



# UNIT PLAN OF OPERATIONS AMENDMENT APPLICATION

State of Alaska  
Department of Natural Resources, Division of Oil & Gas  
550 W. 7th Ave, Suite 1100, Anchorage, AK 99501-3563  
Phone: 907-269-8800 Fax: 907-269-8943  
Permitting Email: [dog.permitting@alaska.gov](mailto:dog.permitting@alaska.gov)



| SECTION I: APPLICANT INFORMATION                                                                                                     |                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>1. Applicant:</b>                                                                                                                 | <b>2. Applicant Contact:</b>                        |
| Name: Hilcorp Alaska, LLC                                                                                                            | First Name: Stetson Last Name: Sannes               |
| Mailing Address: 3800 Centerpoint Drive, Suite 1400                                                                                  | Title: Environmental Specialist                     |
| City: Anchorage                                                                                                                      | Mailing Address: 3800 Centerpoint Drive, Suite 1400 |
| State: AK Zip Code: 99503                                                                                                            | City: Anchorage                                     |
| Phone: 907-777-8300 Fax: 907-777-8560                                                                                                | State: AK Zip Code: 99503                           |
| Email: Enter Email.                                                                                                                  | Phone: 907-564-4665 Fax: 907-777-8560               |
| Email: Stetson.Sannes@hilcorp.com                                                                                                    |                                                     |
| <b>3. Unit Name</b> Ninilchik Unit                                                                                                   |                                                     |
| <b>4. Unit Operator Contact:</b>                                                                                                     |                                                     |
| First Name: Enter First Name. Last Name: Enter Last Name. Title: Enter Title.                                                        |                                                     |
| Mailing Address: Enter Mailing Address.                                                                                              |                                                     |
| City: Enter City. State: Enter State. Zip Code: Enter Zip Code.                                                                      |                                                     |
| Phone: Enter Phone. Fax: Enter Fax. Email: Enter Email.                                                                              |                                                     |
| Describe the relationship between the Unit Operator and the Applicant:<br>Hilcorp Alaska, LLC is the applicant and the Unit Operator |                                                     |
| <b>SECTION II: 3RD PARTY INFORMATION</b><br>(Fill out this section only if you are applying for the Applicant)                       | <b>SECTION III: APPLICATION DATE AND NUMBER</b>     |
| 3rd Party Company Name: Enter Name.                                                                                                  | Application Date (Office Use Only):                 |
| First Name: Enter First Name. Last Name: Enter Last Name.                                                                            |                                                     |
| Title: Enter Title.                                                                                                                  |                                                     |
| Mailing Address: Enter Mailing Address.                                                                                              |                                                     |
| City: Enter City.                                                                                                                    |                                                     |
| State: Enter State. Zip Code: Enter Zip Code.                                                                                        |                                                     |
| Phone: Enter Phone. Fax: Enter Fax.                                                                                                  |                                                     |
| Email: Enter Email.                                                                                                                  |                                                     |
| Describe the affiliation to the Applicant:<br>Describe your affiliation to the Applicant.                                            | Application Number: LO/CI 17-001                    |
| <b>SECTION IV: PROJECT INFORMATION</b>                                                                                               |                                                     |
| <b>1. Project Name:</b>                                                                                                              | Pearl Pad Facilities and Pipeline                   |
| <b>2. Proposed Start Date:</b>                                                                                                       | 9/1/2022                                            |
| <b>3. Project Description:</b>                                                                                                       |                                                     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------|
| Is activity discussed in the approved Plan of Development on file with the Division's Units Section? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |                                     |
| Describe what and where:<br>Hilcorp Alaska, LLC proposes to install a pipeline and gas production facilities at Pearl Pad in the Ninilchik Unit (NKU) for purposes of bringing the Pearl wells online as gas production wells in 2022. The Pearl Pad and access road were constructed on private land in 2017-2018, and the Pearl 2A delineation well was spudded and completed in 2021. Figure 1 in "Appendix A: Maps" shows the Pearl vicinity and pad location. Pearl exploration activities were authorized by Alaska Department of Natural Resources (ADNR) Division of Oil & Gas (DO&G) Lease Operations-Cook Inlet (LOCI) 17-002 on August 31, 2014 and the Pearl 2A delineation well was authorized by DOG LOCI 17-002 on August 31, 2017. Bringing the Pearl Pad to production will involve installing gas production facilities on the existing pad and constructing a gas pipeline from the pad to connect to the existing Kenai Kachemak Pipeline (KKPL) gas transmission pipeline. Figure 2 in "Appendix A: Maps" shows the Pearl Pad production facility layout and proposed gas pipeline. |                                                  |                                     |
| <b>SECTION V: LAND STATUS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |                                     |
| <b>1. State Mineral Estate:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |                                     |
| Are supplemental pages for land status included in Appendix C? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                     |
| Affected ADL: 384372      Date Effective: 1/1/2012      Date Assigned: 12/29/2011<br>Oil And Gas Lessee(s): Hilcorp Alaska, LLC<br>Surface Ownership: State of Alaska (Cook Inlet)<br>Do you have, or anticipate having an Access Agreement: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Special Use Lands: N/A<br>Jointly Managed Lands: N/A<br>Other Considerations: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |                                     |
| <b>Project Components</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Meridian, Township, Range, And Section(s)</b> | <b>GPS Coordinates</b>              |
| Well Pearl 2A Bottom Hole Location (existing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Seward, T01S, R14W, Section 14                   | Lat: 60.087142, Long: -151.628157   |
| Click here to enter text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Click here to enter text.                        | Click here to enter text.           |
| Click here to enter text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Click here to enter text.                        | Click here to enter text.           |
| <b>2. State of Alaska Surface Lands:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |                                     |
| Are supplemental pages for land status included in Appendix C? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                     |
| Oil And Gas Mineral Estate Owner: N/A<br>Access Authorization(s): N/A<br>Special Use Lands: N/A<br>Jointly Managed Lands: N/A<br>Other Considerations: N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                  |                                     |
| <b>Project Components</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Meridian, Township, Range, And Section(s)</b> | <b>GPS Coordinates</b>              |
| Click here to enter text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Click here to enter text.                        | Click here to enter text.           |
| Click here to enter text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Click here to enter text.                        | Click here to enter text.           |
| Click here to enter text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Click here to enter text.                        | Click here to enter text.           |
| <b>3. Private Lands:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |                                     |
| Are supplemental pages for land status included in Appendix C? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                     |
| Oil And Gas Mineral Estate Owner: Stephen Wackowski and Thomas Brady / Cynthia Halton<br>Surface Ownership And Access Agreement(s): Hilcorp Alaska, LLC<br>Special Use Lands: N/A<br>Jointly Managed Lands: N/A<br>Other Considerations: The pipeline will be directionally drilled under the existing Sterling Highway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |                                     |
| <b>Project Components</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Meridian, Township, Range, And Section(s)</b> | <b>GPS Coordinates</b>              |
| Pearl Pad Facilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Seward Meridian, T1S, R14W, S23                  | Lat: 60.08178 N, Long: -151.62788 W |

|                           |                                    |                                     |
|---------------------------|------------------------------------|-------------------------------------|
| Pearl Pipeline End Point  | Seward Meridian, T1S, R14W, S23-24 | Lat: 60.07907 N, Long: -151.62356 W |
| Click here to enter text. | Click here to enter text.          | Click here to enter text.           |

| SECTION VI: SEQUENCE AND SCHEDULE OF OPERATIONS |                                                             |                     |                   |
|-------------------------------------------------|-------------------------------------------------------------|---------------------|-------------------|
| Project Milestone #                             | Project Milestone                                           | Proposed Start Date | Proposed End Date |
| 1.                                              | Construct Pearl flowline                                    | 8/1/2022            | 11/1/2022         |
| 2.                                              | Install gas production facility infrastructure on Pearl Pad | 8/1/2022            | 3/1/2023          |
| 3.                                              | Begin production                                            | 11/1/2022           | 11/1/2022         |
| 4.                                              | Enter Milestone.                                            | Enter Date.         | Enter Date.       |
| 5.                                              | Enter Milestone.                                            | Enter Date.         | Enter Date.       |
| 6.                                              | Enter Milestone.                                            | Enter Date.         | Enter Date.       |
| 7.                                              | Enter Milestone.                                            | Enter Date.         | Enter Date.       |
| 8.                                              | Enter Milestone.                                            | Enter Date.         | Enter Date.       |
| 9.                                              | Enter Milestone.                                            | Enter Date.         | Enter Date.       |
| 10.                                             | Enter Milestone.                                            | Enter Date.         | Enter Date.       |

| SECTION VII: PROJECTED USE REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Describe the proposed operations, including the location and design, of <b>Well Sites</b>:</p> <p>No new well sites are proposed as part of this project. The purpose of this project is to enable gas production from existing well sites.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>2. Describe the proposed operations, including the location and design, of <b>Buildings</b>:</p> <p>Hilcorp will install production facility infrastructure on the existing Pearl Pad to support gas production from the Pearl development wells. Gas and produced fluids from the Pearl wells will be conveyed via subgrade facility piping from each well to a heater separator unit (HSU) located on the pad. Gas will then be routed to a compressor module and a glycol dehydration module, which will increase the gas pressure and remove water to meet sales specification, and produced fluid will be routed to two, 200-barrel, steel, double-walled produced water tanks located on the pad. Processed gas will be metered at the meter located inside a dehydration module prior to being transported off-pad via pipeline to tie into the KKPL transmission pipeline. Produced fluid will be routinely collected from the tanks via vacuum truck, and it will be transported to the Kenai Gas Field or NNA Pad for disposal into an active Class II disposal well. Electrical and instrumentation lines will also be installed to each well location, which will tie into the Pearl control room. Pearl will not be a manned facility, but will be monitored by personnel staged out of the Ninilchik Susan Dionne Pad Control Room. The proposed production facility layout is shown on Figure 2 in "Appendix A: Maps"; proposed infrastructure includes up to three HSU skids, two compressor skids, two dehydration units, a vent stack with a vent scrubber for venting gas when needed, and two 200-barrel double-walled produced water tanks.</p> |
| <p>3. Describe the proposed operations, including the location and design, of <b>Fuel and Hazardous Substances</b>:</p> <p>On-pad chemical/fuel storage will include the following: one 500-gallon methanol tote per well, one 500-gallon portable diesel tank, up to four 55-gallon drums of triethylene glycol, and up to four 55-gallon drums of lube oil. The dehydrator skids use triethylene glycol to remove moisture from gas; approximately 200-250 gallons of triethylene glycol is contained in each dehydration system when it is in operation (in addition to the glycol stored in drums on the pad). The floor of the dehydrator skid has built-in containment for potential leaks. The compressor skid requires use of approximately 200 gallons of lube/engine oil, which will also be contained within the skid's built-in secondary containment in case of a leak. Both the compressor and the power module have natural gas-powered engines.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>4. Describe the proposed operations, including the location and design, of <b>Solid Waste Sites</b>:</p> <p>This project does not include installing a solid waste facility. Waste will be handled consistent with Hilcorp waste management practices as follows: 1) Waste will be properly segregated and containers labeled to ensure proper disposal. 2) Closed top dumpsters will be onsite for household-type wastes; these will be emptied regularly and trash will be taken to the Kenai Peninsula Borough Landfill for disposal. 3) Oily waste will be segregated and sent to a specialty waste contractor for offsite disposal. 4) Drilling waste (muds and cuttings) generated by oil and gas drilling activities will be hauled via vacuum truck or supersucker directly from the facility to the Kenai Gas Field Grind and Inject Facility for disposal. Horizontal directional drilling (HDD) activities for pipeline installation will generate clean mud and cuttings that will be placed in an upland location. Specific locations for HDD mud and cuttings have yet to be identified.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>5. Describe the proposed operations, including the location and design, of <b>Water Supplies</b>:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Hilcorp will use fresh water as base fluid during pipeline installation by HDD (see Section VIII.6) and to hydrotest the installed pipeline. An estimated 1,000 barrels of fresh water will be used as base fluid for HDD operations, and an estimated 1,700 barrels of fresh water will be used to hydrotest the pipeline. Fresh water will be purchased from the City of Anchor Point or withdrawn from existing and permitted water wells at the Pearl Pad location or at nearby Hilcorp-operated locations.

**6. Describe the proposed operations, including the location and design, of Utilities:**

Hilcorp will install a buried 6-inch-diameter lateral gas pipeline coming from the edge of the Pearl Pad and traveling southeast to tie into the KPPL gas transmission pipeline. The pipeline will be approximately 1,150 feet in length, will traverse private land from the pad location southeast to the Department of Transportation (DOT) Sterling Highway right-of-way (ROW), under the Sterling Highway to daylight at the tie-in location south of the Sterling Highway. A gravel pad will be constructed at the pipeline tie-in location within the DOT ROW and an aboveground valve will be positioned on the gravel pad. Engineering drawings included in "Appendix C: Other" shows the pipeline route. Electrical and communications will be run to the pad from nearby existing power/cable supply. Pipeline installation will be performed by a combination of trenching and HDD construction methods. There is one proposed HDD section, a ~400 foot length beneath the historical Sterling Highway and existing Sterling Highway. Buried piping is required for the Sterling Highway crossing and the boring will allow Hilcorp to avoid impacts to the historical Sterling Highway. The remainder of the pipeline will be installed by excavating a 4-foot-wide by 6-foot-deep trench (pipe will be buried a minimum of 4 feet below ground surface). Excavated trench material will be stockpiled on the ground next to the trench and utilized as fill after the pipeline is placed. This project, including trenching and HDD, avoids wetland area entirely (refer to drawings in "Appendix C: Other").

**7. Describe the proposed operations, including the location and design, of Material Sites:**

Not applicable. If needed, material will be purchased from third-party sources.

**8. Describe the proposed operations, including the location and design, of Roads:**

Gas production will be from an existing pad with an existing access road. Minor road improvements including grading and fill in areas of need may be required, but road footprint expansion is not needed.

**9. Describe the proposed operations, including the location and design, of Airstrips:**

Not applicable.

**10. Describe the proposed operations, including the location and design, of All Other Facilities and Equipment:**

See Section VII, 1.

**11. If another permit(s) is required for the above described Projected Use Requirements, provide the following information:**

| Agency         | Permit Type        | Permit Number        | Application Status        | Projected Use Requirement(s)        |
|----------------|--------------------|----------------------|---------------------------|-------------------------------------|
| See Appendix C | Enter Permit Type. | Enter Permit Number. | Enter Application Status. | Enter Projected Use Requirement(s). |

**SECTION VIII: REHABILITATION PLAN**

**1. Proposed Level of Infrastructure, Facilities and Equipment Removal:**

After the field is no longer producing, the access road and pad will be restored/rehabilitated to the satisfaction of the surface landowner and in compliance with applicable laws and regulations.

**2. Description of Restoration and Rehabilitation Activities for Vegetation, Habitat, Impacted Wildlife, and Other Applicable Resources:**

After the field is no longer producing, the access road and pad will be restored/rehabilitated to the satisfaction of the surface landowner and in compliance with applicable laws and regulations. Impact to vegetation from trenched sections of the pipeline will be minimized to the extent practicable, and topsoil will be placed to allow natural revegetation of the pipeline corridor to occur. Pipeline maintenance will require that vegetation be cleared above the ground surface periodically within the ROW to keep trees and large shrubs from growing over the pipeline. No impact to habitat, wildlife, or other resources is anticipated. Any inadvertent impact to the aforementioned will be rehabilitated to the satisfaction of the private land owner and any applicable agencies and/or stakeholders.

**SECTION IX: OPERATING PROCEDURES DESIGNED TO MINIMIZE ADVERSE EFFECTS**

Describe operating procedures designed to prevent or minimize adverse effects on other natural resources and other uses of the Unit area and adjacent areas including:

**Fish and Wildlife Habitats:** The production facility will be installed on an existing gravel pad, which was constructed in an area that had already been disturbed by gravel extraction activities. The pipeline route will be located along an already disturbed gravel access road. The project avoids stream crossing and wetlands. Trenched sections of the pipeline will typically be no more than 4 feet in width and will be returned to pre-project contours within several weeks; therefore, Hilcorp does not anticipate any impact to wildlife habitat as a result of pipeline installation.

**Historic and Archeological Sites:** Production facility infrastructure will be installed on existing gravel pad. The pipeline route follows an already disturbed gravel access road. A cultural resources survey of the Pearl Pad and project parcel has previously been conducted by Charles M. Mobley & Associates and the report provided to the State Historic Preservation Office (SHPO). The report, dated July 2017, recommended a determination of no effect on historic properties for construction of the Pearl Pad and access road. No historic properties are located within the Pearl Pad property and the old Sterling Highway alignment will not be disturbed by pipeline construction. Pipeline installation via HDD will avoid impacting potential historic / archaeological sites by boring ~10 feet beneath the ground surface. Pipeline installation via trenching along already cleared areas is not anticipated to encounter historic/archaeological sites due to prior disturbance; however, personnel will stop work and immediately notify the State Historic Preservation Office (SHPO) if any suspected historic/archaeological resources are encountered during project activities.

**Public Use Areas:** Public use areas will not be impacted by the proposed project, as this project occurs on private lands.

**Other Uses:** None

#### SECTION X: GLOSSARY OF TERMS

| Term # | Term | Term Definition                    |
|--------|------|------------------------------------|
| 1.     | HDD  | Horizontal Directional Drilling    |
| 2.     | HSU  | Heater Separator Unit              |
| 3.     | ROW  | Right-of-Way                       |
| 4.     | KKPL | Kenai Kachemak Pipeline            |
| 5.     | SHPO | State Historic Preservation Office |

#### SECTION XI: CONFIDENTIALITY

The undersigned hereby requests that each page/section of this application marked confidential be held confidential under AS 38.05.035(a)(8).

APPLICANT CONTACT:

Sign here.

Enter Name.

Enter Title.

Enter Date.

Signature

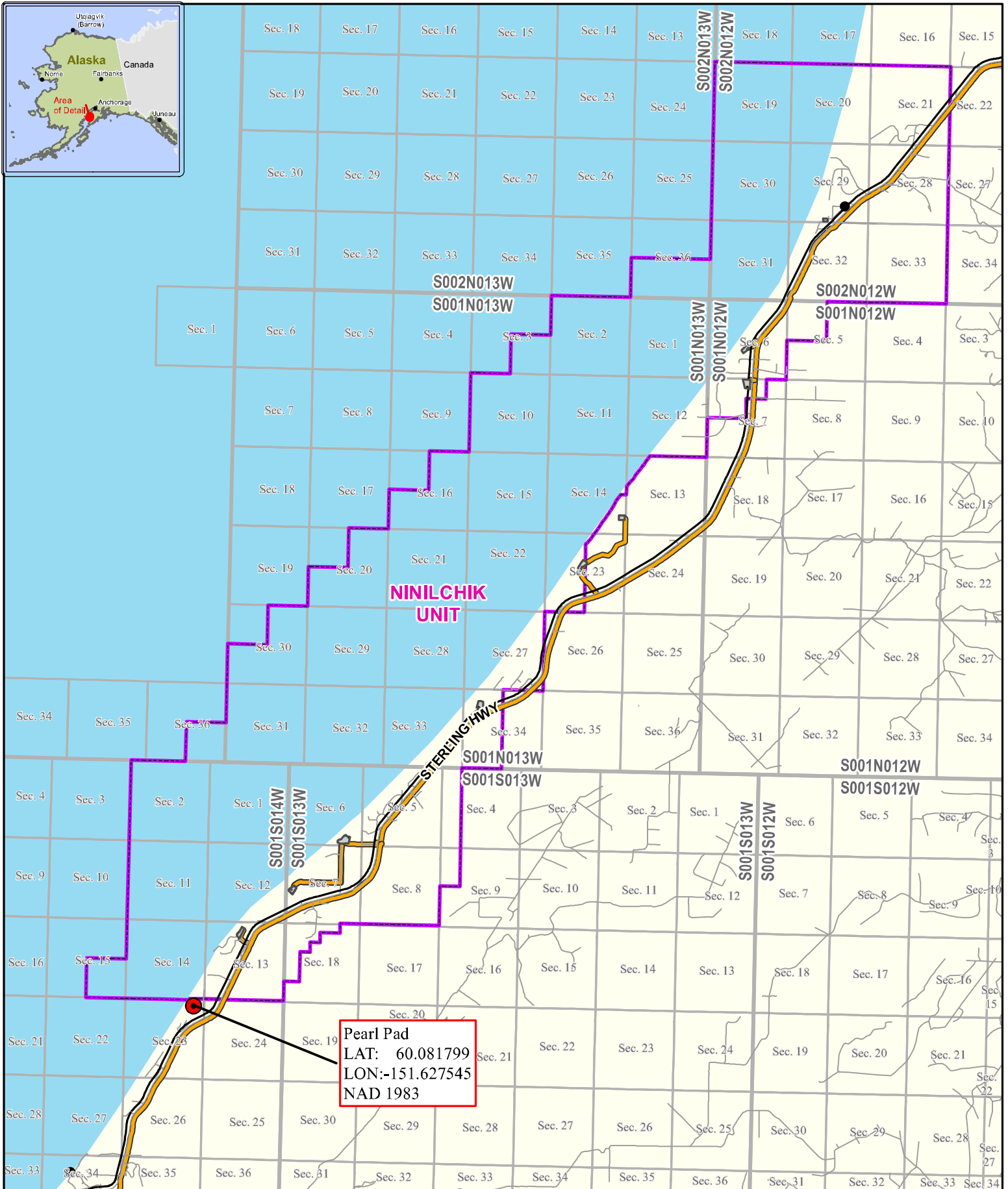
Name

Title

Date

Figure 1 – Pearl Pad Location Overview Map

Figure 2 – Pearl Pad Facility Layout and Pipeline Route



Pearl Pad  
LAT: 60.081799  
LON: -151.627545  
NAD 1983



Hilcorp Alaska, LLC  
3800 Centerpoint Drive  
Suite 1400  
Anchorage, AK 99503

- Pipelines
- Well Pads
- Oil and Gas Unit Boundaries

## Pearl Pad Proposed Facilities and Pipeline Figure 1 - Vicinity

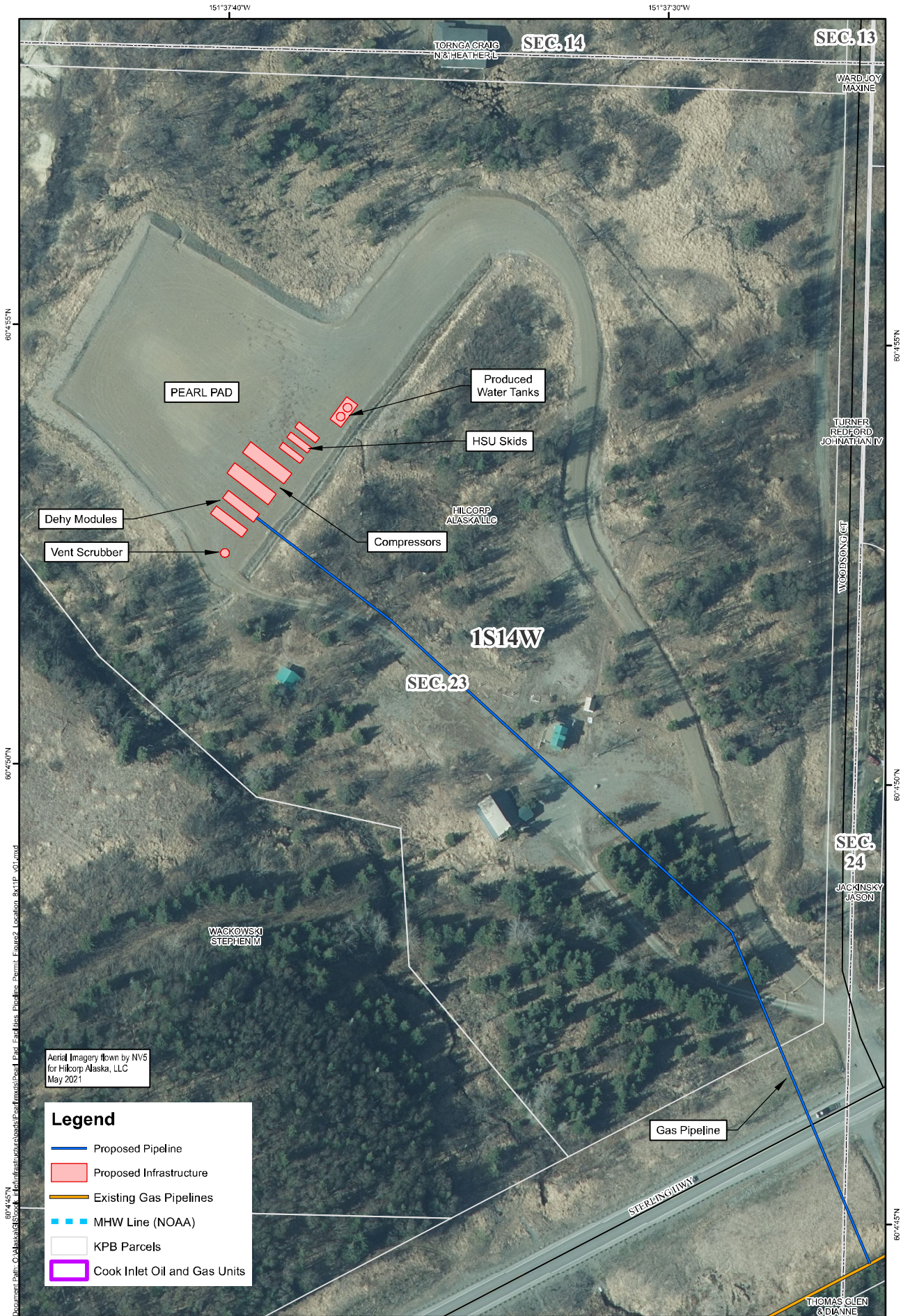
0 1 2  
Miles

Alaska State Plane Zone 4, NAD83

Map Date: 5/20/2022







**Pearl Pad  
Proposed Facilities and Pipeline  
Figure 2 - Location**

1 inch = 100 feet



0 50 100 150 200 Feet



## APPENDIX B: MITIGATION MEASURES

No changes to existing mitigation measures.

**APPENDIX C: OTHER**

See attached Pearl Pipeline Detail drawings.

Additional Permits:

| Agency                                          | Permit Type       | Permit Number                                           | Application Status | Projected Use Requirement(s)                       |
|-------------------------------------------------|-------------------|---------------------------------------------------------|--------------------|----------------------------------------------------|
| Regulatory Commission of Alaska                 | Connection Permit | Docket #P-22-008                                        | Submitted          | Lateral line connection to KBPL regulated pipeline |
| Alaska Department of Environmental Conservation | APDES             | Statewide Oil and Gas Pipelines General Permit AK320000 | Received           | Discharge of hydrotest water (if required)         |
| Alaska Department of Environmental Conservation | APDES             | Statewide Oil and Gas Pipelines General Permit AK320000 | Received           | Excavation dewatering (if required)                |
| Alaska Department of Transportation             | ROW Permit        | TBD                                                     | Submitted          | HDD beneath Sterling Highway                       |
|                                                 |                   |                                                         |                    |                                                    |
|                                                 |                   |                                                         |                    |                                                    |
|                                                 |                   |                                                         |                    |                                                    |



