



Brooks Range Petroleum

March 28, 2018

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DIVISION OF  
OIL AND GAS

Andrew Mack, Commissioner  
State of Alaska, Department of Natural Resources  
Division of Oil and Gas  
550 West 7<sup>th</sup> Avenue, Suite 1100  
Anchorage, Alaska 99501-3560

**Re: Southern Miluveach Unit Proposed Fifth Plan of Development Amendment**

Commissioner Mack:

Brooks Range Petroleum Corporation ("BRPC") as the Operator of the Southern Miluveach Unit (SMU) and on behalf of the Unit's Working Interest Owners submits the attached amendment to the Fifth Plan of Development ("5th POD") for the SMU.

The 5th POD is to be considered an exhibit to the unit agreement and details the proposed development activities and the plans for exploration or delineation of any land in the unit not included in a participating area, based on data reasonably available at this time.

The following information is included in the amendment:

- Updates to long-range proposed development activities for the unit, including plans to delineate all underlying oil or gas reservoirs, to bring the reservoirs into production, and to maintain and enhance production once established;
- Updates to details of the proposed operations for at least one year following submission of the plan; and
- Update to the surface location of proposed facilities, drill pads, roads, docks, causeways, material sites, base camps, waste disposal sites, water supplies, airstrips, and any other operation or facility necessary for unit operations.

BRPC is actively planning for the implementation of this project and awaits formal approval by DNR.

If you have any questions, please call me at (907) 865-5840.

Sincerely,

Bart Armfield  
President, CEO

cc: Chantal Walsh, Director, DNR Division of Oil and Gas  
Rebecca Kruse, SMU Unit Manager

Southern Miluveach Unit  
Amendment to the Fifth Plan of Development  
(5th POD)

Submitted By  
Brooks Range Petroleum Corporation

On behalf of the  
Working Interest Owners

CaraCol Petroleum LLC, TP North Slope Development, MEP  
Alaska LLC, Ramshorn Investments, Inc., AVCG, LLC,  
Mustang Road LLC, MOC1 LLC

Submitted March 28, 2018

## SOUTHERN MILUVEACH UNIT PLAN OF DEVELOPMENT

The Southern Miluveach Unit is located at the North Slope of Alaska west of the Kuparuk River Unit. It is operated by Brooks Range Petroleum Corporation ("BRPC") on behalf of the Working Interest Owners: CaraCol Petroleum LLC, TP North Slope Development, MEP Alaska LLC, Ramshorn Investments, Inc., AVCG, LLC, Mustang Road LLC, and MOC1 LLC. The Unit is comprised of five leases totaling 8,960 acres. A Unit map and lease ownership summary are attached for reference (attached - Exhibits A and B of the Southern Miluveach Unit Agreement).

In accordance with the requirements of 11 AAC 83.343 and Article 8 of the Southern Miluveach Unit Agreement, BRPC is submitting the Annual Report and the Fifth Plan of Development ("5th POD") for the Southern Miluveach Unit ("SMU") for the period January 1, 2018 through December 31, 2018. BRPC believes this satisfies the requirements of 11 AAC 83.343 including compliance under the provisions of 11 AAC 83.303.

By letter dated December 20, 2017, the Division of Oil and Gas approved the 5th POD for the period January 1st, 2018 through December 31, 2018.

In accordance with AS 38.05.035(8)(c), we request that the Director hold the specific information within the 5th POD CONFIDENTIAL as it pertains to "all geological, geophysical, and engineering data supplied, whether or not concerned with the extraction or development of natural resources;" as cited in the statute.

...

### 5th POD Update, as Proposed

#### **Amended to revise:**

1. Long-range proposed development activities for the unit, including plans to delineate all underlying oil or gas reservoirs, to bring the reservoirs into production, and to maintain and enhance production once established.

Add bullet point:

- As work continues on the permanent facility, BRPC will utilize an Early Production Facility (EPF) to bring the Mustang Field to development in late 2018 or early 2019.
  - The EPF is a modular design, fit for purpose, that is design ready and can be transported to the site and begin operations in a timely manner.
  - The EPF will have the capacity for 6,000 barrels of oil per day with a gas to oil (GOR) ratio of 1,000 and a maximum production of 1,500 bbls/day of produced water.

3. Details of the proposed operations for at least one year following submission of the plan:

**Remove bulleted items submitted October 23, 2017**

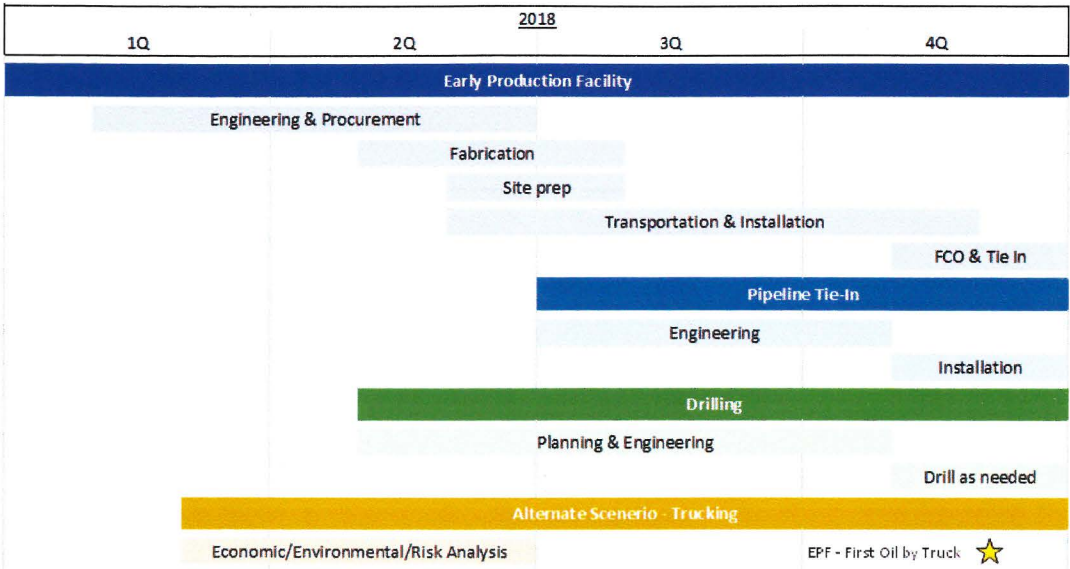
#### **Replace with:**

- *Additional on-pad piles may be installed as early as 3Q2018*
- *Cross country pipelines will be installed 4<sup>th</sup> quarter 2018 or 1<sup>st</sup> quarter 2019.*
- *CPAI-executed pipeline tie-in work will be executed 4<sup>th</sup> quarter 2018 and/or 1st quarter 2019.*
- Preparation of the Mustang Pad for installation of the EPF may begin as early as 2Q2018.
- Installation of the EPF on Mustang Pad will begin 3Q2018.
- Installation and Functional Check-out (FCO) of the EPF will be completed as early as 4Q2018.
- First oil is expected in 4Q2018 or 1Q2019.
- Produced oil from the EPF will be transported via tie-in to the common carrier Alpine Pipeline.
- Drilling activities will be conducted in a manner to best maximize recovery of the Mustang field resources and timed to best utilize the EPF, including:
  - Existing wells that are currently suspended may be a) re-perforated and stimulated and/or b) sidetracked to new bottom-hole locations.
  - Up to two new wells may be drilled depending on observed performance of existing wells.



Remove schedule as submitted October 23, 2017

Add revised schedule:



4. The surface location of proposed facilities, drill pads, roads, docks, causeways, material sites, base camps, waste disposal sites, water supplies, airstrips, and any other operation or facility necessary for unit operations:

Add map “Mustang Site Plan with Currently Planned EPF Locations”

Mustang Site Plan with Currently Planned EPF Locations

