



Shell Exploration & Production

David Johnston, Regional Supervisor, Leasing and Plans
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April 26, 2012

Re: Fulfillment of Conditions #5 and #11 of the Revised Outer Continental Shelf Lease Exploration Plan, Camden Bay, Alaska (revised Camden Bay EP) Conditional Approval

Dear Mr. Johnston:

Shell Offshore Inc. (Shell) hereby submits the following documents as fulfillment of conditions #5 and #11 that the Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE; now Bureau of Ocean Energy Management [BOEM]) conditioned approval of Shell's revised Camden Bay EP.

- Condition #5 – BOEM requires additional support documentation from Shell with regard to the 2012 exploration drilling program Plan of Cooperation (POC) in order to provide BOEM greater assurance of Shell's compliance with Lease Stipulation 5. In response, Shell provides:
 - A copy of the slides shown at community meetings regarding the 2012 offshore program held since approval of the revised Camden Bay EP
 - Table that summarizes the issues brought up by those in attendance at these meetings; and
 - Copy of the Subsistence Advisor Handbook for 2012.
- Condition #11 – BOEM requires Shell to provide justification as to why the alternative configuration proposed in our *Fuel Transfer Plan* (FTP) submitted with the revised Camden Bay EP provides an equivalent level of response preparedness and is compliant with Lease Stipulation 6. In response, Shell provides:
 - *Alaska Fuel Transfer Procedure* – same submitted with revised Camden Bay EP; and
 - *Supplemental Explanation of Shell's Alaska Fuel Transfer Procedures*.

Shell notes for BOEM that the FTP which accompanies this letter is the same that Shell submitted with the revised Camden Bay EP which was conditionally approved by BOEMRE August 4, 2011. This FTP describes the same fueling procedures that Shell submitted in our FTP which accompanied our initial Camden Bay and Chukchi Sea EPs that were conditionally approved by the Minerals Management Service (MMS) on October 16th and December 7th, 2009, respectively. In the conditional approval of the initial Chukchi Sea EP, MMS determined that the alternative boom-deployment configuration that Shell proposed provided equivalent *or enhanced* capabilities for downstream containment and recovery of any spill. We believe the supplemental explanation which accompanies this letter allows BOEM to make the same determination.

Shell asks that BOEM provide confirmation that conditions #5 and #11 have been fulfilled.

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APR 27 2012

Regional Director, Alaska OCS
Bureau of Ocean Energy Management
Anchorage, Alaska

Department of Interior
Bureau of Ocean Energy Management
April 26, 2012
Page 2 of 2

If you have any questions regarding this submission, please contact me at (907) 646-7112 or Susan.Childs@Shell.com , or Pauline Ruddy at (907) 771-7243 or Pauline.Ruddy@Shell.com.

Thank you,



Susan Childs
Alaska Venture Support Integrator, Manager

Attachments:

Condition #5:

- a) Community Presentation: *Shell's Alaska Venture Drilling Program Update & Onshore Survey Program Review*
- b) Community Meeting Issue Summary Table
- c) *2012 Subsistence Advisor Handbook Beaufort and Chukchi Seas Program*

Condition #11:

- a) *Supplemental Explanation of Shell's Alaska Fuel Transfer Procedures*

Supplemental Explanation of Shell's Alaska Fuel Transfer Procedures April 2012

All fuel transfers between vessels will be conducted as per the *Alaska Fuel Transfer Procedure* (April 2011; Appendix M of the revised Chukchi Sea Exploration Plan). This document captures the US Coast Guard CFR requirements 33 CFR 155 and 156 including the Declaration of Inspection (checklist). This procedure is mandatory and includes the type of equipment, environmental parameters, personnel required and the specific activities to conduct the transfer safely and efficiently. The procedure covers all fuel transfers conducted by vessels employed by Shell Alaska.

In relation to the containment boom deployment the Shell procedures capture the 'in port' scenario as well as offshore operation where one vessel may be anchored. In relation to offshore operations the vessels will not be completely encircled by the containment boom. When offshore vessels are subject to variable wind direction and weather conditions, although the operation is managed in accordance with the procedures limiting the conditions in which the operation can be conducted, the presence of a containment boom completely encircling both vessels will restrict the vessels ability to maneuver, and would not be fully effective. The boom has a tendency to float close to the vessel side and would not be ideally placed to capture a spill. Any containment boom that is floating 'free' has the potential for entanglement with thrusters and propellers with the potential for damage. This could severely impact the vessels propulsion system and impair the vessels ability to maneuver out of danger. Damage to the containment boom and associated equipment (ropes, etc.) could occur.

In order to deploy the containment boom effectively the Shell procedures detail two configurations offshore (see Configurations 1 and 2 of the *Alaska Fuel Transfer Procedure* [April 2011; Appendix M of the revised Chukchi Sea Exploration Plan]) either the insertion of boom between the vessels or the deployment of small boats controlling a deployed boom held in a 'J' configuration.

The placement of boom between the vessels has the following advantages:

- Any spill is captured in the small area between the vessels
- The short sections of boom are relatively quicker to deploy and can be effectively retained in position and managed during the operation.

The 'J' configuration has the following advantages:

- The boom is actively positioned aligned close down stream of the potential spillage
- The use of small vessels to position the boom and the associated team are on immediate standby to intervene and commence recovery
- No danger of entanglement with propellers and or thrusters which would impair the vessels ability to maneuver.
- Due to the variable direction of the vessels heading the boom/containment is more effective by being kept at a distance of 20ft minimum from the vessels.

Bureau of Ocean Energy Management
 April 26, 2012
 Camden Bay: Condition # 5
 Attachment B

March/early April 2012 Community Meeting Issue Summary		
Date	Community	Discussion Item
March 26, 2012	Barrow	Security – Law enforcement personnel in Barrow expressed concern about foreign nationals being unsupervised in Barrow during crew changes transfers. Presenters assured residents that Shell security personnel are aware of the concern and crew changes are not planned to include overnight stays in Barrow, only unless weather constraints impose changing crew members to overnight before inbound or outbound flights. Changing crew member's access to Barrow will be restricted.
		Employment opportunities – In response to questions, Shell discussed opportunities for employment to support the 2012 exploration drilling program were discussed, principally as marine mammal observers (MMOs), subsistence advisors (SAs), community liaison officers (CLOs), and in the area of oil spill response (OSR) trained responders.
		Development – residents discussed preferences regarding eventual overland pipeline routes, if exploration leads toward development of OCS resources. Also, residents expressed needs for workforce development in Barrow for the future, even down to the school-grade children, in preparation for development of skills to support future employment. Future development will also tax local resources, public infrastructure to support influx of people and jobs.
March 27, 2012	Kaktovik	Oil Spill Response – Shell responded to residents seeking additional input from Shell on OSR assets, location, capabilities to execute response under Arctic conditions.
		Exploration drilling support infrastructure – Shell reaffirmed for residents the number of aircraft flights, and expressed assurances that subsistence resources will not be impacted. Asked about timing of opening of com centers, which will be prior to vessels arriving.
March 28, 2012	Pt. Lay	Employment opportunities – In response to interested residents, Shell described the local employment opportunities in the areas of OSR responders and CLOs. Requirements for employment were discussed.
April 5, 2012	Nuiqsut	Development – Nuiqsut residents voiced interest and posed questions regarding eventual overland pipeline routes, if exploration leads toward development of OCS resources.
		Cooperation with Community and In-Season Communication – Nuiqsut residents acknowledged Shell for working with the whalers on mitigations and with operating the Com Centers, including a com center in Nuiqsut in addition to Deadhorse.



2012 Subsistence Advisor Handbook Beaufort and Chukchi Seas Program

April 2012

Prepared for:

Shell Exploration and Production Co.
3601 C Street, Suite 1000
Anchorage, AK 99503

Prepared by:



UMIAQ

6700 Arctic Spur Road
Anchorage, Alaska 99518

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2.0 Program Objectives..... 2

3.0 Subsistence Advisor Responsibilities 2

Appendix A Routine Recordkeeping Forms

- Form A-1 Weekly Summary Report
- Form A-2 Weekly Timesheet
- Form A-3 Weekly Weather Report Form
- Form A-4 Daily Harvest Report
- Form A-5 Subsistence Use Maps

Appendix B Special Use Recording Forms

- Form B-1 Animal Sighting Log Form
- Form B-2 Meeting Notes

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This document is to serve as a handbook for Subsistence Advisors and project management personnel throughout 2012. This handbook is divided into three primary sections as indicated below:

Section 1.0 – Provides an overview of the program and village locations where a Subsistence Advisor will be employed.

Section 2.0 – Provides program objectives from an operational standpoint and describes how these objectives will be achieved.

Section 3.0 – Describes the responsibilities for each Subsistence Advisor in their respective village location. Tools required to carry out these responsibilities are provided in the appendices and include both routine recordkeeping forms that will be used on a daily and/or weekly basis and special use forms for non-routine work tasks.

1.0 Overview

In 2012, Shell Exploration and Production Company (Shell) will be conducting open water and on-shore operations which will potentially include, but are not limited to; exploration drilling, marine mammal monitoring, offshore scientific research studies, and buoy deployment programs in the Beaufort and Chukchi Seas and onshore environmental studies on the North Slope. Beaufort and Chukchi Sea open water activities are tentatively planned to begin in July and continue into November, and could potentially impact subsistence hunting in those offshore and onshore areas. Onshore environmental studies are scheduled to commence in June and continue into October. To establish and implement a communication link between subsistence users and Shell industry leads during the open water season, an Inupiat Subsistence Advisor will be employed in each community that is in proximity to operations. Shell has contracted UMIAQ, LLC (UMIAQ) on its behalf to manage the Subsistence Advisor Program.

The role of the Subsistence Advisor is to serve as a liaison between his or her village and Shell on matters of subsistence use, practices, impacts, and concerns. In this way, each of these individuals will help maintain subsistence priorities and help avoid conflicts between Shell exploration activities and subsistence users. Each Subsistence Advisor will reside in the village for which he or she is responsible. The services of the Village Subsistence Advisors will be retained from April through October 2012 in most village locations. This program will build upon accomplishments of the 2007, 2008, 2009, 2010 and 2011 Subsistence Advisor Programs. Villages with Subsistence Advisor Programs in 2012 will include Kaktovik, Nuiqsut, Barrow, Point Lay, Wainwright, Atkasuk, Point Hope, Kivalina, Wales, and St. Lawrence Island.

The cornerstone of this program is to hire local Inupiat residents to provide the North Slope communities with a collective voice to communicate subsistence concerns to Shell. The program components also enable Subsistence Advisors from the various North Slope coastal communities to receive training and participate in economic opportunities related to oil and gas exploration and development. Since many Inupiat residents of the North Slope are experienced subsistence hunters, the inherent knowledge and skills associated with hunting subsistence prey make these individuals uniquely qualified to fulfill these responsibilities. Additionally, many Inupiat residents possess the knowledge of subsistence practices passed along through generations, collectively referred to as “traditional knowledge”, which, when documented, significantly contributes to an understanding of subsistence practices. The valuable data collected each year by the Subsistence Advisor Program builds upon preceding years and will be useful to incorporate into environmental documents and permitting processes, especially where mitigation measures may be incorporated.

2.0 Program Objectives

The overall goal of the Subsistence Advisor Program is to establish a means to avoid, minimize and mitigate adverse impacts to affected villages with regards to subsistence activities of any kind, but with particular emphasis on marine mammals taken on the open water.

The primary objectives of the Subsistence Advisor Program are to:

- Preserve the subsistence lifestyle of potentially impacted communities by documenting subsistence activities, mapping subsistence use locations, developing a database of traditional knowledge (TK), identifying and communicating potential conflicts between subsistence users and Shell industry activities, and noting observations of animal species observed or reported;
- Continue TK collection and develop a reputable database and end of season report for use in identifying and using TK in Exploration Plans and other documents;
- Establish and maintain frequent communications between subsistence users, Marine Mammal Observers (MMOs), UMIAQ Subsistence Advisor project management staff and Shell;
- Communicate the program objectives to respective community members to create an active awareness of and encourage participation in the Subsistence Advisor Program;
- Attend relevant meetings on behalf of Shell and subsistence users for each respective village; and
- Develop the talent of the Subsistence Advisor workforce in order to promote a rural workforce and improve the economic stability of rural communities.

3.0 Subsistence Advisor Responsibilities

Responsibilities of the Village Subsistence Advisors include routine tasks and non-routine or “special” work tasks. A field gear kit will be issued to each Subsistence Advisor to allow them to complete their work tasks and will include guidance and recordkeeping tools. Routine and special tasks are described below.

- Routine Tasks – Routine tasks include daily visual surveys, daily weather observations, daily subsistence reports, and subsistence use/traditional knowledge interviews. Forms for routine tasks are provided in Appendix A of this handbook and additional details are listed below:
 1. A daily visual survey shall be performed of the community haul out/small boat/all-terrain vehicle area. This will be useful in order to initiate discussions with subsistence users and to note anything common and unusual such as animal sightings or atypical ice conditions that may affect subsistence activities. A field log book shall be used to take notes (to be provided during the training workshop). A Weekly Summary Report (Form A-1 in Appendix A) shall be completed on a daily basis, and turned in each week by fax or email with the corresponding Weekly Timesheet (Form A-2 in Appendix A) by 4:00 pm AST on Friday of the week worked.
 2. Daily weather observations shall be performed and recorded twice per day (morning and evening). The reporting form for the weather data, the Weekly Weather Report, is provided as Form A-3 in Appendix A. These reports are to be completed daily and turned in each week by 4:00 pm AST on Friday for the week’s activities. The weather reports will be beneficial to validate the accuracy of Shell’s Ice and Weather Forecasting data used to support offshore operations in the Beaufort and Chukchi Seas.

3. Daily Harvest Reports (Form A-5 in Appendix A) should be filled out for each harvest. These reports are to be completed daily and turned in each week by 4:00 pm AST on Friday for the week's activities. Harvest numbers should be unique (starting from harvest 1, numbered consecutively). Subsistence Advisors should interview local residents on a daily basis to obtain subsistence hunting and fishing information on harvests. Harvest locations should be recorded on the map provided (Form A-6).
 4. Participation in conference calls is required at 11:00 am AST on Tuesdays. Beginning in April 2012, all Subsistence Advisors and Program Managers will participate in a weekly teleconference to discuss subsistence activities, TK data gathering approaches and any problems that need to be discussed. The toll-free call in number for the weekly meetings will be provided by the UMIAQ Supervisor.
- Special Tasks – Special tasks include documenting animal sightings, attending meetings, and collecting subsistence hunting and fishing data. Forms for special tasks are provided in Appendix B of this handbook and additional details are listed below:
 1. When any animals are sighted, it should be documented whether the animals are alive, dead, and healthy or injured, what their behavior was (normal or irregular) and the location, in the greatest detail, of where the animal was spotted, an Animal Sighting Log Form shall be completed. A blank template of the Animal Sighting Log Form is provided as Form B-1 in Appendix B.
 2. Throughout the season, Subsistence Advisors may be asked to attend meetings in their home village, a neighboring village, Barrow, or Anchorage. For example, several Subsistence Advisors attended a Shell workshop on Oil Spill Prevention that was conducted in Wainwright on July 8-9, 2009. For these meetings, notes should be taken using the Meeting Notes form, Form B-2 in Appendix B.
 3. Tracking subsistence activities throughout the open water season and maintaining a status report indicating the start and end dates of each subsistence season. This is especially critical during the spring and fall bowhead whaling season, the summer and fall sea mammal seasons and fall caribou season. The seasonal information and quota status should be communicated to the MMOs onboard vessels in the open water via VHF radio. A blank copy of the 2012 Subsistence Hunting Status Report is provided as Form B-3 in Appendix B.
 4. Communicating information from the MMOs to the community for which they are responsible. This information will include, but not be limited to, locations of vessels in the Beaufort and Chukchi Seas and reporting on conflicts that occur during the subsistence season.
 5. Subsistence Advisors will attend a two-day end-of-season workshop in Anchorage in December 2012. The workshop will consist of a "lessons learned" session and a one-day Marine Mammal Commissioners Meeting (date to be determined).

Note: If subsistence use conflicts remain unresolved and/or if the SA is unable to contact Shell, call BOEM directly at (855) 334-5297.

The following provides an example of a typical work week and highlights key work tasks that must be performed by all Subsistence Advisors – use this as a guide to plan out your work week.

Sample Work Week Guide

Monday

- Take morning weather readings (record on Form A-3)
- Perform daily visual survey
- Develop a list of people to interview this week
- Interview Subsistence Hunters (record Daily Harvests on Form A-4 and location on Form A-5)
- Take afternoon weather readings (record on Form A-3)
- Record daily observations on Weekly Summary Report (Form A-1)

Tuesday

- Take morning weather readings (record on Form A-3)
- Perform daily visual survey
- **Attend Subsistence Advisor Teleconference at 11:00 am; (number to be provided by UMIAQ Supervisor)**
- Interview Subsistence Hunters (record Daily Harvests on Form A-4 and location on Form A-5)
- Take afternoon weather readings (record on Form A-3)
- Record daily observations on Weekly Summary Report (Form A-1)

Wednesday

- Take morning weather readings (record on Form A-3)
- Perform daily visual survey
- Interview Subsistence Hunters (record Daily Harvests on Form A-4 and location on Form A-5)
- Take afternoon weather readings (record on Form A-3)
- Record daily observations on Weekly Summary Report (Form A-1)

Thursday

- Take morning weather readings (record on Form A-3)
- Perform daily visual survey
- Interview Subsistence Hunters (record Daily Harvests on Form A-4 and location on Form A-5)
- Take afternoon weather readings (record on Form A-3)
- Record daily observations on Weekly Summary Report (Form A-1)

Friday

- Finalize Weekly Summary Report (Form A-1), and Weekly Timesheet (Form A-2) for the week
- Take morning weather readings (record on Form A-3)
- Perform daily visual survey
- Interview Subsistence Hunters (record Daily Harvests on Form A-4 and location on Form A-5)
- Take afternoon weather readings (record on Form A-3)
- Submit weekly report and completed timesheet to UMIAQ supervisor by fax or email (**by 4:00 pm**)
- Fax or email weather reports (Form A-3) and any other data collected for the week (i.e. Form A-4).

Appendix A
Routine Recordkeeping Forms

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Form A-1 Weekly Summary Report

Subsistence Advisor: «SA» _____

Today's Date: _____

Village: «Village» _____

Week Ending Date (Sunday): «WE_Date» _____

Number of Subsistence Hunters Interviewed: _____

Number of Animals Observed: _____

Did you go to meetings this week? Yes No
Circle one.

Meeting Date: _____

Meeting Location: _____

Purpose of the meeting?
List additional meetings on the back.

List the things you accomplished this week as a Subsistence Advisor.

Monday
«Monday» _____

Tuesday
«Tuesday» _____

Wednesday
«Wednesday» _____

Thursday
«Thursday» _____

Friday
«Friday» _____

Saturday
«Saturday» _____

Sunday
«Sunday» _____

Please share comments concerning Subsistence Activities.

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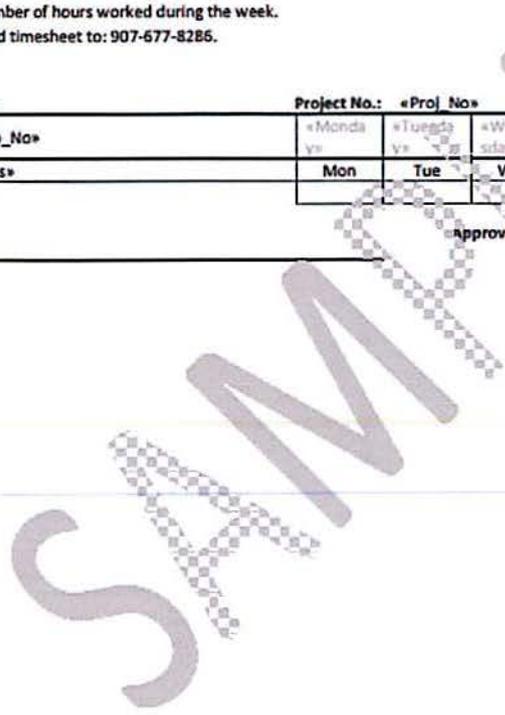
A-2 Weekly Timesheet

1. Confirm that your Employee Number and the dates you worked are correct.
2. Enter the number of hours worked each day.
3. Enter the total number of hours worked during the week.
4. Fax your completed timesheet to: 907-677-8285.

Employee Name: «SA» Project No.: «Proj No» TO Week Ending: «WE Date»

Employee No.: «Emp_No»	«Monda ye	«Tueda ye	«Wedne days	«Thursda ye	«Friday»	«Saturda ye	«Sunday »	
Classification: «Class»	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Total

Employee Signature: _____ approved by: _____



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Form A-3. Weekly Weather Report

Subsistence Advisor: «SA»
 Village: «Village»

Today's Date: _____
 Week Ending Date (Sunday): «WE_Date»

Day and Date	Morning and Evening Readings	Cloud Coverage (See Chart)	Visibility (See Chart)	Wind Direction	Temperature (Fahrenheit)	Present Weather (See Chart)
Example:						
Monday	am: 8:00	CLR	10.0	NE	20	Sunny
4/16/12	pm: 5:00	OVC	1.0	NW	15	Snow 2
Monday	am:					
«Monday»	pm:					
Tuesday	am:					
«Tuesday»	pm:					
Wednesday	am:					
«Wednesday»	pm:					
Thursday	am:					
«Thursday»	pm:					
Friday	am:					
«Friday»	pm:					
Saturday	am:					
«Saturday»	pm:					
Sunday	am:					
«Sunday»	pm:					

Cloud Coverage	
If you see:	Write:
No clouds	Clear (CLR)
0-20% Coverage	Few (F)
30-50% Coverage	Scattered (SC)
60-90% Coverage	Broken (BK)
100% Coverage	Overcast (OVC)

Visibility	
If you can see:	Write:
One-half mile	0.5
One mile	1.0
Ten miles	10.0

Present Weather	Severity Level
Drizzle	1. Continuous 2. Not Freezing 3. Slight Freezing 4. Moderate to Thick Freezing
Fog	1. Patches 2. Light 3. Sky is Covered
Rain	1. Showers 2. Moderate to Heavy Showers 3. Continuous 4. Slight Freezing 5. Ice Needles 6. Freezing Moderate to Heavy
Snow	1. Intermittent 2. Light Showers 3. Moderate to Heavy Showers 4. Snow Pellets 5. Blizzard
Sunny	

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Form A-4 2012 Daily Harvest Report
Harvest Number(s): _____



Subsistence Advisor: «SA» _____
 Village: «Village» _____
 Hunter Name: _____

Today's Date: _____
 Week Ending Date (Sunday): «WE Date» _____
 General Location of Harvest: _____

	Species	Gender	Number Taken	Specific Location
Big Game	<input type="checkbox"/> Caribou/Reindeer (Tuttu)	<input type="checkbox"/> Male		
	<input type="checkbox"/> Black Bear (Iggagri)	<input type="checkbox"/> Female		
	<input type="checkbox"/> Brown Bear (Akiag)			
	<input type="checkbox"/> Dall Sheep (Imnaiq)			
	<input type="checkbox"/> Moose (Tuttuvak)			
	<input type="checkbox"/> Muskox (Uminmak)			
	<input type="checkbox"/> Other _____			
Furbearers	<input type="checkbox"/> Arctic (White) Fox (Tigiganniq)	<input type="checkbox"/> Male		
	<input type="checkbox"/> Red Fox (Kayuqtuq)	<input type="checkbox"/> Female		
	<input type="checkbox"/> Silver Fox (Qigniqtaq)			
	<input type="checkbox"/> Snowshoe Hare (Ukaltiq)			
	<input type="checkbox"/> Lynx (Niutuiyiq)			
	<input type="checkbox"/> Ground Squirrel (Sikaik)			
	<input type="checkbox"/> Wolf (Amaguuq)			
	<input type="checkbox"/> Wolverine (Qavvik)			
	<input type="checkbox"/> Other _____			
Marine Mammals	<input type="checkbox"/> Beluga (Qqalugaq Sisuaq)	<input type="checkbox"/> Male		
	<input type="checkbox"/> Bowhead (Agviq)	<input type="checkbox"/> Female		
	<input type="checkbox"/> Bearded Seal (Ugruk)			
	<input type="checkbox"/> Ringed Seal (Natr)			
	<input type="checkbox"/> Spotted Seal (Qas)			
	<input type="checkbox"/> Young Seal (Natchiq)			
	<input type="checkbox"/> Polar Bear (Nanuq)			
	<input type="checkbox"/> Walrus (Ukuk)			
	<input type="checkbox"/> Other _____			
Waterfowl	<input type="checkbox"/> Geese (Nigic)	<input type="checkbox"/> Male		
	<input type="checkbox"/> Ducks	<input type="checkbox"/> Female		
	<input type="checkbox"/> Other _____			
Fish	<input type="checkbox"/> Arctic Char (Iqalu'atij)	<input type="checkbox"/> Male		
	<input type="checkbox"/> Arctic Cisco (Qaakta)	<input type="checkbox"/> Female		
	<input type="checkbox"/> Arctic Whitefish (Aqutalidiq)			
	<input type="checkbox"/> Burbot (Tittaaq)			
	<input type="checkbox"/> Chum Salmon (Iqalugruaq)			
	<input type="checkbox"/> Grayling (Sukukpaugaq)			
	<input type="checkbox"/> King Salmon (Iqalugruaq)			
	<input type="checkbox"/> Silver (Coho) Salmon (Iqalukpak)			
	<input type="checkbox"/> Trout (Iqaluaqpak)			
	<input type="checkbox"/> Other _____			

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Appendix B
Special Use Recording Forms

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B-2 Meeting Notes



Subsistence Advisor: «SA»
Village: «Village»

Today's Date: _____
Week Ending Date (Sunday): «WE_Date»

Meeting Location:	Date:
Meeting Purpose:	
Attendees: <i>Use back for more room.</i>	
Notes:	

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B-1 Animal Sighting Log



Sighting Number(s): _____
 For sightings only. Use A-S for animals harvested.

Subsistence Advisor: «SA» _____
 Village: «Village» _____

Today's Date: _____
 Week Ending Date (Sunday): «WE_Date» _____

English Name	Inupiaq Name	Gender	Age	Health	Number Observed
		<input type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> Young <input type="checkbox"/> Adult <input type="checkbox"/> Old	<input type="checkbox"/> Healthy <input type="checkbox"/> Sick <input type="checkbox"/> Dead	
Where was the animal observed? Please be as accurate as possible and mark the location on the map.					
Did the animal react to human activity? <input type="checkbox"/> Yes <input type="checkbox"/> No					
If there were people near the animal, what were they doing? Example: The people were just driving by.					
How was the animal reacting to them? Example: It was not afraid of them.					
Your comments or other observations:					

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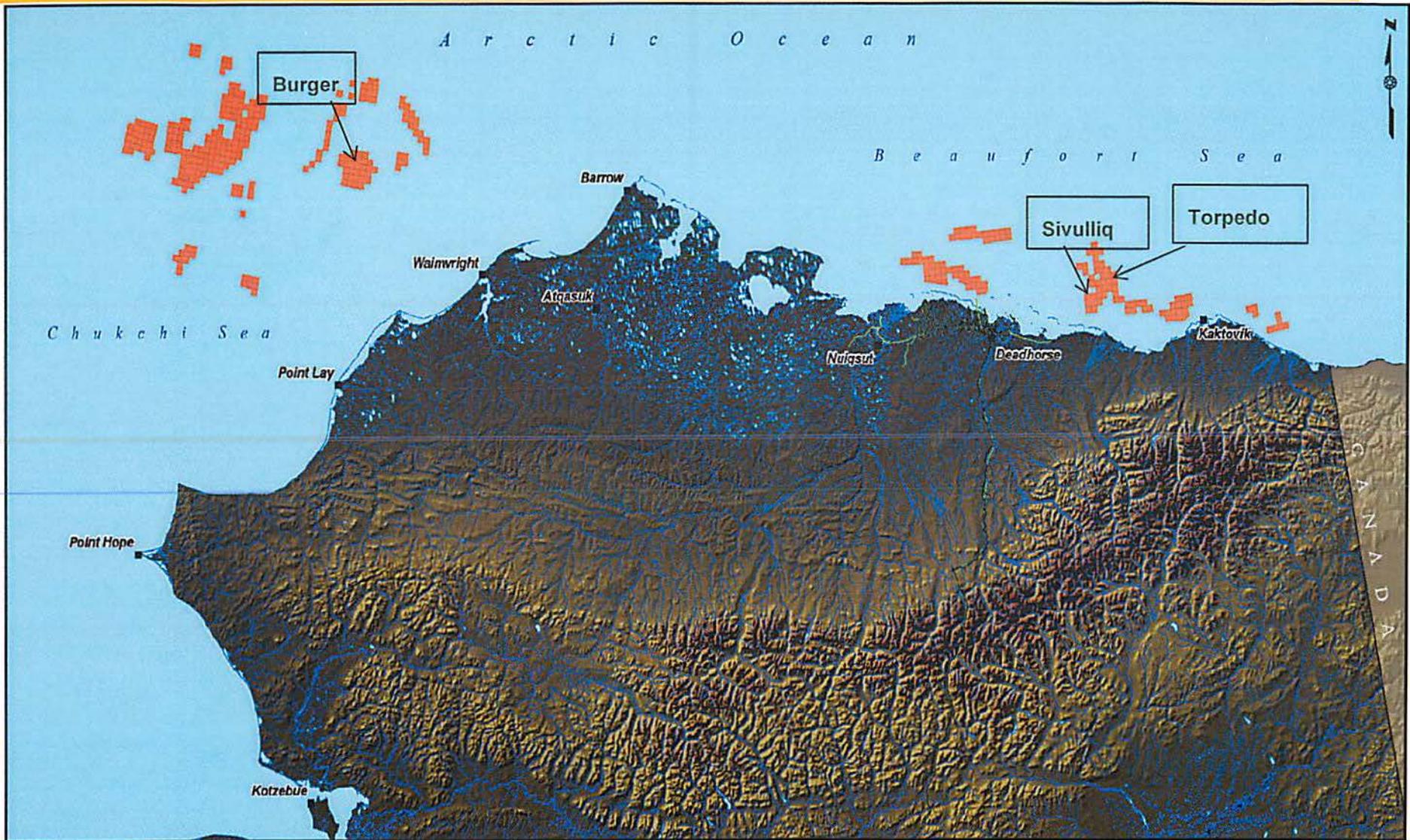




Shell's Alaska Venture Drilling Program Update & Onshore Survey Program Review

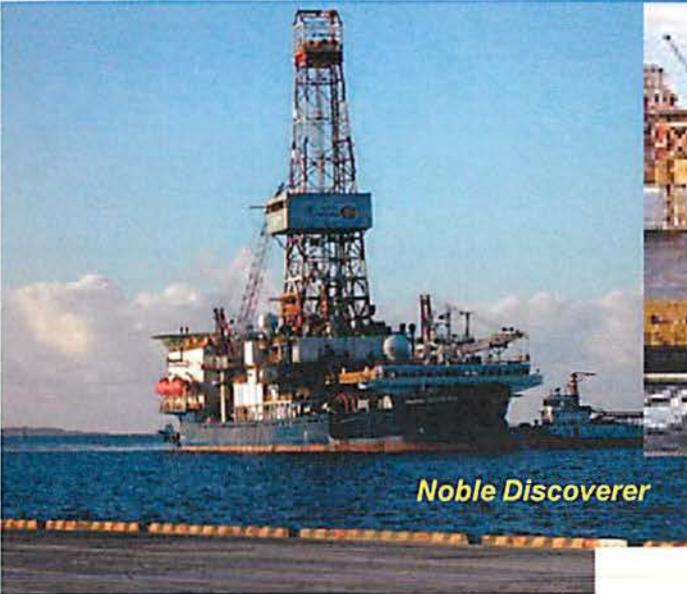
March, 2012

Chukchi and Beaufort Seas

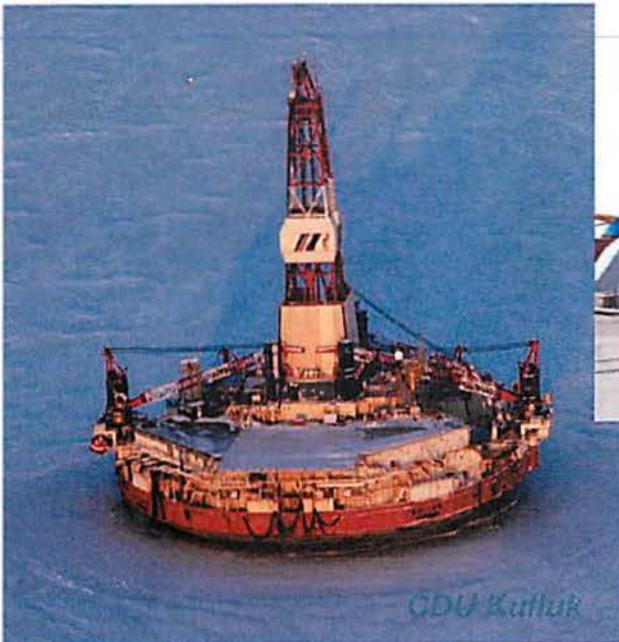


Burger to Barrow	140 miles	Burger to Point Hope	206 miles	Kaktovik to Topedo	55 miles
Burger to Wainwright	78 miles			Nuiqsut to Sivulliq	118 miles
Burger to Point Lay	92 miles			Barrow to Sivulliq	256 miles

2012-13 Proposed Operations



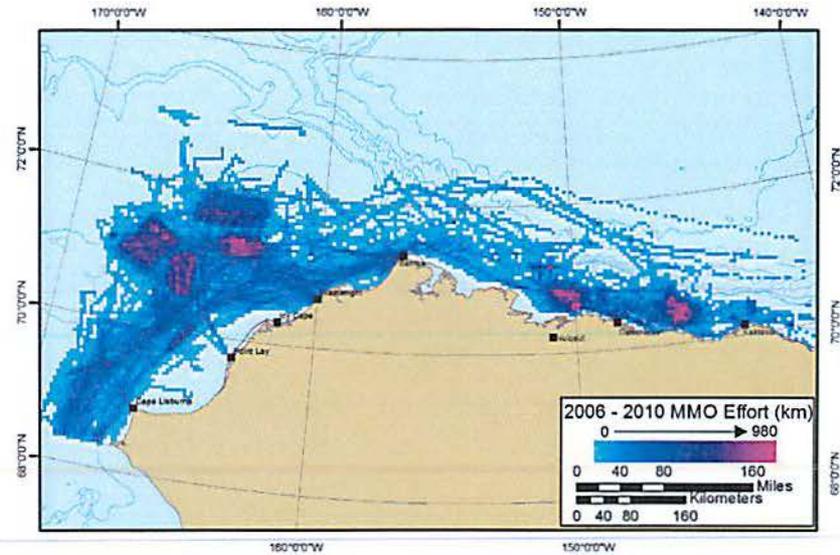
- **Chukchi Sea: Drill up to three wells per year during open water drilling season (July-October)**



- **Beaufort Sea: Drill up to two wells per year during open water drilling season (July-October)**

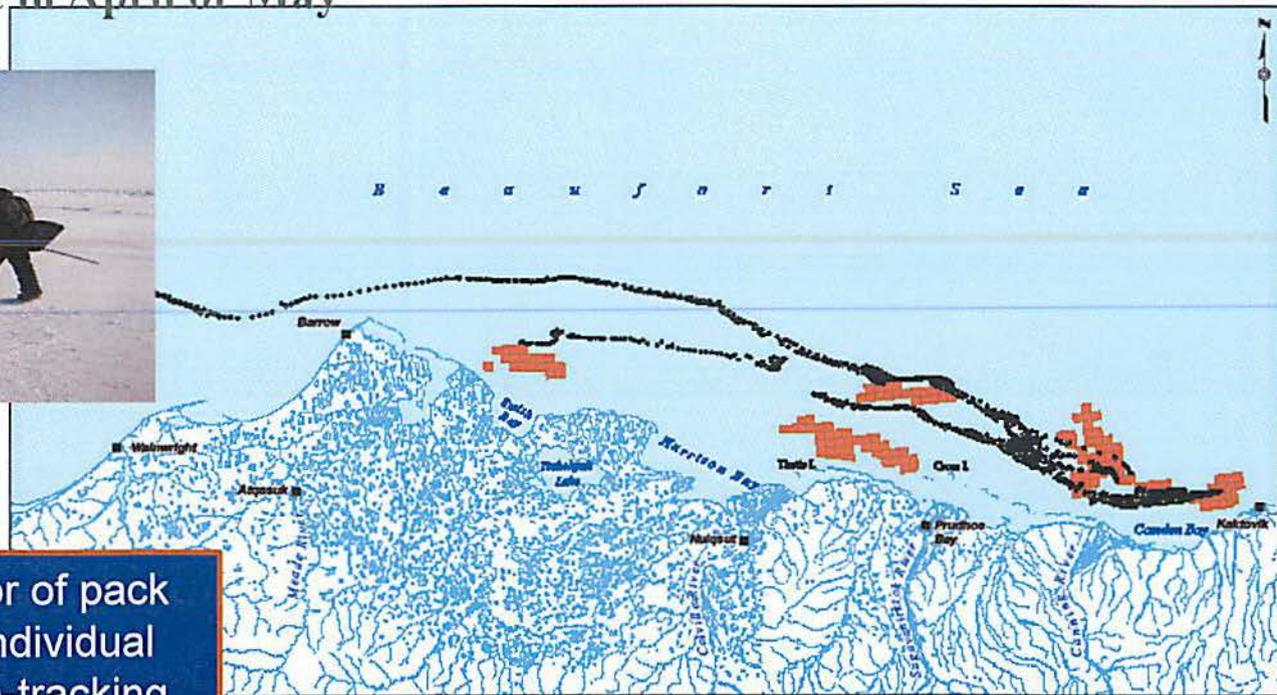
2012-13 Science Program

- **Joint Industry Program**
 - Offshore ecological studies
- **Mammal Monitoring Program**
- **Ice & Metocean Buoys**
- **On-shore and Near shore ecological studies**
 - Continued from 2010 and 2011
- **Drilling Monitoring**



On-ice Buoy Deployment

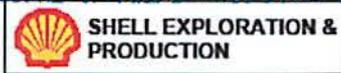
- Four data buoys in Camden Bay and three in Harrison Bay
- John Ningeok as Inupiat Traditional Knowledge Advisor
- Little ice movement since deployment
- Possible deployment in April or May



To understand the behavior of pack ice and observe detail of individual floes, Shell places position-tracking buoys directly on the ice.

- BUOY**
- 78223
 - 78224
 - 78225
 - 78226
 - 25430

- Village
- Shell OCS Lease Block



2008 BUOY MONITORING
4 February 2008 - 10 May 2008

SCALE:
0 15 30 60 Miles

FIGURE:
1

Community Meetings

2011 Plan of Cooperation meetings:

- Kaktovik
- Nuiqsut
- Barrow
- Wainwright
- Point Lay
- Point Hope
- Kivalina
- Kotzebue
- Kiana
- Shishmaref
- Gambell
- Savoonga

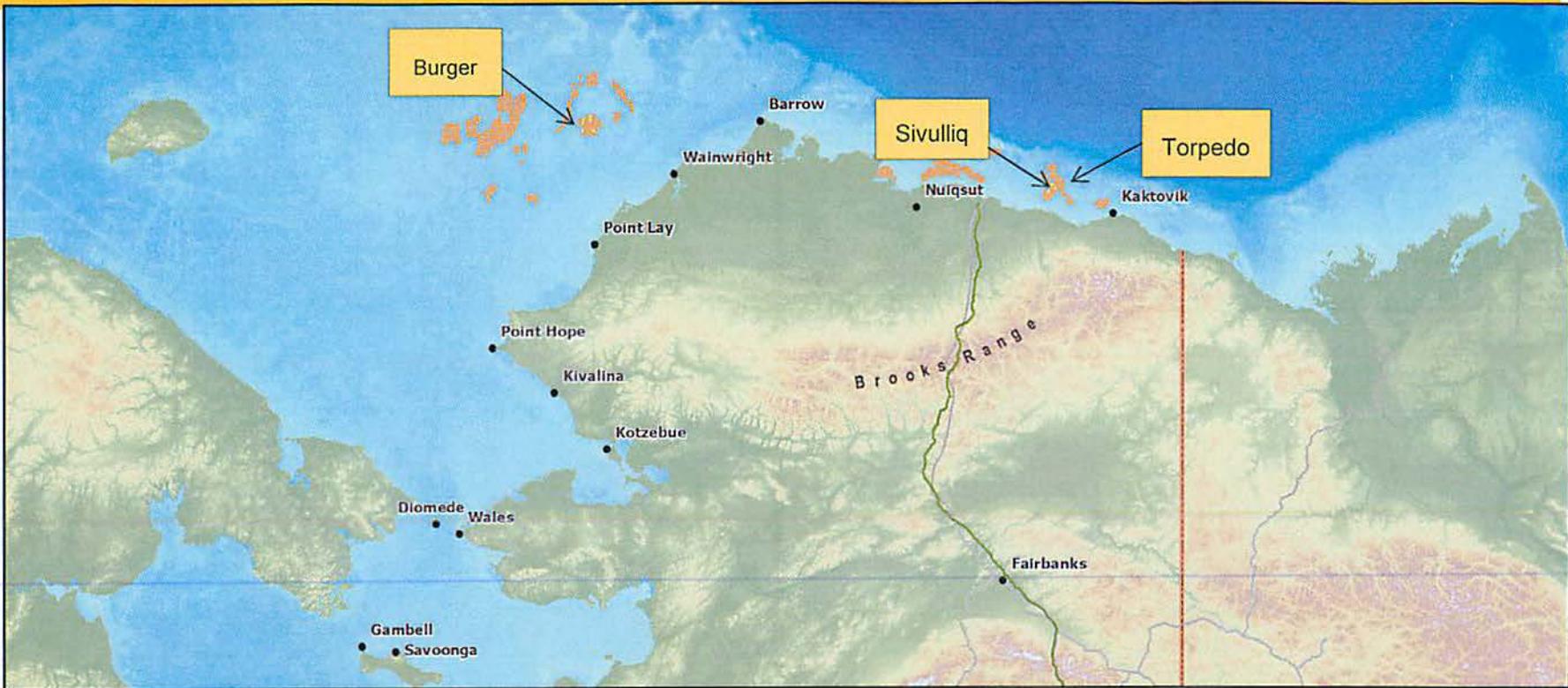


2012 Village Visits:

- Kaktovik
- Nuiqsut
- Barrow
- Wainwright
- Point Lay
- Point Hope
- Atqasuk
- Anaktuvuk Pass
- Kivalina
- Kotzebue
- Wales
- Gambell
- Savoonga



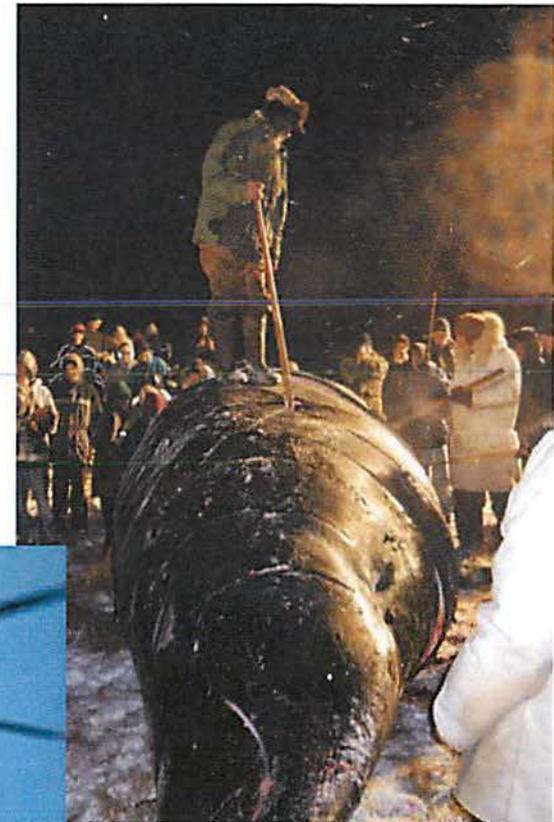
Shell's 2012 Drilling Program



Community	Mitigation Measures	Community	Mitigation Measures
Barrow	Com Center, SA (Subsistence Advisor), CLO (Community Liaison Officer), transit offshore	Point Hope	Com Center, SA, CLO
Kaktovik	Com Center, SA, CLO, cease program 8/25 until after bowhead whale hunt, crew change by helicopter sensitive to subsistence hunting	Point Lay	Com Center, SA, CLO, sensitivity to beluga hunt
Nuiqsut	Com Center, SA, CLO, cease program 8/25 until after bowhead whale hunt, zero discharge at Camden Bay well-sites	Kivalina & Kotzebue	Com Center, CLO, SA, sensitivity to beluga hunt
Wainwright	Com Center, SA, CLO	St. Lawrence Island	Com Center, SA
		Wales	Com Center, SA
		Diomedes	SA

Mitigation Commitments

- Capping stack and Arctic Containment System
- Real time Ice and Weather Forecasting
- Crew change by helicopter and collaboration on routes to and from operations
- Barrow, Deadhorse, and Wainwright shore bases
- Full OSR capabilities for each sea
- Second rig relief well capability



2012 ONSHORE/NEAR SHORE FIELD STUDIES

- Hydrology/Hydraulics
 - Spring Breakup Studies
 - Surface Hydrology
 - Coastal Processes
- Ecological Surveys
 - Habitat Assessment
 - Fish
 - Birds
- Cultural Resource Surveys
 - Archaeologist Rick Reanier





Shell's Alaska Venture Program Community Opportunities

March, 2012



Shell Commitment to the Local Economy

- Arctic Slope Regional Corporation-Energy Services and Response Operations
- UIC-Umiaq
- Tikigaq
- Olgoonik and Olgoonik- Fairweather JV
- Kikiktagruk Inupiat Corp (KIC)
- NANA Management Services
- NANA-Sivuniq
- Calista-Alaska Telecom



COMMUNITY LIAISON OFFICER



Shell Point Hope Community Liaison Officer:
Bessie Kowunna

■ Communities:

- Kaktovik
- Barrow
- Nuiqsut
- Wainwright
- Pt. Lay
- Pt. Hope*
- Kotzebue

Responsibilities

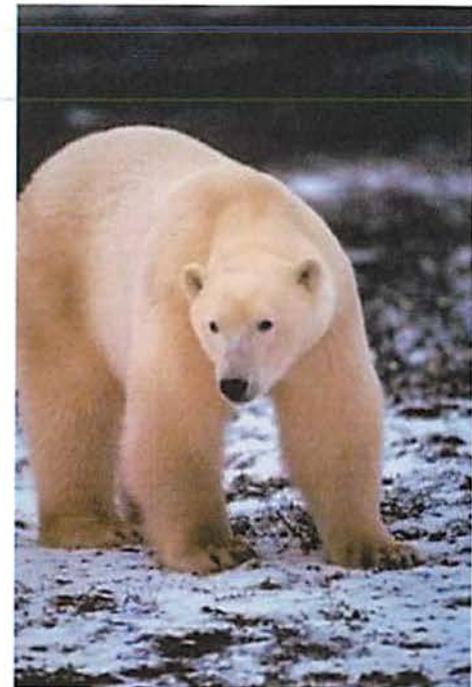
- Advise on culturally appropriate communications
- Inform on local concerns, issues and interests
- Support community meetings
- Recommend partnership opportunities
- Attend local meetings and provide notes
- Keep community apprised of Shell's plans



MARINE MAMMAL OBSERVERS

Recruiting → Training → Deployment:

- Recruiting throughout North Slope and NW Alaska beginning in February
- Must attend and pass HUET, Shell HSSE Bundle, and 3-Day Dedicated MMO Training Course,
- HUET: March–May; Shell & MMO Training: June
- Resumes of all MMOs must be approved by NMFS prior to deployment to the vessel/airplane
- Deployment to vessel/airplane for 3-week shift
- **Monitor** for marine mammals; **Mitigate** to minimize potential impacts to marine mammals and subsistence activities; **Share** TK; **Communicate** with Comm Centers; **Report** sightings data each day



Subsistence Advisor (SA's) Program Purpose:

- Establishes two-way communication link between Shell and Subsistence Hunters to:
 - Minimize potential impacts from onshore and offshore activities to traditional subsistence resource availability
 - Avoid potential conflicts caused from activities during traditional subsistence hunting and gathering activities
 - Develop a useful database that helps Shell understand critical subsistence areas and timeframes
 - Develop Traditional Knowledge data set and implement knowledge into proactive programs plans



Subsistence Advisor (SA's) Program Jobs:

- Hiring entity: UIC Umiaq
 - Contact: Arlene Thomas, 907-677-8251
- Postings Open (May) for:
 - Nuiqsut
 - Point Hope
 - Kaktovik



2011 SA's: Isaac Akootchook, Kaktovik and Isaac Killivguk, Point Hope

- Postings for Atqasuk, Barrow, Point Lay and Wainwright have closed in preparation for onshore program beginning early May 2012.
- Shell and Umiaq will notify the City, Tribal, NSB Village Liaisons and village corporations of the job openings.

OIL SPILL RESPONSE OPPORTUNITIES-AES

■ Contact AES:

- www.AES.com
- Dave McAllister 339-5484
- Edgar Caldwell 334-1660

■ Contact Umiag:

- www.ukpik.com
- Jeff Williams 677-8268

■ Hiring Begins in March



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