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**Exploration Plan
2010 Exploration Drilling Program
Posey Blocks 6713, 6714, 6763, 6764, and 6912
Karo Blocks 6864 and 7007
Burger, Crackerjack, and SW Shoebill Prospects
OCS Lease Sale 193
Chukchi Sea, Alaska**

July 2009

Submitted to:

**U.S. Department of the Interior
Minerals Management Service
Alaska OCS Region**

Submitted by:

**Shell Gulf of Mexico Inc.
3601 C Street, Suite 1000
Anchorage, AK 99503**

Exploratory
ER854
AEWC & ICAS

SECTION 1.0 EXPLORATION PLAN CONTENTS

a) Description, Objectives, and Schedule

This 2010 Exploration Plan (EP) with appendices, including an Environmental Impact Analysis (EIA) (Section 16 and Appendix F) describe the exploration drilling activities Shell Gulf of Mexico Inc. (Shell) plans to conduct in 2010 in the Chukchi Sea Outer Continental Shelf (OCS), Alaska. Shell has identified seven lease blocks within three prospects known as Burger, Crackerjack, and Southwest Shoebill (SW Shoebill) for its 2010 Chukchi Sea EP (Table 1.a-1). Shell has identified a single potential drill site within five of these lease blocks for 2010. These five possible drill sites for exploration are addressed in this EP.

TABLE 1.a-1
Shell Lease Blocks Identified in the 2010 EP for the Chukchi Sea

| Shell Prospect | Area | Protraction | Lease Block | Shell Lease |
|----------------|-------|-------------|-------------|-------------|
| Burger | Posey | NR03-02 | 6713 | OCS-Y-2266 |
| Burger | Posey | NR03-02 | 6714 | OCS-Y-2267 |
| Burger | Posey | NR03-02 | 6763 | OCS-Y-2279 |
| Burger | Posey | NR03-02 | 6764 | OCS-Y-2280 |
| Burger | Posey | NR03-02 | 6912 | OCS-Y-2321 |
| Crackerjack | Karo | NR03-01 | 6864 | OCS-Y- 2111 |
| SW Shoebill | Karo | NR03-01 | 7007 | OCS-Y- 2142 |

Three possible drill sites (one per block) are located on three different blocks (6714, 6764 and 6912) in the Burger Prospect, one is on a single block (6864) in the Crackerjack Prospect, and one is on a single block (7007) in the SW Shoebill Prospect. Shell plans to drill exploration wells to total depth (TD) at three of these five possible drill sites in 2010 given favorable ice conditions, weather, sea state, and any other pertinent factors. Shallow hazards data have been collected at each of these drill sites, and each drill site has been reviewed for potential shallow hazards and archaeological evidence. Formal reports for each of these drill sites have been submitted to the U.S. Department of the Interior, Minerals Management Service (MMS) under separate cover. Each of these five drill sites will be permitted for drilling in 2010 to allow for operational flexibility in the event sea ice conditions prevent access to one or more locations. Shell will only drill a maximum of three (3) wells in 2010. Applications for Permits to Drill will be submitted to MMS prior to the 2010 drilling season.

The actual order of drilling activities will be controlled by a complex interplay between actual ice conditions immediately prior to a rig move, ice forecasts, any regulatory restrictions with respect to the dates of allowed operating windows, whether the planned drilling activity involves only drilling the shallow non-objective section or penetrating potential hydrocarbon zones, the availability of permitted sites having approved shallow hazards clearance, the anticipated duration of each contemplated drilling activity, and the results of preceding wells. Any of these factors, individually or in combination, may cause a predicted annual activity plan to be altered at short notice.

Given favorable conditions, it is anticipated that the initial drilling activity will begin at the Burger Prospect. If Burger is not accessible, then the next preferred location to begin the exploration drilling, if favorable conditions exist, is at the SW Shoebill Prospect. If neither the Burger nor SW Shoebill Prospects are accessible, then the Crackerjack Prospect, if open, will be the site of initial exploration drilling well. It should be noted that focus of the 2010 drilling program will be shifted immediately to the Burger Prospect as soon as it becomes safe to anchor and operate the drillship on that Prospect. Given

favorable drilling performance and subsurface results at the initial Burger drill site, another of the permitted drill sites in the Burger Prospect may be the next well drilled.

The number of actual wells that will be drilled will depend on ice conditions and the length of time available for the 2010 drilling season. The predicted “average” drilling season, constrained by prevailing ice conditions and regulatory restrictions, is long enough for two to three typical exploration wells to be drilled from spud to TD.

The ice reinforced drillship M/V *Frontier Discoverer (Discoverer)* will move into the Chukchi Sea on or about July 1 and onto the prospects when ice allows on or about July 4. Drilling will be curtailed on or before October 31 as per existing Alaska Department of Environmental Conservation (ADEC) regulations. The drillship and support vessels will exit the Chukchi Sea at the conclusion of the drilling season.

Based on past experience and current planning, Shell expects to drill up to three exploration wells during the 2010 timeframe of this EP, but the actual number may be less. The exploration wells will be plugged and abandoned in compliance with MMS regulations after drilling operations have been completed. It is likely that during the period covered by this EP that a well may be started, temporarily abandoned due to ice conditions and finished later in the same drilling season. This was an operational reality during the 1989 – 1991 Chukchi drilling campaign.

Resupply will be from Dutch Harbor, Wainwright or Barrow using a coastwise qualified vessel. Aviation operations will be conducted from Barrow and Wainwright to minimize flying time over water. These are the plans only for the 2010 exploration drilling campaign and do not reflect Shell’s longer term commitments for shorebases or other facilities needed to support future exploration drilling plans or development of any of its Chukchi Sea prospects.

b) Location

OCS Lease Sale 193 was held in February 2008 and Shell was subsequently awarded 275 leases (blocks) through a competitive bidding process. The locations of these lease blocks are depicted in Figure 1.b-1. The seven blocks identified for the three prospects (Burger, Crackerjack and SW Shoebill) contained in this exploration plan are described above in Table 1.a-1, and their locations are indicated on Figure 1.b-1. Locations of the five drill sites are indicated in Figure 1.b-2 and Figure 1.b-3 for the three prospects included in this EP. Coordinates of the surface locations of these drill sites are presented below in Table 1.b-1. Surface and bottomhole coordinates, OCS Area name and block number, lease number, distance from block line, and other information for each of the drill sites are provided on the respective OCS Plan Information Forms (MMS Form-137) in Appendix A.

TABLE 1.b-1
Proposed Drill Sites – Burger, Crackerjack, and SW Shoebill Prospects, Chukchi Sea

| Prospect | Well | Area | Block | Lease Number | ¹ Coordinates, m | | Latitude | Longitude |
|-------------|------|-------|-------|--------------|-----------------------------|------------|-------------------|--------------------|
| | | | | | X | Y | | |
| Burger | C | Posey | 6764 | OCS-Y-2280 | 563929.70 | 7912335.98 | N71° 18' 17.2739" | W163° 12' 45.9891" |
| Burger | F | Posey | 6714 | OCS-Y-2267 | 564063.30 | 7915956.94 | N71° 20' 13.9640" | W163° 12' 21.7460" |
| Burger | J | Posey | 6912 | OCS-Y-2321 | 555036.01 | 7897424.42 | N71° 10' 24.0292" | W163° 28' 18.5219" |
| Crackerjack | C | Karo | 6864 | OCS-Y-2111 | 455609.48 | 7903840.77 | N71° 13' 58.9211" | W166° 14' 10.7889" |
| SW Shoebill | C | Karo | 7007 | OCS-Y-2142 | 419386.88 | 7887070.89 | N71° 04' 24.4163" | W167° 13' 38.0886" |

Notes:

¹ Coordinate system is NAD 83 UTM Zone 3

incorporating increased greenhouse gas concentrations, have not been realized by 20th century observations of the AO/NAO patterns (Fyfe 2003). Recent studies at the Woods Hole Oceanographic Institution (WHOI) using measurements from a brain coral have indicated that anthropogenic warming does not seem to alter the polarity of oscillation phase on a multi-decadal timescale. However, the variability of phase changes appears to be increasing, which could increase the severity of storms and droughts (WHOI 2009).

The Council on Environmental Quality has issued draft guidance under NEPA indicating that climate change is a reasonably foreseeable impact of greenhouse gas (GHG) emissions. [Memorandum] In 2005, the total GHG emission from all state-wide Alaska sources was estimated to be 53 million metric tons (MMt) of carbon dioxide equivalent (CO₂eq). Large industrial sources in Alaska accounted for 20.6 MMt CO₂eq; total industrial sources accounted for 24.6 MMt CO₂eq. The Alaska oil and gas industry accounted for 15.3 MMt CO₂ of the industrial source total. For comparison the Alaska total transportation sector accounted for almost 19 MMt CO₂eq (ADEC 2008a). Preliminary estimates of GHG emissions for the Shell operations are 20,000 tons CO₂ from the *Discoverer* itself and about 55,000 tons CO₂ from the *Discoverer* and its support vessels.

There are few historic data for establishing climatic trends in the Arctic; the meteorological station density in Alaska is one station per 38,600 mi² (100,000 km²). The overall temperature trend increased during the 20th century; however, a period of decreasing temperatures occurred between the mid-1940s and mid-1960s. Between 1900 and 2003, data from the Global Historical Climatology Network database (Peterson and Vose 1997) and Climate Research Unit database (Jones and Moberg 2003) dataset indicate a warming trend of 0.16 degrees Fahrenheit (°F) (0.09 degrees Celsius[°C]) per decade (ACIA 2005).

In Northwestern North America, between 1966 and 2003, arctic temperatures increased 1.8 – 2.6 °F (1-2 °C). In Alaska, the average temperature change between 1947 and 2008 was 3.1 °F (1.7 °C); individual stations in Kodiak and Barrow recorded the lowest and highest temperature changes of 1.0 °F (0.5 °C) and 4.3 °F (2.4 °C), respectively. The most dramatic temperature change for Alaska is during the winter when the average temperature increase has been 6.0 °F (3.3°C). The increase is not linear and reflects the polarity of the PDO. A cooling stage from 1949 to 1976 abruptly changed as the PDO moved into a positive phase. Since that time, there has been very little temperature change in most of Alaska except in Barrow and Talkeetna with increases of 4.0 °F (2.2 °C) and 2.2 °F (1.2 °C), respectively, and a decrease of 2.3 °F (1.3 °C) in Kodiak (Alaska Climate Research Center 2009).

Climate models project more warming in the Arctic compared with the rest of the world (IPCC 2007). At this time there is no definitive evidence of an anthropogenic signal in the Arctic causing this warming. Data are fewer and natural fluctuations are greater in the Arctic than the rest of the world, making it challenging to detect any anthropomorphic signal (ACIA 2005). Temperature variations in Eurasian and North American regional studies are probably not due to natural variability alone (Karoly et al. 2003, Zwiers and Zhang 2003 and Stott et al. 2003) and tend to support the conclusion that temperature variations in North America and Eurasia probably are not due to natural variability alone.

Traditional knowledge can provide additional insight to arctic climate changes. Alaskan Natives who live within coastal communities along the Bering, Chukchi, and Beaufort Seas have noticed changes in the weather, oceans, and resources. Over the last 20 years, extreme weather such as strong winds and storms are increasing from Elim to Barrow (ACIA 2005). “Weather temperatures have been warmer in recent years than they have been in the past.” (Shell 2008). Warming conditions have affected sea ice as well. Increased temperatures and winds prevent the sea ice from setting up in the fall delaying the freezing season; early spring melting decreases the



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**2010 Outer Continental Shelf Lease
Exploration Plan
Camden Bay, Alaska**

June 2009

Submitted to:

**U.S. Department of the Interior
Minerals Management Service
Alaska OCS Region**

Prepared by:

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Exhibit **ER1034**
AEWC & ICAS

SECTION 1.0 PLAN CONTENTS

a) Description, Objectives and Schedule

Shell Offshore Inc. (Shell) is proposing to conduct an exploration drilling program on U.S. Department of the Interior, Minerals Management Service (MMS) Alaska Outer Continental Shelf (OCS) leases located north of Point Thomson near Camden Bay in the Beaufort Sea during the 2010 drilling season (*Camden Bay 2010 Exploration Plan*, hereinafter, “*Camden Bay 2010 EP*,” or simply, “*EP*”) (Figure 1-1).

The leases were acquired during the Beaufort Sea Oil and Gas Lease Sales 195 (March 2005) and 202 (April 2007). In this EP Shell plans to drill two wells, one each on the Torpedo prospect (NR06-04 Flaxman Island lease block 6610, OCS-Y-1941 [Flaxman Island 6610]) and the Sivulliq prospect (NR06-04 Flaxman Island lease block 6658, OCS-Y 1805 [Flaxman Island 6658]). The planned drill site locations are: Torpedo H – latitude 70° 27' 01.6193” N and longitude 145° 49' 32.0650” W; and Sivulliq N – latitude 70° 23' 29.5814” N and longitude 145° 58' 52.5284” W. All drilling is planned to be vertical; therefore bottomhole locations will have the same latitude and longitude as surface locations.

Shell plans to drill the Torpedo H drill site first, followed by Sivulliq N, unless adverse surface conditions or other factors dictate a reversal of drilling sequence. In that case, Shell will mobilize to the Sivulliq N drill site and drill this well first.

The ice reinforced drillship Motor Vessel (M/V) *Frontier Discoverer* (*Discoverer*) will be used to drill the wells. Drillship specifications for the *Discoverer* are located at the end of this section. While on location at the drill sites, the *Discoverer* will be affixed to the seafloor using eight 7-ton Stevpris anchors arranged in a radial array.

During the 2010 drilling season, the *Discoverer* will be attended by a minimum of six vessels that will be used for ice management, anchor handling, oil spill response (OSR), refueling, resupply, and servicing of the drilling operations (see Section 13.0). The ice management vessels will consist of an icebreaker and an anchor handler.

Resupply will be from West Dock to the drill sites and use a coastwise qualified vessel. An ice-capable OSR barge (OSRB), with an associated tug will be located nearby during the planned drilling program. The OSRB will be supported by a berthing vessel for the OSR crew. An OSR tanker also will be nearby for its storage capability of recovered liquids. A vessel will support the Marine Mammal Monitoring and Mitigation Plan (4MP) activities associated with the drilling program.

The *Discoverer* and associated support vessels will transit through the Bering Strait into the Chukchi Sea on or about July 1, arriving on location near Camden Bay approximately July 10. Exploration drilling activities at the Sivulliq or Torpedo drill sites are planned to begin on or about July 10 and run through October 31, 2010, with a suspension of all operations beginning August 25 for the Nuiqsut (Cross Island) and Kaktovik subsistence bowhead whale hunts. The *Discoverer* and support vessels will either leave the Camden Bay project area and will return to resume activities after the Nuiqsut (Cross Island) and Kaktovik subsistence bowhead whale hunts conclude or will leave the Beaufort Sea entirely. Activities will extend through October 31, depending on ice and weather.

Helicopters are planned to provide support for crew change, provision resupply, and search-and-rescue operations during the drilling season. The aircraft operations will principally be based in Deadhorse, Alaska. See Section 13.0 for additional information.



URL: <http://yosemite.epa.gov/R10/airpage.nsf/Permits/chukchiap>
Last updated on Friday, April 16th, 2010.

Region 10: the Pacific Northwest

You are here: [EPA Home](#) [Region 10](#) [Air Page](#) [Permits](#) chukchiap

Shell Chukchi Sea Air Permit

Final Decision to Issue an OCS/PSD Permit to Shell Gulf of Mexico Inc. for Exploration Drilling Operations in the Chukchi Sea

On this page:

- [Summary](#)
- [Final Permit](#)
- [January 2010 Proposed Air Quality Permit](#)
 - [Shell Permit Application Materials](#)
 - [EPA Responses to Initial Shell permit applications](#)
 - [Other Locations to Review Documents](#)
 - [2010 Public Comments](#)
- [August 2009 Proposed Shell OCS/PSD Air Permit](#)
 - [2009 Public Comments](#)
- [Contact Us](#)

Summary

On January 8, 2010, the Region 10 office of the United States Environmental Protection Agency (EPA) requested public comment on a proposal to issue an Outer Continental Shelf(OCS)/ Prevention of Significant Deterioration (PSD) permit to Shell Gulf of Mexico, Inc. (Shell). The proposed permit would authorize Shell to conduct a multi-year exploration drilling program with the Frontier Discoverer drillship and support fleet on Shell's current leases in Lease Sale 193 on the Chukchi Sea outer continental shelf beyond 25 miles of the State of Alaska's seaward boundary.

During the public comment period on the proposed permit, which ended on February 17, 2010, EPA received numerous written and oral comments regarding the project. EPA has carefully reviewed each of the comments submitted and, after consideration of the expressed view of all interested persons, the pertinent federal statutes and regulations, and additional material relevant to the application and contained in the administrative record, EPA has made a decision in accordance with 40 CFR 52.21 and 40 CFR Part 55 to issue a final OCS/PSD permit to the Shell Gulf of Mexico Inc. Challenges to this permit must be filed with the Environmental Appeals Board by May 3, 2010.

Shell Chukchi Final Permit

- [Final Chukchi Permit \(PDF\)](#) (62pp, 328k) - March 31, 2010
 - [Final Permit - Revised Redline Version \(PDF\)](#) (58pp, 260K) Note: This compare version was revised on April 7, 2010 because the previous compare version did not mark a few revisions in the final permit. This redlined version is a reference tool. Please refer to the final permit to ensure accuracy.
- [Response to Comments \(PDF\)](#) (155pp, 686k)
- [Transcript of Public Comment Hearing in Point Barrow, AK \(PDF\)](#) (21pp, 60k) - February 2010
- [Announcement of Final Decision \(PDF\)](#) (3pp, 24k)
- [Shell Chukchi Final Permit Summary of Changes \(PDF\)](#) (3pp, 48k)

January 2010 Proposed Air Quality Permit

- [New Modified Proposed Air Permit Public Notice and Information Sheet \(PDF\)](#) (4 pp. 234K)
- [January 2010 Proposed Permit \(PDF\)](#) (56 pp. 238K)

OCS/PSD Permits

- Outer Continental Shelf (OCS) Air Permits
- **Comment period open for:** Shell Beaufort Sea OCS/PSD permit application
- New Source Review (NSR)/Prevention of Significant Deterioration (PSD) Construction Permits
- Terminated Shell Kulluk Vessel Drilling Permit

Contact Us:

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- [January 2010 Statement of Basis for the Proposed Permit \(PDF\)](#) (160 pp. 1.9MB)

Shell Permit Application Materials:

| Date: | Document: |
|-----------------|---|
| Index File | Index of Permit Application Materials (PDF) (5 pp. 40K) |
| Dec 11, 2008 | Shell Offshore Inc. - Initial application (PDF) (80pp., 2MB) |
| Feb 23, 2009 | Shell Offshore Inc. - Replacement Application - Cover letter (PDF) (18 pp. 69K) |
| Feb 23, 2009 | Shell Offshore Inc. - Replacement Application - Revised Application (PDF) (107 pp. 1.4MB) |
| Feb 23, 2009 | Shell Offshore Inc. - Replacement Application - Appendices A-G (PDF) (431 pp. 9.9MB) Note: This document is large and may take a long time to download with a 56K modem. |
| May 18, 2009 | Shell Offshore Inc. - Response to March 12 EPA Letter of Incompleteness (PDF) (86 pp. 804K) |
| May 29, 2009 | Shell Offshore Inc. - Updated response to March 12 EPA Letter of Incompleteness (PDF) (110 pp. 884K) |
| June 1, 2009 | Shell Offshore Inc. - Supplemental Response - Additional Impact Analyses (PDF) (50 pp. 663K) |
| August 20, 2009 | Additional Permit Application Materials (PDF) (525 pp. 7MB) Note: This document is large and may take a long time to download. |
| Index File | Index of Supplemental Permit Application Submittals September – Dec 2009 (PDF) (2 pp. 25K) |
| Dec 22, 2009 | Supplemental Permit Application Submittals September – Dec 2009 (PDF) (908 pp. 13.2MB) Note: This document is large and may take a long time to download with a 56K modem. |

EPA Responses to Initial Shell permit applications:

| Date: | Document: |
|------------------|---|
| January 16, 2009 | EPA Application Incompleteness Determination letter to Shell (PDF) (1 page 28K) |
| January 16, 2009 | EPA Application Incompleteness Determination letter to Shell - Attachment A (PDF) (8 pp. 38K) |
| January 16, 2009 | EPA Application Incompleteness Determination letter to Shell - Attachment B (PDF) (5 pp. 28K) |
| March 12, 2009 | EPA Incompleteness Determination letter to Shell (PDF) (1 page 28K) |
| March 12, 2009 | EPA Incompleteness Determination letter to Shell - Attachments A and B (PDF) (6 pp. 33K) |
| July 31, 2009 | EPA Completeness Determination letter to Shell (PDF) (1 page 18K) |

Other Locations to Review Documents:

The permit record includes Shell's application, addendums and all supplemental information, all documents in the record for the first proposed permit, the new modified proposed permit and statement of basis, and all other materials relied on by EPA. The permit record for the new modified proposed permit is available at the EPA Region 10 Library, 1200 6th Ave, Seattle, Wash., 9 am–12 pm and 1 pm–4 pm Monday-Friday. The permit application, the new modified proposed permit and statement of basis, and the first proposed permit and statement of basis will also be available at the locations listed below.

- **Barrow City Office**, 2022 Ahkovak Street, Barrow, Alaska, 907-852-4050
- **Wainwright City Office**, 1217 Airport Road, Wainwright, Alaska, 907-763-2815
- **Atkasuk City Office**, 5010 Ekosik Street, Atkasuk, Alaska, 907-633-6811
- **Kali School Library**, 1029 Ugrak Ave, Point Lay, Alaska, 907-833-2312
- **Point Hope City Office**, 530 Natchiq Street, Point Hope, Alaska, 907-368-2537
- **EPA Alaska Office**, Federal Building, 222 West 7th Ave, Anchorage, Alaska, 907-271-5083

If you would like to be added to our **mailing list** to receive future information about this permit or other OCS permitting in Alaska, contact [Suzanne Skadowski](mailto:skadowski.suzanne@epa.gov) (skadowski.suzanne@epa.gov) at (206) 553-6689.

| 2010 Public Comments: | |
|---|-------------------|
| Comments | Submittal Date |
| ConocoPhillips Company (PDF) (70pp, 3.4MB) | February 17, 2010 |
| Center for Biological Diversity (PDF) (5pp, 70K) | February 17, 2010 |
| Alaska Wilderness League, et. al. (PDF) (36pp, 188K) - Alaska Wilderness League; Audubon Alaska; Center for Biological Diversity; Earthjustice; Natural Resources Defense Council; Northern Alaska Environmental Center; Pacific Environment; Ocean Conservancy; Oceana; Sierra Club; REDOIL; World Wildlife Fund | February 17, 2010 |
| Alaska Department of Environmental Conservation (PDF) (1pp, 36K) | February 17, 2010 |
| Alaska Eskimo Whaling Commission, et. al (PDF) (434pp, 12MB) - Alaska Eskimo Whaling Commission (AEWC); Inupiat Community of the Arctic Slope (ICAS); North Slope Borough (NSB) | February 17, 2010 |
| Northwest Arctic Borough (PDF) (7pp, 182K) | February 17, 2010 |
| Georgia Skjelstad (PDF) (2pp, 53K) | February 16, 2010 |
| Minerals Management Service (PDF) (6pp, 211K) | February 12, 2010 |
| Charles Aanalliaq Okakok (PDF) (2pp, 40K) | February 11, 2010 |
| Steven Barry (PDF) (1pp, 36K) | February 2, 2010 |
| Shell Gulf of Mexico Inc. (PDF) (25pp, 776K) | February 1, 2010 |
| Richard Braun (PDF) (1pp, 35K) | January 15, 2010 |
| Thomas Wood (PDF) (1pp, 85K) | January 8, 2010 |

August 2009 Proposed Shell OCS/PSD Air Permit:

Documents:

| |
|---|
| Proposed Air Permit Information Sheet (PDF) (3 pp. 186K) |
| Proposed Permit (PDF) (50 pp. 250K) |
| Statement of Basis for Proposed Permit (PDF) (86 pp. 716K) |
| Statement of Basis Appendix A (PDF) (21 pp. 314K) |
| Statement of Basis Appendix B (PDF) (20 pp. 219K) |
| Statement of Basis Appendix B: Figures and Tables (PDF) (31 pp. 973K) |
| Printable Public Notice (PDF) (1pp. 24K) - August 20, 2009 |
| Printable Public Notice Extension (PDF) (1 pp. 23K) - October 2, 2009 |

| 2009 Public Comments | | |
|---|----------------------------------|---|
| Commenter | Submittal Date | Comments |
| Shell Gulf of Mexico, Inc. | September 18, 2009 | Shell comments on Proposed Discoverer/Chukchi OCS/PSD Permit (PDF) (67 pp. 756K) |
| Shell Gulf of Mexico, Inc. | September 18, 2009 | Wainwright Near-Term Ambient Air Quality Monitoring 3rd Quarter Data Report May-July 2009 (PDF) (82 pp. 3.2MB) |
| Cora Apkik | September 22, 2009 | Cora Apkik's Comments (PDF) (1 page 51K) |
| Marjorie Angashuk | September 22, 2009 | Marjorie Angashuk's Comments (PDF) (1 page 22K) |
| Linda Leary | September 25, 2009 | Linda Leary's Comments (PDF) (1 page 35K) |
| EarthJustice | September 28, 2009 | EarthJustice's request for extension of October 5th comment period deadline for written comments (PDF) (2pp. 24K) |
| Dave Harbour | September 28, 2009 | Dave Harbour's Comments (PDF) (12 pp. 116K) |
| Doreen Lampe | September 28, 2009 | Doreen Lampe's (Inupiat Community of the Arctic Slope Government) Comments (PDF) (1 page 33K) |
| Native Village of Point Hope | September 28, 2009 | Native Village of Point Hope's request for extension of October 5th comment period deadline for written comments (PDF) (1 page 17K) |
| Representative Charisse Millett | September 28, 2009 | Representative Charisse Millett's Comments (PDF) (2 pp. 34K) |
| Resource Development Council for Alaska | September 28, 2009 | Resource Development Council for Alaska's Comments (PDF) (2 pp. 143K) |
| Compiled Email Comments | September 25, 2009 to October 1, | Compiled emailed comments from September 25, 2009 to October 2, 2009 (PDF) (27pp. 208K) |

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| | 2009 | |
| Chris Birch, NANA Development Corp. | October 1, 2009 | Chris Birch's (NANA Development Corp.,) comments (PDF) (6 pp. 162K) |
| John Goll, Minerals Management Service | October 2, 2009 | John Goll's (Minerals Management Service) comments (PDF) (4 pp. 143K) |
| Steven Borrell, Alaska Miners Association | October 5, 2009 | Steven Borrell's (Alaska Miners Association) comments (PDF) (1 page 35K) |
| Roger Jenkins | October 5, 2009 | Roger Jenkins' comments (PDF) (1 page 37K) |
| James Winegarner, Alaska Brooks Range Petroleum Corp | October 5, 2009 | James Winegarner's (Alaska Brooks Range Petroleum Corp) comments (PDF) (1 page 48K) |
| Shell Gulf of Mexico | October 8, 2009 | Shell Gulf of Mexico's comments (PDF) (61 pp. 318K) |
| Thomas B. Wood | October 8, 2009 | Thomas B. Wood's comments {profanity redacted} (PDF) (1 page 31K) |
| Compiled email comments Oct 2-Oct 9, 2009 | October 2, 2009 to October 9, 2009 | Compiled email comments from October 2, 2009 to October 9, 2009 (PDF) (13 pp. 307K) |
| Mark C. Nelson, ASRC Energy Services Inc. | October 13, 2009 | Mark C. Nelson's (ASRC Energy Services Inc.) comments (PDF) (2 pp. 113K) |
| Sharon Anderson, Anderson Business Consulting LLC | October 13, 2009 | Sharon Anderson's (Anderson Business Consulting LLC) comments (PDF) (1 page 68K) |
| Chukchi compiled email comments | October 14, 2009 - October 19, 2009 | Compiled email comments from October 14, 2009 to October 19, 2009 (PDF) (11 pp. 343K) |
| Chris Bell, PCE Pacific Inc. | October 14, 2009 | Chris Bell's (PCE Pacific Inc) comments (PDF) (1 page 12K) |
| Brian G. Tomlinson | October 16, 2009 | Brian G. Tomlinson's comments (PDF) (4 pp. 243K) |
| Wayne Stevens, ASCC | October 16, 2009 | Wayne Stevens' (Alaska State Chamber of Commerce) comments (PDF) (1 page 364K) |
| AEWC ICAS NSB, Combined Comments | October 20, 2009 | Alaska Eskimo Whaling Commission (AEWC), the Inupiat Community of the Arctic Slope (ICAS), and the North Slope Borough's (NSB) combined comments (PDF) (58 pp. 592K) |
| AEWC ICAS NSB, Cover Letter | October 20, 2009 | AEWC, ICAS, and NSB's comments cover letter (PDF) (4 pp. 252K) |
| AEWC ICAS NSB, Appendix A | October 20, 2009 | AEWC, ICAS, and NSB's comments Appendix A (PDF) (5 pp. 162K) |

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|---|------------------|--|
| AEWC ICAS NSB, Appendix I | October 20, 2009 | AEWC, ICAS, and NSB's comments Appendix I (PDF) (12 pp. 3.9MB) |
| AEWC ICAS NSB, Appendix II | October 20, 2009 | AEWC, ICAS, and NSB's comments Appendix II (PDF) (19 pp. 6MB) |
| AEWC ICAS NSB, Appendix III part A | October 20, 2009 | AEWC, ICAS, and NSB's comments Appendix III part A (PDF) (30 pp. 1.4MB) |
| AEWC ICAS NSB, Appendix III part B | October 20, 2009 | AEWC, ICAS, and NSB's comments Appendix III part B (PDF) (39 pp. 4MB) |
| AEWC ICAS NSB, Appendix III part C | October 20, 2009 | AEWC, ICAS, and NSB's comments Appendix III part C (PDF) (30 pp. 1MB) |
| AEWC ICAS NSB, Appendix III CARB Diesel Reduction Plan | October 20, 2009 | AEWC, ICAS, and NSB's comments background material, Appendix III, CARB Diesel Reduction Plan (PDF) (94 pp. 356K) |
| AEWC ICAS NSB, Appendix III EPA Analysis of Cost Effectiveness of Reducing Particulate Matter | October 20, 2009 | AEWC, ICAS, and NSB's background material, Appendix III, "Diesel Retrofit Technology: An Analysis..." - March 2006 (PDF) (37 pp. 1.1MB) |
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