaroa	EVFD	640-0030		sohntagarookae) ho	+ma;1.con 99747
					Box S5
Stephanie Aisham	TOHC	640-1311	*	steph engenishenpe prost-	harry Hovi (A)(
Jules lange		640-0300			
3 0,700 10(,1)2					P.O. Box 6
MickeyGordon	KIC	440 325	i		KAKtorik, AK,
Fred Tagarooks					P.O BOX 17 Kaktovik Ak
					RO. D. x 61
Mike Slomen	Kic	640 6280			Kaktovik
	17				zen. det.
Ruth Tagande	Kakhnic	640-7448			Kaktonia At 99797

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BeaufortSPAN™ West Program 2010 2D Marine Seismic Survey – Beaufort Sea

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251	•		, Salah		POBOX 103
Marie Rextord	Self				Kottnic Master 99747
David Rexford	Sel +	640-6025			POBOX 103
Thomas Browner	Self	N/A			ProBox 21
Beth Brew					
Annie Tikluk	City of Kalchoria	646-6313	HO-6314		Box 27
Larry Tiklule	Self				
Melana Tikluk	Self				

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BeaufortSPAN™ West Program 2010 2D Marine Seismic Survey – Beaufort Sea

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Susan Conta	Kulctoria	646-1210			BXIZ
Natasha Gordon		6925			116
Phil Tikluk In	KAKtovik	\$ 1270			13 X5/ 99747
Robert Avey				,	B0×80
EUA Avey					Box 40
EllisTikluk	Kaktovik				Box 31



BeaufortSPAN™ West Program 2010 2D Marine Seismic Survey – Beaufort Sea

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
+15+ n Kayotak	Self				TZ Box
Krissel * Frysel * Angel Sims	*				Box 120
Angel Sims	Self				BX 68 KaKtovik AK
Caitlin gallager Marcus	Self			s.	Kaktovik
Marcus gallager Deonard Dora	Self				Kaktorik
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Plan of Cooperation Meeting ION/Community of Kaktovik Kaktovik Community Center April 10, 2010
Presentation 7:00 – 9:00 pm Kaktovik, Alaska Meeting Notes

Mike Soloman

Ruth Tagarook

Marie Rexford

David Rexford

Betty Brower

Annie Tikluk

Larry Tikluk

Melanie Tikluk

Susan Gordon

Phil Tikluk Jr.

Robert Arey

Eva Arey

Ellis Tikluk

Austin Kayotuk

Tussel Tagarook

Caitlin Gallager

Leonard Lord

Marcus Gallager

Angel Simms

Natasha Gordon

Thomas Brower

Attendees:

Norma Gordon Marie Kaveolook Nora Jane Burns Kimberley Ann B. Carla Sims Kayotuk **Eunice Simms** Nathan Tagarook Charlie Nageak Lievy Kaleadk Joseph K. Virginia Brower Fred Tagarook Sr. Mildred Aishanna Darren Kayotak Fred Kaleak Jeanine Kayotuk Nathan Gordon Sr. John H. Tagarook Stephanie Aishanna Jules Lampe Mickey Gordon Fred Tagarook Jr.

The following organizations were informed of the POC Community Meeting:

Native Village of Kaktovik Kaktovik Whaling Captains Association Kaktovik Inupiat Corporation City of Kaktovik

Ed Nelson, ION Exploration Manager Maggie, ASRC Energy Services (AES) Community Affairs Beth Hayley, LGL Biologist Michelle Turner, ASRC Energy Services (AES) Stakeholder Engagement Specialist

General – provided an overview of the proposed ION 2010 BeaufortSPAN West project using a power point slide. These notes are meant to capture comments and responses from meeting attendees.

Public	So you are not going to do the seismic over the ice you are going to be breaking the					
	ice and making a trail? Is that the plan?					
ION	Yes that is true however basically as we go further you will see the ice conditions that					
Representative	we will have when we talk about the ice. We are talking about the coverage because					

Plan of Cooperation Meeting ION/Community of Kaktovik Kaktovik Community Center April 10, 2010 Presentation 7:00 – 9:00 pm Kaktovik, Alaska Meeting Notes

	if the ice is anywhere between 1 to 1.5 feet thick we stop breaking ice at 1.5 feet thick
	but doing our survey in October/November depending on ice conditions we will
	probably have a lot of scattered ice. Our ships are only built to break ice at a
	maximum of 1.5 feet or 18 inches. And the actual seismic data that is being gathered
	is under the ice and the streamers are under the ice.
Public	Last fall we were delayed in fall Whaling and I hope that it is going to be better this
	coming fall. It was close to October when we were finished.
ION	We will not start until the bowhead whale hunt for Kaktovik is finished.
Representative	
Public	Do you carry all your fuel with you or how do you fuel your vessels?
ION	We have the capacity to run six weeks before we need fuel. Basically we are looking
Representative	to be out there only 6 weeks and we don't think we are going to be out there longer
	but if we are and we extend it to the 1 st we are working with Alaska Marine Maritime
	to run support for us and we are either going to bring the fuel in from the east instead
	of trying to come up and around when the whales are still going to be going down
	around Barrow we always going to try to come in from the east because the whales
	are moving out west and south. We don't want to get in from of the whales or bring
	anything in that way so that is why we are starting from the east so if we have to run
	support we have to go back out so we can bring our other support vessel in from the
	east from behind the boat from behind the survey.
Public	You say it may take you several winters to get this project done, where are you
	storing your vessels?
ION	When we finish we are going to go down to Dutch Harbor resupply and send them off
Representative	to where we are going to work for 10 months and then bring them back up here.
	They will be transiting to Dutch Harbor around Mid-November and hopefully before
	thanksgiving.
	On October 1 st where will you be coming from?
ION	On October 1 st we will be coming over from the East.
Representative	
Public	Are your vessels, what is the thickness of the vessels? Are they double hulled?
	They are both Class A ice breakers so basically you can freeze them in and you will be
1	ok. They are been certified to function in an ice breaking capacity. And yes, they are
i l	double hulled?





Public Notice

of

Nuiqsut Community Meeting

Who ION Geophysical, Inc. (ION)

(working as GX Technology)

Why ION is proposing to conduct a 2D seismic survey in the

Beaufort Sea during fall 2010. The proposed ION BeaufortSPAN $^{\text{TM}}$ West Program operations are planned

for October 1, 2010 through mid-December 2010.

What Present the proposed BeaufortSPANTM West Program

and obtain community feedback

When April 17th, 2010 at 7pm to 9pm

Where Kisik Community Center

Door Prizes and Refreshments will be provided.

Final Plan of Cooperation 2012 BeaufortSPAN™ West

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Ion Geophysical BeaufortWest Span Program

2010 2D Marine Seismic Survey – Beaufort Sea ATTENDANCE SIGN-IN SHEET

ATTENDANCE SIGN-IN SHEET NUIQSUT, ALASKA

April 17, 2010

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
DAVID ARNOD	Cory of NUVSIT	- 480-6744		drdavid larnolde	quei lan
James Tanlah	ASRC	480 2117	4803116	Itaalak easter com	2221 8
Mannie Woods	Self	480-0041		Miswall Coyphocan	POBUX 89222 NOT
Cindy Wasson	City	480-6744		Cindynasion + Yaheo.	PO Box 89094 Nuigsut Ak 99789
EdnaSylko	Self	480-1250		aalaak 42e hotrail	BY 89323 MIWHT, KL 99785
Billy OYAGAK	self	4807274			
Sarah Oyagak	City	480-7274		poyagat & y khou.c.	Box 89013 Nuigsut, Lt 99789
SAMANHHA CKUMAKHAM	- Seif	480-0050		hotmail@SAMARTHAL	Pro Box GaDl
Wendy S. Brower	self				

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Ion Geophysical

BeaufortWest Span Program

2010 2D Marine Seismic Survey - Beaufort Sea

ATTENDANCE SIGN-IN SHEET NUIQSUT, ALASKA

April 17, 2010

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Dora Leavitt	tily of Nui				70 Box 89226 NUIQSUT, AL 99989
Lydin Sovalik	sek				Box 89-75 Noi45Ut
Carolyy Ahlixa	in Self				
Carry Ahliza	Kuelopite Coxp.				
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Plan of Cooperation Meeting ION/Community of Nuiqsut Kusik Community Center April 17, 2010
Presentation 7:00 – 9:00 pm Nuiqsut, Alaska Meeting Notes

Attendees:

David Arnold Lydia Sovalik James Talaak Carolyn Ahkiviana Nannie Woods Archie Ahkiviana Cindy Wasson Martha Lampe Edna Syfko Jane Mas Billy Oyagak Joe Ericklook Sarah Oyagak George Sielak Samantha L Kunaknana **Beverly Sielak** Wendy S. Brower Flora Ipalook

Dora Leavitt

The following organizations were informed of the POC Community Meeting:

Native Village of Nuiqsut
Kuukpik Corporation
City of Nuiqsut
Kuukpikmiut Subsistence Oversight Panel, Inc., (KSOP)
Nuiqsut Whaling Captains Association

Ed Nelson, ION Project Manager Maggie Ahmaogak, ASRC Energy Services (AES) Community Affairs Beth Hayley, LGL Biologist Michelle Turner, ASRC Energy Services (AES) Stakeholder Engagement Specialist

General – provided an overview of the proposed 2010 ION BeaufortSPAN West project using a power point slide. These notes are meant to capture comments and responses from meeting attendees.

Public	You use the word radar and I don't know if you mean to do that or not but are we
	talking about the infrared wavelengths that are used by active remote sensors?
	You're not talking about radio waves which is what radar is?
ION	No we are not talking about radio waves.
Representative	
Public	Ok, so radar was just a figure of speech?
ION	Yes
Representative	
Public	Is that infrared a heat source type of thing?
ION	Yes, it is thermal. We are doing this as part of a study for the North Slope Borough
Representative	Fish and Wildlife Department; the Wildlife Management team wants us to keep
	testing this. It works well on land but we still need to further test it on Marine
	Mammals in the water, our signature is not as good and we need to continue to test it
	and furnish the data back home and see if we can proceed.
Public	I know you have been using these dazars for years and what does the data show? Are

Plan of Cooperation Meeting ION/Community of Nuiqsut Kusik Community Center April 17, 2010 Presentation 7:00 – 9:00 pm Nuiqsut, Alaska Meeting Notes

	you still studying that or is it just different every year?
ION	No, the Dazars especially around North Star have been there for years. You are
Representative	absolutely right and the data is being accumulated and is looked at every year and
	that is something that is discussed during the Open Water Meeting so you should
	attend. They are mapping occurrences of vocalizing whales from that data and we
	have a really nice corridor that is defined from those mobilizations. I don't know
	enough about the dazar data to tell you much more but they continue to collect data
	so they can be more confident about the data they have.
Public	Are the different companies accumulating all that data?
ION	Yes
Representative	
Public	So you guys can share that information?
ION	Yep, BP and Shell, everybody is sharing the data.
Representative	
Public	Ok
Public	When you do the ramp up how far apart are they? The distance for the airguns when
	you are shooting I know when they do seismic on land they have like a half a mile or
	quarter mile between shots.
ION	We are going to shoot on time so I think we are going to be shooting like every 110
Representative	feet to 120 feet so we will shoot based on time instead of distance. So for example
	the boat will go at 4.5 knots per hour so we will be shooting on time and will roughly
	be 110 feet between each shot.
Public	What does ION stand for?
ION	You know I don't really know what the answer is, ION basically has been in the oil and
Representative	gas business for 35 years but before that we manufactured seismic equipment for the
	seismic companies. And then we started up GX Technologies.
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Final Plan of Cooperation 2012 BeaufortSPAN™ West

2011 Notice of Program Delays Meetings

Final Plan of Cooperation 2012 BeaufortSPAN™ West

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BeaufortSPAN™ West Program 2011 2D Marine Seismic Survey - Beaufort Sea

ATTENDANCE SIGN-IN SHEET KAKTOVIK, ALASKA AUGUST 16, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
1)				to a	2700 Gambou St. Anchovage All.
MAGGIE AHMADGAK	ABS/IDN	250-0083	-1 [**	Maggie: Alimergatedasre	
2)	. 10				
Fronge Kales/con	9016				P.O. BOX 183
Storge Kaleskern Marie Rexford 4)	Self	6406025			Kak+ovik, 1/25k2
thomas Brown		6406025 N/A			P.OBOX 21 KAKPONTHIC 99747
5) Freddie KALurth	5elF	978-5721			PO. BOX 83 KAKTONIK 49742
Marie Kextord 4) Momes Brown 5) Freddie Kalurik 6) Sd NAB	ION		X VVXXX =		
7)					
8)					
9)					
10)					

Meeting Notes for ION's Program Delay Notification to Kaktovik Leadership Kaktovik Community Center at 7pm

Attendees:

George Kaleak, Sr. Marie Rexford Thomas Brower Freddie Kaleak

Notes:

Ed Nelson welcomed everyone and explained that the meeting is a courtesy visit to the community in order to announce in person that ION is delaying their BeaufortSPAN[™] West program until 2012. Ed read the description of the delay that was sent to leadership in a letter in July. The delay is due to the source vessel no longer being available and a lack of guarantee from Transport Canada that the alternate vessel would be able to transit the Northwest Passage in time to move forward with 2011 plans.

For next year ION will either use the vessel they are building or a leased vessel. ION plans to have a backup plan in place for 2012 operations.

The audience asked if ION would basically have to start over. Ed said that in many ways ION would need to start over. ION needs to start over with community meetings and permitting, but many of the operational plans will remain the same. ION is still planning on having Communications Centers and Village Liaisons.

An audience member asked what happened, if the vessel broke down. Ed recapped by saying that the vessel they secured in 2010 was no longer available. The vessel/company was taken under receivership of the bank. ION needed to find a Class A Ice Breaker/Source vessel. The availability of an appropriate vessel is very limited. In addition the vessel has to pass the operating company's inspection and numerous safety checks, including a safety check done by the U.S.C.G.

ION will start gearing up again after Christmas, and will be doing village visits the first part of 2012. ION's goal is to map everything from Canada to Barrow 7.5 miles offshore. The closest line may need to move out to 10 miles so they don't run into shallow waters when they turn around with the array. ION will do an aerial survey to get a better idea of the distance they need to stay offshore.



BeaufortSPAN™ West Program 2011 2D Marine Seismic Survey - Beaufort Sea

ATTENDANCE SIGN-IN SHEET BARROW, ALASKA AUGUST 17, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
1)	VICE Pre sinent				
GEORGE AMMANGAL, Se	Sonnow Wholing Copt.	852-684		George Appen Alin eller	Bex 1130
2) Thomas Olemeur	Sterotive Director Ples. UVB	853-4411	1	אין שבונים יופר	
Maggie Almargue	AESTON	250-0013		George Humagalor	Cerce, Her. All. B33 Barrow AL
William Orich 5) A Nasu 6)		852-2842		trunk-42@ hobas'ile a	833 Barrow AL
5) 2 Nasu	TON				
6)					
7)					
8)					
9)					
10)					

Attendees:

George Ahmaogak, SR. Vice President of the Barrow Whaling Captains Association

Thomas Olemaun, President/Executive Director of the Native Village of Barrow

William Oviok

Notes:

Ed Nelson read a paragraph statement that ION is here to do a courtesy meeting to inform the community and Barrow leadership that ION is postponing their seismic program scheduled for 2011.

Why we are postponing the 2011 program, as you are aware of after our July 14, 2011 letter to the leadership and community, ION is postponing its ION BeaufortWest[™] SPAN program planned for October 1 until mid-December, 2011.

We are delaying the program because the original seismic source vessel, the *BOS Atlantic*, is no longer available. When ION was able to identify an alternative vessel, the *Explorer*, there was not adequate time to get confirmation from Transport Canada that the vessel would be allowed to transit the Northwest Passage. ION is planning on conducting the same program October 1 through mid-December 2012.

The program would be during the same timeframe as 2011 and in the same locations. Our program will remain the same other than our vessel will change. Location will be starting from the U.S./Canadian border all the way to Barrow doing seismic lines. Our job is to start from the U.S./Canadian border to Pt. Barrow. To answer Thomas Olemaun's question – to start on October 1 from the U.S./Canadian border, we will also wait until Kaktovik and Nuiqsut whaling is completed. ION is not starting until they (Kaktovik and Nuiqsut) are finished whaling. October 1 is just a date that we put in our permit. If they are not down with whaling on October 5 or 10th, we will just wait until they finish and we will come in and work.

George A. asked what about for Barrow? You are way over near the Canadian border on October 1. Ed Nelson stated when that time comes we will work with Barrow whalers and the Barrow Whaling Captains' Association. If you are working while we are starting on the Canadian side, then we will meet, and we will work together.

Thomas Olemaun asked how many miles offshore will ION be working?

Ed Nelson stated that we are looking to work about 10-12 miles from shore to 150 miles offshore. So our closest line to shore is 10 miles from shore. In our presentations we were saying 7.5 miles, after talking to some of the whaling captains in the Kaktovik area, they were saying that if we came any closer we will be running into very shallow water and might end up getting stuck. So, we are planning ot cut those lines close to shore, in order to have enough room and water to be able to finish the line and make a turn toward another line. We are planning on cutting lines so that we don't get too close in, and it's too shallow that we cannot turn and get out and get stuck.

George A. asked if they have signed the CAA.

Ed Nelson stated that ION has not signed the CAA yet but it's not to say that in 2012 is going to be the same as 2011. I think ION will honestly feel that the ION people further up the chain are starting to understand and see what's going on with the CAA. That's of course why papers have been written by AES on the permits of the CAA, its purpose of the Com-Center, the purpose of the... there are 3 white papers that I had them write. This is so those guys higher up can understand.

George A asked if ION will have the Com Center.

Yes, we will have a Com Center. We just visited the Deadhorse Com Center with Doreen Nukapigak. We will have the Com Center available throughout the project and we will locate it in Deadhorse.

George A. asked if it is located at the Service Area 10.

Yes, it will be at SA10, and we will have Inupiat Communicators from the village of Kaktovik, Barrow, and Nuigsut in the Com Center at all times.

Thomas Olemaun asked if there will be a Com Center in Barrow.

There will be one Com Center because we feel that we will probably be the only ones out there that time of year.

Thomas Olemaun stated that for communications when we have a fall hunt, they need better communication to the village of Barrow. We have 50+ whaling captains and we go whaling from September through October, from 10 miles to 20 miles offshore and the whales migrate from the Canadian border and are coming into Barrow. You guys need to communicate with Barrow. Deadhorse, they don't know about our subsistence way of life, we need someone from Barrow. That's my concern.

Ed Nelson says okay, so we can open one up here in Barrow and have one up in Deadhorse until the whaling season's done and keep one open throughout the job. We can start with two.

George A. said maybe you can have one in Barrow until the subsistence whaling is done in Kaktovik and Nuiqsut and then the subsistence whaling in Barrow.

Ed Nelson said okay.

Thomas Olemaun stated that Barrow does not start until October 1. George A. stated that is an option the other thing I wanted to say is in the event that – remember when we had the BWCS's attend the AEWC meeting, you guys submitted your letter saying ION didn't want to sign the CAA, and then Eugene and them started saying all kinds of stuff saying that didn't have a CAA, this and that. Well, we made some amendments to the CAA from the Barrow Whaling Captains, the amendment that was there in the even that one of the parties doesn't sign the CAA, that AEWC was supposed to notify the Barrow Whaling Captains. In other words, TH AEWC was supposed to notify the Barrow Whaling Captains of the fact that so and so did not sign or have a CAA with the AEWC and that triggers the Industry Participant to work with the Barrow Whaling Captains.

Ed Nelson stated that ION will work with the whaling Captains.

George A. stated that he just wants ION to learn the language is in the CAA, and reiterate that AEWC has to notify the Barrow whaling captains and that we are in agreement.

Ed Nelson stated that he understands.

George A. stated that in any communication that Jacob Adams, the secretary of BWCA, and George Ahmaogak S., the Vice-President be dcc'd on all communications including Thomas Olemaun, President of the Native Village of Barrow.

Maggie Ahmaogak stated that ION understood. A letter from Harry Brower Jr., Chairman of the AEWC, went to Eugene Brower, President of the BWCA notifying them that ION was not signing the CAA. Therefore, ION requested a meeting with the BWCA/Barrow whaling captains (letter sent on July 14, 2011).

Discussion followed. Only Eugene received the letter from harry Brower Jr. It stopped there, George A. was not aware of this letter.

Ed Nelson said that if we did not have the vessel problem we were ready to work with the Barrow Whaling Captains Association starting on October 1, 2011.

Thomas Olemaun, President of the Native Village of Barrow, stated that maybe ION is better off cc'ing the Secretary and Treasurer of the Barrow Whaling Captains' Association when they send letters. If the Vice-President doesn't know, then any communications from now on should be cc'd to the rest of the BWCA Board and NVB.

George A. stated that he asked Jacob Adams before Eugene went on his ASRC Retreat, that he share the communications with us. Send copies of the communications to the rest of the officers. When the CAA is not signed, it triggers the AEWC to notify the local whaling captains' associations and members.

Thomas Olemaun stated he would like to be added to the list of communications as a cc.

Ed Nelson agreed to make the distribution list and add them to ION's distribution list including all officers of the Barrow Whaling Captains' Association.

George A. stated that he did not know about the AEWC letter to Eugene Brower and ION's letter invite before Eugene left for his retreat. Clarification and understanding of the CAA amendment. Eugene did not notify the whaling captains, and kept it to himself. I certainly did not know about the letter. That's where we have miscommunications. This amendment was heavily debated amongst the Barrow Whaling Captains. Have to comment, that is why Eugene commented opposing your IHA permit by himself and objecting to your POC and IHA. The BWCA never gave him authority to oppose, it happened because he was the only one receiving the letter from the AEWC. In other words, he's the President, he's doing things on his own, objecting to your POC. He did not receive direction from the BWCA Board of Directors.

Ed Nelso sais we will make sure that we will share this with the Kaktovik Whaling Captains' Association and the Nuiqsut Whaling Captains' Association. That whatever kind of emails or letters need to go not only to the Presidents, but to the officers of the Associations. So, if there are five officers, everybody gets the same letter via hard copy and email. Both George and Thomas agreed.

George A. stated that Harry Brower, Jr. is the only one that is supposed to notify us. The issue is that you guys broke down and did not come up with a ACC and AEWC letter when to Eugene Brower, President of the BWCA.

Thomas Olemaun stated that the President should communicate with his Board when making a decision. There's 50+ people in that association in order to make a decision, must have a meeting.

Ed Nelson n stated we will crank that up when we come back in January to start moving forward again for October 1 through mid-December, 2012 project. We will need all the names of the officers of the whaling captains' associations. So, from the start whatever information coming out and coming in, everybody gets a copy from the start of 2012 on to the very end.

George A. stated that ION should be prepared to answer why they did not sign the CAA to the whaling captains. They want to know why! Maybe AEWC is playing hardball?

Ed Nelson stated that ION wanted me to come up and we've been coming up. We've been talking to you for two years and have not had very good luck with our vessels. Next year, we are building vessels and will probably use one of them; we are also negotiating with another company to get the vessel under haul now, because of what happened to BOS Atlantic. So, after this courtesy meeting, the 2011 pretty much closed out and then start a new one. Last year we started in December, Yes, we will have MMOs outland on the icebreaker, and on the source vessel; and they have to be Inupiat Communicators and all 3 people in the Com Center have to be Inupiat Communicators.

Meghan Larson stated the MMOs will be split between LGL and AES MMOs. (couldn't make out rest of conversation)

Ed Nelson- they have to have Inupiat Communicators on both vessels and com centers.

George A. not so much on the CAA, but you have to submit your POC with NMFS, and then do your meetings in the villages. Then you go for your IHA permit when you file your POC you state, this is how you will operate at such and such a time, and the area covered. Then you have Plan of Cooperation meetings in the villages; and if there are any conflicts, the villages are supposed to speak out at that time of your schedule, and then you change your plan of cooperation accordingly. That is why it is called the Plan of Cooperation. The irony is that operators such as you go for an IHA and go ahead of planning your cooperation meeting in the villages: then you communicate that you had no conflict in Kaktovik, we had no conflict in Nuiqsut, and therefore we had no conflict in Barrow with the Plan of Cooperation as you go for an IHA, and then you get what Eugene just did. He objected to your POC, he didn't even care if you had your village meetings in Kaktovik, and then Nuiqsut and Barrow, and because he does not know there is no conflict in Kaktovik in your POC, but him objected because in the name of not having a

CAA. The irony is that what I am trying to tell you is that you don't communicate the findings of what was discussed in Kaktovik POC, on how the meeting resulted and how it resulted in Nuiqsut and Barrow. That way it would it would keep people from writing objecting letters to the NMFS as you move from an IHA permit you don't communicate that, nobody does. I think this is worthwhile for you to let the Barrow Whaling Captains know that you anticipate not having conflicts and get good feedback. Here's what happened in Kaktovik tra-la-la something for Nuiqsut and Barrow. The BWCA knows that you had this POC meeting and there was no conflict and communicate this in your IHA permit and in that way the whaling captains would learn and cooperate.

Ed Nelson thanked George A. and that it makes sense. George A. agreed. Thank god we record all our meetings.

We do not hear of your POC meetings with Kaktovik and Nuiqsut, and how well your POC meetings went.

Ed Nelson stated that we do get a lot of questions and we do. We get feedback and ideas or recommendations and they want information before we go back for another meeting. We bring back the answers and we incorporate the traditional knowledge that they bring and give us into our plan.

You need to get all this information to all the whaling captains instead of one person. (Thomas Olemaun) All agreed. Get and distribute a summary of your meetings and keep everyone in the loop.

(The local whaling captains associations are organized under the auspices of the local IRA village tribal government.)

George A. stated he would be happy to get a summary of Kaktovik and Nuiqsut POC meetings. Then when you get to Barrow, and you want to go for your IHA, then you can eliminate these objection letters. Having these summary POC meeting notes — of your Plan of Cooperation, we have nothing so far --- you see? Right now we don't know if there is a conflict or not! Even NMFS doesn't know, you need to communicate — do not leave us 10 miles down.

Ion will be starting this POC process all over again. (Meghan Larson)

Thomas Olemaun asked Ed Nelson to keep him in the loop and when you come into Barrow please let me know.

Ed Nelson – We will swing by your office when we are in Barrow, just to let him know.

Thomas Olemaun requested Ion to tell him when communicating with the whaling captains.

Ed Nelson stated he appreciated all this information.

George A. the Plan of Cooperation, bottom line is know that the whalers can continue to go whaling and subsistence to continue. When this is a conflict, then you change your plan accordingly at their suggestion, bottom line everybody will look at their subsistence, they will do anything to protect their whaling. We are left out of the loop as it is. For your POC – nobody in the villages knows how they went.

Whether or not you have conflict in Kaktovik and Nuiqsut, we don't know, and that's why Eugene wrote the letters objecting on account of you (ION) did not have a CAA. Now you have to work with the Barrow Whaling Captains.

Ed Nelson- states he fully understands and this is something that we will work forward for the coming season. Get with AES and their group and move forward in this fashion, and make sure our distribution list gets bigger and distributed to more people and offices.

No other concerns.

Manage Kaktovik and Nuiqsut the same way. Expand their distribution list also. And we will let everyone know what our findings are from each impacted village. That way Nuiqsut will know what we are doing to work with Kaktovik and then everybody knows

George A. will write up his report and communicate with the Barrow whaling captains. That ION will cancel its 2011 program.

Thomas Olemaun stated that whatever you find out there, there are oil companies out there that want to look at your studies, in the future, you know, my kids, grandkids, make sure that subsistence way of life, hopefully, there will be no 30 mile gone out there, because everything with offshore, gasoline, oil and what not you know it's just going to be concentrating on the Beaufort and Chukchi Sea, because everybody is waiting for a report of what they find. When you do your seismic or what not, put it on paper and everyone can know and start bedding in possible areas. That's what I don't want to see; wells out there. Our subsistence way of life depends on our ocean.

George A. although we use less land your information is proprietary, for your client, or what not, if there is something we want to know you don't have to go to great detail, all Thomas Olemaun and I are saying is to protect our future, if there is oil out there.

Final Plan of Cooperation 2012 BeaufortSPAN™ West

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ATTENDANCE SIGN-IN SHEET NUIQSUT, ALASKA August 18, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Maggie Ahmaggale	ASRC Energy Sen	250-0083 hes	337-5470	Maggie . Hlmaogak Dasi	2700 Gambell St. Anchovage, AK. 29,503
LOTTIEM Evikana	S/	480-1538		energy room	P.O.BEX 89105 NUIQSUTIAK-99789-
Eunice M. Brower	K-5.0. P. T	480-2713	480-2714	Ksopi@astacalasm.n	Po Box 87126 + Nuizsufi Ak 99789
Belva Sovalite	self				Nuiosut, AK.

OF	
C/I	

Meeting Notes for ION's Program Delay Notification to Nuiqsut Leadership Nuiqsut Community Center at 1pm

Attendees:

Eunice Brower, KSOP Executive Director Lottie M. Evikana Belva Sovalik

Notes:

Ed Nelson welcomed Eunice and explained that the meeting is a courtesy visit to the community in order to announce in person that ION is delaying their BeaufortSPANTM West program until 2012. Ed read the description of the delay that was sent to leadership in a letter in July. The delay is due to the source vessel no longer being available and a lack of guarantee from Transport Canada that the alternate vessel would be able to transit the Northwest Passage in time to move forward with 2011 plans.

For next year ION will either use the vessel they are building or a leased vessel. ION plans to have a backup plan in place for 2012 operations.

Eunice said that she had the notice of delay letter and would make meeting notes from the recording she took. Eunice will send the meeting notes to all Kuukpik Subsistence Oversight Panel members.

Final Plan of Cooperation 2012 BeaufortSPAN™ West

2011 Meeting Flyers, Sign-in Sheets, Notes, Comments, and Responses Final Plan of Cooperation 2012 BeaufortSPAN™ West

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Barrow Community Meeting

Who: ION Geophysical, Inc. (ION)

What: ION is proposing to conduct a 2D seismic

survey in the Beaufort Sea during fall 2011 starting October 1 through mid-December,

2011.

When: February 19, 2011 at 7:00pm - 9:00pm.

Where: Inupiat Heritage Center

Barrow, Alaska

Refreshments and Door Prizes will be provided

Final Plan of Cooperation 2012 BeaufortSPAN™ West

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ATTENDANCE SIGN-IN SHEET BARROW, ALASKA February 19, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Beverly Faighting	Self	857-5333		they who himail.	Com Begnertt 997
Patrick (fyr		5 333			Barraff
Walton Ahmangg	self	767-3250		wirth-sope, com	
Bruce a. Zexto. a	Self	367-36KI		year of Bruce Bl year on Tomi phillipansbod on	5347)
Tomilord Millig	Self	352-3670			BOX 1586 Barlow, AK
Tomilord Millip Ginger CSNOW	Self	852-3735		gasnow 70 hotmeil. com	By 748 Burrow, Ale
Lloyd Stein	self	852-2862		germaninupiaco yahoo.com	BOX 271 Brw At
ROY AlmanGAC	self	_		ROY. 4201@ hoterail	BOX 41/ BACOW A'E
Shorene Ahmao galk	self	367 4133		zel_98Dnotmalica	Box 1726 Barrow Ah
Ferry Oxpeats.	Self	852-4210			BOX 1737 BAMON, 4K99723

OE		
Or		



ATTENDANCE SIGN-IN SHEET BARROW, ALASKA February 19, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Sandra Gray					
Nara Reilly	sey				Pax 748 Barrow
Robert Sund	11903				
Georgaly. Fith	SAB		. 4		P.D., BAT 1785
PATRICK SWILL	Sol			Pachile @ BARROW. Con	Box 342
Ed NEIGH	IOH				
the way	Sil			ligimai)aga yahoos	BOX 1071 Burny
Leo Brouser	sele				BOX 1071 Bruny 69Z Bru
DiwaleBours	- Self				692 Brw
Bill A. Brower	self				692 Brw

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OF	



ATTENDANCE SIGN-IN SHEET BARROW, ALASKA February 19, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Michelle Malend	AES	334-1650		michelle-publishenenRoserceneng	y.com
FRED 5, KANAYURA	K SEA	752-4975			B - 76 BRY
David Seganna		852-6960			Bax 227
Lilly Karayurak	Self	852 5159	3		70 Box 1887 Barron,
WILLIAM ITTA	Sor	878-6022			BOR 962 BKW
Manlyn Arrungowsk	self	852562 367-6344			Box 692 Brw
Lawrence Haleak Sage	5elf	852-7607			BOX 349
Charles Brown	self	852-5602			BAN 8x 692
Bobby Itta	SeH	852+6849			BOX 408 BARROW, BOX 353
Many Huge		852-5333			Box 353

RalpH Tickiel



ATTENDANCE SIGN-IN SHEET BARROW, ALASKA February 19, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Craig George	OWM	v		craig, george enortes sope, org 60 breiss ehot mail.com	
Craig George Bob Reus	OWM Grand Central PUBLISHERS			60 breiss ehot mailicom	

OF		

Plan of Cooperation Meeting ION/Community of Barrow Inupiat Heritage Center Multi-Purpose Room February 19, 2011 Presentation 7:00 – 9:00 pm Barrow, Alaska Meeting Notes

Attendees:

Leo Brower

Beverly Hugo
Patrick Hugo
Walton Ahmaogak
Bruce Rexford
Tomi Phillip
Ginger Snow
Lloyd Stein
Roy Ahmaogak
Sharene Ahmaogak
Sandra Gray
Nanci Reilly
Robert Suydam
George Icea
Patrick Suvlu

Qicwale Brower
Bill Brower
Fred Kanayurak
David Sagamma
Lilly Kanayurak
William Itta
Marily Ahmaogak
Lawrence Sage
Charles Brower
Bobby Itta
Mary Hugo
Ralph Tuchid
Craig George
Bob Rews

The following organizations were informed of the POC Community Meetings:

Native Village of Barrow

Native Village of Nuiqsut

Inupiat Community of the Arctic Slope North Slope Borough Wildlife Department

Alaska Eskimo Whaling Commission Alaska Nanuuq Commission

Alaska Beluga Whale Committee

Ice Seal Committee

Alaska Eskimo Walrus Commission

North Slope Borough Wildlife Department

Nuiqsut Whaling Captains Kaktovik Inupiat Corporation

Kuukpik Corporation

City of Nuiqsut

Mayor Itta, North Slope Borough

The following representatives attended on behalf of ION:

Ed Nelson, ION Exploration Manager Maggie Ahmaogak, ASRC Energy Services (AES) Community Affairs Michelle Malerich, AES Stakeholder Engagement

General – ION provided an overview of the proposed ION 2011 BeaufortSPAN West project utilizing a power point presentation. These notes are meant to capture comments and responses from meeting attendees.

Public	You are talking in kilometers, we are use to miles or something like that, can you
	explain how many miles it will travel?
ION	Yes, basically the ice breaker is a half a mile to a mile in front of the recording vessel.
Representative	

Plan of Cooperation Meeting ION/Community of Barrow Inupiat Heritage Center Multi-Purpose Room February 19, 2011

Presentation 7:00 – 9:00 pm Barrow, Alaska Meeting Notes

	Meeting Notes
Public	This ship, how big is this ship that we are looking at? How long is the cable and how far is it behind the vessel?
ION	The <i>Bos Atlantic</i> is close to 300 feet long. The cable will vary in sizes from 6
Representative	kilometers to 9 kilometers long depending on the type of survey we will be doing.
•	
Public	What do you mean depending on the type of survey?
ION	Well, sometimes when you have a longer cable there is going to be more under water
Representative	geophones because the cable is longer. If they want a shorter array of geophones
5 1 11	they will just make the cable shorter.
Public	There is going to be whaling out of Kaktovik here, we know that the whales are going
	to be swimming and it hasn't been mentioned by AEWC or anyone here that it would
	be good to appropriate money to whalers as far as fuel, knowing that the whales are
	going to be further and further away. Fuel for the whalers that are being threatened
	would be good. Since ION is a multibillion dollar corporation it would be good for you
	to donate to the whalers, it makes sense.
ION	Yes, we have done that in the past when I was working for another company, we just
Representative	basically asked what they needed. In the previous case they just wanted fuel so we
	brought the fuel and they picked it up.
Public	I don't think we should talk about issues that concern the AEWC because they have
	their own policy, they have talked about that before, we get into trouble, so in this
	meeting let's just talk about what you guys are doing and not involve the AEWC.
	Thank you.
Public	I didn't mean to include the AEWC but I think we should mention that certain crew
	said you gaveinaudible
ION	Yes we have done that, not with ION though. This is IONs second venture into Alaska.
Representative	We were here in 2006 in the Chukchi and now after making some improvements to
	our program we decided to come back and try it again.
Public	Inaudible
ION	Sir early on in this program we will be conducting an SSV, a Sound Source Verification
Representative	Test and that will give us our safety radii. The safety radii will tell us when we have to
·	stop shooting because of whales and then we will also know basically how far our
	guns are going to go. How far out our guns are going to be heard, the further out in
	the water it will diminish. Those tests will have to be run before we start production
	in the Alaskan Beaufort and also turned into the agencies to get analyzed before we
	start.
Public	When you start on the 1 st of October do you know how far the sound is going to travel
	in the water?
Public	Some of the previous surveys that have been done, in fact work that ION did in
	Canada last year as well as 2008 we could hear their sounds from Northstar Island
	and even farther to the west so this is a relatively large air gun array, the sounds can
	carry a long way, hundreds of miles.
ION	Inaudible
Representative	
Public	Do you have a staging area for your vessels, where will you stage your vessel?
	1 - 7

Plan of Cooperation Meeting ION/Community of Barrow Inupiat Heritage Center Multi-Purpose Room February 19, 2011 Presentation 7:00 – 9:00 pm

Barrow, Alaska Meeting Notes

	iviceting notes
ION	We will bring them in through the Bering Straits; we will bring them up from Seattle
Representative	into Dutch Harbor, up the Bering Straits, around the point and then take them over
	towards the job. We will have a staging area for emergencies; we are setting that up
	right now with ASRC and Kaktovik. We will have one in Kaktovik, in Point Thompson,
	in Deadhorse, in Barrow and wherever there are isolated spots that are
	recommended in case of emergencies.
Public	When are you anticipating taking your equipment out?
ION	We are planning to move out that way in June, we started moving in June last year,
Representative	we took one vessel up at a time. Up here we put an export vessel or an ice breaker,
Representative	we send one boat up and as soon as we get them to the thick ice and we get them
	through this guy will come back across and wait here and then we will get them
	through whatever rough spots they have.
Public	
	So you are saying you are about 200-300 miles offshore?
ION	We go around up here, we try to get the Coast Guard to go out there first but they go
Representative	further out there. And then we come back into the Canadian area here. We still have
	a lot of work over here that we would like to do, that we need to tie in to these areas
	right here. We would like to get these done this year, we did not finish these last year
	because the boat lost an engine.
Public	Inaudible
ION	No, I am just talking about Alaska.
Representative	
Public	Besides those lines are you doing other work in Western Canada in 2011?
ION	Yes we are we are going to try, when the boat went down last year we did not
Representative	complete the survey, we would like to go back and finish that and then move right in
	there. There is not much to do but we need to finish what we started.
Public	So when you come into the Chukchi Sea you plan on bringing your vessel up in June or
	July?
ION	Yes, June or July, I do not have the exact date. In June, July, August, and September
Representative	we will be in Alaskan waters.
Public	Did you say that ice breaker activity will occur during the summer like in September?
ION	When there is hard frozen ice we will not be rattling the ice to break it that is when it
Representative	is time for us to leave. As long as the ice is floating around like you saw in the picture,
	when the ice breaker come through it will just push the ice out of the way and that is
	when we can work. Once we start ramming ice it does not do us any good so when it
	gets to that point we just leave.
Public	I thought you were going to go around there in the middle of winter, I was going to
	say
ION	No, we are not going to ram and crush ice.
Representative	
Public	That will be really interesting to see in regards to the Marine Mammal Observers. It
1 dolle	will be interesting to see what is out there, what they run into, just to know. Or even
	from the years passed, 2006?
Dublic	
Public	ION doing their seismic surveys in the Fall time after the whaling is done is a really

Plan of Cooperation Meeting ION/Community of Barrow Inupiat Heritage Center Multi-Purpose Room February 19, 2011 Presentation 7:00 – 9:00 pm Barrow, Alaska

Meeting Notes

	Weeting World
	positive thing, avoiding most of the whales or many of the whales and avoiding the hunting season is important. By starting late in the year though it is getting dark quicker and there is a lot of ice on the water and so for your Marine Mammal Monitoring the observers are not going to be able to do a very good job because they cannot see very far because of the darkness. Even with spot lights they are going to have a really hard time monitoring. The safety zone, especially for the distance where bowheads will avoid sound and start swimming away is farther than what the Marine Mammal Observer person can see. So how are you going to deal with that? How are you going to monitor with just observers? Using an infrared camera that has been shown not to work very well for detecting whales, how are you going to deal with all of this?
ION	ION is working with BOEMER to figure out how they will mitigate this issue. These are
Representative	the exact same questions that BOEMER has come up with for us and these are answers that we need to have by the end of next week. We have people that are working on it and we are looking to get these issues worked out by the time I get back from Kaktovik. I would like to share it with you and the community when we come back.
Public	These are exactly the same questions that we asked last year when we had a meeting with ION, you know how are you going to monitor in these tough conditions and are you going to use acoustic monitoring. And so it is a little disappointing that you are still working on the answers or hurriedly working on the answers so I guess we would appreciate it if you could come back and give us the details at some point to the environmental wildlife management and also to the community and the whaling captains and the AEWC.
ION	Yes, thank you for raising that issue.
Representative	
Public	You should appropriate at least 250 thousand dollars to the whaling captains' wives to help the barrow whalers to go out and getting food supplies and what not. To lower the burden since the whales are being affected.
ION	Any other stuff that you feel that we might be missing, please tell us today or on a
Representative	comment card.
Public	Maybe to suggest right off, I know that last year Statoil used Passive Acoustic Monitoring and maybe you should talk to them about their findings and consider using that this year.
ION	Thank you for your comment.
Representative	
Public	The area that you are covering is way bigger than seismic activity that we have had before. Really diverted the migration of the bowhead whale and this is an area where our whales are migrating back and come around and they take their time coming back. When you divert a whale it goes way out there, it is the same thing with the caribou.
AES	Please explain that you are going to start 100 miles out when you enter from Canada
Representative	to the Alaskan Beaufort to ease the mind of the community here tonight. Because

Plan of Cooperation Meeting ION/Community of Barrow Inupiat Heritage Center Multi-Purpose Room February 19, 2011

Presentation 7:00 – 9:00 pm Barrow, Alaska Meeting Notes

Meeting Notes
the concern is that migrating whales are just passing in from Canada and are nearshore and where you want to start is way out there and not close to the
migrating whales.
Where we want to start is up in this block here on October 30 th . We want to start in the deeper waters and then we will move on and start going over the lines. We are going to shoot this in patches. We are going to start at the top with our first patch and then do our second and third patch. I don't know if we will get this close this year, 7.5 miles, because we will be starting in the deeper waters.
Is that all going to be done in one year?
No, I don't think we will be able to do all 4500 – 5000 miles in one year.
No, the area where you were pointing.
Oh yea, if we can do from here to here we will be very happy for the first year.
Do your vessels carry cameras to take pictures of the ocean bottom?
Yes
And do you follow with another vessel behind to see what damage has been done?
No we will only have two vessels out there sir; we will have an ice breaker and
another vessel.
So you don't know what happens after the seismic is done? You don't know what the bottom of the ocean looks like?
We are going to be working in up to 11,000 feet of water and our guns are going to be 45 feet deep. I understand what you are saying. I don't have the water depths with me but I think we are looking at about 200-300 feet at the shallowest and 11,000 feet at the deepest. I can't answer that question right now but I can get it for you.
It would be nice to know what happens after the seismic is done to the bottom of the ocean.
Back to my comment earlier about giving money to the whalers did you write that down? Because I want to make sure the question has been answered, it is serious you know because like was said the whales keep getting further and further out and you know it is not a joke what people go through to try to help the community out and catch a whale and it would be good to assist the whalers in a way that doesn't get involved with the CAA. It's getting closer and closer so maybe we should start with 500 thousand to help the whalers instead of 300.
Thank you.
The ocean is full of life, it's not only the marine mammals there are fish. Why don't you have any chase vessels? Especially since this is the season for migration.
I don't know but I can find out why we do not have any chase vessels.
Who is training your Marine Mammal Observers?

Plan of Cooperation Meeting ION/Community of Barrow Inupiat Heritage Center Multi-Purpose Room February 19, 2011 Presentation 7:00 – 9:00 pm

Barrow, Alaska Meeting Notes

	Meeting Notes						
ION	ASRC, AES.						
Representative							
Public	Is that through the University?						
ION Representative	Well the way I look at this is that we are starting our project that the end of the regular season. So what we would like to do is pick up some local people from here Barrow, Nuiqsut, and Kaktovik that were on previous jobs here and extend their duration. Instead of stopping in September, we could offer them work through the end of December. They will already have had the training and have been in the field						
Public	Will you be out of the state water and in the federal waters?						
ION	The entire time.						
Representative							
Public	Right now I don't think there is anyone present who is representing our leadership. Have you met with the council or the board our leaders are not here tonight?						
ION	We sent them all personal invitations to invite them to this meeting tonight. We sent						
Representative	that out two weeks ago.						
Public	Well there are not representatives of our leadership here.						
Public	The question is a really good one because it is a Saturday night and Saturday nights is not really a convenient or a good time. Maybe what ION needs to do is hold leadership meetings with the city and the Native Village and other groups during the						
	day on their time so people do not have to volunteer their time to attend a meeting.						
ION	I agree we did do that last year and we will make room to do that this year between						
Representative	now and the start of the project.						
AES Representative	The other reason we picked tonight is because we knew that people had been inundated with a lot of meetings over the past two weeks so we will come back for leadership meetings.						
Public	The problem is that the community has a lot of questions and the leadership meetings will be separate and they will not know what has been said here tonight.						
AES Representative	We understand what you are saying and the issues and the questions that have been discussed here in the community will be told to the leadership and vice versa and that is the way that we will hold all of the discussions so that all of the concerns are address.						
Public	There is also a fireman's banquet going on right now.						
Public	Your big boat does it have a landing strip for a helicopter?						
ION	Well we don't carry a helicopter but the boat does have a landing strip for the						
Representative	helicopter.						
Public	You should help Search and Rescue by appropriating them money to buy a new helicopter.						
Public	I think that anytime you have a community meeting you should notify AEWC personnel, ICAS, and NVB to have representatives here, because we don't have any here tonight. You guys should also have reported what had been said during the AEWC meeting.						
ION	We did send invitations to all of the leadership and we explained that we were going to hold a community meeting. They were all noticed that this was a community						

Plan of Cooperation Meeting ION/Community of Barrow Inupiat Heritage Center Multi-Purpose Room February 19, 2011

Presentation 7:00 – 9:00 pm Barrow, Alaska Meeting Notes

Representative	Representative meeting and they were invited to participate.						
AES	You may want to explain to the audience that you are not necessarily looking for oil						
Representative	and gas.						
ION	No, we are not. We are trying to find out where the piece of land went that use to be						
Representative	attached to Alaska years ago.						
Public	But you are related to oil and gas.						
ION	Yes, we have some investors that are interested in what data we find. And we have						
Representative	other investors that are looking for something else.						
Public	Are you sure you are not poring anything out there? Where you are looking? Have						
	you ever done any testing on the water?						
ION	No we have not.						
Representative							
Public	Well you better start testing the water. It is not good for the water, for the salt						
	water.						
ION	Thank you for your comment.						
Representative							
Public	Inaudible						
ION	In Canada and Greenland it is very similar to Alaska. We work closely with the						
Representative	epresentative Canadians also due to their hunting seasons.						
Public	Who are your investors, are they corporate?						
ION	Yes, but I don't know who they are. There are oil companies and institutions like						
Representative	Fairbanks and other university institutions that make up our investors.						
Public	Very good meeting.						
Comment Cards Submitted by Members of the Audience							
	•						

19 and 20th Century Politics and the history and experiences of Inupiaq people and culture has regressed further as "The new found politics was supposed to rest upon man's natural rights, and in so far as he is nothing but a natural being upon his right to food, dress, and the reproduction of the species, this is upon his right to the necessities of life. And these right to touch and to violate but as the very content as will as the ultimate end of guilt and ... have been deprived of these rights as we enter the doors such century and how does the law of the sea recognize Inupiat rights to food dress and reproductive. Threatened, trespassed and violated by the goods, story Alaska; and compare?

- Need good monitoring; visual observers are not sufficient because of the dark, ice, etc.
- Must include acoustic monitoring
- Need sound source verification in shallow and deep water. Propagation different.
- Impacts to prey of marine mammals???
- What are cumulative impacts, especially with work in Canada and Russia.
- Forward Looking Infrared doesn't work for Bowheads.

Pictures of before and after seismic activities of the bottom of the ocean.

Very good informative meeting. Thank you.

Final Plan of Cooperation 2012 BeaufortSPAN™ West

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BeaufortSPAN™ West Program 2011 2D Marine Seismic Survey

Beaufort Sea, Alaska
Comment Card

Please fill out areas below: Name: Address: Email: Phone:



BeaufortSPAN™ West Program

2011 2D Marine Seismic Survey Beaufort Sea, Alaska

Comment Card

		11-20 [11]
	Please fill out the areas below:	- Well, JOV IN BRAINE
	Name: Robert Suydan	and deed water.
	Address: NSB ROCK 69	De motion della set
	BRW. AK	Magazarion and every
	Email: Mbert. Suyden & north-Stage or	- Impacts to prey at
	Phone: 9078520350	marine mammals??
1	- Need good maniforing	- What are cumulative
	Visual olas are not	impacts, expectally
	suficient because of	with work in Canada
	dark, ice etc. Must	+ Russia
	include acoustic	- FLIR doesn't work
	monidoring (for bowheads



BeaufortSPAN™ West Program

2011 2D Marine Seismic Survey Beaufort Sea, Alaska Comment Card

Please fill out the areas below:
Name: <u>VATRICK SUV/U</u>
Address: Box 342
Barrow, AK 99723 -
Email: Pachik @barrow.com
Phone:
PICTURES W BEFORE & After Soismic AcTIVITIES
PICTURES of Before & After Soismic Acrivities OF the Bottom of the Ocean



Beaujortspan''' West Program

2011 2D Marine Seismic Survey Beaufort Sea, Alaska Comment Card

Please fill out areas below:	
Name: WILLIAM STTA	Very good informative
Address: 382 962	73-
BAKRON, AL 99723	- Meting -
Email: Wildbill 397@gmail.com	
Phone: \$78-6022	thenh non-
	- The state of the





Public Notice Of Nuiqsut Community Meeting

Who: ION Geophysical, Inc. (ION)

What: ION is proposing to conduct a 2D seismic survey in the Beaufort Sea during fall 2011 starting October 1 through mid-December, 2011.

When: February 21, 2011 at 7:00pm - 9:00pm.

Where: Kisik Community Center Nuiqsut, Alaska

Refreshments and Door Prizes will be provided

Final Plan of Cooperation 2012 BeaufortSPAN™ West

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ATTENDANCE SIGN-IN SHEET NUIQSUT, ALASKA February 21, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Som Kungharana		48029940			
Eli WV 409 A					
Billy Oyazale					ANT TO SEE THE
Sarah Oyazde	City				
Simuy A-Oyeyak	City of NUI	480-0010		13	
Verron Long	self	4808390			
Herbert Popular V SK	whaling caption	480-5869			
Emily Panisa		250 180 200 5			
margaret Brower		480-6014			
ELARE-DO-AILUF	861.00	480-2740			



ATTENDANCE SIGN-IN SHEET NUIQSUT, ALASKA February 21, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
	Self.				
John Nicholless					
John Nichals Jr	V				
AlisonVicholls	V				
Jasmine Nichols	V		,		
Nannie Nicholls	V				
Ethan Nicholly					
Rache Witgey	/				
Thelma Kasak					
	AES	250-0083			12801 Montery Core
Raggie Ahmaogak Per sy Pansanna		480-6014			

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ATTENDANCE SIGN-IN SHEET NUIQSUT, ALASKA February 21, 2011

Representing	Phone No.	Fax No.	E-Mail	Mailing Address
	480- 6826			PO 60x89306 NuiQSuT XX9789
	u c			11 (1)
	//			1
	480-6732		Mary-Cabinboy@ Live.com	PS BX 85032 NUIOSUT AK 95789
	480-2940		Katulkurdeneratth	& P.D BOK 85046 NUCOCUS AR 95
	480-2540			P.O BOX 850% NULQUIND STE
*	480-0040			
	Representing	480-6732 480-6732	480-6732 480-6732	480-6732 Mary-Cabinboy@ Live.com 480-6732 Katuli kindine atth

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Final Plan of Cooperation 2012 BeaufortSPAN™ West

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Plan of Cooperation Meeting ION/Community of Nuiqsut Kuukpik Hotel February 21, 2011 Presentation 7:00 – 9:00 pm Nuiqsut, Alaska Meeting Notes

Attendees:

These names need to be replaced with the names from the Nuiqsut Sign-in Sheet. Maggie should have this; I did not get a chance to scan

it into the k drive. Beverly Hugo Patrick Hugo

Walton Ahmaogak Bruce Rexford

Tomi Phillip Ginger Snow Lloyd Stein Roy Ahmaogak Sharene Ahmaogak Sandra Gray

Nanci Reilly Robert Suydam George Icea Patrick Suvlu Leo Brower Qicwale Brower Bill Brower Fred Kanayurak David Sagamma Lilly Kanayurak

Marily Ahmaogak Lawrence Sage Charles Brower Bobby Itta Mary Hugo Ralph Tuchid Craig George Bob Rews

William Itta

The following organizations were informed of the POC Community Meetings:

Native Village of Barrow

Native Village of Nuiqsut

Inupiat Community of the Arctic Slope North Slope Borough Wildlife Department

Alaska Eskimo Whaling Commission Alaska Nanuuq Commission

Alaska Beluga Whale Committee

Ice Seal Committee

Alaska Eskimo Walrus Commission

North Slope Borough Wildlife Department

Nuiqsut Whaling Captains Kaktovik Inupiat Corporation

Kuukpik Corporation

City of Nuigsut

Mayor Itta, North Slope Borough

The following representatives attended on behalf of ION:

Ed Nelson, ION Exploration Manager Maggie Ahmaogak, ASRC Energy Services (AES) Community Affairs Michelle Malerich, AES Stakeholder Engagement

General – ION provided an overview of the proposed ION 2011 BeaufortSPAN West project utilizing a power point presentation. These notes are meant to capture comments and responses from meeting attendees.

Public	Who are you going to hire for Marine Mammal Observers? Are they going to be
	native?

Plan of Cooperation Meeting ION/Community of Nuiqsut Kuukpik Hotel February 21, 2011 Presentation 7:00 – 9:00 pm Nuiqsut, Alaska Meeting Notes

ION	Yes, Ion wants to hire Nuiqsut, Kaktovik, and Barrow MMOs. What we were thinking
Representative	is that because we are starting so late we hope to extend the work of the local MMOs
	into December. We are going to do this by hiring the ones that have experience and
	had been employed the previously. This is all being handled by AES, they will do the
	training and hiring.
Public	What time did the meeting start?
ION	We were supposed to start at 7 but we started at 7:30.
Representative	
Public	Oh, I thought the meeting was supposed to be tomorrow?
AES	The government meeting that is taking place tomorrow.
Representative	
Public	Oh, ok.





Kaktovik Community Meeting

Who: ION Geophysical, Inc. (ION)

What: ION is proposing to conduct a 2D seismic

survey in the Beaufort Sea during fall 2011

starting October 1 through mid-December,

2011.

When: April 18, 2011 at 5:00pm - 6:00pm.

Where: Kaktovik Community Center

Kaktovik, Alaska

Refreshments and Door Prizes will be provided

Final Plan of Cooperation 2012 BeaufortSPAN™ West

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ATTENDANCE SIGN-IN SHEET KAKTOVIK, ALASKA APRIL 18, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Sean Kayotan			916		
Dean					72
Katie Fly		9076404			Box 25 Kaktoui K, AK99747
Adam Linn	Selb	640-2035		daminhing a Starband net	Kaktovik
WRIAH NALIKAK	Sef	388-6920	- CA	acimin himn a Stan Wond: Net	
James Killbert J	Self	640-2047			BOX 53 KAGAL
im Allencialbear	Son) (11
Roberta Boota	Seif	1/			1/
FENILLE SKUPLLIAK	SIF	(946-003)			PO 66753 Kaktovikogandz
Abi Fry		6404			POX 25 Faktovit, AKRAY

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ATTENDANCE SIGN-IN SHEET KAKTOVIK, ALASKA APRIL 18, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
CarlaSimsKayolak	self	640-5893		cjs Kayatuk DWSnE	n 99747
Bradexi					
Charle Mi Brow	var Self	640-4163			
Jean Ja Akatche	k				
ClariceAkootchook		640-6411			
Lucas Atshanna		640-6411			
LEE KAYOTYK		640-1300		USN. Lowe	99147
Freddie KALEA		978-5721		FFKALLAK_840HJANA	PO. BOX 53
Cagey Suasmich		884-5455		,	Glegsu Snathey P.B. Box 98
Sohn H. Tagarock		640-0030		John tagarook 1 @ ho	



ATTENDANCE SIGN-IN SHEET KAKTOVIK, ALASKA APRIL 18, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Stephanichishanna mya kishanna Skylar Boply		640-1362			B0× 55
Douglas Aishanna		347-4575			Box 55
Georgianna Doty		6462105			BUX58
Nova Jone Burns	mild	680-6722		norejaepburnseyo ku.	Kakfor, Le
Charlespone	1				
Batte Brown Annie Tayarock HATI & d # 014/5					
annie Tayarock		Le40-00 36	Te		Box & Kartovik
fustin & attotyle					
George Halerke	4-1F				
Luay Coled					

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ATTENDANCE SIGN-IN SHEET KAKTOVIK, ALASKA APRIL 18, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address]
Pet es TagasosK	C'HOF Kattony			Paragulast Setis Whotmail	18:BOX#17	
Tille Knyotak	1		(907) 640-6314			
Dorothysition						
Chara Sittide	ne Kaktovik	90764614	2		Botsb	
Russel Ey					120	
Reta Tagaroole						
Marie Rextal	Kaktaric	640-2112			PO.BOX 103 Kaldeva	997
Edward Rextord SR		ιι			()	
Susan (wpa)	11	640.1210				
Mildred ashow	- 11	640-2105			BOX58	

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BeaufortSPAN™ West Program 2011 2D Marine Seismic Survey – Beaufort Sea

ATTENDANCE SIGN-IN SHEET KAKTOVIK, ALASKA APRIL 18, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Harry Lord	self	640-6215		h. henry.lord@live.com	'n
Matthew Rextord	City of Kaktovsk	640-2112	640-6314	matthew.rexford@gmail.com	NO DOX 103
BRUCE INCLONGASAL Marie Kaveoloon Mone Covedor	SELF	640 1255			
himberley B. George Tagara	& Self	328-9368			Box 17
Georgé Tagaros					BOX 17 BOX F3



BeaufortSPAN™ West Program 2011 2D Marine Seismic Survey - Beaufort Sea

ATTENDANCE SIGN-IN SHEET KAKTOVIK, ALASKA APRIL 18, 2011

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Fred Tagarook Sc	self	640-0031			
Britting	5-016	640-6041			

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Kaktovik Community Meeting Notes Kaktovik Community Hall April 18, 2011 5:00-6:00 pm

Is that ice just forming? Yes, that's pancake ice.

Would you just be doing airgun seismic or dragging things below?

We are pulling cable ~45' below the ice so it doesn't get tangled, I can show you a picture. (Ed showed a picture to illustrate.)

You're going to wait on the eastern or western side until whaling is over?

We are going to wait in Canadian waters until the whaling season is complete, and will not begin before October 1, regardless. We are planning to stage in the Tuk Basin, where it will take approximately 1 ½ days to get to the project area.

We just don't want you too close and interrupting whale migration.

The permit will not be valid until October 1, and we will not begin until after whaling is complete even if that is after October 1. We will also have village liaisons in the villages to keep everyone updated.

You're waiting until Kaktovik finishes whaling? Wouldn't it be better to wait until Nuiqsut and Barrow are done too?

Subsistence representatives do not seem to object to the timeframe in Nuiqsut. There have been no outright objections regarding the timeframe. Nuiqsut will traditionally be done whaling by October 1. What about Barrow?

Nuiqsut and Barrow are historically done by September 15. We will start work in the east and move west in order to prevent deflecting Bowhead migration heading into Barrow.

If we are done whaling will you start early?

We will not start before October 1.

What are the studies being done in Canada?

There is some research being done on krill

Seismic?

Yes, there was seismic work done in Canada, but it is not a fair study to show the results and relate to our Alaskan Beaufort project. The studies were done in July in the middle of the summer, versus in early winter. We would rather show you study results from Alaskan waters.

Did you study impacts after the airguns were used?

We had safety radii to prevent impacts, no post-airgun operation studies were done.

What happens to crab and krill?

We do have some information regarding this, basically research says that if they're within a handful of meters of the sound source effects will include slower development of eggs and some avoidance behavior from squid has been observed. Permanent impacts are unknown at this point.

Where was this study done?

We will need to get back to you.

Are you familiar with geomatic technology? The Japanese are using this in the Bristol Bay basin using shots from a satellite. The results are pretty conclusive data regarding hydrocarbon availability and resource assessment.

I don't know about geomatic technology, but if you fill out a comment card I will get back to you.

You do that all across the slope? Both latitudinal and longitudinally? Along transect lines, every 300 meters

Exxon has a microphone in the ocean?

They have ASAR/DASARs deployed. They haven't picked them up yet, so we can't tell how far the sound travels or how loud it is. They have picked up sounds from our Canadian Beaufort operations though. If you don't know how far the sound travels, how do you determine the safety radii?

NMFS has done modeling studies for each species to come up with the 180 and 190 dB radii. MMOs are onboard to make sure they don't enter the zone. The models are base on array volume. Conversation continued... Models are based on calculations done in the past based on water depth and array volume. SSVs are required by the CAA...

Are they controlled tests?

Yes, they are standardized by NMFS

Is anyone collecting data on the aftereffects of seismic? The number of seals found onshore? Soft fish? We are not currently aware of any post seismic analysis.

What does it do to the fish?

BP did Ocean Bottom Cable Seismic for their Liberty Project and followed the operation with another vessel that had dipnet trolls onboard. The results came back showing no negative results on the fish collected. Some work was done in Newfoundland on snow crabs, they showed deflection behavior. Squid offshore of Spain showed avoidance behavior when they were studied.

The first fish in Kaktovik last year did taste right.

I can try to find more information.

In response to the questions about the two dead whales found last year, we checked with the Canadian government. The DFO knew only of 1 dead whale which had extensive decay. The whale washed ashore July 30th and was being consumed by bears. The whale washed ashore before ION's work began.

Comment Card

Harry Lord, P.O. Box 36, Kaktovik, AK 99747 h.henry.lord@live.com 907-640-6215

Geomatic 3-D satellite earth penetrating radar tech PROMIS sortware integrated. Prosecutors Management Information System Classified Intelligence? Proprietary Tech? From the wilderness.com/PROMIS



BeaufortSPAN™ West Program 2011 2D Marine Seismic Survey Beaufort Sea, Alaska Comment Card

Please fill out the areas below:	
Name: Harry Lord	Proprietary Tech?
Address: P. D. Box 36	
Kzktovik, AK 99747	- ' '
Email: h. henry lord Clive, com	From the Wilderness, com / PRomis
Phone: (967) 640 - 6215	
	3
_ Geometic 3-DS etalite Earth	
penetrating redar tech	1
PROMIS software integrated	d
Prosecutors Management	
Iformation System	
Classfied Intelligence?	

2012 Meeting Flyers, Sign-in Sheets, Notes, Comments, and Responses





Community Meeting

Please Join Us

*** 5:00 – 6:30 PM ***

Monday, January 23, 2012

Community Center Kaktovik, AK

Who ION Geophysical, Inc. (ION)

Why ION is proposing to conduct a 2D seismic survey in the

Beaufort Sea during fall 2012. The proposed ION BeaufortSPAN $^{\text{TM}}$ West Program operations are planned

for October 1, 2012 through mid-December 2012.

What Present the proposed BeaufortSPANTM West Program

and obtain community feedback

Door Prizes and Refreshments will be provided.





BeaufortSPAN™ West Program 2012 2D Marine Seismic Survey - Beaufort Sea - Delay

Attendance Sign-In Sheet

Kaktovik, Alaska
January 23, 2012
Community Center
5:00-6:30pm

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Clarice Akostehook	Self	640-0007		cakovtchoo Keasic.	BOX 112 BT1, AK99747
Magge Going	self	640-2059			Box 70 Kelchrink Mc99:
Markologak	Self	640-2059			Box 70 KaktankAK.
Eunice Semo)	640_6820			BOX 57 BAKTOVIKAS
Icr + Akootchok		640 7987		bortakeddrek Otiotmail	Kaktovik AS Kaltouk 99747
Ruth Jagarock					
Brux liglargesik					
SAM GOLDON		640.2400		Samagial Qyahor	LOM ICAKTOVIK
Russell Tagawak	5416				P,0 Box 120
Austin Kaxalit					

OF	



BeaufortSPAN™ West Program 2012 2D Marine Seismic Survey - Beaufort Sea - Delay

Attendance Sign-In Sheet

Kaktovik, Alaska
January 23, 2012
Community Center
5:00-6:30pm

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
(man C S-1		640-			BOX4
Limmy S. Sople	,	2131	110		PO. LOX 138 ICAKDUIL AE
VELKA JOTAL		0037			KAKDUILAE
Northan lagaron	-	640-0020			
Nora Land Bus	-	640-6722			KULTOUNKAPIC KAKLOWKAPIC
Susan Cord		640-6058			Kartous Kyp1C
WAYNE KAYS Like		640-0001			KAKLOVIL, AC
Susan Gord- WAYM KAYD Lok Chade, Lame		640-0016			Kaktonk AK



BeaufortSPAN™ West Program 2012 2D Marine Seismic Survey – Beaufort Sea - Delay

Attendance Sign-In Sheet

Kaktovik, Alaska
January 23, 2012
Community Center
5:00-6:30pm

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Tagarook, George	Kaktovic Whaling Self captain	728-9368		tooksk2@hotmailcon	Kaktovik Box 19 99747
Tagarook, George Carla Sims Kayotak	sul	640.0037			KAKtorik
				[8]	

OF	

Katovik Community Meeting 01/23/2012

Attendees:

Clarice Akootchook Jimmy S. Sople

Maggie Going L....

Mark Ologak
Eunice Seino
Nora Jane Burns
B....Akootchook
Susan Gordon
Ruth Tagarook
Wayne Kayotuk
Bruce I.....
Charles Lampe
Sam Gordon
George Tagarook
Russell Tagarook
Carla Sims Kayotuk

Austin Kayotuk

The following organizations were informed of the POC Community Meetings:

Clarice Akootchook, ASRC Village Liaison
Annie Tikluk, City of Kaktovik
Nora Jane Burns, City of Kaktovik
Fenton Rexford, Native Village of Kaktovik
Philip Tikluk Jr., Kaktovik Inupiat Corporation
Bert Akootchook, Kaktovik Inupiat Corporation
Joe Kaleak, Kaktovik Whaling Captains' Association

The following representatives attended on behalf of ION:

Ed Nelson, ION Exploration Manager Meghan Larson, ASRC Energy Services (AES) AES Stakeholder engagement Inuuteq Stotts, AES Stakeholder engagement

General – ION provided an overview of the proposed ION 2011 BeaufortSPAN West project utilizing a power point presentation. These notes are meant to capture comments and responses from meeting attendees.

~4 min. Who is ION, etc.			
~7 min. Why are you	~7 min. Why are you doing this?		
Beaufort Span Prograi	m – earth has not always split up the way it is now.		
Questions through ~1	3 min.		
ION Representative			
Public	~13 min. What are your findings since 2006?		
ION Representative	There have been no wells drilled, but it looks good. We're not a drilling company,		
	so someone else would have to do that.		
Public	~16 min. How long will your airguns be underwater, what is the dB?		
ION Representative	8 sec.? 160, 180, and 190 dB safety radii for marine mammals.		
Public	What about fish? Are you going to have someone with a fish finder?		
ION Representative	ve No, we're not, but we've designed the survey to not have any conflict with		
whalers and subsistence hunters.			

Public	We have fish out there year round, seals year round. Last time we had seismic around here we saw changes.
ION Representative	Studies have shown when in close proximity to sound source fish will move out of the area temporarily but no mortalities have been documented. Studies have been done with the Vladimir in the arctic. In the Gulf of Mexico studies have shown that withing 24-48 hours fish return. Fish would have to be very close to the source for response, and then they're seeing disturbance but no mortality.
Public	What were the results from 2006-2010 regarding whales?
ION Representative	We find bowheads turn away at ~160 dB as a natural self-preservation mechanism. They turn away from the boat.
Public	~25 min. Fish – Certain types of fish. Sometimes there are no fish. Last year when we got our first fish it was kind of funny. Can we send that to anyone?
ION Representative	North Slope Borough Department of Wildlife, they will have someone come out and collect and sample the fish. An employee of NSB Department of Wildlife explained a little further.
Public	~28 min. We used to work on ship in Canada; they didn't bother the bowheads when they were next to us. How do you scare them away?
ION Representative	We shut down if they are near the ship so no guns are going.
Public	Do you know who is going to get the MMO contract?
ION Representative	ASRC Energy Services.
Public	Anybody can try to get that contract?
ION Representative	Anybody can put a bid for that contract in.
Public	When I was an MMO we were working for Marsh Creek making more money than for ASRC.
Public	~37 min. Are you coming here again before seismic begins?
ION Representative	Yes, we're planning on coming back in August to give a status update – to let you know if we're on time for permits and vessel transit.
Public	Something about 3 years
ION Representative	I hope that this is the year. The first year last year the boat we were going to use changed ownership.
Public	Something about staying out of our oceans You need to come back and answer questions that you're unable to answer this time. You came here to meet with us and you're not prepared to answer our questions about your results.
ION Representative	I can't bring a whole lot of results from Greenland because they won't relate very well to the Alaska project.
Public	Show us your results, prove to us you can do this without messing up our oceans.
Public	When are you going to start putting out bids for the MMO contract?
ION Representative	We can start next week.
Public	So you'll put it out for bid then?
ION Representative	Yes, we will. We will need contact info though.
Public	What do you mean by meeting with Barrow Leadership? This is my first time meeting with you.

Public Poon ION Representative Public Ho ION Representative Be cre Public W ION Representative Th tra Public Ala ION Representative Ye Public Pt	hey've been here a number of times. olar bears can walk on thin ice. There are a large number of seals, we see a lot in October ice. ow many people are on your boats? Shift changes? efore we start in U.S. waters we will have a shift change in Canadian waters. No rew changes are planned after that. There will be one fuel transfer. //hat about your gray water, trash, etc.? here will be incinerators onboard. We will take the incinerator leftovers and rash to Seattle. laska Workers Will they need passports? es, they will need passports and TWIC cards. t. Thomson fuel transfer MMOs couldn't do any studying until they got into
ION Representative Public Ho ION Representative Be Cre Public W ION Representative Th tra Public Ala ION Representative Ye Public Pt	ow many people are on your boats? Shift changes? efore we start in U.S. waters we will have a shift change in Canadian waters. No rew changes are planned after that. There will be one fuel transfer. //hat about your gray water, trash, etc.? here will be incinerators onboard. We will take the incinerator leftovers and rash to Seattle. laska Workers Will they need passports? es, they will need passports and TWIC cards.
ION Representative Public Ho ION Representative Be cre Public W ION Representative Th tra Public Ala ION Representative Ye Public Pt	ow many people are on your boats? Shift changes? efore we start in U.S. waters we will have a shift change in Canadian waters. No rew changes are planned after that. There will be one fuel transfer. //hat about your gray water, trash, etc.? here will be incinerators onboard. We will take the incinerator leftovers and rash to Seattle. laska Workers Will they need passports? es, they will need passports and TWIC cards.
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ION Representative Be cre Public W ION Representative The tra Public Alia ION Representative Ye Public Pt	refore we start in U.S. waters we will have a shift change in Canadian waters. No rew changes are planned after that. There will be one fuel transfer. What about your gray water, trash, etc.? There will be incinerators onboard. We will take the incinerator leftovers and rash to Seattle. Taska Workers Will they need passports? Tes, they will need passports and TWIC cards.
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Public W ION Representative Th tra Public Ala ION Representative Ye Public Pt	hat about your gray water, trash, etc.? here will be incinerators onboard. We will take the incinerator leftovers and rash to Seattle. laska Workers Will they need passports? es, they will need passports and TWIC cards.
ION Representative Public ION Representative Ye Public Public Pt	here will be incinerators onboard. We will take the incinerator leftovers and rash to Seattle. laska Workers Will they need passports? es, they will need passports and TWIC cards.
Public Ala ION Representative Ye Public Pt	laska Workers Will they need passports? es, they will need passports and TWIC cards.
Public Ala ION Representative Ye Public Pt	laska Workers Will they need passports? es, they will need passports and TWIC cards.
ION Representative Ye Public Pt	es, they will need passports and TWIC cards.
Public Pt	
	t. Thomson fuel transfer MMOs couldn't do any studying until they got into
<mark>U.</mark>	.S. waters.
Public ~4	49 min. How often are you going to discharge?
Public I d	don't know what the discharge frequency will be, but we will follow OCS
	ischarge policies and take the rest to Seattle.
ION Representative	
Public ~5	53 min. So your trucks are going to be full? Are you going to take down the
	ladders? You're going to be taking
ION Representative I'n	m hoping not to use drums, but to use big bladders.
Public So	o you're going to be having containment?
ION Representative Ye	es.
Public Yo	ou'll be needing some containment. How big are the ladders going to be?
ION Representative 25	500-5000 gallons. This is still something that's open for discussion. There are a
lot	ot of different options right now.
Public Qu	uestion
ION Representative W	/e are going to fill up in Canada and use North Slope fuel for our refuel/fuel
tra	ansfer.
Public So	o the bladders are going to be in the village?
ION Representative W	/e will find a safe place
Public Ho	ow many MMOs per ship?
ION Representative Lik	kely going to be 2-3 on each vessel.
Public Ar	re you going to be using local resources?
 	/e will use as many local resources as we can.
Public W	/hen are you starting the program?
	o earlier than October 1.
	/hy so late?
	ecause the design is to avoid all subsistence activities and have the least impact
-	n the marine mammals.

Barrow Whaling Captains Association Meeting

01/25/2012

Meeting was held over dinner at Pepe's

Eugene Brower, President of the Barrow Whaling Captain's Association was invited of the proposed meeting and asked to distribute the invitation to all the Barrow whaling captains. Approximately 40 whaling captains attended the meeting.

The following representatives attended on behalf of ION:

Ed Nelson, ION Exploration Manager Meghan Larson, ASRC Energy Services (AES) AES Stakeholder engagement Inuuteq Stotts, AES Stakeholder engagement

General – ION provided an overview of the proposed ION 2011 BeaufortSPAN West project utilizing a power point presentation. These notes are meant to capture comments and responses from meeting attendees.

Public	Eugene Browne Introduced the Whaling Captains
Public	Before we go any further, is there going to be any time for questions and
	answers? Is this going to be the same presentation as at the Mini-Convention?
ION Representative	It will be a little bit of both Mr. Hopson.
ION Representative	Ed introduced the team and ION's proposed 2012 project.
ION Representative	Showed video of operations in the Greenlandic Arctic in 2011.
Public	There is a cable there, what is that again?
ION Representative	That cable right there sir is the gravity cable. It's a gravity cable; it measures the
	gravity of the earth right there.
Public	Is that seismic?
ION Representative	Yes, sir.
Public	Is that an airgun press?
ION Representative	Yes, sir.
Public	How many pounds of pressure?
ION Representative	2000 psi. Our array is 4450, but 2000 psi. We will be shooting 28 guns from 65in ³
	to 360in ³ .
Public	Do you watch out for animals during seismic?
ION Representative	Yes, we have MMOs. In these waters over in Greenland and Canada we use
	Inuviks as our MMOs.
Public	What is that bubble?
ION Representative	That's where the gun goes off. When this started coming out, people thought the
	guns would blow ice all over the place, but that's not the case, the guns are way
	too deep.
Public	One of my friends that works on seismic has seen the water go way up.
ION Representative	When you tow your guns, the closer you keep the guns to the surface it's going

	to come out on top. We tow our guns from 8 ½ meters [below water surface],
	which is maybe 30 feet, down to 60-70 feet. We will be working in waters 7 ½ to
	155 miles offshore, we'll be working in waters from 65 ft up to 11,500 feet deep.
Public	How did you come up with October 1? How did you come up with that date?
ION Representative	We came up with that date through our design and research. We looked at past whaling seasons and we looked at since we're starting over here in the Canadian/U.S. Border and then you have Kaktovik, then Nuiqsut, then Barrow, typically Kaktovik and Nuiqsut would end right around the end of September or early October and Barrow will be way over here several hundred miles away. We are not going to be doing any kind of seismic until Kaktovik and Nuiqsut are complete with their whale hunt. That's why we picked October 1. October 1, sir, is just a start date for a permit, but it doesn't necessarily mean that's the day we are going to start because we are also telling the villagers we'll start when they've finished their whale hunt. If the whale hunt is finished on October 10, then maybe we will start on October 12. October 1, sir, is just a date that we put in there to tell the federal government that's the start of our permit date, the end of our permit date is December 15.
Public	If you're going to do that show me where your leases are, whose leases are you working on? Are you doing this to make money and sell this to the companies that have leases? Show me where the leases are, what's your intent?
ION Representative	Sir, that's a very good question. We know right now that Shell has leases over here.
Public	Sir, I don't want you to tell me they have leases over there. You need to tell me exactly where these leases are. I don't want you going out there on your own. I want to know exactly where the leases are. I don't want you scanning the arctic doing these things. You're just arbitrarily going out there shooting, killing animals. You don't have leases and you have no business out there.
ION Representative	I don't have the lease map, but I can get that information for you. I don't have that information and honestly I don't know/ [have] with me Mr. Hopson, but I will get you that information.
	[note – this information was provided to BWCA in letter sent Feb 8, 2012]
Public	You're just arbitrarily going out there shooting to sell it to the industry and maybe the state. You have to have a reason to be out there. Who's paying for you do this?
ION Representative	When we undertake these businesses, these programs, Mr. Hopson, we go out with the business model that we undertake it ourselves and then we have people that want to buy in on it. Who the buyers are, honestly at my level, I do not know. The leases, I know its public domain, I can probably find them for you and furnish it to you, but off the top of my head I do not know that also sir.
Public	Do you have a permit?
ION Representative	We don't have a permit yet, but we have filed our permit with the federal government. With BOEMRE [BOEM], NMFS, USFWS. They have not given us our permit. From what I understand we might not even get our permit until late September. We don't know, or we might not even get it at all.
Public	So if you don't get the permit it's cancelled?
ION Representative	That's right, if we don't get a permit we don't work. If they don't give us our permit until mid-October then it would really be too late for us to do anything to

	get all mobilized and geared up for it. We would probably ask to see if we can
	amend it and renew it for the following year.
Public	If you have to amend it, we usually start our fall whaling in the first week of
	October.
ION Representative	Okay.
Public	It would be good if you pick a different day if you amend for next year because
	you'll deflect our whales way far.
ION Representative	That's why I'm here, to get your feedback. We know there's going to be conflict
	because of our gun array that travels, even though we're going to be starting
	way over here. I'm not sure if you're going to be whaling up here, out here, or
	over here for the fall whale hunt. We seem to think there will be enough
	separation, but maybe there isn't enough separation because they will still be
	hearing the noise.
Public	In fact, based on the past experience with seismic activity off Barrow to the east,
	any time there is seismic activity the whales are deflected from their migration
	route. We have history to prove that we have had to go 50-60 miles out just to
	find the animals. This is a concern not just because of global warming; the ice
	receding 300-400 miles out now, any wind that picks up is going to play havoc
	with the whalers that are out there subsistence hunting. Water is the best
	conductor of sound hitting the ocean psi, what is going to be the range? How
ION Deparementative	far is the sound going to travel?
ION Representative	The acoustic company, Jasco, will run a sound source verification off the vessel.
	We run in different water depths from less than 100, 100-1000, and greater than 1000m because those impact how sound travels. Jasco has already done some
	modeling, what they predict, because they've been out there in the past, so we
	do have some ranges – our mitigation ranges. They estimate between 180 and
	190dB to be that threshold level where they don't want whales. For 190dB in less
	than 100m of water that's 600m, in 100-1000 that's 180m, and greater than
	1000m that's 180m. 600m is just shy of ½ mile. 180m is about 1/8 mile. The
	safety radii will be determined before we start the job if we get the permit.
	Those will be defined by the SSV test that we'll run with the gun array that we're
	going to be using. That's where the safety radii for the marine mammals will be
	set up by NMFS. Those dB levels are what have been scientifically shown to be
	that threshold level at which they don't expect an impact. When we have a
	marine mammal within that zone, and we adjust as an MMO for water depth,
	that's when we shut down and go quiet if there is a marine mammal around. We
	shut guns down and go silent if that is a marine mammal in that zone.
Public	On those cables sometimes you lose cables.
ION Representative	We use seismic streamer cables for recording, for recording the seismic data.
Public	On the ice, sometimes they might break.
Public	It's what he explained earlier, you go way underneath from the middle of the
	boat how many meters and then out.
ION Representative	The skeg is 36-40 feet down and comes out. Instead of coming out the top of the
	boat it comes out the bottom of the boat. We have birds that can dive down or
	bring the cable up.
Public	It's like trolling for fish.
ION Representative	The same methodology.

Public	Do you have only one streamer for recording?
ION Representative	Yes, only one cable.
Public	How much noise does it make when you fire?
ION Representative	Depends on proximity to the guns, I don't know what it is at the source.
Public	What would be nice if you're going to be making presentations is to show a picture with the noise, like when you're towing and the air bubble coming up, the actual noise you're picking up is important to tell us.
ION Representative	We are doing sound source modeling with Jasco all the way to Barrow, results will be ready by the Mini-Convention. It's sound source modeling in the computer. We have not been able to go out and do a real, live test because the opportunity has not been there. This year, permit granted, we will be able to furnish those test in real time, in real life when we come back to do our close out meetings with the Whaling Commissions and the Communities. [note – this information was not available by Mini-Convention. BWCA was informed in letter sent Feb 8, 2012]
Public	This fall when we were whaling we hardly saw bowhead whales like we used to. It was probably too much activity in the Beaufort and we have to go far.
Public	That footage you just showed us, was from your company?
ION Representative	Yes.
Public	Then I don't see how you didn't get sound verification from that.
ION Representative	Thank you, that's a very good point. I could get their results, but would it be valid in this case? In the Alaska Beaufort at the time of the survey? We are going to be doing our testing in October and November, if those tests were being done in September or August then the water is going to be different. The results would be misleading one way or the other because of the timing of the year of the tests and the water depth.
Public	When are the starting dates on these seismic lines?
ION Representative	October 1 or after the Nuiqsut and Kaktovik whaling season.
Public	What is your estimate to be finished and up and around the Barrow area? If the start date is going to be way over there, what are your estimate dates of how long it will take you to get over to the Barrow area?
ION Representative	To be honest with you we'd be lucky to get half of that done this year. That means if we start here, we'd be lucky to get half way before we have to leave. We would have to come back again, regroup, and talk to the whalers and everybody. There is a lot of work to be done there in October and November, it's going to be rough, there will be a lot of ice. We may only be able to work 3 weeks and have to leave.
Public	Your MMOs- are you rotating from the villages for the areas that are affected during those operations? You've got Kaktovik, then you go to Nuiqsut, but when you go to Barrow we've got a big stretch. We'd like to see an MMO from our region.
ION Representative	We are going to hire MMOs out of every village. And we will have an emergency call center. We will be hiring out of each village.
Public	Why are you starting on those dates? You've got an offseason during the summer, its ice free. Why are you guys starting when Nuiqsut and Kaktovik whaling are done? What's going to happen with all that noise is the whales will be spooked and they will try to avoid where the noise is. I think you guys should

	do it in the offseason. That'd be like end of July, right in that area, when there's a lot of activity going on back and forth from Prudhoe to Barrow.
ION Representative	We've been conducting surveys in the Beaufort since 1979, they've been doing aerial surveys. In the time of year and area they're talking, in the upper area in greater than 1000 feet of water, only 2% of whales are in that depth of water. By that date, 97% of whales will have passed through the eastern Beaufort. At that point of time in year they're expecting very low whale numbers because most whales have moved by and only 2% are in that depth or water.
Public	The whales will be coming during that time. They'll be past this point when they're starting. How do you know so much about that?
ION Representative	I'm not trying to say every whale, but the majority. Since 1979, the majority of whales have already passed that point from the aerial surveys.
Public	That's why I ask, why do you guys pick those dates when they're going to do their whaling? Why can't you do it during the offseason? Summer time, end of July. We don't hunt whales in July. If you guys started in July you might be through by August, and there's ice free water nearshore. When you get your permit, you're going to do it no matter what, right??
ION Representative	It's not no matter what. The whole intent in us shooting in October is because we feel that the majority of the whales and subsistence stuff is already migrating out and we will be behind it. We understand there's still going to be marine life out here, but they will already be migrating out and we will be behind that migration. That's the way we're looking at it.
Public	What I'm trying to say is if you get your permit you're going to do this no matter what all the way up to Barrow right?
ION Representative	If we make it that far.
Public	What we're trying to say is if you start at the end of July and go the other direction you'll be out of here by the time we're going whaling. Instead of starting from back there, it would be better going from this way. You'd be out of our hair already.
Public	Then you have Nuigsut and Kaktovik.
Public	Everybody is trying to say why don't you guys start early and try to get as much as you can before we start whaling?
Public	He's saying their only going to be able to do half. So if you guys start from this side going this way you'd be out of Nuiqsut's way before they even whale, or Kaktovik.
Public	How long would it take to do one transect heading north?
Public	I can get the distance of that and divide it by 4.5 knots, the speed we'll be traveling.
Public	20 miles, 15 hours.
Public	Normally we start our whaling between mid-September and early October and continue until we finish our quota. In 1990, we witness a phenomena, we started whaling in mid-September, but we didn't see any whales for about 3 weeks. Finally someone found some in early October near Cape Simpson. We came to find out there was a seismic ship operating out there, the Arctic Rose. There were no whales, absolutely nothing while we were out there. We didn't find the whales until we were about 40 miles out; that is the kind of impact we're trying to avoid.

Public	Have you studied effects of airguns on fish and smaller krill, planktons? [inaudible] That's the beginning of the wildlife. I haven't seen or heard any studies from you guys [inaudible] what they eat, what the animals eat. Fish go by from Canada and north to Alaska; they travel from south and go north. [inaudible] I think everybody's wrong here because you guys shouldn't be out there until you give us the right, perfect answer that there will be no harm. You
	guys shouldn't be out there because of no studies of animals.
ION Representative	There have been studies done on fish and seismic because seismic has been going on around the world. Recently they've ramped up research on it, but a lot of it is hard to measure. They do show that fish tend to exhibit avoidance behavior and get out of the way. There was a study off of Kaktovik, off Liberty; they followed behind the seismic vessel. They were trawling behind it to see if they were seeing any dead fish and to see what they were getting. They didn't see any impact with that particular study. They did the same thing in the Gulf of Mexico in a really prominent fishing area. They trawled right after seismic went through and there was a diminished count. They trawled again two days later but the fish they saw had returned, they got the returns they expected. There was a temporary displacement of the fish, but they did come back. When they've done other studies when they've had the fish close to the source, they don't see death or mortality unless that fish are within meters of the source, the fish do exhibit
	avoidance and try to get away though.
Public	Do you guys have fish finders where you could see under the water? Do you have any of that equipment under the ship so you can see fish, bearded seals, or ooogaruks?
ION Representative	We have what you call a Forward Looking Infrared Camera that detects heat, but if you're talking about underwater, no sir. It's basically if there are marine mammals out on the ice or a head sticking out you can image and see what kind of marine mammal it is. We don't have anything under the water to see what's swimming.
Public	You guys should get that kind of equipment first before you begin. Who know if you guys destroy a lot of fish or not. A lot of seals are being sick.
Public	The reason we are opposing your start date is because if we have to tow whales from a great distance the meat gets bad because it stays the same temperature and it cooks itself. We lose the meat, the heart, the kidneys, the intestines. If you don't get your clearance to start this October, we would recommend that if you have to do it next year you do it in July and August.
Public	Where do the fish study reports come from? What I heard earlier is that there are no studies that satisfy what everyone wants to know about. What kind of reports are you referring to and how do we get a hold of that?
ION Representative	We can get a hold of them and provide a copy.
	[note – this information was provided to BWCA in letter sent Feb 8, 2012]
Public	You can bring them to the Mini-Convention.

Public	I would like to support what Henry said earlier about the start date. Going west to east would be good to have an earlier start date. You'd be starting at a period of time when there is no whaling in Barrow. Some of the concerns raised, our whales that were caught in the past, in 1988 the was caught so far away it took so long to tow it back and we got caught in a storm and we did not have the ability to cut the stomach to get the gas out it spoiled the meat on the way in. In the past, when the whalers made note that the whales veered off so far that we couldn't get them in the right place to harvest resonates when you're going to do seismic so close when active whaling will be going on. Scientists have proven that 12 miles from the source of your guns active evasive maneuvering is going on. 22miles whole pods start to turn and deflect, their rate of return back to their migration route is a concern of the whalers. We still don't know once you push them out so far when they return.
	[note – letter to BWCA in letter sent Feb 8, 2012 informed BWCA that this request had been passed on to ION upper management]
Public	Start from the western end on July 20, at 4.5 knots, 100 miles will take you three days. That's 9-10 days per line. I don't think that's going to take you a month once you establish your coordinates. It's mathematically simple. Start in July you'll have 90% of work done. To interfere with subsistence hunting is prohibited, I can't understand that and I would recommend this association and the AEWC put a stop to anything in the area of a whaling season.
Public	On the recommendation too, we prefer in July to do the nearshore activities. During the latter part, in August/September, go further offshore. Get the nearshore done first as a priority and then move to the outer continental shelf. That would minimize effects on some of the whale migration coming in to our communities for harvest. That would be a great recommendation to follow through on. Barrow is the biggest whale harvester of all the communities, we provide for all of our communities.
Public	I've heard a lot of very good comments. There is always a trust factor, the operators saying one thing and the stakeholders are asking, the permanent stakeholders that have to live by what's impacting and affecting what we feel is our livelihood. One thing that was suggested in part is when all this info is shared, the airline industry has these black boxes where everything is recorded and is shared for verification if anything happens, to what extent is that available to this industry. And the second is that we can recommend until we're blue in the face about start and end dates that would allow no disruption to our subsistence activities through our CAA process, but our argument and our concerns and expressions are with those that issue the permits. How readily are the operators going to take what we feel is going to hinder their operations to the permit issuers and say we want a game change today.
Public	We had a CAA meeting last year; you altered your CAA when it went out? Are you planning to do the same thing and not listen to us? You made your own changes, are you going to ignore us again?
ION Representative	No, Mr. Hopson. Last week before I came up here we made comments to the CAA that was requested by the AEWC. I've made comments and taken them to our corporate officers and legal for review to be resubmitted back to the AEWC. Our plan is to have our legal department look at it before we resubmit it for this

	year. Earl Comstock asked us if we were going to comment on it and we said yes
	we would. He said please get it to us as soon as you can. I am hoping to get it to
	the AEWC sometime next week.
Public	We have a Mini-Convention coming up that you will need to make a presentation
	at.
ION Representative	Yes, we will be there.
Eugene Brower closed the meeting in Inupiaq and translated into English.	

The recommendation coming from them is to do nearshore early in the spring when there are no adverse weather conditions. It would be beneficial to you and to them also. In the fall time the winds come in from both directions, they are going to hamper your operations, also our fall hunt. Our fall hunt is predicated on the weather patterns, the winds. 15-20 knots, we're not going to move, we're going to stay home depending on the ice and wind conditions. Their recommendation to you is to start early, if you can do it, nearshore and work your way out. The further out you go towards the continental shelf, the better off you're going to be. These are the recommendations they are giving to you. Also, as our elder Ben Itta says, that area has had a lot of seismic activity, over 30 years, by different operators. Where are the findings and data? Have they found anything out there? We've had how many operators come through and do seismic like you're proposing, but nothing ever comes out, it's all confidential. They're very vocal; they're very serious about the hunt.

A Whaling Captain spoke in Inupiaq.

He's the applicant, the application approver over there are these people, our leaders are supposed to tell him his schedule is wrong. We would like it to be done at the proper time, begin June 30, July 1. Global warming is here, let them go ahead of schedule. To intentionally go over there and obstruct our subsistence is prohibitive. We need to do something about the federal government to approve them for those dates only.

A Whaling Captain spoke in Inupiaq.

I have one more comment; you say you have a meeting at the Heritage Center. I want to tell you a fact; these people are the providers of the whole community. These people speak for everybody that is going to be there. [inaudible] These are the providers to the whole community. I don't know who is going to be over there, but this the party that you're going to deal with. This is the stronghold of the community; we are the people you are going to listen to. These are the people, the providers, the strong voice of our culture.

ION Representative	I understand. Thank you, sir.
Public	The closest point on the closest line – is any of that within the NSB boundaries?
ION Representative	The closest we'll come in is 7 ½ miles.
Public	How about support from nearshore?
ION Representative	Our support will come from the Polar Prince [inaudible].
Public	I just wanted to highlight this because of the safe harbor permit in Wainwright
	[inaudible].
Public	I think if you're going to end up going out there, you have to sign the CAA. The
	CAA is very simple. It's just to avoid conflict between the oil companies and our
	whalers. If you don't follow the CAA that puts our whalers in jeopardy if you
	happen to be out there when they are whaling, so you have to go with the CAA.
	The CAA is something just to avoid conflict; you don't have to change the words
	on it. It's just to avoid conflict, so we will know if you are out there you will have
	a blackout date. You don't have to reword it, we just need the CAA in place.
Public	The first line from west to east is about 7 miles offshore. They should put some

	numbers in there to identify how far offshore the lines are.
ION Representative	We can get you the lat/long and distance every so kilometers. We dissect this
	into sections and give you the distance of the line from the coast.
Public	Also, the questions that were raised by the Whaling Captains here, if you could
	respond to them by the Mini-Convention that would be nice.
ION Representative	We will send it to you and bring them as well.





Community Meeting

Please Join Us
*** 7:00 – 9:00 PM ***

Wednesday, January 25

Inupiat Heritage Center Barrow, AK

Who ION Geophysical, Inc. (ION)

Why ION is proposing to conduct a 2D seismic survey in the

Beaufort Sea during fall 2012. The proposed ION BeaufortSPANTM West Program operations are planned

for October 1, 2012 through mid-December 2012.

What Present the proposed BeaufortSPANTM West Program

and obtain community feedback

Door Prizes and Refreshments will be provided.



BeaufortSPAN™ West Program 2012 2D Marine Seismic Survey – Beaufort Sea - Delay

Attendance Sign-In Sheet Barrow, Alaska January 25, 2012 Inupiat Heritage Center 7:00-9:00pm

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
E welly thugh	Sell	61-5333			130x 677 13RW Alc
Doren Knowl	Self	235-9054			BOX 571 Anchor Pt. Alc 99557
MaryHugz	self	<i>\$51-5333</i>			BarrowAK
Micah Nygo	()	U			Barrow AX
RicklRice	1/	852-7647			1230 BRWAK
sholley BA	11	6164			PO BOX 1630
Martha Hopson	Self	5448			PO BOX 26 BRW AK
Assaun 1000		4631		Spannga Normall.c	am " 1386
James Rebley		3471030			
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Pro 2600 chotoneil. com

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BeaufortSPAN™ West Program 2012 2D Marine Seismic Survey – Beaufort Sea - Delay

Attendance Sign-In Sheet Barrow, Alaska January 25, 2012 Inupiat Heritage Center 7:00-9:00pm

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
David Hauge	Self	367-4583		delargate normailion	* PO Box 1838
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Nancy Leavitt	Self	852-2258		nore	X 503
Lloyd Stein	sel-	852-2862		Bermaningping &	
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BeaufortSPAN™ West Program 2012 2D Marine Seismic Survey - Beaufort Sea - Delay

Attendance Sign-In Sheet Barrow, Alaska January 25, 2012 Inupiat Heritage Center 7:00-9:00pm

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Steven Raford	Self	855-1127		Steven Retrato	POBUX 2346
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Lutner HKPK				. ,	
MARX TO BROUKE					
Forrest Olemann	Self				

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BeaufortSPAN™ West Program 2012 2D Marine Seismic Survey - Beaufort Sea - Delay

Attendance Sign-In Sheet Barrow, Alaska January 25, 2012 Inupiat Heritage Center 7:00-9:00pm

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Ryan Oyagak	Mysefe	4925		Ryan_Oyasak	Bx 1178
Ryan Oyagak	Self	6643			1734
ALIVAKAKHARA)	mE	855			
					1

OF		

Barrow Community Meeting 1/25 7pm

Ed-Intro

Movie- Questions during the movie

Thin ice will start forming from lagoon on...

We start looking at this ice - 10 October

How about 7.5-150mi offshore

Current comes from the east it makes its way toward Barrow... Ice everywhere

How far offshore is this?

Starts in the lagoon and makes its way offshore

IF you say this is the type that will shut you down... by mid-October the lagoons are frozen like that 7.5 mi from coast – 150 miles out. That kind of ice is forming out there?

Yes by early November

East and near shore will build up ice quicker... By first week of November you'll have solid ice in the east... that's why the whaling captains...

Ice pack out there

Is that because of yout permitting? Why are you not taking the whaling captains advice? Answer...

Where are the vessels coming from?

Canada, They're coming from Tuk, Canada.

We will have daily satellite ice pictures to tell us where we can/cannot go... Mini-convention

We didn't try to ask you where the boat was coming from.

Seismic work has been done before and we haven't seen any of it...

Basically it's the people you guip answer to

During foggy periods like you showed? Are you going to shoot in periods like that with limited vision? If we can't see ½ a mile and our radius is ½ a mile we won't be shooting

Where will you be getting your MMOs from?

Kaktovik, Nuiqsut and Barrow

Energy Services has a pool of applicants and sometimes the operator takes a shortcut and goes right to the pool We are going to hire them right out of the villages.

FEX went to the communities and held meetings. They took their time to find ice specialist and huntersit's good to have that kind of person on your boats. They will know who to contact and how to properly address...

Someone who can talk to the hunters in our own language. Trying to give some friendly advice to find someone who can talk in both languages...

•••

... it's good to have those people who really know what's going on.

I was wondering if you could tell us what is the purpose of stakeholder outreach? Are you getting approval from?...

No we are not.

What is the purpose?

It's a part of federal permit requirements

•••

Spoke in Inupiaq

Important to note that one of the whaling captains noted earlier before you got here that this process may be best done in early July...

Going to be important for this public to know...

Collectively what types of experiences in arctic waters...ERP...

The ERP we are working on will be in conjunction w/ BRW SAR and NSB SAR we... would come...

Lastly I think it would be wise to head Mr. Adams recommendations...

Mr. Aiken... is working hard and diligently to look over the whaler's best interest...

It's not just us that we're speaking for it's our extended families that rely on our

Is ION going to sign the CAA?

I completed comments on it on Friday I submitted those to...

Do you know whether ION is planning to sign the CAA?

It's up to corporate but to be honest I feel good about it... I will have some other people up here... from me to you I feel very good about the whole thing. Better than I the last two years.

Could an airgun kill a whale??

•••

Level B take?

Even with cruise ships you still have casualties with whales...

So for your ERS you're relying soley on?...

...just starting this conversation... fuel... working procedures on extraction... I will work with Oliver and his group... I talked a little but with George in Kaktovik... We're talking; as we're talking we're planning. There's still a lot of front end work that needs to be done...

In that regard we had some highly capable helicopters... not nearly as capable... operation could help with procurement of more capable...

Last year when I was talking to them they didn't have a winel...

•••

We're looking at that and also staging a Medivac and 206 type...

I guess I don't have to emphasize enough because you know when Johnny Aiken... represents 10 whaling committees importance of making sure the... degree that the federal government will listen to us... our fight is not with... when the federal government is starting to put covenants... to paraphrase a quote... hunger knows no law and our elders still live by that.

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Attendance Sign-In Sheet Wainwright, Alaska February 20, 2012 Community Center 5:30-8:30pm

Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Icebug 8	763-2418			
Leberg 8	763-2418			
Ice bug 14	767-2620			a.
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(note: 24 more people were present)

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ION/Wainwright Whaling Captains Association Meeting in Nuiqsut Community Center February 20, 2012 Presentation 5:00 – 6:00 pm Wainwright, Alaska Meeting Notes

Wainwright Whaling Captains Meeting 02/20/2012

Attendees:

John Hopson, Jr.
Oliver Peetook
Saundra Peetook
Jason Ahmaogak
Rossman Peetook
(A few more attendees that did not sign in)

The following individuals were informed of the Wainwright Whaling Captains' Association Meeting:

Walter Nayakik, President of the Wainwright Whaling Captains Association John Hopson, Jr., Commissioner of Alaska Eskimo Whaling Commission Ransom Agnasagga, Alternate Commissioner of Alaska Eskimo Whaling Commission

The following representatives attended on behalf of ION:

Ed Nelson, ION Exploration Manager
Darren Scott, LGL Associates (Is the company correct?)
Michelle Turner, ASRC Energy Services (AES) AES Stakeholder engagement
Elizabeth Rexford, AES Stakeholder engagement

General – ION provided an overview of the proposed ION 2012 BeaufortSPAN West project utilizing a power point presentation. These notes are meant to capture comments and responses from meeting attendees.

	Ed- Intro
Public	You can't fuel up in Canada? (Asked after Ed explained about refueling scenarios)
ION Representative	Well, we are going to fuel up in Canada before we start, but if we don't apply for one refueling and we need to refuel then we won't be able to. This is just a backup to come to Dutch Harbor, it would be very remote to go that far for a round-trip of ten days from here to here and back up (map) so I would prefer we just have our barge waiting in Canada for us to get fuel for the rest of the job. But then, because of ice conditions and if we have to leave by November 15, then we have to exit going out the east side of Saint Lawrence Island, or whatever route is preferable during this time so not to interfere with anybody's hunt (10:33) That will all be determined when that time comes, and also what the ice conditions will be but still we have to come out this way (map), we can't go out this way and come out the Panama Canal. (10:55)
Public	What about the storm?

ION/Wainwright Whaling Captains Association Meeting in Nuiqsut Community Center February 20, 2012 Presentation 5:00 – 6:00 pm Wainwright, Alaska Meeting Notes

ION Representative	The storm? Umm we might have to divert here (map) somewhere into
	Russian waters and stay out of the way That will be the call of the captain.
ION Representative	If I wanted to talk to someone here directly, and stuff like that, between now and October 1 st or 15 th , when we start this project Who does ION talk to if there is activity?
Public	That's what the Com Centers are for. You communicate with the Com Centers (11:55), the Com Centers will have an understanding of what we're doing in each community. And if they are whaling you just divert, if they're not whaling then That's why we have pushed so hard to keep the Com Centers open until all activity has ceased in the Arctic waters. That's why we push you guys to say "Yes, we want the Com Centers until end of December." That's why. That's what the CAA mandates – that the Com Centers are open until all activities is done in the Arctic Waters, and that includes you being the last one out of here in December. Shell and Conoco plan to be out of here in early November. It's for the safety of people, #1, irregardless to who you are or where you come from
Public	You can try your best to try to find someone to communicate with, but the best place to do it is the Com Center because they're open and they're manned. No one will be here the entire time The best place to go are to those that are employed to take care of that Com Center is your concern, keep them open while you are out there and you won't have any problems.
ION Representative	We're going to open an emergency center also, that's going to stay open from the time we start and the time we completely shut down Thank you, basically that's about it in a nutshell on how we are going to start and how far we expect to get for 2012, and then we will regroup again and see how we are going to work on this area for 2013. But like I said, we will be starting on the East and we'll shoot this in patches going west but of course we won't be starting here (map) until Kaktovik and Nuiqsut are finished, and then we won't start here until Barrow is completed with their whale hunt
LGL Representative	We noticed that the last couple of years you got the whale in the fall early November
Public	Yes October we are pushing 30 miles offshore for these animals now and we are out there in these little tiny boats if we are out there and need help, don't say no (laughter) they're pushing 30 miles now in open water.
ION Representative	We will probably be swinging by here to talk to you again as we get closer, just to give you guys a status report and to move forward with our project and working with you guys for an efficient operation
Public	Keep the Com Centers open, and I'm good – because it employs people and keep communication lines open, that's my main priority
AES Representative	Would it be helpful for you, and for Wainwright, to have a community liaison here? Or, do you think the Com Centers meet all the requirements for communication.

ION/Wainwright Whaling Captains Association Meeting in Nuiqsut Community Center February 20, 2012 Presentation 5:00 – 6:00 pm Wainwright, Alaska Meeting Notes

Public	My answer to that is Yes – you have a liaison here and have the Com Centers
	open it worked with the liaison employed through Umiat.
ION Representative	This will all be funded through us, and will be to the very end.
Public	When you look at the map, the liaison part in my opinion should go to Barter
	Island and Deadhorse/Nuiqsut because you'll be working in their waters I don't
	get affected as much in our area, until the whales start their migration up and
	around – that's when we'll start seeing if you've impacted them or not because
	we start hunting in October and we have gone boating for whales in
	November So that's where I would see the impact (said more about whale
	impacts)
ION Representative	Well, we are going to have liaisons, one from each village, and this is the first
	discussion having one from Wainwright though We're going to have one from
	Kaktovik, Nuiqsut, and Barrow employed 24 hours / day in each village through
	the whole thing, and now we're probably going to have to incorporate one from
	Wainwright. (21:40)
AES Representative	If it's something you find useful
Public	I think it would be 1 because your liaison can document things, where your
	vessel is, what it's doing, how far away from Wainwright and your liaison would
	also state in your documents when Wainwright went whaling and how far out
	did they go, things like that then you have a track history of what you're doing
	and where you can and can't go. It's to even your own benefit to do it, and your
	company's benefit. If you plan on being in our waters for the next 20 years, now
	is the time to start documenting what we do and when we do it, and you'll have
	an understanding of what you can and can't do when it comes to the challenge
	of "here's my plan, what do you think?" Based on the knowledge you have
	today, you have almost none, but in 5 years when you do something it's just a
	stroke of a pen now because you have that information documented. So, it's
	almost to your own benefit to employ these people It may not help you today or tomorrow, but in the long run you're going to find it so much easier having
	this information because it's information you got from the local people, it's
	documented. You can say "you wrote that document, let's go with it" It's
	simple.
AES Representative	Do you know when the Wainwright Com Center closed last year?
Public	First week of November
	1

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Community Meeting

Please Join Us

*** 6:00 – 8:00 PM ***

Tuesday, February 21, 2012

Community Center Nuigsut, AK

Who ION Geophysical, Inc. (ION)

Why ION is proposing to conduct a 2D seismic survey in the

Beaufort Sea during fall 2012. The proposed ION BeaufortSPAN $^{\text{TM}}$ West Program operations are planned

for October 1, 2012 through mid-December 2012.

What Present the proposed BeaufortSPANTM West Program

and obtain community feedback

Door Prizes and Refreshments will be provided.

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Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Teresa Judicins		480.2207			Box 89243, Nri, Dre
Ed Mukapigale		481-2903			130x 89008 RLISEL
Mary Cabinby		480-6732			BOX 89005 NUI
James Taalale	City	480 6727			Box 89264
Shari Carother	\$				PO BOX 89333 NUI
Ken Carophes	Cid				POBOX 89333 N
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Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
MILLIE SIECAK	SELF				NULUSOT, AK 99789
John M. Hopson	Self				NUIESUT, AK, 99789
Lottre M. Evikana	SEIF				nuigsor. Alc 97789-
Thorn Llehank	Self				Muys LAL 8978
Deveyor Hopson	Copy				Minson. Al 19789
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Karlul Wilzel					
Jusmin Nilloll					
John Much					u u
Frank Kignah					

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Attendance Sign-In Sheet Nuiqsut, Alaska February 21, 2012 Community Center 6:00-8:00pm

Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Deniel DSoralik		480-2724			1Vui asat
GeorgesHopson		480-2794			Nuigsut
Luava Hopson 7					Nuigsct
Dorcas Tulle					
Eunice Paurinn					Muigsaf
Jesse Hopson					Nyigsat
Lucy Nukapigal					Naugszt
Clara Nukapigale					Nungout
Isaac Nukapigah	Kemkpik Corp				Nuigsut
Teac Nukapigah Perg Matumeda	Lelf				BRW

Lydis Soralit

MuiusuT



Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Daryl Hopson					P.O box 84053
Audrey Hopson					POBOX 89040
Konen Tralock	USA	<i>-</i>			Pullingsut, All garge
Day word year /c					11 //
Rhoda Mullen					By 89045 Nugsut, Hk99189
TOM DIXON(Nuigsus At 99189 Nuigsus At 99181
Alison Nichals					
Mildreokittick					
Jimny A. Cyuzuk					P.O. BOX 89180 Malgont, AK 99789
Billy DYAOXX					BOX 89013 NuiQSUX AK

4	OF	6	



Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Matha Paysuna					P.O.BUX89062
"Susie Pausanne"					Same
Abgail Paysanna"					Same
Ella M. Starker					P.O Pox 89290
forman Mulapigak			72115		Sane
Nellie Muxerigac					POBOX 89034
MARGARETBrowe					P.O. BOY 89286
Ahrnyskova Roger					RKAhnypkaneco
Vorne Hopson					P.O. Box 50023
Virginia Kasak					POBOX 89306

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Name (Please Print)	Representing	Phone No.	Fax No.	E-Mail	Mailing Address
Cornelia Sovalite	ı				P.OB & 89623
Cornelia Sovalite Simon Toorcal					
					NUIQSUT
Helen Tukle ISahNukei7186					

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NOTE: STILL WORKING ON DOCUMENT!

Nuiqsut Community Meeting 02/21/2012

Attendees:

John Nicholl(?) Teresa Judkins Tom Dixon Ed Nukapigak Frank Kignak Allison Nicholls Mary Cabinboy Daniel D. Sovalik Mildred Kittick James Taalak George Hopson Jimmy A. Oyagak **Sheri Carothers** Laura Hopson Martha Pausanna **Ken Carothers Dorcus Tukle** Susie Pausanna Abigail Pausanna Velva Patuk Sovalik **Eunice Pausanna** Ella M. Stalker Ruth (Lampe?) Jesse Hopson Alice Ann Itta Lucy Nukapigak Roman Nukapigak Patrick (Easterday?) Nellie Nukapigak Clara Nukapigak Willie Sielak Isaac Nukapigak Margaret Browen John M. Hopson Perry Matumeak Roger Ahnupkana Lottie Evikana Le(..?) Sovalik(?) Verna Hopson Thomas (...gak?) **Daryl Hopson** Virginia Kasak Dwayne Hopson **Audrey Hopson** Cornelia Sovalik Aglu Hopson Karem(?) Ipalook Simon Toovak (Ral... Nuk...?) Raymond Ipalook Helen Tukle Jasmine Nichol(s?) Rhoda Mullen Isaiah Nukapigak

The following organizations were informed of the Community Meeting:

ASRC Village Liason

City of Nuigsut

Native Village of Nuiqsut

Kuukpik Corporation

Kuukpik Subsistence Oversight Panel (KSOP)

The following representatives attended on behalf of ION:

Ed Nelson, ION Exploration Manager

Darren Scott, LGL Associates (Is the company correct?)

Michelle Turner, ASRC Energy Services (AES) Community Affairs

Elizabeth Rexford, AES Stakeholder Engagement

General – ION provided an overview of the proposed ION 2012 BeaufortSPAN West project utilizing a power point presentation. These notes are meant to capture comments and responses from meeting attendees.

Ed – Intro
Translator (Edward N.) – Intro

Eskimo Whaling Commissions in the past? We been trying to let you guys get involved, and have you guys sign that CAA. What are the reasons why you guys don't want to participate in that? ION Representative Thank you for that question. We have sent our comments into the CAA and the Mini-Convention. We are very happy with the response and the acceptance of our revisions to work with the AEWC. We will put final agreements together, with the AEWC, two weeks from now at the Open Water Meeting once we get the final draft copy of the CAA sent to us and the other industry participants. Public So you guys aren't going to decide to participate in that agreement with the whalers? ION Representative I hope you guys don't try and back off from it, because we always need all the help we can get, especially Nuiqsut, this village ION Representative Yes, thank you. Sir, our survey is designed to work after the whaling season. So, we'll basically, after you say the whaling season is complete, then that is when we will start our job. Public You know, you never know how whaling will be like every year. There's been some years where we've had whales until the middle of October. It may happen here again pretty soon. Back in the 90's we used to whale until the 15 th of October, and still no luck. ION Representative We understand that and that is why we chose to stay away until you guys give us the green light to start our work. Public Question: How will your Marine Mammal Observers be hired and where are they going to be hired from? Will you be observing around the clock? Our observers will be coming from Barrow, Nuiqsut, Kaktovik, Wainwright, Atqasuk, and the villages here on the North Slope. Reason I ask is, majority of the time, most of the hiring is done out of Anchorage and people up North are not satisfied with hiring procedures AES has a bad reputation and record of not hiring people that know the Beaufort and Chukchi. I wish you guys could have considered another entity that has proof of hiring local folks	Public	Question: Why haven't you guys been participating with our CAA with the Alaska
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	ION Representative	ION will be getting our MMO's through ASRC and LGL. ION will also be, in

	·
	addition to that, hiring a person locally in each village a liaison personnel that can communicate what's going on in the vessels and bring it back to the village, and keep track of everything that's going on. We will be hiring a person in each village to take care of our Inupiat communicators and to take care of ION's emergency call center. So that is our part and our role in what we're going to do in addition to having ASRC help us get the 8-10 MMO's we are going to need for our vessels (38:23)
Public	So you are going to get a village liaison from here, stationed in Nuiqsut?
ION Representative	Yes. (explains more about MMO's etc.)
Public	I wish you would give these village corporations that are struggling an opportunity to earn revenue. ASRC is a multi-billion-dollar company – they're not hurting at all, financially. We have village corporations that are struggling, that can use some revenue. Just because ASRC works up there, gives you their blessing and support, does not mean you have to do business with them. C'mon let's get some reality here, there's village corporations that are struggling and hanging by a thread. ASRC is a 2-billion-dollar revenue company, they're not hurting financially, I mean you guys just need to reconsider. ASRC does not represent we may be shareholders but are in a competitive market. We have village corporations that are at the same level to compete, to provide services. Give the little guys a chance, they are hurting. ASRC has enough clients already, they do not need anymore. We have villages that are struggling, give them a chance to bid.
ION Representative	Thank you Isaac. Thank you Anything else before I move onto the next slide?
1014 Representative	Thank you isaac. Thank you Anything else before Thiove onto the flext side:
Public	I have a question on your ERP (54:45) Assuming you have some kind of emergency out there and that results in you have to call Search and Rescue, might you have a vessel problem or an emergency out there, are they going to respond to ION's request?
ION Representative	Well, I'm hoping that they will. We are going to be working with Oliver, Captain Patterson, and we are going to ask him to help us to put a plan together. We have some backup in place are they going to respond? We've got heli-decks that can land two 14's. On our support vessel we basically will have a doctor and have a clinic that will be with the group to run support. There are a lot of different options that we would like to discuss with the NSB, as to how we're going to get the helicopter in there if it's foggy and they can't fly (56:22). We've already discussed last year how we want to handle the fuel in case they have to go out it's ongoing I should say on how it will be handled the best, now that we have a third support vessel that basically has a doctor and full-blown clinic.
Public	The reason why I ask is because during that time of year a lot of people will be dispersing in that time of the year Barrow is usually busy rescuing people So if you have a chopper that is tied up, how is ION going to respond to another chopper that may need to be down there to possibly transport a person or employee or something like that.

ION Representative	Well, we have another option, but it needs to be budgeted and appropriated (57:47). Our operational window – we've actually considered having a helicopter standby in Deadhorse, that's one possibility that we're looking at. It's something that we will further discuss with the rescue experts in Barrow. That's one thing that we have discussed with the SAR department just a few months ago, for something to backup with. We've talked with them two years in a row and they're helping us plan, Oliver Leavitt is there. The Barrow SAR group has also given us really good ideas on what we should be doing. We've also heard from the whalers up there, during that time of year when that we will be working up there, it's a new way to do things, and it's really going to be rough, harsh, it's going to be very extreme and very dangerous. (59:09)
ION Representative	Explained the three ships that will be operating for the project.
Public	What is the thickness on your Geo-Arctic Double-haul and thickness (?) It's not an ice breaker is it?
ION Representative	No It's not, but it's built to work in waters during this time of year, but it still can't work stand-alone, it has to have (explains how the ships work, answers the public question)
Public	You're signing on the CAA right?
ION Representative	I just want to thank you guys, it's good, it's very very good (think rep signaled yes?)
Public	It took you guys years to sign (?) I guess you guys finally opened up your ears, instead of it going out the other year without functioning in ION's brain (laughter)
Public	Inupiaq speaker spoke up Translator → They're just giving a little wake-up call here ION. Over the last two year or so, ION's been avoiding to sign the CAA, they were wanting to do it their way. But, apparently, I guess apparently it didn't work out that way so they convinced you folks to sign with the AEWC under that agreement and you guys have been kind of ignoring the people, trying to do it on your own without any support of any organizations. Just want to give you a heads-up with what you are telling the folks here that don't understand very well Just giving you a little wake-up call here
ION Representative	Questions??
Public	I hope my statement earlier will be seriously considered (1:07:07) and responded by ION Give the other village corporations that are hurting an opportunity to be competitive ASRC is a multi-billion-dollar corporation, they don't need that revenue, we have villages are hurting Just because you have a blessing from Arctic Slope, doesn't mean that even though we are shareholders of the regional, we are in a business market village corporations are there to strive to survive, to benefit their shareholders. These are multi-billion-dollar global corps I've seen how they operated, they're very picky of who they hire, they pick their own relatives open market
ION Representative	Isaac thank you, we will take that under consideration
-1	1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -

ION Representative	You said you won't start until October 1, would it be possible for me to borrow your big ice breaker for whaling? (laughter) C'mon, just thought I'd ask. (laughter)
Public	Question about how the prices of oil are set
ION Representative	The oil companies will the, like Shell, are the ones that establish the prices we
	just explore and look for it
AES Representative	Door Prizes.
Public	Happy crowd.

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Appendix C 2010–2012 Meeting Materials

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2010 Meeting Materials -Copy of a Typical Presentation Given at Meetings

ION Geophysical 15378-03 12-030A July 2012 Rev. 2

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2010 BeaufortSPAN West

Ed Nelson
ION GEOPHYSICAL



Introduction



- Thank you for being here. We are here to present ION's scope of operations for the BeaufortSPAN™ West Program. We appreciate your comments and input.
- The ION Geophysical Team
 - Ed Nelson Project Manager
 - Maggie Ahmaogak Community Relations
 - Beth Haley Marine Biologist
 - Michelle Turner Stakeholder Relations



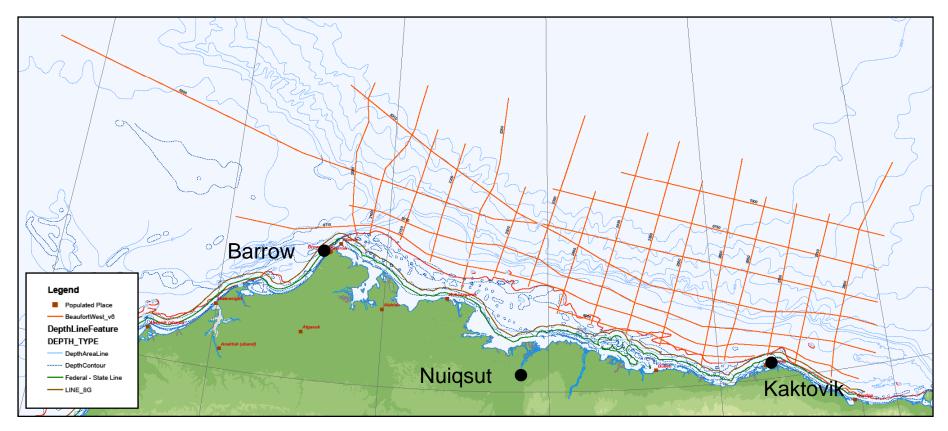
Who is ION Geophysical Corporation

- ION Geophysical Corporation is a leading provider of geophysical technology services and solutions for the global oil and gas industry. ION has over 35 years of oil & gas industry experience worldwide.
- ION is the parent company for GX Technology Corporation.
- ION is Arctic focused
 - Acquired seismic survey data in the Chukchi Sea in 2006
 - Acquired seismic survey data in Canadian Beaufort Sea in 2006, 2007, and 2008. Northeast Greenland in 2009
 - Planned marine seismic survey in the U.S. Beaufort Sea in 2010 (BeaufortSPAN™ West Program)



Location and Timeframe

- Beaufort Sea OCS (Federal Waters)
- Data acquisition in October mid-December 2010
 - starting furthest offshore, east (U.S Canadian border) to minimize exposure to migrating bowhead whales





Project Description

- Survey of 7,250 km (4,500 mi) of transect line (not including times when airgun is not operating)
- Water depth ranges from 20 to 3,500 m (65 to 11,500 ft) deep
- All activities will occur 12 to 250 km (7.5 to 155 miles offshore)
- Towed seismic array and hydrophone streamer from source vessel (R/V Geo Explorer)
- Ice breaker Talagy will break and clear ice ~0.5 1 km (1,640 3,300 ft) in advance of the R/V Geo Explorer
- Three sound sources
 - Airgun array 4330 in³ array; 28 airguns ranging from 65 in³ to 350 in³
 - Echo sounder (measure water depth)
 - Ice profiling sounder (check ice conditions ahead of vessel)



Proposed Marine Mammal Monitoring & Mitigation

- Timing of and location of activities will avoid most marine mammals and subsistence activities
- Start 1 October and end mid-December
- Work from east (Canadian/US border) to west (Barrow)
 - Kaktovik & Nuiqsut bowhead whale hunts should be concluded by 1 October
 - Avoid October bowhead hunt in Barrow by beginning in eastern project areas
 - Mitigate impacts by completing the survey prior to the time when ringed seals establish and enter lairs for reproductive purposes and prior to most subsistence hunting



Proposed Marine Mammal Monitoring & Mitigation

- Vessel based Marine Mammal Observers
 - MMOs on ice-breaker (operating ahead of source vessel)
 - MMOs on source vessel
- Big-eye binoculars on both vessels for use during daylight
- Use of large spotlights for monitoring at night when necessary
- Forward looking infrared (FLIR) camera on ice breaker for use during darkness



Proposed Marine Mammal Monitoring & Mitigation

- Sound source verification on sound sources and radii established
- Area around source vessel and will be monitored by MMOs for 30 minutes prior to airgun start
- Ramp-up procedures will be used
- Power down and shut down-power down procedures for marine mammals within radii will be followed



Stakeholder Outreach

- +
- Met with NSB Wildlife Department (Robert Suydam) on December 15, 2009
- Attended AEWC 2010 Annual Captains' Mini Convention to discuss 2010 CAA (February 12 & 13, 2010)
- Leadership meetings March 16, 17, & 18, 2010 (details on next page)
- NMFS Open Water Meeting (March 22 24, 2010)
- NMFS Peer Review Meeting (March 25, 2010)
- Public meetings in Barrow, Nuiqsut, and Kaktovik (April 8 - 17, 2010)



Stakeholder Outreach – Leadership Meetings

- Met with Special Assistant to NSB Mayor Itta (March 16th)
- Nuiqsut (joint meeting March 17th)
 - KSOP, Inc.
 - Representatives from Native Village of Nuiqsut
 - Mayor of City of Nuiqsut (Mr. Thomas Napageak, Jr., Mayor)
- Barrow (March 18th)
 - NSB Planning Commission
 - Native Village of Barrow (Thomas Olemaun)
 - ICAS (Lloyd Panningona & Helen Simmonds)
 - NSB Department of Wildlife Management (Taqulik Hepa, Harry Brower, Todd Sformo, Leslie Pierce)



Stakeholder Outreach – Leadership Meetings

Kaktovik

- Scheduled meeting with Kaktovik Mayor Annie Tikluk and Kaktovik Inupiat Corporation representative Phillip Tikluk for March 16th, but it was canceled due to illness
- Was unable to schedule appropriate date/time to meet with Native Village of Kaktovik in March due to other planned activities in Kaktovik – scheduled meeting on April 10th.



Stakeholder Outreach – Current and Upcoming

- Public meetings in affected communities
 - Barrow Inupiat Heritage Center, April 8th 7pm 9pm
 - Nuiqsut Kisik Community Center April 17th 7pm 9pm
 - Kaktovik Community Center April 10th 7pm 9pm
- After consultation with leadership in the affected communities, ION developed a Draft Plan of Cooperation which includes input from the communities.
- Ion will provide an update to the affected communities prior to beginning seismic operations in October (updates are tentatively scheduled for August). The communities will be informed about any changes in the project.



Conflict Avoidance Agreement

- +
- ION is working with AEWC to develop a CAA specific to their project because of the October through mid-December timeline.
- The communication plan for ION is to work through the Search & Rescue office in Barrow.
- ION has contacted the president of the Barrow Search & Rescue to discuss the communications plan.



Survey Vessels

+

- R/V Geo Explorer Seismic Vessel
 - DNV 1A1 ICE-1A* E0

- Talagy Icebreaker
 - Russian Icebreaker7







Ice Escort Operations





Experience In Harsh Environments



Ice Conditions Encountered During Survey Operations

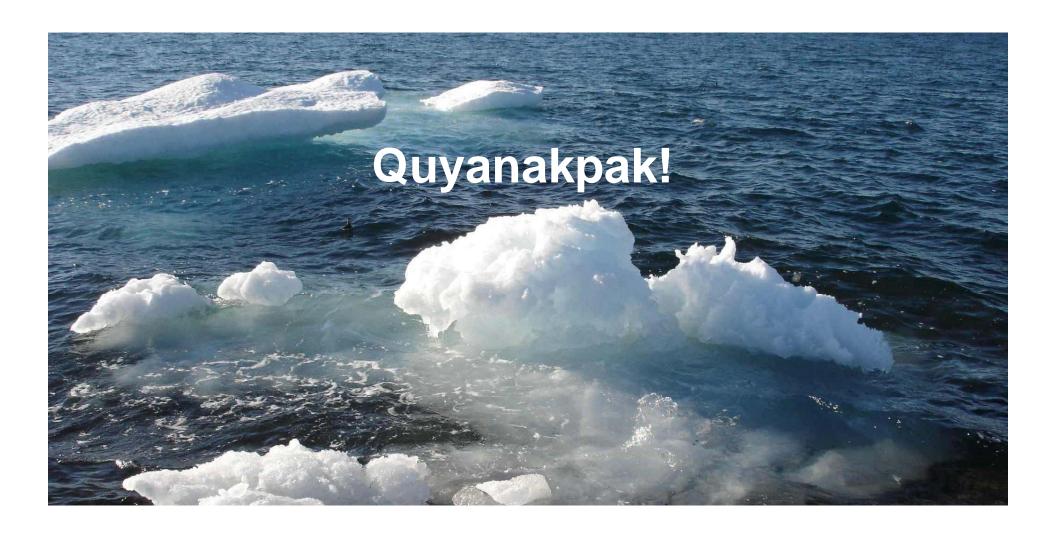








ION GEOPHYSICAL





2011 Meeting Materials -Copy of a Typical Presentation Given at Meetings

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2011 BeaufortSPAN West

Ed Nelson
ION GEOPHYSICAL



Introduction



- Thank you for allowing ION to present our scope of operations for the 2011 BeaufortSPAN™ West Program.
- The ION Geophysical Team
 - Ed Nelson ION Project Manager
 - Megan Blees LGL Research
 - Maggie Ahmaogak ASRC Energy Services
 - Meghan Larson ASRC Energy Services

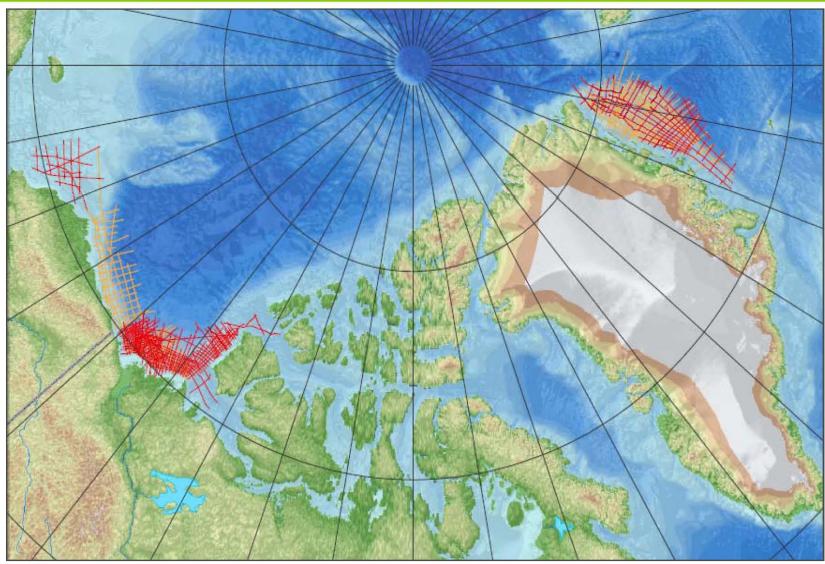


Who is ION Geophysical Corporation

- ION Geophysical Corporation is a leading provider of geophysical technology services globally and is the parent company for GX Technology Corporation.
- ION is Arctic focused
 - Acquired seismic survey data in the Chukchi Sea in 2006
 - Acquired seismic survey data in Canadian Beaufort Sea in 2006, 2007, 2008 & 2010 and Northeast Greenland in 2009 & 2010.
 - Planned marine seismic survey in the U.S. Beaufort Sea in 2011 (BeaufortSPAN™ West Program) – was originally scheduled for 2010, but postponed to 2011.



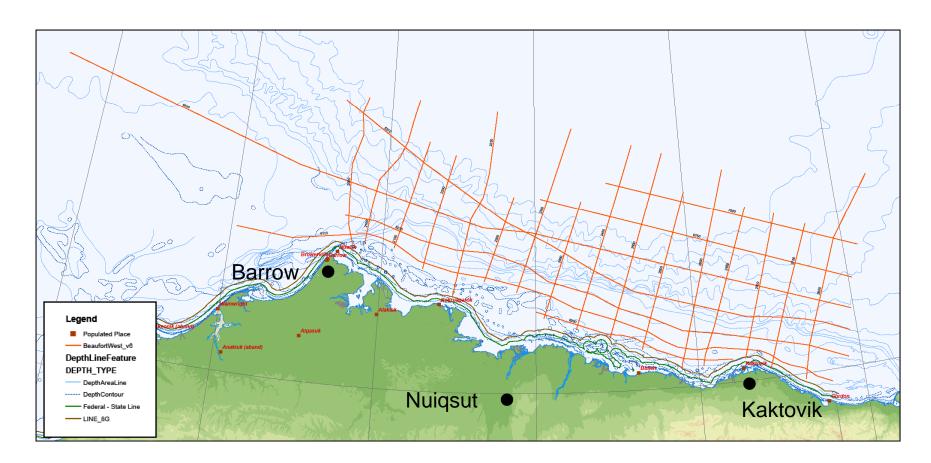
ION is Arctic Focused





Location

- Beaufort Sea OCS (Federal Waters)
- 4,500 mi of transect line; 7.5 to 155 miles offshore





BeaufortSPAN West Project Description

- 2D Seismic Survey planned for October 1 to mid-December, 2011
- Towed seismic array and hydrophone streamer from source vessel (BOS Atlantic)
- Ice breaker Polar Prince will break and clear ice ~0.5 1 km (1,640 – 3,300 ft) in advance of the BOS Atlantic
- Water depth ranges from 20 m to 3,500 m (65 ft to 11,500 ft) deep
- Two sound sources
 - Airgun array 4330 in³ array; 28 airguns ranging from 65 in³ to 350 in³
 - Echo sounder (measure water depth)



Survey Operations



Ice Escort Operations





Survey Operations



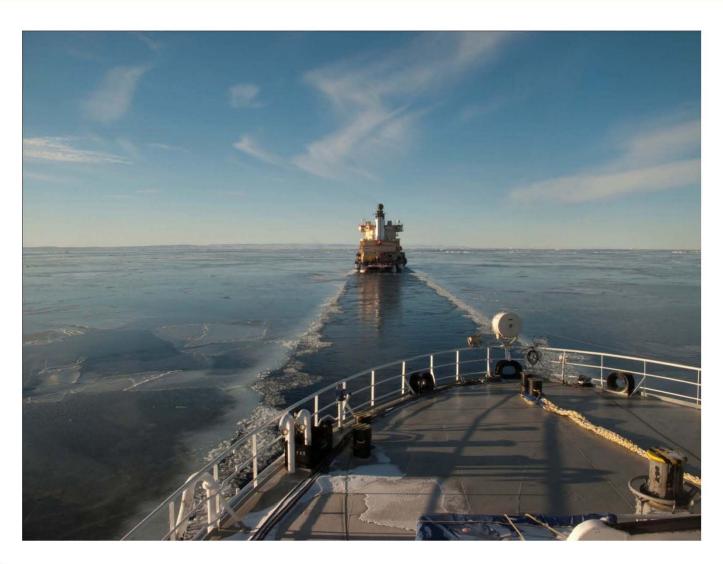






Ice Conditions Expected







Ice Conditions Expected







9/10^{ths} Ice 10/10^{ths} Ice



2011 Survey Vessels

- Suitable Vessels
 - Boss Atlantic Seismic Vessel
 - DNV 1A1 ICE-1A

- Polar Prince Ice Breaker
 - Lloyds Class 100A Medium Duty Ice Breaker (Arctic Class 1+)





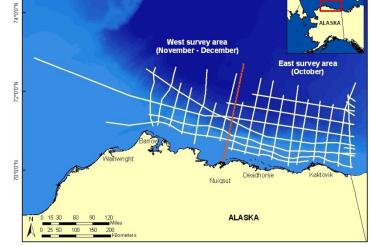


Proposed Marine Mammal Mitigation

- Start 1 October and end mid-December
 - Timing of and location of activities will avoid most marine mammals and subsistence activities
 - Avoid impacts by completing work before ice is thick enough to support large numbers of seals and polar bears on the ice
- Work from east (Canadian/US border) to west (Barrow)
- ION will not work in an area until the whale hunt has been

completed.

- Will not work in eastern Beaufort until Kaktovik & Nuiqsut bowhead whale hunts are completed (approx. October 1)
- Will not work in western Beaufort until Barrow whale hunts are completed (approx. November 1)





Proposed Marine Mammal Mitigation

- Sound source verification on sound sources and radii established
- Area around source vessel and will be monitored by MMOs for 30 minutes prior to airgun start
- Ramp-up procedures will be used
- Power down and shut down procedures for marine mammals within radii will be followed







Proposed Marine Mammal Monitoring

Vessel based Marine Mammal Observers

Big-eye binoculars on both vessels for use during daylight

Use of large spotlights for monitoring at night when necessary

Forward looking infrared (FLIR) camera on ice – breaker for

use during darkness





2010 Stakeholder Outreach

+

- Met with the NSB Wildlife Department
- Presented project to NSB Planning Commission
- Attended AEWC 2010 Annual Captains' Mini Convention
- Presented project at the 2010 NMFS Open Water Meeting
- Met with Barrow, Nuiqsut, and Kaktovik leadership
- Held public meetings in Barrow, Nuiqsut, and Kaktovik
- Attended AEWC 2010 4th Quarter Meeting



2011 Stakeholder Outreach

- +
- Attended AEWC 2011 Annual Captains' Mini Convention (Feb 18th)
- Held public meetings in Barrow (Feb 19th) and Nuiqsut (Feb 21st)
- Presented project to the NSB Planning Commission (Feb 24)
- Public meeting scheduled for Kaktovik (Feb 22nd) was canceled due to weather – rescheduled for April 18th
- Additional meetings in Barrow and Nuiqsut on April 19th & 20th
- ION will present an update to communities in August 2011



Communication



- Ion will have a system to respond to community questions and concerns during the project's operational window.
- ION is developing a system to respond to emergencies during its operational window.





[CHARGED WITH INNOVATION]



vision



evolution



innovation



solution



collaboration

ION GEOPHYSICAL





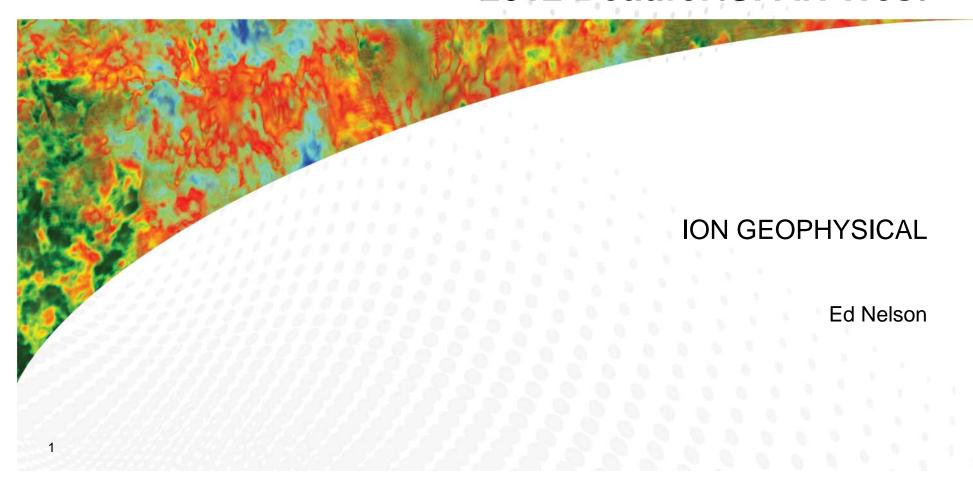
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2012 Meeting Materials -Copy of a Typical Presentation Given at Meetings

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2012 BeaufortSPAN West



Introduction

- Thank you for attending the community meeting. We are presenting ION's scope of operations for the 2012 BeaufortSPAN™ West Program.
- The ION Geophysical Team
 - Ed Nelson ION Project Manager
 - Meghan Larson ASRC Energy Services
 - Inuuteq Stotts ASRC Energy Services
 - Heather Reider LGL Alaska Research Associates, Inc.



Who is ION Geophysical Corporation?

ION is a leading technology-focused seismic solutions company.
 Our family of companies provides advanced acquisition equipment, software and planning, and seismic processing services to the global oil and gas industry.

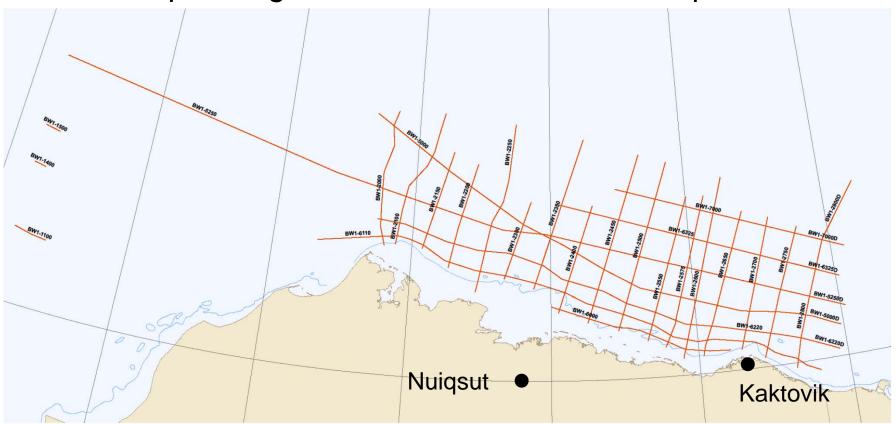
ION is Arctic focused

- Acquired seismic survey data in the Chukchi Sea in 2006
- Acquired seismic survey data in Canadian Beaufort Sea in 2006, 2007, 2008, 2009 & 2010 and Northeast Greenland in 2009, 2010, & 2011.
- Acquired seismic survey in Russian Arctic 2011
- Planned marine seismic survey in the U.S. Beaufort Sea in 2012 (BeaufortSPAN™ West Program) – was originally scheduled for 2010 and 2011, but postponed to 2012.



Location

- Beaufort Sea OCS (Federal Waters)
- 4,500 mi of transect line; 7.5 to 155 miles offshore
- Water depth ranges from 65 ft to 11,500 ft deep





BeaufortSPAN West Project Description

- 2D Seismic Survey planned for October 1 to mid-December, 2012
- Icebreaker Vladimir Ignatyuk or similar will break ice
- Seismic vessel Artemis Atlantic (formerly BOS Atlantic) or similar will follow icebreaker and acquire seismic data
- Two active sources
 - Airgun array 4450in³ array; 26 airguns ranging from 70in³ to 380in³
 - Echo sounder (measure water depth)
- Icebreaker Polar Prince will provide support services



Proposed Marine Mammal Mitigation

- Technology choice allows for timing of acquisition to avoid potential conflicts with marine mammals and subsistence hunters
- Start 1 October and end mid-December
 - Timing and location of activities will avoid most marine mammals and subsistence activities
 - Reduce impacts by completing work before ice is thick enough to support large numbers of seals and polar bears on the ice
- Work from east (Canadian/US border) to west (Barrow)
 - Kaktovik & Nuiqsut bowhead whale hunts are typically concluded by October 1st
 - Avoid October bowhead hunt in Barrow by beginning in eastern project areas
- ION intends not to work in an area until the whale hunt has been completed.

Proposed Marine Mammal Mitigation

- Sound source verification on airgun array to confirm or adjust safety radii
- Area around source vessel will be monitored by MMOs for 30 minutes prior to airgun start
- Ramp-up procedures will be used
- Power down and shut down procedures for marine mammals within safety radii will be followed



Proposed Marine Mammal Monitoring

- Vessel based Marine Mammal Observers
- Big-eye binoculars on both source and support vessels for use during daylight
- Use of large spotlights for monitoring at night when necessary
- Forward looking infrared (FLIR) camera on ice –
 breaker for testing and evaluation during darkness



Stakeholder Outreach

2010 Stakeholder Outreach

- Met with the NSB Wildlife Department
- Presented project to NSB Planning Commission
- Attended AEWC 2010 Annual Captains Mini Convention
- Presented project at the 2010 NMFS Open Water Meeting
- Met with Barrow, Nuiqsut, and Kaktovik leadership
- Held public meetings in Barrow, Nuiqsut, and Kaktovik

2011 Stakeholder Outreach

- Attended AEWC 2010 4th Quarter Meeting (Dec 8 & 9)
- Attended AEWC 2011 Annual Captains Mini Convention (Feb 18)
- Held public meetings in Barrow, Nuiqsut, and Kaktovik (Feb & March)
- Presented project to the NSB Planning Commission (Feb 24)
- Notified AEWC that project was postponed at AEWC quarterly meeting
- Held meetings in Aug 2011 notifying communities project was postponed



Stakeholder Outreach

- 2012 Planned Stakeholder
 - Met with AEWC Commissioners on December 12th to discuss planned 2012 CAA
 - Hold public meetings in Barrow, Nuiqsut, and Kaktovik January 23rd through 25th
 - Meet with Barrow Whaling Captains Association on January 25th
 - Meet with Wainwright Whaling Captains Association on January 26th
 - Attend 2012 AEWC CAA Meeting February 16th and 17th
 - Present project at the 2012 NMFS Open Water Meeting
 - Provide a status report on project to Barrow, Nuiqsut, and Kaktovik in August 2012



Communication

- ION will have a system to respond to community questions and concerns during the project's operational window.
- ION is developing an ERP to respond to emergencies during its operational window.



Seismic and Support Vessels





ION GEOPHYSICAL







 \rightarrow Charged to innovate. Driven to solve.

Appendix D
Comments and Responses to the
Draft Plans of Cooperation

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Comments

(no comments received for 2010 or 2012 Draft Plans of Cooperation)

 ION Geophysical
 July 2012

 15378-03 12-030A
 Rev. 2

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Larson, Meghan

From: Eugene Brower [eugenebrower@gci.net] Sent: Saturday, May 14, 2011 8:14 AM

To: Turner, Michelle; andy.mack@north-slope.org; edward.itta@north-slope.org;

> tagulik.hepa@north-slope.org; robert.suydam@north-slope.org; ksopi@astacalaska.net; Thomas Olemaun; jsage@nvbarrow.net; harry.brower@north-slope.org; aewcdir1@gci.net;

cityofnuigsut@gmail.com; native.village@astacalaska.net; inukapigak@kuukpik.com;

NVKaktovik@starband.net; fenton rexford; annietikluk@hotmail.com Cc: Ahmaogak, Maggie; Larson, Meghan; Ed Nelson; craig perham@fws.gov;

jana.lage@boemre.gov

Subject: Re: ION Draft POC

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harry.brower@north-slope.org; aewcdir1@gci.net; cityofnuiqsut@gmail.com; native.village@astacalaska.net;

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Cc: Ahmaogak, Maggie; Larson, Meghan; Ed Nelson; craig_perham@fws.gov; jana.lage@boemre.gov

Sent: Friday, May 13, 2011 3:50 PM

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Please send any comments, suggestions, or questions to Michelle Turner at Michelle.Turner@asrcenergy.com or Meghan Larson at Meghan.Larson@asrcenergy.com as a You may also mail any feedback you have to ASRC Energy Services – RTS, 2700 Gambell St. Ste. 200, Anchorage, Alaska 99503.

We ask that all feedback be received by May 30, 2011 so that we may include it in the Final Plan of Cooperation.

Thank you, Michelle Turner

Michelle Turner

Associate Scientist | RTS ASRC Energy Services, Inc. 2700 Gambell St, Suite 200 Anchorage, AK 99503

Desk: 907-339-5460 | Cell: 907-351-6342



Turner, Michelle

From: Isaac Nukapigak [inukapigak@kuukpik.com]

Sent: Monday, May 16, 2011 8:27 AM

To: Turner, Michelle Subject: Re: ION Draft POC

kuukpik will support the whaling captain assc. of each community the POC isn't acceptable and there fore no plan of cooperation will take plan in Nuiqsut until ION comes in a agreement with the terms of the CAA with AEWC and other whaling community.

-----Original Message-----

From: Turner, Michelle *Date:* 5/13/2011 3:51:16 PM

To: andy.mack@north-slope.org; edward.itta@north-slope.org; taqulik.hepa@north-slope.org; robert.suydam@north-

slope.org; ksopi@astacalaska.net; Thomas Olemaun; jsage@nvbarrow.net; eugenebrower@gci.net;

harry.brower@north-slope.org; aewcdir1@gci.net; cityofnuiqsut@gmail.com; native.village@astacalaska.net;

<u>inukapigak@kuukpik.com</u>; <u>NVKaktovik@starband.net</u>; <u>fenton rexford</u>; <u>annietikluk@hotmail.com</u> *Cc:* <u>Ahmaogak, Maggie</u>; <u>Larson, Meghan</u>; <u>Ed Nelson</u>; <u>craig_perham@fws.gov</u>; <u>jana.lage@boemre.gov</u>

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Thank you, Michelle Turner

Michelle Turner

Associate Scientist | RTS ASRC Energy Services, Inc. 2700 Gambell St, Suite 200 Anchorage, AK 99503

Desk: 907-339-5460 | Cell: 907-351-6342



Responses

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Larson, Meghan

From: Ed Nelson [Edward.Nelson@iongeo.com]

Sent: Monday, May 16, 2011 10:12 AM

To: Eugene Brower; Turner, Michelle; andy.mack@north-slope.org; edward.itta@north-slope.org;

taqulik.hepa@north-slope.org; robert.suydam@north-slope.org; ksopi@astacalaska.net; Thomas Olemaun; jsage@nvbarrow.net; harry.brower@north-slope.org; aewcdir1@gci.net; citvofnuigsut@gmail.com: native.village@astacalaska.net: inukapigak@kuukpik.com:

NVKaktovik@starband.net; fenton rexford; annietikluk@hotmail.com

Cc: Ahmaogak, Maggie; Larson, Meghan; craig_perham@fws.gov; jana.lage@boemre.gov; Joe

Gagliardi

Subject: RE: ION Draft POC

May 16, 2011

Dear Mr. Brower:

Thank you for your comment.

ION understands and appreciates BWCA's and AEWC's concerns regarding potential impacts on whaling activities. Avoiding conflict between our survey program and any subsistence activities is extremely important to us. ION has committed to conduct our operations in such a manner as to avoid any potential conflict. ION will not begin our seismic operations in the eastern US Beaufort until early October. As Kaktovik and Nuiqsut have usually completed their fall whaling activities by this time, there should not be any conflict with these communities. Accordingly, ION's survey activities in the western Beaufort Sea will not begin until late October or early November. Historically, the Barrow community has completed their fall whaling activities by this time, and again we do not anticipate any conflict with the whalers.

In all cases, ION has committed to providing the communications center while our operations are ongoing, and will remain in close contact with the whalers during the project to ensure that any potential concerns are addressed.

ION does not consider the Draft POC to be a substitute for a CAA. The Draft POC was distributed for comment as required by federal law, specifically, 50 CFR 216.104(a)(12) and 50 CFR 18.124.

ION has considered the DRAFT CAA from the AEWC and appreciates the changes that were made to the initial draft. However, based upon the fact that ION's activities occur after the completion of fall whaling, ION believes that there is no possibility for conflict to occur. Therefore, ION is not prepared to sign the 2011 DRAFT CAA at this time. We look forward to further discussions with AEWC.

If you have any questions, please do not hesitate to contact me at 832-344-6852 or <u>Edward.Nelson@iongeo.com</u> or Joe Gagliardi at <u>Joe.Gagliardi@iongeo.com</u>.

Ed Nelson Integrated Seismic Solutions



2105 CityWest Blvd., Suite 900 Houston, Texas 77042 Main: 713-789-7250 Mobile: 832-344-6852 Fax: 713-789-7201 www.iongeo.com

From: Eugene Brower [mailto:eugenebrower@gci.net]

Sent: Saturday, May 14, 2011 11:14 AM

To: Turner, Michelle; andy.mack@north-slope.org; edward.itta@north-slope.org; taqulik.hepa@north-slope.org; robert.suydam@north-slope.org; ksopi@astacalaska.net; Thomas Olemaun; jsage@nvbarrow.net; harry.brower@north-slope.org; aewcdir1@gci.net; cityofnuiqsut@gmail.com; native.village@astacalaska.net; inukapigak@kuukpik.com; NVKaktovik@starband.net; fenton rexford; annietikluk@hotmail.com

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Appendix E Final Signed 2012 Conflict Avoidance Agreement

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2012 OPEN WATER SEASON PROGRAMMATIC CONFLICT AVOIDANCE AGREEMENT

BETWEEN

BP EXPLORATION (ALASKA), INC.
ENI US OPERATING COMPANY, INC.
EXXON MOBIL CORPORATION
GX TECHNOLOGY CORPORATION
PIONEER NATURAL RESOURCES ALASKA, INC.
SHELL OFFSHORE, INC

AND

THE ALASKA ESKIMO WHALING COMMISSION
THE BARROW WHALING CAPTAINS' ASSOCIATION
THE GAMBELL WHALING CAPTAINS' ASSOCIATION
THE KAKTOVIK WHALING CAPTAINS' ASSOCIATION
THE KIVALINA WHALING CAPTAINS' ASSOCIATION
THE LITTLE DIOMEDE WHALING CAPTAINS'
ASSOCIATION

THE NUIQSUT WHALING CAPTAINS' ASSOCIATION
THE PT. HOPE WHALING CAPTAINS' ASSOCIATION
THE PT. LAY WHALING CAPTAINS' ASSOCIATION
THE SAVOONGA WHALING CAPTAINS' ASSOCIATION
THE WAINWRIGHT WHALING CAPTAINS' ASSOCIATION
THE WALES WHALING CAPTAINS' ASSOCIATION

FINAL FOR SIGNATURE MARCH 1, 2012

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TITLE I – GENERAL PROVISIONS

SECTION 101. APPLICATION.

Title I applies to all Participants, except as provided in Title VI.

Title II applies to all Participants, except as provided in Titles III or VI.

Title III applies to those Participants who operate barge or transit vessels in the Beaufort Sea or Chukchi Sea.

Titles IV and V apply only to those Participants who engage in oil and gas operations.

Title VI applies to those Participants who engage exclusively in geophysical activities that are conducted at least 5 miles or more from the Alaska coast in the Beaufort Sea or Chukchi Sea and begin on or after October 1, 2012.

Provisions that apply to a specific activity or are designated as specific to either the Beaufort Sea or Chukchi Sea apply only to Participants that engage in that activity or operate in that area, and provisions applicable to activities a Participant does not engage in or areas in which a Participant does not operate do not apply to that Participant.

SECTION 102. PURPOSE.

The purpose of this Agreement is to provide:

- (1) Equipment and procedures for communications between Subsistence Participants and Industry Participants;
- (2) Avoidance guidelines and other mitigation measures to be followed by the Industry Participants working in or transiting the vicinity of active subsistence hunters, in areas where subsistence hunters anticipate hunting, or in areas that are in sufficient proximity to areas expected to be used for subsistence hunting that the planned activities could potentially adversely affect the subsistence bowhead whale hunt through effects on bowhead whales;
- (3) Measures to be taken in the event of an emergency occurring during the term of this Agreement; and
- (4) Dispute resolution procedures.

SECTION 103. DEFINITIONS.

(a) Defined Terms.

For the purposes of this Agreement:

- (1) The term "Agreement" means this 2012 Open Water Season Programmatic Conflict Avoidance Agreement and any attachments to such agreement.
- (2) The term "at-sea oil and gas operations" does not include gravel islands or fixed platform developments located near shore (for example Northstar or Oooguruk) or Near Shore Operations Support Vessels.
- (3) The term "barge" means a non-powered vessel that is pushed or towed, and the accompanying pushing or towing vessel, which is used solely to transport materials through the Beaufort Sea or Chukchi Sea. Such term does not include any vessel used to provide supplies or support to at-sea oil and gas operations or Near Shore Operations Support Vessels.
- (4) The term "Com-Center" means a communications systems coordination center established under Section 203.
- (5) The term "geophysical activity" means any activity the purpose of which is to gather data for imaging the marine subsurface environment, including but not limited to use of air guns, sonar, and other geophysical equipment used for seismic exploration or shallow hazard identification. "Geophysical activity" does not include support vessels that are not actively employing geophysical equipment, or other supporting activities that do not generate sound waves for the purposes of imaging the subsurface marine environment.
- (6) The term "geophysical equipment" means equipment, such as air gun arrays over 300 cubic inches or sparker arrays over 20,000 kJ, employed on a vessel or a towed array, that generates sound waves for the purpose of imaging the subsurface marine environment for exploration and development purposes. The term does not include vessel engines, generators, or sources such as fathometers, fish finders, side-scan sonar, or other sources intended for engineering and /or transportation purposes.
- (7) The term "Industry Participants" means all parties to this Agreement who are not Subsistence Participants.

- (8) The term "Marine Mammal Observer / Inupiat Communicator" or "MMO/IC" means an observer hired by an Industry Participant for the purpose of spotting and identifying marine mammals in the area of that Industry Participant's operations during the Open Water Season. The MMO/IC also serves as the onboard Inupiat communicator who can communicate directly with whaling crews.
- (9) The term "Near Shore Operations Support Vessels" means vessels (including aircraft) used to support related activities (such as supply, re-supply, crew movement, and facility maintenance) for near shore oil and gas operations by an Industry Participant.
- (10) The terms "NSB" and "NSB DWM" mean the North Slope Borough and the North Slope Borough Department of Wildlife Management, respectively.
- (11) The term "oil and gas operations" means all oil and gas exploration, development, or production activities (including, but not limited to, geophysical activity, exploratory drilling, development activities (such as dredging or construction), production drilling, or production, and related activities (such as supply, re-supply, crew movements, and facility maintenance) by or for any Industry Participant, including aircraft and vessels of whatever kind used in support of such activities, occurring in the Beaufort Sea or Chukchi Sea, whether occurring near shore or offshore, but does not include barge traffic, transit vessel traffic, cable laying vessel traffic, or research vessel traffic (i.e. traffic by a vessel which is only conducting research and is not conducting any geophysical activities) by or for any Participant.
- (12) The term "Open Water Season" means the period of the year when ice conditions permit navigation or oil and gas operations to occur in the Beaufort Sea or Chukchi Sea, as appropriate.
- (13) The term "Participants" means all parties identified in this Agreement by name and whose representative(s) has signed the Agreement, and all contractors of such parties. When used alone the term includes both Industry Participants and Subsistence Participants.
- (14) The term "Primary Sound Source Vessel" means a vessel owned or operated by or for an Industry Participant that (A) employs air gun arrays greater than 300 cubic inches or sparkers greater that 20,000 kJ, for imaging the subsurface environment, (B) is used to monitor any safety zone around a vessel described in subsection (A), (C) is engaged in ice-breaking, or (D) is the lead vessel in a group of barge or transit vessels.

- (15) The term "sonar" means equipment, employed as hull mounted or towed array, intended for the active location of surface or underwater vessels. The term does not include vessel engines, generators, or sources such as fathometers, fish finders, side-scan sonar, or other sources intended for engineering, cable laying or routing, and/or transportation purposes.
- (16) The term "Subsistence Participants" means the Alaska Eskimo Whaling Commission (AEWC) and its members, including the whaling captains' associations identified on the cover of this Agreement, as well as any individual members of those associations.
- (17) The term "transit vessel" means a powered vessel that is used solely to transport materials through the Beaufort Sea or Chukchi Sea. Such term does not include a vessel used to provide supplies or other support to at-sea oil and gas operations or Near Shore Operations Support Vessels.

(b) Geographically Limited Terms.

For the purposes of this Agreement:

- (1) The term "Beaufort Sea" means all waters off the northern coast of Alaska from Point Barrow to the Canadian border.
- (2) The term "Chukchi Sea" means all waters off the western and northern coasts of Alaska from Cape Prince of Wales to Point Barrow.

SECTION 104. TERM, SCOPE, AND LIMITATIONS.

(a) Term.

The term of this Agreement shall commence with the signing of this document by the Participants and shall terminate upon completion of the Nuiqsut, Kaktovik, Barrow, Wainwright, Pt Lay, and Pt. Hope Fall Bowhead Hunts or the Beaufort Sea Post Season Meeting required under Section 108(a) and Chukchi Sea Post-Season Meetings in Barrow, Wainwright, Pt. Lay, and Pt. Hope required under Section 108(b), whichever is later.

(b) Scope.

The Participants agree that, unless otherwise specified:

- (1) The mitigation measures identified in this Agreement, which are intended to mitigate interference by oil and gas operations and barge and transit vessel traffic with the Alaskan Eskimo subsistence bowhead whale hunt, are designed to apply to all activities of each Participant during the 2012 Open Water Season, whether referenced specifically or by category, and to all vessels and locations covered by this Agreement, whether referenced specifically or by category.
- (2) This Agreement is intended to apply to all oil and gas operations and barge and transit vessel traffic during the 2012 Open Water Season in the Beaufort Sea or Chukchi Sea.
- (3) Vessels and locations covered by this Agreement include those identified in the Agreement, as well as any other vessels or locations that are employed by or for the Industry Participants in the Beaufort Sea or Chukchi Sea during the 2012 Open Water Season.

(c) Limitations of Obligations.

The following limitations apply to this Agreement.

- (1) No cooperation among the Participants, other than that required by this Agreement, is intended or otherwise implied by their adherence to this Agreement. In no event shall the signatures of any representative of the Alaska Eskimo Whaling Commission (AEWC), or of the Barrow, Nuiqsut, Kaktovik, Wainwright, Pt. Hope, or Pt. Lay Whaling Captains' Associations, or of any other Whaling Captains' Association be taken as an endorsement of any Arctic operations or Beaufort Sea or Chukchi Sea OCS operations by any oil and/or gas operator or contractor.
- (2) Adherence to the procedures and guidelines set forth in this Agreement does not in any way indicate that any Inupiat or Siberian Yupik whalers or the AEWC agree that industrial activities are not interfering with the bowhead whale migration or the bowhead whale subsistence hunt. Such adherence does not represent an admission on the part of the Industry Participants or their contractors that the activities covered by this Agreement will interfere with the bowhead whale migration or the bowhead whale subsistence hunt.

- (3) No member of the oil and gas industry or any contractor has the authority to impose restrictions on the subsistence hunting of bowhead whales or associated activities of the AEWC, residents of the Villages of Nuiqsut, Kaktovik, Barrow, Wainwright, Pt. Lay, or Pt. Hope, or residents of any other village represented by the AEWC.
- (4) In the event additional parties engage in oil and gas operations in the Beaufort Sea or Chukchi Sea during the summer or fall of 2012 the Participants shall exercise their good-faith efforts to encourage those parties to enter into this Agreement. Should additional parties enter into this Agreement at a date subsequent to the date of the signing of this document and before the termination of the 2012 bowhead whale subsistence hunting season, the AEWC will provide to all Participants a supplement to this document with the added signatures.
- (5) No Participant is responsible for enlisting additional parties to adhere to the terms and conditions of the Agreement. Similarly, **THE AEWC IS NOT RESPONSIBLE FOR, OR A PARTY TO, ANY AGREEMENT AMONG THE INDUSTRY PARTICIPANTS** concerning the apportionment of expenses necessary for the implementation of this Agreement.
- (6) In adhering to this Agreement, none of the Participants waives any rights existing at law. All Participants agree that the provisions of this document do not establish any precedent as between them or with any regulatory or permitting authority.
- (7) PARTICIPANTS' OBLIGATIONS SHALL BE SEPARABLE: All Participants to this Agreement understand that each Participant represents a separate entity. The failure of any Participant to adhere to this Agreement or to abide by the terms and conditions of this Agreement shall not affect the obligation of other Participants to adhere to this Agreement and to proceed accordingly with all activities covered by this Agreement. Nor shall any Participant's adherence to this Agreement affect that Participant's duties, liabilities, or other obligations with respect to any other Participant beyond those stated in this Agreement. If an Industry Participant does not receive permit approvals from regulatory agencies to conduct its proposed activities, then that company may withdraw from this Agreement.

SECTION 105. REGULATORY COMPLIANCE.

(a) United States Coast Guard Requirements.

The Participants shall comply with all applicable United States Coast Guard requirements for safety, navigation, and notice.

(b) Environmental Regulations and Statutes.

The Participants shall comply with all applicable environmental regulations and statutes.

(c) Other Regulatory Requirements.

The Participants shall comply with all applicable federal, state, and local government requirements.

SECTION 106. DISPUTE RESOLUTION.

Subject to the terms of Section 104(c)(7) of this Agreement, all disputes arising between any Industry Participants and any Subsistence Participants shall be addressed as follows:

- (1) The dispute shall first be addressed between the affected Participant(s) in consultation with the affected village Whaling Captains' Association and the Industry Participant(s)' Local Representative.
- (2) If the dispute cannot be resolved to the satisfaction of all affected Participants, then the dispute shall be addressed with the affected Participants in consultation with the AEWC.
- (3) If the dispute cannot be satisfactorily resolved in accordance with paragraphs (1) and (2) above, then the dispute shall be addressed with the AEWC and the affected Participants in consultation with representatives of NOAA Fisheries.
- (4) All Participants shall seek to resolve any disputes in a timely manner, and shall work to ensure that requests for information or decisions are responded to promptly.

SECTON 107. EMERGENCY AND OTHER NECESSARY ASSISTANCE.

(a) Emergency Communications.

ALL VESSELS SHOULD NOTIFY THE APPROPRIATE COM-CENTER IMMEDIATELY IN THE EVENT OF AN EMERGENCY. The appropriate Com-Center operator will notify the nearest vessels and appropriate search and rescue authorities of the problem and advise them regarding necessary assistance. (See attached listing of local search and rescue organizations in Attachment I.)

(b) Emergency Assistance for Subsistence Whale Hunters.

Section 403 of Public Law 107-372 (16 U.S.C. 916c note) provides that "Notwithstanding any provision of law, the use of a vessel to tow a whale, taken in a traditional subsistence whale hunt permitted by Federal law and conducted in waters off the coast of Alaska is authorized, if such towing is performed upon a request for emergency assistance made by a subsistence whale hunting organization formally recognized by an agency of the United States government, or made by a member of such an organization, to prevent the loss of a whale." Industry Participants will advise their vessel captains that, under the circumstances described above, assistance to tow a whale is permitted under law when requested by a Subsistence Participant. Under the circumstances described above, Industry Participants will provide such assistance upon a request for emergency assistance from a Subsistence Participant, if conditions permit the Industry Participant's vessel to safely do so.

SECTION 108. POST-SEASON REVIEW / PRESEASON INTRODUCTION.

(a) Beaufort Sea Post-Season Joint Meeting.

Following the end of the fall 2012 bowhead whale subsistence hunt and prior to the 2013 Pre-Season Introduction Meetings, the Industry Participant that establishes the Deadhorse and Kaktovik Com Centers will offer to the AEWC Chairman to host a joint meeting with all whaling captains of the Villages of Nuiqsut, Kaktovik and Barrow, the Marine Mammal Observer / Inupiat Communicators stationed on the Industry Participants' vessels in the Beaufort Sea, and with the Chairman and Executive Director of the AEWC, at a mutually agreed upon time and place on the North Slope of Alaska, to review the results of the 2012 Beaufort Sea Open Water Season, unless it is agreed by all designated individuals or their representatives that such a meeting is not necessary.

(b) Chukchi Sea Post-Season Village Meetings.

Following the completion of the 2012 Chukchi Sea Open Water Season and prior to the 2013 Pre-Season Introduction Meetings, the Industry Participants involved, if requested by the AEWC or the Whaling Captain's Association of each village, will host a meeting in each of the following villages: Wainwright, Pt. Lay, Pt. Hope, Kivalina, Little Diomede, Wales, Savoonga, and Barrow (or a joint meeting of the whaling captains from all of these villages if the whaling captains agree to a joint meeting) to review the results of the 2012 operations and to discuss any concerns residents of those villages might have regarding the operations. The meetings will include the Marine Mammal Observer / Inupiat Communicators stationed on the Industry Participants' vessels in the Chukchi Sea. The Chairman and Executive Director of the AEWC will be invited to attend the meeting(s).

(c) Pre-season Introduction Meetings.

- (1) Immediately following each of the above meetings, and at the same location, the Industry Participants will provide a brief introduction to their planned operations for the 2012 Open Water Season. Each Industry Participant should provide hand-outs explaining their planned activities that the whaling captains can review.
- (2) Subsistence Participants understand that any planned operations discussed at these Pre-Season Introduction Meetings, and the corresponding maps, will represent the Industry Participant's best estimate at that time of its planned operations for the coming year, but that these planned operations are preliminary, and are subject to change prior to the 2012 Open Water Season Meeting.

(d) Map of Planned Industry Participant Activities.

As practicable, Industry Participants shall jointly prepare and provide the AEWC with a large-scale map of the Beaufort and Chukchi Seas showing the locations and types of oil and gas and barge and transit activities planned by each Industry Participant. This map will be for use by the AEWC and Industry Participants during the 2012 CAA Meeting.

SECTON 109. INDIVIDUAL NOTIFICATION.

In the event that any Industry Participant does not become a signatory to this Agreement, the local Whaling Captains' Associations shall be notified by the AEWC, no later than March 31, 2012, so that the local Whaling Captains' Associations can prepare to talk with the non-signatories to avoid conflict during that association's fall subsistence bowhead whaling season.

TITLE II -- OPEN WATER SEASON COMMUNICATIONS

SECTION 201. MARINE MAMMAL OBSERVERS / INUPIAT COMMUNICATORS.

- (a) Marine Mammal Observer / Inupiat Communicator Required.
 - (1) In General. Each Industry Participant agrees to employ a Marine Mammal Observer / Inupiat Communicator (MMO/IC) on board each Primary Sound Source Vessel owned or operated by such Industry Participant in the Beaufort Sea or Chukchi Sea. Native residents of the eleven villages represented by the Alaska Eskimo Whaling Commission shall be given preference in hiring for MMO/IC positions.
 - (2) <u>Special Rule for Inside Beaufort Sea Barrier Islands</u>. Industry Participants whose seismic acquisition operations are limited to an area exclusively within the barrier islands need employ an MMO/IC on one Primary Sound Source Vessel only.
 - (3) <u>Near Shore Operations Support Vessels</u>. Industry Participants are not required to employ an MMO/IC on Near Shore Operations Support Vessels.
 - (4) <u>Sealift Operations</u>. For Industry Participants conducting sealift operations in which two tugs towing barges are accompanied within ½ mile by a third light tug at all times, a MMO/IC is required to be employed on the light tug only.

(b) Duties of Marine Mammal Observer / Inupiat Communicator.

(1) Each MMO/IC is to be employed as an observer and Inupiat communicator for the duration of the 2012 Open Water Season on the vessel on which he or she is stationed.

- (2) As a member of the crew, the MMO/IC will be subject to the regular code of employee conduct on board the vessel and will be subject to discipline, termination, suspension, layoff, or firing under the same conditions as other employees of the vessel operator or appropriate contractor.
- (3) Once the source vessel on which the MMO/IC is employed is in the vicinity of a whaling area and the whalers have launched their boats, the MMO/IC's primary duty will be to carry out the communications responsibilities set out in this Title.
- (4) At all other times, the MMO/IC will be responsible for keeping a lookout for bowhead whales and/or other marine mammals in the vicinity of the vessel to assist the vessel captain in avoiding harm to the whales and other marine mammals.
- (5) It is the MMO/IC's responsibility to call the appropriate Com-Center as set out in Sections 202 and 203.
- (6) The MMO/IC will be responsible for all radio contacts between vessels owned or operated by each of the Industry Participants and whaling boats covered under Section 207 of this Agreement and shall interpret communications as needed to allow the vessel operator to take such action as may be necessary pursuant to this Agreement.
- (7) The MMO/IC shall contact directly subsistence whaling boats that may be in the vicinity to ensure that conflicts are avoided to the greatest possible extent.
- (8) The MMO/IC will maintain a record of his or her communications with each Com-Center and the subsistence whaling boats, as well as any marine mammal sightings by the MMO/IC.

SECTION 202. COM-CENTER GENERAL COMMUNICATIONS SCHEME.

- (a) Reporting Positions for Vessels Owned or Operated by the Industry Participants.
 - (1) All vessels (other than vessels covered under sections 302 and 602) shall report to the appropriate Com-Center at least once every six hours commencing with a call at approximately 06:00 hours. Each call shall report the following information:
 - (A) Vessel name, operator of vessel, charter or owner of vessel, and the project the vessel is working on.

		(B)	Vessel location, sp	eed, and dir	ection.		
		time of	Plans for vessel mo f the next call. The ssel's general area a at that time.	final call of	the day shall	include a	statement of
		,	PLE: This is the Arc at Chukchi Sea _ west, proceeding e for hours and	prospect. \ SE at	We are curre knots. We v	ntly at' vill proceed	north on this
	deviat	ge in pla tions fro ch chan	opropriate Com-Cer ans, such as an una om announced cour ges. A call to the a r unanticipated ice o	nnounced st se, and such ppropriate C	art-up of ope Com-Cente	erations or s r shall notif	significant fy all whalers
		sition, th	event that the Indus ne operator reserve nd provide more ge	s the right to	restrict exac	t vessel lo	
(b) R	eporti	ng Posi	itions for Subsiste	nce Whale	Hunting Cre	ws.	
	(1) All subsistence whaling captains shall report to the appropriate Com- Center at the time they launch their boats from shore and again when they return to shore.						
	(2) initial		osistence whaling ca pordinates of their w	•	•	ch Com-Ce	enter the
	(3)	Additio	onal communication	ıs shall be m	ade on an as	s needed b	asis.
	(4)	Each	call shall report the	following info	ormation:		
		(A)	The crew's location	n and genera	al direction of	travel.	
		be trav	IPLE: This isveling north-east fro our plans change.	om	. We are jus	st starting o	out. We will whales. I will

- (B) The presence of any vessels or aircraft owned or operated by any of the Industry Participants, or their contractors, that are not observing the specified guidelines set forth in Title V on Avoiding Conflicts.
- (C) The final call of the day shall include a statement of the whaling captain's general area of expected operations for the following day, if known at the time.

(5)	Any subsistence whale hunter preparing t	o tow	a caught	whale	shall	report
to the	e appropriate Com-Center before starting to	o tow.				

EXAMPLE: This is Archie Ahkiviana.	l am	' north,	<u> </u>	west.	I have a
whale and am towing it into					

- (6) Each time a subsistence whaling camp is moved, it shall be reported promptly to the appropriate Com-Center, including the new GPS coordinates.
- (7) Subsistence whale hunters shall notify the appropriate Com-Center promptly if, due to weather or any other unforeseen event, whaling is not going to take place that day.
- (8) Subsistence whaling captains shall contact the appropriate Com-Center promptly and report any unexpected movements of their vessel.

(c) Responsibilities of Participants.

(1) Monitoring VHF Channel 16.

All vessels covered by Sections 207, 301, and 401 of this Agreement shall monitor marine VHF Channel 16 at all times.

(2) Avoidance of Whale Hunting Crews and Areas

It is the responsibility of each vessel owned or operated by any of the Industry Participants and covered by Sections 301 or 401 of this Agreement to determine the positions of all of their vessels and to exercise due care in avoiding any areas where subsistence whale hunting is active.

(3) Vessel-to-Vessel Communication

After any vessel owned or operated by any of the Industry Participants and covered by Sections 301 or 401 of this Agreement has been informed of or has determined the location of subsistence whale hunting boats in its vicinity, the MMO/IC shall contact those boats in order to coordinate movement and take necessary avoidance precautions.

SECTION 203. THE COMMUNICATIONS SYSTEM COORDINATION CENTERS (COM-CENTERS).

(a) Chukchi Lead System Included in Com-Center Coverage.

In addition to the Beaufort Sea and Chukchi Sea, the communications scheme shall apply in the Chukchi Sea lead system, as identified and excluded from leasing in the current MMS Five-Year Leasing Program, 2007-2012.

(b) Set Up and Operation.

- (1) Subject to the terms of Section 104(c) and Section 601 of this Agreement, the Industry Participants conducting operations during the Com-Center operational window specified in Section 203(c) in:
 - (A) the Beaufort Sea jointly will arrange for the funding of Com-Centers in Deadhorse and Kaktovik; and
 - (B) the Chukchi Sea jointly will arrange for the funding of Com-Centers in Barrow, Wainwright, Pt. Lay, Pt. Hope, Kivalina, Wales, and St. Lawrence Island.
- (2) All nine Com-Centers will be staffed by Inupiat operators. **GROUND TRANSPORTATION MUST BE PROVIDED FOR COM-CENTER OPERATIONS IN KAKTOVIK FOR POLAR BEAR AND BROWN BEAR SAFETY**. The Com-Centers will be operated 24 hours per day during the 2012 subsistence bowhead whale hunt. One Industry Participant in the Beaufort Sea and one Industry Participant in the Chukchi Sea, or their respective contractor, will be designated as the operator of the Com-Centers for that Sea, in consultation with the AEWC.

- (3) Each Industry Participant shall contribute to the funding of the Com-Centers covering the areas in which it conducts oil and gas operations. The level of funding for the Com-Centers provided by each of the Industry Participants is intended to be in proportion to the scale of their respective activities, and shall be mutually agreed by the Industry Participants.
- (4) The procedures to be followed by the Com-Center operators are set forth in subsection (d) below.

(c) Staffing.

- (1) Each Com-Center shall have an Inupiat operator ("Com-Center operator") on duty 24 hours per day from August 15, or one week before the start of the fall bowhead whale hunt in each respective village, until the end of the bowhead whale subsistence hunt in villages listed in subparagraphs (A) through (G) and until the completion of all Industry Participant vessel transits (other than a vessel covered under Title V) in villages listed in subparagraphs (G) through (I):
 - (A) Kaktovik for the Kaktovik Com-Center;
 - (B) Nuiqsut for the Deadhorse Com-Center;
 - (C) Barrow for the Barrow Com-Center;
 - (D) Wainwright for the Wainwright Com-Center.
 - (E) Pt. Lay for the Pt. Lay Com-Center, which will be located in the Pt. Lay Whaling Captains' Association building; and
 - (F) Pt. Hope for the Pt. Hope Com-Center, which will be located in the Pt. Hope Whaling Captains' Association building.
 - (G) Kivalina for the Kivalina Com-Center.
 - (H) Wales for the Wales Com-Center.
 - (I) Gambell or Savoonga for the St. Lawrence Island Com-Center.
- (2) All Com-Center staff shall be local hire.

(d) Duties of the Com-Center Operators.

- (1) The Com-Center operators shall be available to receive radio and telephone calls and to call vessels as described below. A record shall be made of all calls from every vessel covered by Sections 207, 301, and 401 of this Agreement. Information reported regarding whales struck, lost, landed, or the location of whales struck, lost, or landed, or the number of strikes remaining, shall be confidential and shall not be disclosed to anyone other than the AEWC or the local Whaling Captains' Association. The record of all reporting calls should contain the following information:
 - (A) Industry Participant Vessel:
 - (i) Name of caller and vessel.
 - (ii) Vessel location, speed, and direction.
 - (iii) Time of call.
 - (iv) Anticipated movements between this call and the next report.
 - (v) Reports of any industry or subsistence activities.
 - (B) Subsistence Whale Hunting Boat:
 - (i) Name of caller.
 - (ii) Location of boat or camp.
 - (iii) Time of call.
 - (iv) Plans for travel.
 - (v) Any special information such as caught whale, whale to be towed, or industry vessel conflicts with whale or whaler. Any report of the number of whales struck, lost, or landed, or of the number of strikes remaining, shall be kept confidential and shall not be disclosed by the Com-Center or any Com-Center operator to anyone other than the AEWC or the local Whaling Captains' Association. The location of whales struck, lost, or landed shall be kept confidential and shall not be disclosed except to the extent needed to avoid an Industry/Subsistence Whale Hunter conflict.

- (2) Report of Industry/Subsistence Whale Hunter Conflict. In the event an industry/subsistence whale hunter conflict is reported, the appropriate ComCenter operator shall record:
 - (A) Name of industry vessel.
 - (B) Name of subsistence whaling captain.
 - (C) Location of vessels.
 - (D) Nature of conflict, data, and time.
- (3) If all vessels and boats covered by Sections 207, 301, and 401 of this Agreement have not reported to the appropriate Com-Center within one hour of the recommended time, that Com-Center operator shall attempt to call all non-reporting vessels to determine the information set out above under the Duties of the Com-Center operator.
- (4) As soon as location information is provided by a vessel covered by Sections 207, 301, or 401 of this Agreement, the appropriate Com-Center operator shall plot the location and area of probable operations on the large map provided at the Com-Center.
- (5) If, in receiving information or plotting it, a Com-Center operator observes that operations by Industry Participants might conflict with subsistence whaling activities, such Com-Center operator shall contact the industry vessel involved and advise the Industry Participant's Local Representative(s) and the vessel operators of the potential conflict.

SECTION 204. STANDARDIZED LOG BOOKS.

The Industry Participants will provide the Com-Centers and Marine Mammal Observer / Inupiat Communicators with identical log books to assist in the standardization of record keeping associated with communications procedures required pursuant to this Agreement.

SECTION 205. COMMUNICATIONS EQUIPMENT.

- (a) Communications Equipment to be Provided to Subsistence Whale Hunting Crews.
 - (1) <u>In General</u>. The Industry Participants will provide (or participate in the provision of) the communications equipment described in paragraphs (4) and (6) of this subsection and subsection (b) of this section.
 - (2) <u>Beaufort Sea</u>. The Industry Participants funding Com-Centers in Deadhorse and Kaktovik will fund the provision of communications equipment for the whaling captains of Kaktovik and Nuiqsut in the same proportion as they fund those Com-Centers.
 - (3) <u>Chukchi Sea</u>. The Industry participants conducting operations in the Chukchi Sea will coordinate with each other to participate in funding the provision of communications equipment for the whaling captains of Barrow, Wainwright, Pt. Hope, and Pt. Lay.
 - (4) All-Channel, Water-Resistant VHF Radios.

These VHF radios are specifically designed for marine use and allow monitoring of Channel 16 while using or listening to another channel.

- (A) Kaktovik Subsistence Whaling Boats: 8
- (B) Kaktovik Base and Search and Rescue: 2
- (C) Nuiqsut Subsistence Whaling Boats: 12
- (D) Nuigsut Base and Search and Rescue: 3
- (E) Barrow Base and Search and Rescue: 2
- (F) Wainwright Base and Search and Rescue: 2
- (G) Wainwright Subsistence Whaling Boats: 4
- (H) Pt. Hope Base and Search and Rescue: 2
- (I) Pt. Hope Subsistence Whaling Boats: 10

- (J) Pt. Lay Base and Search and Rescue: 2
- (K) Pt. Lay Subsistence Whaling Boats: 4

(5) Specific VHF Channels For Each Village.

The whaling boats from each of the villages have been assigned individual VHF channels for vessel-to-vessel and vessel-to-Com-Center communications as follows:

- (A) Nuiqsut whaling crews will use Channel 68.
- (B) Kaktovik whaling crews will use Channel 69.
- (C) Barrow whaling crews will use Channel 72.
- (D) Wainwright Whaling Crews will use Channel 12.
- (E) Pt. Lay Whaling Crews will use Channel 72.
- (F) Pt. Hope Whaling Crews will use Channel 68.

(6) Satellite Telephones.

The satellite telephones are to be used as backup for the VHF radios. The satellite telephones for use on subsistence whaling boats are for emergency use only and should be programmed for direct dial to the nearest Com-Center.

- A. Kaktovik Base Phones: 2
- B. Kaktovik Subsistence Whaling Boats: 8
- C. Nuiqsut Base Phones: 2
- D. Nuiqsut Subsistence Whaling Boats: 12
- E. Barrow Subsistence Whaling Boats: 2
- F. Wainwright Subsistence Whaling Boats: 4
- G. Pt. Lay Subsistence Whaling Boats: 2

(7) <u>Distribution and Return of Equipment.</u>

The distribution of the VHF radios and satellite telephone equipment to whaling captains for use during the 2012 fall bowhead subsistence whale hunting season shall be completed no later than August 15, 2012. All such units and telephone equipment provided under this Agreement, whether in this section or otherwise, will be returned promptly by the Subsistence Participants to the Industry Participant or the person providing such units and equipment at the end of each Village's 2012 fall bowhead whale subsistence hunt.

(b) Communications Equipment on Vessels Owned or Operated by the Industry Participants and/or their Contractors.

The Marine Mammal Observer / Inupiat Communicators onboard source vessels owned or operated by the Industry Participants and/or their contractors will also be supplied with all-channel VHF radios. The MMO/ICs have been assigned Channel 7 for their exclusive use in communicating with the ComCenter. Such radios shall be returned upon the completion or termination of the MMO/IC's assignment.

(c) Radio Installation and User Training.

The Whaling Captains of Nuiqsut, Kaktovik, Wainwright, Pt. Lay, and Pt. Hope, with assistance from the Industry Participants, will be responsible for the installation of the VHF radio equipment. The Industry participants will provide (or participate in the provision of) on-site user training for the VHF and satellite telephone equipment on or before August 15, 2012, if requested and as scheduled by the Whaling Captains' Associations of Nuiqsut, Kaktovik, Barrow, Wainwright, Pt. Lay, and Pt. Hope, and the Industry Participant operating the Beaufort Sea Com-Centers or Chukchi Sea Com-Centers, as appropriate.

SECTION 206. INDIVIDUALS TO CONTACT.

Listed below are the primary contact names and phone numbers for each of the Participants.

(1) BP Exploration (Alaska), Inc.'s (BP) Local Representative

LOWRY BROTT will be BP's local representative on the North Slope during the Term of this Agreement and will be stationed at Northstar Island and will be available by telephone at (907) 670-3520 and when Mr. Brott is not available, his alternate, Jim Croak, will be stationed at Northstar Island and will be available by telephone at the above number.

(3) ENI's Local Representative

Hans Neidig (907) 865-3314

(4) Exxon Mobil's Local Representative

TBD

(5) GX Technology's Local Representative

Ed Nelson (832) 344-6852

(6) <u>Pioneer Natural Resources' (Pioneer) Local Representative</u>

PAT FOLEY will be Pioneer's local representative during the Term of this Agreement and will be stationed in Anchorage and will be available by telephone at (907) 343-2110.

(7) Shell Offshore Inc.'s (Shell) Local Representatives

JOHN MAKETA and HOWARD HILL will be Shell's local representatives on the North Slope during the Term of this Agreement and will be stationed at Barrow during Chukchi Sea operations and at Deadhorse during Beaufort Sea operations and will be available by telephone at (907) 770-3700.

(8) STATOIL's Local Representative

TBD

(9) The Village of Kaktovik

For purposes of this Agreement, the individuals to contact for the Village of Kaktovik will be: JOSEPH KALEAK at (907) 640-6213 or 640-6515, and CHARLIE M. BROWER at (907) 640-4163 (home), (907) 640-2092 (work), or (907) 640-0052 (cell).

(10) The Village of Nuiqsut

For purposes of this Agreement, the individuals to contact for the Village of Nuiqsut will be: ISAAC NUKAPIGAK at (907) 480-6220 (Work); (907) 480-2400 (Home).

(11) The Village of Barrow

For purposes of this Agreement, the individuals to contact for the Village of Barrow will be: HARRY BROWER, JR. at (907) 852-0350 (Work), and EUGENE BROWER at (907) 852-3601.

(12) The Village of Wainwright

For purposes of this Agreement, the individuals to contact for the Village of Wainwright will be: ROSSMAN PEETOOK at (907) 763-4774, and WALTER NAYAKIK at (907)763-2915 (Work).

(13) The Village of Pt. Hope

For purposes of this Agreement, the individuals to contact for the Village of Pt. Hope will be: CHESTER FRANKSON, SR. at (907) 368-2054 (Home).

(14) The Village of Pt. Lay

For purposes of this Agreement, the individuals to contact for the Village of Pt. Lay will be: JULIUS REXFORD (907) 833-4592 (Home), (907) 833-2214 (Work), (907) 833-2320 (Fax), THOMAS NUKAPIAK (907) 833-6467 (Home), (907) 833-3838.

(15) The Village of Kivilina

For the purposes of this Agreement, the individuals to contact for the Village of Kivilina will be: _______.

(16) The Village of Little Diomede

For the purposes of this Agreement, the individuals to contact for the Village of Little Diomede will be: ______

(17) The Village of Wales

For the purposes of this Agreement, the individuals to contact for the Village of Wales will be: ______.

(18) The Village of Savoonga

For the purposes of this Agreement, the individuals to contact for the Village of Savoonga will be: ______.

(19) The Village of Gambell

For the purposes of this Agreement, the individuals to contact for the Village of Gambell will be:

(20) The AEWC

For purposes of this Agreement, the individuals to contact for the AEWC shall be: JOHNNY AIKEN at (907) 852-2392.

SECTION 207. SUBSISTENCE WHALE HUNTING BOATS.

The following is a list of the number of boats each of the Subsistence Participants plan to use:

(1) Boats Owned/Used by Whaling Captains of Nuigsut (NWCA)

The subsistence whaling crews of the Village of Nuiqsut plan to use (12) twelve boats for subsistence whale hunting during the late summer and fall of 2012.

(2) Boats Owned/Used by Whaling Captains of Kaktovik (KWCA)

The subsistence whaling crews of the Village of Kaktovik plan to use (8) eight boats for subsistence whale hunting during the late summer and fall of 2012.

(3) Boats Owned/Used by Whaling Captains of Barrow (BWCA)

The subsistence whaling crews of the Village of Barrow plan to use (40) forty boats for subsistence whale hunting during the late summer and fall of 2012.

(4) Boats Owned/Used by Whaling Captains of Wainwright (WWCA)

The subsistence whaling crews of the Village of Wainwright plan to use (4) four boats for subsistence whale hunting during the fall of 2012.

(5) Boats Owned/Used by Whaling Captains of Pt. Hope (Pt. HWCA)

The subsistence whaling crews of the Village of Pt. Hope plan to use (10) ten boats for subsistence whale hunting during the late fall of 2012.

(6) Boats Owned/Used by Whaling Captains of Pt. Lay (Pt. LWCA)

The subsistence whaling crews of the Village of Pt. Lay plan to use (4) four boats for subsistence whale hunting during the fall of 2012.

If any additional boats are put in use by subsistence whaling crews, the Industry Participants will be notified promptly through the Com-Center.

TITLE III – BARGE, TRANSIT, AND CABLE LAYING VESSEL OPERATIONS

SECTION 301. IN GENERAL.

A Participant may employ barges, transit, or cable laying vessels to transport materials or lay cable through the Beaufort Sea or Chukchi Sea during the term of this Agreement. Any Industry Participant who employs a barge or transit vessel to transport materials through the Beaufort Sea or Chukchi Sea during the term of this Agreement shall require the barge or transit vessel operator to comply with Sections 201, 205(b) and 302 of this Agreement while providing services to that Industry Participant.

SECTION 302. BARGE AND TRANSIT VESSEL OPERATIONS.

- (a) Reporting Positions for Barge, Transit or Cable Laying Vessels Owned or Operated by industry Participants.
 - (1) All barge, transit. or cable laying vessels shall report to the appropriate Com-Center at least once every six hours commencing with a call at approximately 06:00 hours. Each call shall report the following information:
 - (A) Barge, transit, or cable laying vessel name, operator of vessel, charterer or owner of vessel, and the project or entity the vessel is transporting materials for.
 - (B) Barge, transit, or cable laying vessel location, speed, and direction.
 - (C) Plans for barge, transit, or cable laying vessel movement between the time of the call and the time of the next call. The final call of the day shall include a statement of the barge or transit vessel's general area of expected operations for the following day, if known at that time.

XAMPLE: This is the Arctic Endeavor, operated by for					
in the Chukchi Sea. We are currently at' nor	th'				
west, proceeding SE at knots. We will proceed on this co	urse for				
hours and will report location and direction at that time.					

(2) The appropriate Com-Center also shall be notified if there is any significant change in plans, such as an unannounced start-up of operations or significant deviations from announced course, and such Com-Center shall notify all whalers of such changes. A call to the appropriate Com-Center shall be made regarding any unsafe or unanticipated ice conditions.

(b) Operator Duties.

All barge, transit, or cable laying vessel operators are responsible for the following requirements.

- (1) <u>Monitoring VHF Channel 16</u>. All barge and transit vessel operators shall monitor marine VHF Channel 16 at all times.
- (2) <u>Avoidance of Whale Hunting Crews and Areas</u>. It is the responsibility of each Industry Participant and barge or transit vessel operator to determine the positions of their barge or transit vessels and to exercise due care in avoiding any areas where subsistence whale hunting is active.
- (3) <u>Vessel-to-Vessel Communication</u>. After any barge or transit vessel owned or operated by any Industry Participant has been informed of or has determined the location of subsistence whale hunting boats in its vicinity, the Marine Mammal Observer / Inupiat Communicator shall contact those boats in order to coordinate movement and take necessary avoidance precautions.

(c) Routing Barge, Transit, and Cable Laying Vessels.

- (1) All barge, transit, and cable laying vessel routes shall be planned so as to minimize any potential conflict with bowhead whales or subsistence whaling activities. All barges and transit vessels shall avoid areas of active or anticipated whaling activity, as reported pursuant to Section 202.
- (2) <u>Beaufort Sea</u>. Vessels transiting east of Bullen Point to the Canadian border should remain at least five (5) miles offshore during transit along the coast, provided ice and sea conditions allow.
- (3) <u>Chukchi Sea</u>. Vessels should remain as far offshore as weather and ice conditions allow, and at all times at least five (5) miles offshore during transit.

(d) Vessel Speeds.

Barge. transit, and cable laying vessels shall be operated at speeds necessary to ensure no physical contact with whales occurs, and to make any other potential conflicts with bowhead whales or whalers unlikely. Vessel speeds shall be less than 10 knots in the proximity of feeding whales or whale aggregations.

(e) Vessels Operating in Proximity of Bowhead Whales.

If any barge or transit vessel inadvertently approaches within 1.6 kilometers (1 mile) of observed bowhead whales, except when providing emergency assistance to whalers or in other emergency situations, the vessel operator will take reasonable precautions to avoid potential interaction with the bowhead whales by taking one or more of the following actions, as appropriate:

- (1) reducing vessel speed to less than 5 knots within 900 feet of the whale(s);
- (2) steering around the whale(s) if possible;
- (3) operating the vessel(s) in such a way as to avoid separating members of a group of whales from other members of the group;
- (4) operating the vessel(s) to avoid causing a whale to make multiple changes in direction; and
- (5) checking the waters immediately adjacent to the vessel(s) to ensure that no whales will be injured when the propellers are engaged.

(f) Marine Mammal Sighting Data.

Industry Participants whose operations are limited exclusively to barge or vessel traffic will submit to the AEWC and NSB DWM all marine mammal sighting data.

TITLE IV - VESSELS, TESTING, AND MONITORING

SECTION 401. INDUSTRY PARTICIPANT VESSELS AND EQUIPMENT.

(a) List of Vessels and Equipment Required.

Each Industry Participant engaged in oil and gas operations shall provide a list identifying all vessels or other equipment (including but not limited to boats, barges, aircraft, or similar craft) that are owned and/or operated by, or that are under contract to the Industry Participants, for use in the Beaufort Sea or Chukchi Sea for oil and gas operations or for implementation of such Industry Participant's monitoring plan. Vessels and equipment used for oil and gas operations shall be listed in Attachment II, and vessels and equipment used for monitoring plans shall be listed in Attachment III.

- (b) Only Listed Vessels and Equipment (or Like Vessels and Like Equipment) May Be Used.
 - (1) NONE OF THE INDUSTRY PARTICIPANTS INTENDS TO OPERATE ANY VESSEL OR EQUIPMENT (EXCEPT FOR LIKE VESSELS OR LIKE EQUIPMENT) NOT IDENTIFIED IN THE LISTS REQUIRED UNDER SUBSECTION (a) DURING THE TERM OF THIS AGREEMENT.
 - (2) Notwithstanding paragraph 1, if any Industry Participant decides to use different vessels or equipment or additional vessels or equipment, such vessels and equipment shall be used only for purposes identified in Attachments II or III; and the AEWC and the whaling captains of Nuiqsut, Kaktovik, Barrow, Wainwright, Pt. Hope, and Pt. Lay shall be notified promptly through the appropriate Com-Center, as identified in Section 203 of this Agreement, and in writing, of their identity and their intended use, including location of use.

SECTION 402. SOUND SIGNATURE TESTS.

(a) Sound Source Verification Testing.

- (1) <u>Geophysical Equipment.</u> For purposes of obtaining a sound signature for Industry Participants' geophysical equipment, the Industry Participants shall have initiated a test of all geophysical equipment within 72 hours of initiating or having initiated operations in the Beaufort Sea or Chukchi Sea. Such tests shall be conducted as set forth in section 402(b).
- (2) Vessels. For vessels engaged in geophysical activity, Industry Participants will conduct a sound source verification test for all geophysical equipment used for geophysical activity. Each Industry Participant shall establish a sound source verification range or Industry Participants may participate jointly in establishing a range for the Chukchi Sea and Beaufort Sea, or both. A separate range shall be used for the Chukchi Sea and Beaufort Sea, and vessels shall use the appropriate range for each sea in which they operate. For testing each vessel shall proceed through the range and record information on the date, time, vessel speed, vessel route, vessel load, weather conditions, and equipment operating on the vessel (all noise generating equipment on the vessel, other than geophysical equipment subject to separate testing under paragraph (1), shall be in operation while the vessel is proceeding through the range). The range should be established near a location where details on wind speed and direction are regularly monitored and archived.

(b) Mutual Agreement on Site for Testing; Advance Notice Required.

- (1) <u>In General</u>. Each geophysical equipment sound signature test shall be conducted at a site mutually agreed upon by the Industry Participant conducting such test and the AEWC. Each Industry Participant conducting such sound signature test(s) will make a good faith effort to provide three (3) weeks advance notice to the AEWC and the NSB DWM of its intent to perform each test.
- (2) <u>Beaufort Sea Testing</u>. For geophysical equipment sound signature tests conducted in the Beaufort Sea, the Industry Participant conducting such tests shall provide transportation for an appropriate number of representatives from: the AEWC, the whaling captains of the Villages of Barrow, Nuiqsut, and Kaktovik, and the NSB DWM to observe the sound signature tests.

(3) Chukchi Sea Testing. For geophysical equipment sound signature tests conducted on vessels to be used in the Chukchi Sea, the Industry Participant(s) conducting such tests shall provide transportation for an appropriate number of representatives from: the AEWC, the whaling captains of the Villages of Barrow, Wainwright, Pt. Lay, and Pt. Hope, and the NSB DWM to observe the sound signature tests.

(c) Sound Signature Data to be Made Available.

- (1) Within fourteen (14) days of completing the sound signature field tests for geophysical equipment and within thirty (30) days of the end of the operating season for sound source verification ranges, each Industry Participant and/or its contractor conducting such test(s) will make preliminary and final quality controlled results of the sound signature test(s) available upon request to the AEWC and the NSB DWM. The Industry Participant and/or its contractor will also provide the AEWC and the NSB DWM the preliminary analysis of that data, as well as any other applicable sound signature data that is available and that the AEWC, the NSB DWM, and the Industry Participant agree is relevant to understanding the potential noise impacts of the proposed operations to migrating bowhead whales or other affected marine mammals.
- (2) Once completed the final data analysis will be provided to the AEWC and the NSB DWM upon request. The final data report for the sound source verification testing shall be provided to the NSB DWM and the AEWC no later than December 31, 2012.
- (3) Any Industry Participant who prepares a model of the sound signature of its vessels and operations, whether before or after the sound signature test, will provide copies of those models and any related analysis to the AEWC and the NSB DWM upon request.

SECTION 403. MONITORING PLANS.

(a) Monitoring Plan Required.

- (1) Each Industry Participant agrees to prepare and implement a monitoring plan to collect data designed to determine the potential effects of its oil and gas operations on fall migrating bowhead whales.
- (2) The monitoring plans shall be designed in cooperation with the AEWC, the NSB DWM, and NOAA Fisheries, together with the Bureau of Ocean Energy Management (BOEM) when operating in Federal waters. If additional outside review is requested by any of the above entities, the Industry Participant will evaluate the request on a case by case basis.

(b) Beaufort Sea Monitoring Plans.

In the Beaufort Sea, the monitoring plans should focus on the identify, timing, location, and numbers of marine mammals and their behavioral responses to the noise source. The monitoring plans will place emphasis on understanding potential impacts from industrial sounds on bowhead whales.

(c) Chukchi Sea Monitoring Plans.

In the Chukchi Sea, the monitoring plans should focus on the identity, timing, location, and numbers of marine mammals and their behavioral responses to the noise source. The monitoring plans will place emphasis on understanding potential impacts from industrial sounds on bowhead whales.

(d) Use of Prior Information and Peer Reviewed Data.

- (1) Prior impact study results shall be incorporated into the monitoring plans prepared by each Industry Participant as applicable.
- (2) Each monitoring plan for oil and gas operations shall be subject to peer review by stakeholders on a peer review panel identified by NOAA Fisheries at the 2012 Open Water Season Peer Review Meeting, convened by NOAA Fisheries. Draft plans will be submitted to the NSB DWM and AEWC no later than two weeks prior to the 2012 Open Water Peer Review Meeting.

(e) Raw Data, Communication, and Summary Required.

- (1) Each Industry Participant conducting site-specific monitoring will:
 - (A) after quality control reviews are completed, make electronic data, available to the NSB DWM at the end of the season.
 - (B) permit and encourage open communications among their contractors and the AEWC and NSB DWM.
- (2) Each Industry Participant will submit a summary of monitoring plan results and progress to the AEWC and NSB DWM every two weeks during the operating season.

SECTION 404. CUMULATIVE NOISE IMPACTS STUDY.

Each Industry Participant further agrees to provide its monitoring plan and sound signature data, for use in a cumulative effects analysis of the multiple sound sources and their possible relationship to any observed changes in marine mammal behavior, to be undertaken pursuant to a Cumulative Noise Impacts Study.

The study design for the Cumulative Impacts Study shall be developed through a Cumulative Impacts Workshop to be organized by the North Slope Borough in the winter of 2012/2013. The results of this workshop will be presented at the 2013 Open Water Meeting.

TITLE V – AVOIDING CONFLICTS DURING THE OPEN WATER SEASON

Industry Participants are reminded that Sections 101(a)(5)(A) and (D) of the Marine Mammal Protection Act provide, among other things, that the Secretary can authorize the incidental taking of small numbers of marine mammals of a species or population stock if the Secretary finds, among other things, that the total of such takings during the authorized period will not have an unmitigable adverse impact on the availability of such species or stock for taking for subsistence uses.

The following Operating Guidelines apply in the Beaufort Sea and Chukchi Sea, except as otherwise specified and in all cases with due regard to environmental conditions and operational safety. These Operating Guidelines are in addition to any permit restrictions or stipulations imposed by the applicable governmental agencies.

SECTION 501. GENERAL PROVISIONS FOR AVOIDING INTERFERENCE WITH BOWHEAD WHALES OR SUBSISTENCE WHALE HUNTING ACTIVITIES.

(a) Routing Vessels and Aircraft.

- (1) All vessel and aircraft routes shall be planned so as to minimize any potential conflict with bowhead whales or bowhead subsistence whaling activities. All vessels shall avoid areas of active or anticipated whaling activity (as reported pursuant to Section 202).
- (2) <u>Beaufort Sea</u>. Vessels transiting east of Bullen Point to the Canadian border should remain at least five (5) miles offshore during transit along the coast, provided ice and sea conditions allow.
- (3) <u>Chukchi Sea</u>. Vessels should remain as far offshore as weather and ice conditions allow, and at least five (5) miles offshore during transit.

(b) Aircraft Altitude Floor and Flight Path.

- (1) AIRCRAFT SHALL NOT OPERATE BELOW 1500 FEET unless the aircraft is engaged in marine mammal monitoring, approaching, landing or taking off, or unless engaged in providing assistance to a whaler or in poor weather (low ceilings) or any other emergency situations. Aircraft engaged in marine mammal monitoring shall not operate below 1500 feet in areas of active whaling; such areas to be identified through communications with the Com-Centers.
- (2) Except for airplanes engaged in marine mammal monitoring, aircraft shall use a flight path that keeps the aircraft at least five (5) miles inland until the aircraft is directly south of its offshore destination, then at that point it shall fly directly north to its destination.

(c) Vessel Speeds.

Vessels shall be operated at speeds necessary to ensure no physical contact with whales occurs, and to make any other potential conflicts with bowhead whales or whalers unlikely. Vessel speeds shall be less than 10 knots in the proximity of feeding whales or whale aggregations.

(d) Vessels Operating in Proximity of Bowhead Whales.

If any vessel inadvertently approaches within 1.6 kilometers (1 mile) of observed bowhead whales, except when providing emergency assistance to whalers or in other emergency situations, the vessel operator will take reasonable precautions to avoid potential interaction with the bowhead whales by taking one or more of the following actions, as appropriate:

- (1) reducing vessel speed to less than 5 knots within 900 feet of the whale(s);
- (2) steering around the whale(s) if possible;
- (3) operating the vessel(s) in such a way as to avoid separating members of a group of whales from other members of the group;
- (4) operating the vessel(s) to avoid causing a whale to make multiple changes in direction; and
- (5) checking the waters immediately adjacent to the vessel(s) to ensure that no whales will be injured when the propellers are engaged.

SECTION 502. GEOPHYSICAL ACTIVITY LIMITATIONS.

The following operating limitations are to be observed and the operations are to be accompanied by a monitoring plan as set forth in Section 403 and Attachment III of this Agreement. The Industry Participants conducting geophysical activity agree to coordinate the timing and location of such activity so as to reduce, by the greatest extent reasonably possible, the level of noise energy entering the water from such activity at any given time and at any given location.

(a) Limitations on Geophysical Activity in the Beaufort Sea.

All geophysical activity in the Beaufort Sea shall be conducted in accordance with the terms set forth below.

(1) <u>Kaktovik:</u> No geophysical activity from the Canadian Border to the Canning River (146 deg. 4 min. W) from 25 August to close of the fall bowhead whale hunt in Kaktovik and Nuiqsut. ¹ From August 10 to August 25, Industry Participants will communicate and collaborate with AEWC on any planned vessel movement in and around Kaktovik and Cross Island to avoid impacts to whale hunt.

(2) Nuiqsut:

- A. Pt. Storkerson(~148 deg. 42 min. W) to Thetis Island (~150 deg. 10.2 min. W).
 - (i) *Inside the Barrier Islands*: No geophysical activity prior to July 25. Geophysical activity is allowed from July 25 until completion of operations²
 - (ii). Outside the Barrier Islands: No geophysical activity from August 25 to close of fall bowhead whale hunting in Nuiqsut. Geophysical activity is allowed at all other times.
- b. Canning River (~146 deg. 4 min. W) to Pt. Storkerson (~148 deg. 42 min. W): No geophysical activity from August 25 to the close of bowhead whale subsistence hunting in Nuiqsut.
- (3) <u>Barrow:</u> No geophysical activity from Pitt Point on the east side of Smith Bay (~152 deg. 15 min. W) to a location about half way between Barrow and Peard Bay (~157 deg. 20 min. W) from September 15 to the close of the fall bowhead whale hunt in Barrow.

The bowhead whale subsistence hunt will be considered closed for a particular village when the village Whaling Captains' Association declares the hunt ended or the village quota has been exhausted (as announced by the village Whaling Captains' Association or the AEWC), whichever occurs earlier.

Geophysical activity allowed in this area after August 25 shall include a source array of no more than 12 air guns, a source layout no greater than 8 m x 6 m, and a single source volume no greater than 880 in³.

(b) Limitations on Geophysical Activity in the Chukchi Sea.

All geophysical activity in the Chukchi Sea shall be conducted in accordance with the terms set forth below.

- (1) Beginning September 15, and ending with the close of the fall bowhead whale hunt, ³ if Wainwright, Pt. Lay, or Pt. Hope intend to whale in the Chukchi Sea, no more than two geophysical activities employing geophysical equipment will occur at any one time in the Chukchi Sea. During the fall bowhead whale hunt, geophysical equipment will not be used by Participants within 30 miles of any point along the Chukchi Sea coastline. Industry Participants will contact the Whaling Captains' Associations of each of those villages to determine if a village is prepared to whale and will notify the AEWC of any response.
- (2) Safe harbor will be at sites selected by the Industry Participants and the AEWC. Safe harbor sites will be agreed upon no later than the beginning of operations and shall be listed in Attachment IV. However, a vessel captain will seek safety for his assets (vessel and personnel) as is his duty under the Law of the Sea.
- (3) Any vessel operating within 60 miles of the Chukchi Sea coast will follow the communications procedures set forth in Title II of this Agreement. All vessels will adhere to the conflict avoidance measures set forth in Section 501 of this Agreement.
- (4) If a dispute should arise, the resolution process set forth in Section 106 of this Agreement shall apply.

The bowhead whale subsistence hunt will be considered closed when village Whaling Captains' Associations of Wainwright, Pt. Lay, and Pt. Hope have each declared that (A) they do not intend to hunt, (B) their village hunt has ended, or (C) the village quota has been exhausted (as announced by the village Whaling Captains' Association or the AEWC), whichever occurs earlier.

SECTION 503. DRILLING AND PRODUCTION.

(a) Camden Bay.

For exploratory drilling and production between 144 deg. W and the Canning River (~146 deg. 4 min. W), zero discharge of:

- (1) drilling fluids;
- (2) cuttings after 20" casing;
- (3) treated sanitary and gray water; and
- (4) ballast and bilge water.

(b) Drilling Operations in the Beaufort Sea East of Cross Island.

No drilling equipment or related vessels used for at-sea oil and gas operations shall be onsite at any offshore drilling location east of Cross Island from 25 August until the close of the bowhead whale hunt in Nuiqsut and Kaktovik. However, such equipment may remain within the Beaufort Sea in the vicinity of 71 degrees 25 minutes N and 146 degrees 4 minutes W., or at the edge of the Arctic ice pack, whichever is closer to shore.

(c) Drilling Operations in the Beaufort Sea West of Cross Island.

In 2012, no drilling equipment or related vessels used for at-sea oil and gas operations shall be moved onsite at any location outside the barrier islands west of Cross Island until the close of the bowhead whale hunt in Barrow.

(d) Oil Spill Mitigation Agreement.

Industry Participants engaged in drilling operations agree to enter into a binding oil spill mitigation agreement with the Alaska Eskimo Whaling Commission, the North Slope Borough, and the Inupiat Community of the Arctic Slope to provide for hunter transport to alternate hunting locations in the event of an oil spill. The agreement shall be attached as Attachment V.

SECTION 504. SHORE-BASED SERVICE AND SUPPLY AREAS.

Shore-based service and supply areas used by Industry Participants shall be located and operated so as to ensure compliance with the terms of this Agreement.

SECTION 505. TERMINATION OF OPERATIONS AND TRANSIT THROUGH THE BERING STRAIT.

Except as provided in Title VI, all Industry Participant vessels shall complete operations in time to allow such vessels to complete transit through the Bering Strait to a point south of 59 degrees North latitude no later than November 15, 2012. Any Industry Participant vessel that encounters weather or ice that will prevent compliance with the date in the preceding sentence shall coordinate its transit through the Bering Strait to a point south of 59 degrees North latitude with the appropriate Com-Centers listed in Section 203. All Industry Participant vessels shall, weather and ice permitting, transit east of St. Lawrence Island and no closer than 10 miles from the shore of St. Lawrence Island.

TITLE VI – LATE SEASON SEISMIC OPERATIONS

SECTION 601. IN GENERAL.

Notwithstanding any other provision of this Agreement, any Industry Participant who engages exclusively in geophysical activities that are conducted at least 5 miles or more from the Alaska coast in the Beaufort Sea or Chukchi Sea and begin on or after October 1, 2012 shall only be responsible to comply with TItle I, excluding Sections 104(c)(4) and 108(a) and (b), and Sections 201, 205(b), 206, 502(a), and 602 of this Agreement. For the avoidance of doubt, an Industry Participant described in this Section 601 shall not be subject to the requirements of Section 203 including but not limited to funding of Com-Centers, providing certain equipment, training and providing representatives as designated operators of Com-Centers.

SECTION 602. VESSEL OPERATIONS.

(a) Reporting Pos	Sitions V	vnen v	vesseis	Come	within	4U	IVIIIes	or the	Coast
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- (1) A vessel subject to this section operating within 40 miles of the Alaska coast shall report to the appropriate Com-Center, if open, at least once every six hours commencing with a call at approximately 06:00 hours. Each call shall report the following information:
 - (A) Vessel name, operator of vessel, charter or owner of vessel, and the project or entity the vessel is conducting operations for.
 - (B) Vessel location, speed, and direction.
 - (C) Plans for vessel movement between the time of the call and the time of the next call. The final call of the day shall include a statement of the vessel's general area of expected operations for the following day, if known at that time.

EXAMPLE: This is the Arctic Endeavor, operated by <code>_</code>	for	
in the Chukchi Sea. We are currently at	'north'	
west, proceeding SE at knots. We will proceed	on this course for	
hours and will report location and direction at tha	t time.	

(2) The appropriate Com-Center, if open, also shall be notified if there is any significant change in plans, such as an unannounced start-up of operations or significant deviations from announced course, and such Com-Center shall notify all whalers of such changes. A call to the appropriate Com-Center shall be made regarding any unsafe or unanticipated ice conditions.

(b) Operator Duties.

All vessel operators subject to this title are responsible for the following requirements.

- (1) <u>Monitoring VHF Channel 16</u>. All vessel operators shall monitor marine VHF Channel 16 at all times.
- (2) <u>Avoidance of Whale Hunting Crews and Areas</u>. It is the responsibility of each Industry Participant and vessel operator to determine the positions of their vessels and to exercise due care in avoiding any areas where subsistence whale hunting is active.

(3) <u>Vessel-to-Vessel Communication</u>. After any vessel owned or operated by any Industry Participant has been informed of or has determined the location of subsistence whale hunting boats in its vicinity, the Marine Mammal Observer / Inupiat Communicator shall contact those boats in order to coordinate movement and take necessary avoidance precautions.

(c) Routing Vessels.

- (1) All vessel routes within 40 miles of the Alaska coast shall be planned so as to minimize any potential conflict with bowhead whales or subsistence whaling activities. All vessels shall avoid areas of active or anticipated whaling activity, as reported pursuant to Section 202.
- (2) <u>Beaufort Sea</u>. Vessels transiting east of Bullen Point to the Canadian border should remain at least five (5) miles offshore during transit along the coast, provided ice and sea conditions allow.
- (3) <u>Chukchi Sea</u>. Vessels should remain as far offshore as weather and ice conditions allow, and at all times at least five (5) miles offshore during transit.

(d) Vessel Speeds.

Vessels shall be operated at speeds necessary to ensure no physical contact with whales occurs, and to make any other potential conflicts with bowhead whales or whalers unlikely. Vessel speeds shall be less than 10 knots in the proximity of feeding whales or whale aggregations.

(e) Vessels Operating in Proximity of Bowhead Whales.

If any vessel inadvertently approaches within 1.6 kilometers (1 mile) of observed bowhead whales, except when providing emergency assistance to whalers or in other emergency situations, the vessel operator will take reasonable precautions to avoid potential interaction with the bowhead whales by taking one or more of the following actions, as appropriate:

- (1) reducing vessel speed to less than 5 knots within 900 feet of the whale(s);
- (2) steering around the whale(s) if possible;
- (3) operating the vessel(s) in such a way as to avoid separating members of a group of whales from other members of the group;

- (4) operating the vessel(s) to avoid causing a whale to make multiple changes in direction; and
- (5) checking the waters immediately adjacent to the vessel(s) to ensure that no whales will be injured when the propellers are engaged.

(f) Marine Mammal Sighting Data.

Industry Participants whose operations are subject to this title will submit to the AEWC and NSB DWM all marine mammal sighting data.

TITLE VII – PARTICIPANTS

This Agreement shall be binding and effective when signed by the duly authorized representatives of the Participants. Signatures may be by facsimile on separate pages.

George Noongwook	Hawy Brower J. Harry Brower, Jr.
AEWC Chairman	AEWC Commissioner for Barrow
Dated:	Dated: 3/6/2012
Merlin Koonooka	Joseph Kaleak
AEWC Commissioner for Gambell	AEWC Commissioner for Kaktovik
Dated:	Dated:
Raymond Hawley	Ronald Ozenna, Jr.
AEWC Commissioner for Kivalina	AEWC Commissioner for Little Diomede
Dated:	Dated:

Isaac Nukapigak	Rex A. Rock, Sr.
AEWC Commissioner for Nuiqsut	AEWC Commissioner for Pt. Hope
Dated:	Dated:
Julius Rexford	George Noongwook
AEWC Commissioner for Pt. Lay	AEWC Commissioner for Savoonga
Dated:	Dated:
John Hopson, Jr.	Luther Komonaseak
AEWC Commissioner for Wainwright	AEWC Commissioner for Wales
Dated:	Dated:

Name: BP Exploration (Alaska) Inc. Dated:	Name: ENI US Operating Company Dated:
Name: Exxon Mobil Corporation Dated:	Name: GX Technology Corporation Dated: 3 /6 / 7017
<u></u>	50.00. <u>577 201</u> 0
Name:	Name:
Pioneer Natural Resources Alaska	Shell Offshore, Inc.
Dated:	Dated:

ATTACHMENT I -- LOCAL SAR CONTACTS

LOCAL SEARCH AND RESCUE ORGANIZATIONS -

CONTACT PERSONS (IN EMERGENCIES, ALWAYS DIAL 911)

North Slope Borough
Search and Rescue (Pilots)

852-4844 Home

Barrow Volunteer

Search and Rescue Station 852-2808 OFS

President Oliver Leavitt 852-7032 WK

852-7032 Home

Vice-Pres. Price Brower 852-8633 WK

852-7848 Home

Secretary Lucille Adams 852-0250 Wk

852-7200 Home

Treasurer Eli Solomon 852-2808 Wk

852-6261 Home

Coordinator Arnold Brower, Jr. 852-0290 WK

852-5060 Home

Director Jimmy Nayakik 852-0200 WK

852-JENS Home

FINAL FOR SIGNATURE 1, 2012

March

Director

Johnny Adams

852-0250 WK

852-7724 Home

Nuiqsut Volunteer

Search and Rescue Station

480-6613 (Fire Hall)

Kaktovik Volunteer

Search and Rescue Station

640-6212 (Fire Hall)

President

Lee Kayotuk

640-5893 Wk

640-6213 Home

Vice-Pres.

Tom Gordon

640-

Secretary

Nathan Gordon

640-6925

Treasurer

Don Kayotuk

640-2947

Fire Chief

George T. Tagarook

640-6212 WK

640-6728 Home

FINAL FOR SIGNATURE 1, 2012

March

Wainwright Volunteer Search and Rescue

President

Joe Ahmaogak Jr.

763-2826 Home

Vice President

John Hopson, Jr.

763-3464 Home

Secretary

Raymond Negovanna 763-2102 Home

Treasurer

Ben Ahmaogak, Jr.

763-3030 Home

Director

Artic Kittick

763-2534 Home

Director

John Akpik

Unlisted

Pt. Hope Volunteer Search and Rescue

Coordinator

Willard Hunnicutt, Jr.

368-2774Work

Fire Chief

Willard Hunnicutt, Jr.

368-2774 Work

(Note: Only contact for Pt. Hope)

North Slope Borough Disaster Relief Coordinator

Frederick Brower

852-0284 OFS

ATTACHMENT II -- OPERATIONS VESSELS

VESSELS TO BE USED FOR AND IN SUPPORT OF INDUSTRY PARTICIPANTS' OPERATIONS AS IDENTIFIED IN SECTION 401(b)(1)(B)

[ALL VESSELS TO BE IDENTIFIED BY COMPANY]

NOTE:

COPY OF PRESENTATION OF THE INDUSTRY PARTICIPANT ATTACHED

IDENTIFYING VESSELS TO BE USED FOR AND IN SUPPORT OF THE INDUSTRY PARTICIPANTS' OPERATIONS.

ATTACHMENT III -- MONITORING VESSELS

VESSELS TO BE USED FOR AND IN SUPPORT OF THE INDUSTRY PARTICIPANTS MONITORING PLANS AS IDENTIFIED IN SECTION 401(b)(1)(B)

[ALL VESSELS TO BE IDENTIFIED BY COMPANY]

NOTE:

COPY OF PRESENTATION OF THE INDUSTRY PARTICIPANT ATTACHED

IDENTIFYING VESSELS TO BE USED FOR AND IN SUPPORT OF THE INDUSTRY PARTICIPANTS' MONITORING PLAN.

ATTACHMENT IV -- SAFE HARBOR

ATTACHMENT V -- OIL SPILL MITIGATION

Final Plan of Cooperation 2012 BeaufortSPAN™ West

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Final Plan of Cooperation 2012 BeaufortSPAN™ West

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1 copy: Project File

1 copy: Administrative Record

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