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SPECIAL SECTION INSIDE

HILCORP

10 years in Alaska

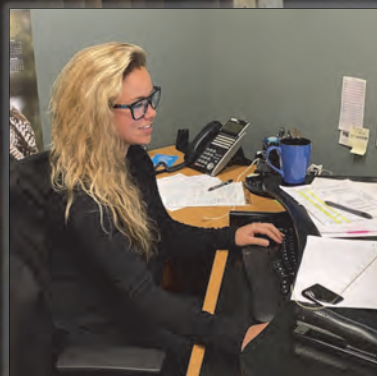
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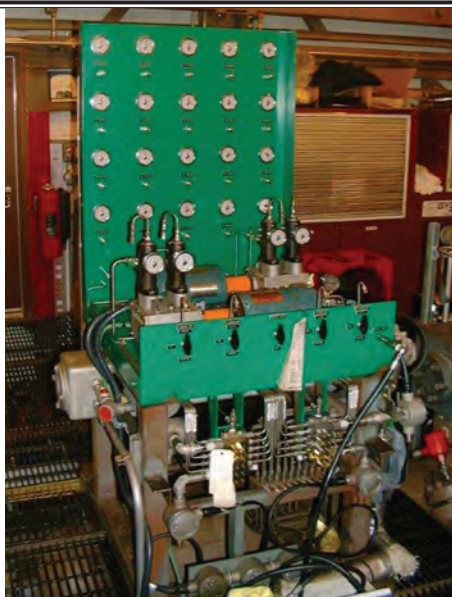
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Cover photo:
Originally installed in 1966 by Mobil, now operated by Hilcorp, the Granite Point Platform is still actively producing from the Granite Point Field offshore in Cook Inlet.

Photo courtesy of Hilcorp Alaska



Message from the publisher

This special report is in celebration of Hilcorp's 10-year anniversary of operating in Alaska. The stories are shortened versions of articles that ran in Petroleum News — the dates they ran are under the byline of each.

Headlines and subheads from the newspaper have often been changed to fit this magazine format.

A few of the stories are from PN's annual magazines, The Producers and The Explorers. But since those were mailed with a certain edition of a newspaper, their bylines simply say By Petroleum News and carry that issue's date.

We hope you enjoy a brief glimpse of Hilcorp's dynamic history in Alaska.

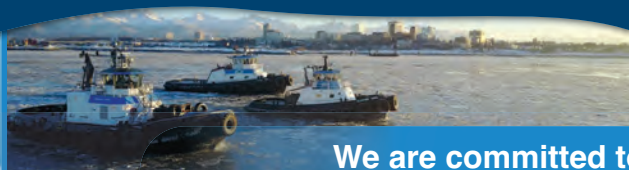
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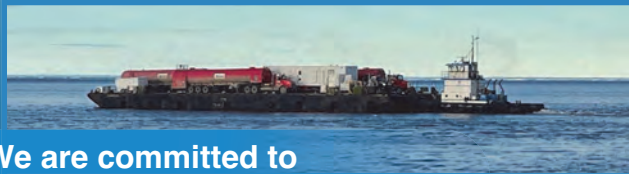
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Hilcorp's Granite Point Platform

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Hilcorp deal closes

Houston independent Alaska subsidiary begins operating in Cook Inlet

By PETROLEUM NEWS

Jan. 8, 2012, issue

Some of Cook Inlet's oldest oil and gas facilities now have a new owner, with Chevron subsidiary Union Oil Company of California, or Unocal, giving way to Houston-based independent Hilcorp Energy, whose Hilcorp Alaska subsidiary assumed operation of Union's Cook Inlet assets Jan. 1, 2012.

Hilcorp said it "welcomes over 230 new Alaskan employees to the company and recognizes the skills and experience they bring."

Hilcorp Energy, founded in 1989, is one of the largest privately held independent oil and natural gas exploration and production companies in the United States, with 700 employees in the Lower 48.

Hilcorp named John Barnes as senior vice president of Hilcorp Alaska. The company said Barnes, formerly with Marathon in Alaska and most recently senior vice president of operations and maintenance services for CH2MHill, brings both producer and



JOHN BARNES

"Hilcorp intends to pursue a maintenance and development program at existing fields, as well as a comprehensive exploration program."—Hilcorp told RCA

contractor experience to the position.

Plans for Cook Inlet

Assets that Hilcorp acquired include Union contracts and interests in the Swanson River, Granite Point, Middle Ground Shoals, Trading Bay and McArthur River fields; interests in 10 offshore platforms; interests in onshore gas fields including the Ninilchik Unit and the Beluga River Unit; and two gas storage facilities.

When the sale was announced in July 2011, production from the assets was listed as some 3,900 barrels of oil and 85 million cubic feet of natural gas per day.

As of November 2011, production data from the Alaska Oil and Gas Conservation Commission, Granite Point, McArthur River and Middle Ground Shoals — among the interests acquired by Hilcorp Alaska — are the only fields in Cook Inlet with average

Continued on page 10

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Targets old, complicated fields

Hilcorp drawn to Cook Inlet by exit of majors; will invest heavily

By PETROLEUM NEWS

June 24, 2012, issue

Aging oil and gas fields in Southcentral Alaska's Cook Inlet basin may no longer be attractive to major companies, but Houston independent Hilcorp Energy is finding ways to produce more oil from big old fields.

The company closed on the purchase of Chevron's Cook Inlet assets at the end of last year and is in the process of buying Marathon's inlet assets. That makes Hilcorp the dominant producer in Cook Inlet, the state's original oil and gas province.

It's the age of the fields in Cook Inlet that attracted the company to Alaska, Hilcorp Energy President Greg Lalicker told the Anchorage Chamber of Commerce June 18, 2012.

The company's strategy, he said, is to "look for properties to buy, particularly big, old oil fields, typically from the majors," who have discovered and produced most of the oil and gas. At some point those fields "become, frankly, immaterial to the major oil company's portfolio," because "the size of opportunity gets to small, too hard, not worth the effort and they decide, rather than continuing to invest in those fields, they want to just sell them and move on to the next big field to be produced."

Over the last five years Hilcorp has spent \$1.992 billion acquiring 162 million barrels of oil equivalent in reserves.

"We buy the fields and then we exploit the properties," with a focus on reservoir engineering, geology and geophysics and field operations, he said.

Over that same five years Hilcorp has spent about \$1.742 billion exploiting properties it owns, and in the process added another 162 million barrels of reserves.

Lalicker said it's what Hilcorp does — acquires and exploits "big old complicated fields."

And in the process spends a lot of money. Its Cook Inlet capital budget for 2012 is some \$203 million, compared to about \$40 mil-



GREG LALICKER

Marathon to exit Alaska

On April 9 Marathon Oil Corp. announced that it had agreed on the sale of all its Alaska assets to Hilcorp Alaska.

"With an effective date of Jan. 1, 2012, the sale includes 17 million barrels of oil equivalent of net proved reserves across 10 fields in the Cook Inlet, as well as natural gas storage, and interests in natural gas pipeline transmission systems," Marathon said. "In 2011 net production averaged approximately 93 million cubic feet of natural gas per day and 112 barrels of oil per day. Additionally, Marathon Oil had approximately 12.5 billion cubic feet of natural gas in storage at the end of 2011."

The company operates gas fields in the Beaver Creek, Cannery Loop, Kasilof, Kenai, Ninilchik, North Trading Bay and Sterling units.

The Marathon pipeline assets include the Cook Inlet Gas Gathering System that runs under the Cook Inlet, the Kenai Nikiski pipeline on the Kenai Peninsula and the Beluga pipeline on the west side of the inlet. The company also owns a gas storage facility in the Kenai gas field.

The sale to Hilcorp will likely close in the fall (of 2012).

The deal will make Hilcorp and ConocoPhillips the dominant gas producers in the Cook Inlet basin.

—PN APRIL 15, 2012, ISSUE

lion a year Chevron spent in recent years on the same properties, he said.

What's Hilcorp doing?

How is Hilcorp spending that money in Cook Inlet?

Most of the Cook Inlet platforms at McArthur River "have drilling rigs on them or had drilling rigs on them that were built in the 1960s which were basically junk," Lalicker said.

So those old rigs are being stripped off the platforms and Hilcorp is working on "getting a rig, a platform rig, that we can move up here and move from platform to platform and start drilling and working on some of these wells."

The rigs are down already on a couple of the platforms, "and we're plowing through that at a pretty good pace," he said.

At the onshore Swanson River field a workover rig is already starting to repair old wells and there is a remedial program in place across all the producing assets.

There are a lot of old shut-in wells that need to be fixed and brought back on.

"And that's what our first priority is, to wind up the people and equipment to just start fixing all the wells and stuff and then we'll start worrying about the new projects, drilling new wells and all



Continued on page 10



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Message from Hildebrand

In a CEO message on Hilcorp Energy's website near the time of Hilcorp Alaska's takeover of Chevron subsidiary Union Oil Company of California's Cook Inlet assets, Jeff Hildebrand, the company's founder, president and CEO, cites "world-class employees, legacy assets and a strong balance sheet" as the reasons for the company's success.

"We focus on what we do well," Hildebrand said, listing the company's core competencies as engineering and geological expertise and operational excellence.

Hilcorp's mission? "To efficiently develop energy that would otherwise be lost while providing an enjoyable and challenging work environment where long-term personal wealth can be created," Hildebrand said.

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HILCORP DEAL

production of more than 1,000 barrels per day.

The sale also includes interests in the Cook Inlet Pipe Line Co. and Kenai Kachemak Pipeline LLC.

While Hilcorp did not discuss specific plans in a Jan. 4, 2012, statement, it made some general information available in 2011 regulatory filings.

In a narrative statement about Hilcorp's proposed acquisition filed with the Regulatory Commission of Alaska in August 2011 as part of the application for transfer of pipeline interests, Hilcorp said it "has identified the Cook Inlet basin as a region holding significant potential for continued oil and gas exploration and development opportunities. Consistent with its overall corporate mission, upon completion of the acquisition Hilcorp intends to pursue a maintenance and development program at existing fields, as well as a comprehensive exploration program." ●



COURTESY HILCORP ALASKA

The Saxon 169 rig on site at the Swanson River field, one of two land rigs Hilcorp brought to Alaska to launch a drilling program late in the summer of 2013.

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COMPLICATED FIELDS

that down the road," Lalicker said.

Hilcorp's current focus on spending is "revitalizing and reactivating and modernizing" equipment to allow drilling not just for the next two or three or four years, but for the next 10, 15 and 20 years, he said.

Production was 15,000 boe a day when Hilcorp took over at the end of 2011, and Lalicker said he hopes to be at more than 20,000 boe a day by the end of this year and up to 25,000 boe per day in 2014.

The Marathon purchase is pending regulatory approval, "so there's not much I can say about when that will happen." ●

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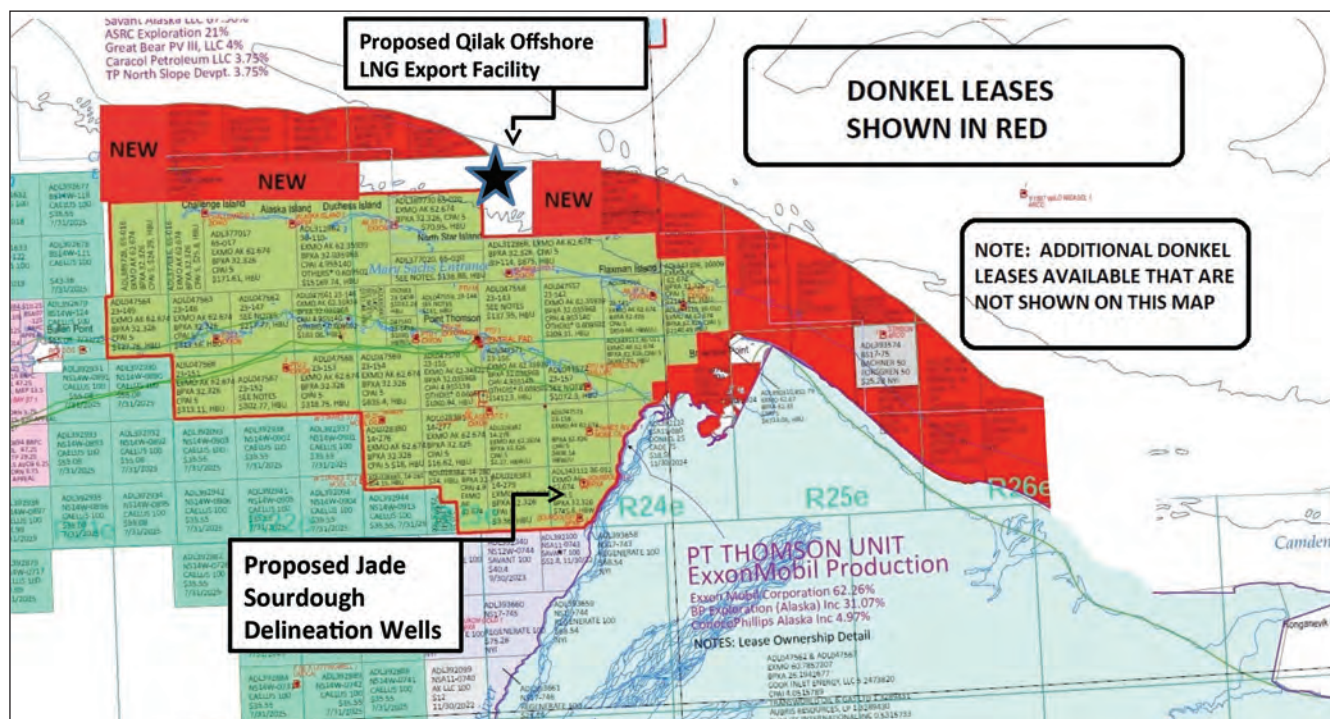
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Enough for short term

Lalicker: Hilcorp expects to have sufficient Cook Inlet gas through to 2016

By PETROLEUM NEWS

March 3, 2013, issue

Having completed the purchase of Marathon's Cook Inlet assets at the beginning of February 2013, Hilcorp is in the process of figuring out new gas supply arrangements with South-central Alaska utilities, with gas supplies in 2013 being the immediate concern, Hilcorp Energy President Greg Lalicker told the Alaska House Resources Committee Feb. 26.

"We've gone out to ask all the domestic gas consumers what they need for gas and we've responded back to that already," Lalicker said. "We should get those signed here fairly quickly, over the next two, three, four weeks."

Hilcorp is also working on gas reserves certification for its new acquisitions, to be able to commit to gas supply contracts beyond 2013.

"I think over the next two to three months we'll be contracting for the 2014, 2015, 2016 timeframe," Lalicker said.

Re-activating wells

Marathon was primarily a gas producer in the Cook Inlet basin

and the Marathon assets that Hilcorp has purchased include large gas fields such as the Kenai and Ninilchik fields. And, by reactivating some old gas wells, Hilcorp has already pushed up gas production from the old Marathon assets, Lalicker said.

Hilcorp's immediate problem is that, with the gas production rate up a bit, the company has more gas than it needs to meet the immediate demand, he said.

In 2013 Hilcorp expects to deliver some 67 billion cubic feet of a total Cook Inlet gas demand that hovers around 92 to 94 bcf, with other gas producers in the basin needing to meet the balance of that demand, Lalicker said.

Hilcorp also has the resources to cover that 67 bcf of demand for the next five years, he said. And, with total Cook Inlet gas production well below its peak of a few years ago, much of the region's gas pipeline infrastructure has excess capacity to carry currently produced gas, he said.

Not like the past

But Lalicker cautioned against expectations that somehow the Cook Inlet basin would return to a situation seen many years ago,

Continued on page 14

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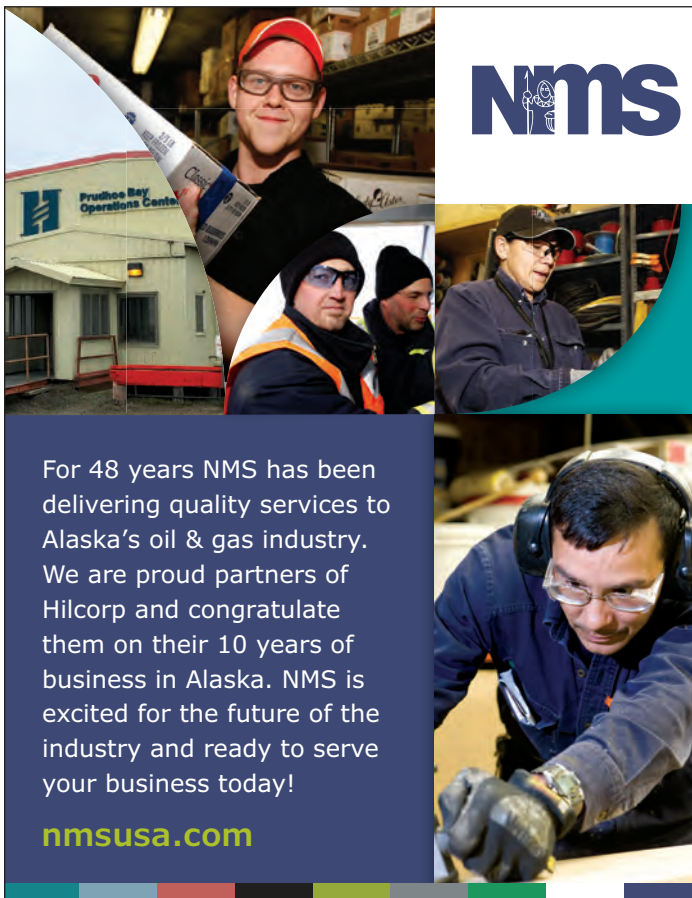
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SHORT TERM GAS

with huge gas fields delivering an overabundance of gas.

"The gas business will never look like it did when the Cook Inlet was a new basin," Lalicker said.

In fact, Hilcorp's mode of operation is to seek small incremental production improvements in existing fields, adjusting its production to market conditions, rather than go seek big, undiscovered oil and gas pools for future development.

"We're never going to go out there and say, 'let's start drilling wells right now to produce gas five years from now or 10 years from now,'" Lalicker said. "That's just a waste of capital. We're going to be proving up reserves just sitting out there waiting to be produced."

Small projects

And rather than depending on one big development project, Hilcorp's approach is to carry out many small projects, each project adding a little to production, but with the projects in total making a big difference in pushing up production and extending field life.

"As fields get old, they're not dead. It just takes a kind of different mental approach, where you want to keep driving rate and reserves up," Lalicker said. "That's what we specialize in doing as a company: lots of little things."

And, by using this approach, Lalicker said he sees the possibility of anywhere from 15 to 25 years of life left in the existing Cook Inlet oil and gas fields.

Swanson River

As an example of Hilcorp's "a bit at a time" approach to breathing new life into old assets, Lalicker described his company's endeavors in the Swanson River field in the northern Kenai Peninsula, the first major oil field to start production in Alaska.

When Hilcorp took over the Swanson River field from

Production begins from Red Pad

Hilcorp Alaska began natural gas production from Red Pad on the Kenai Peninsula on Dec. 17.

Production is at 5 million cubic feet per day, Hilcorp spokeswoman Lori Nelson told Petroleum News Dec. 18.

Hilcorp is "continuing to monitor the system," hoping to reach its original production estimate of 6.5 million cubic feet per day.

The field was discovered by Unocal in 2004 and the Red 1 well tested 3.2 million to 5.8 million cubic feet per day in a 26-hour test. A second well, Red 2, was also drilled and tested in 2004, but there were no measurable hydrocarbons.

Production is from an existing gravel pad built by Unocal. The Nikolaevsk unit leases were transferred to Hilcorp Jan. 1 as part of Hilcorp's purchase of Chevron subsidiary Union Oil Company of California's Cook Inlet assets.

Line just completed

The accumulation is in the Nikolaevsk unit some 14 miles southeast of Ninilchik on the southern Kenai Peninsula and was stranded until a six-inch pipeline was completed by Semco Energy's Alaska Pipeline Co., APC, subsidiary in early December. The line runs some 10 miles east to connect with APC's Anchor Point Pipe Line.

Hilcorp funded the Red Pad Pipeline through a construction agreement. The estimated pipeline cost was \$8.4 million.

—PN DEC. 23, 2012, ISSUE

Chevron in early 2012 it was producing 250 to 475 barrels of oil per day, Lalicker said. During 2012 Hilcorp sidetracked three wells and repaired eight wells, with field production climbing to 2,000 barrels per day by January 2013.

"This year we're going to drill seven more wells and we have about 15 workover, recompletion projects," Lalicker said. "It's not inconceivable that you'll see the rate climb another 2,000 to 3,000 barrels per day, by the time we're all said and done."


Lalicker said that Hilcorp plans to spend \$300 million to \$350 million on its Alaska assets in 2013, continuing the improvements in production that it has so far achieved in its Cook Inlet oil fields as well as taking the same incremental approach to boosting output from the gas fields it has acquired from Marathon.

And, regardless of the gas situation, Hilcorp has plenty of oil opportunities in the Cook Inlet basin, he said.

Modern rigs

There is a lack of modern equipment, such as easy-to-move, high-spec drilling equipment in the Cook Inlet basin. A whole new generation of rigs has emerged over the last 10 years, he said.

Hilcorp has contracted two land-based drilling rigs to come up from the Lower 48 to work on the company's Cook Inlet properties, and the company is also bringing up two specialized, purpose-built workover rigs for repairing offshore wells, Lalicker said. ●

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Hilcorp enters North Slope

Acquiring BP's interests in Milne Point, Endicott, Northstar and Liberty

By PETROLEUM NEWS

April 27, 2014, issue

Hilcorp is establishing a presence on Alaska's North Slope as a working interest owner and operator.

In a major North Slope sale, announced April 22, 2014, BP has agreed to sell interests in some smaller fields to Hilcorp Alaska. The deal includes all of BP's interests in the Endicott and Northstar oil fields and a 50% interest in Liberty and Milne Point. BP's interests in oil and gas pipelines associated with those fields are also included.

Hilcorp will become the operator of all four fields, with a delay to 2015 for Liberty.

BP said it would focus on Prudhoe Bay, which it operates, and on an Alaska liquefied natural gas project. Hilcorp, which began operations in Cook Inlet in 2012, is largely focused on increasing production from mature fields, fields that major oil companies developed but are no longer a fit.

"There are some big benefits from this transaction," Janet Weiss, president of BP's Alaska region, said. "BP will be able to focus on maximizing production from Prudhoe Bay and advancing the Alaska LNG opportunity. ... And the state gets another accomplished operator working the North Slope."

Expansion for Hilcorp

Hilcorp noted that this will be the company's third major acqui-



JOHN BARNES



JANET WEISS

sition in Alaska since 2012, when Hilcorp purchased Chevron's Cook Inlet interests closed followed by an acquisition of Marathon's Cook Inlet assets.

"We are excited about this acquisition. Our ability to bring new life to mature basins is a great fit for these assets," said John Barnes, senior vice president of exploration and production for Hilcorp Alaska.

State reaction

Alaska Department of Natural Resources Commissioner Joe Balash told Petroleum News that what they've seen Hilcorp do in Cook Inlet "is outstanding and the indications we've gotten about what they intend to do with these North Slope assets suggests they will bring the same vigor and commitment of capital."

The assets

Milne Point, some 25 miles west of Prudhoe Bay, was discovered in 1969 and began production in 1985. BP became the operator at Milne Point in 1994.

Northstar is some six miles northwest of Prudhoe Bay offshore in state and federal waters. Production started from the field in 2001.

Liberty is on federal leases some six miles offshore in the Beaufort Sea east of Prudhoe Bay. BP drilled the Liberty discovery well in 1997.

Endicott is some three miles offshore and started production in 1987 as the first continuously producing offshore field in the Arctic.

BP said the assets included in the sale represent some 19,700 barrels of oil equivalent a day of net production for BP, less than 15% of the company's net North Slope production.

Editor's note: When the sale of certain BP North Slope assets to Hilcorp was announced April 22, financial details were not disclosed. But in an April 29 first quarter analysts' call, BP executives said the sale brought in \$1.25 billion. Bob Dudley, BP's group chief executive, noted that in addition to the \$1.25 billion, the sale included "a development carry for the Liberty field of up to \$250 million," that would bring the total to \$1.5 billion. ●



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Stepping beyond development

Greystone would be Hilcorp's first exploration project outside units

By PETROLEUM NEWS

May 22, 2016, issue

Hilcorp Alaska has only drilled exploration wells when it needed to expand the size and scope of its existing development operations.

But in March 2016, the company began permitting a standalone exploration project in the southern Kenai Peninsula.

The proposed Greystone pad would be on Cook Inlet Region Inc. leases between the Deep Creek and Nikolaevsk units, which are both producing fields operated by Hilcorp.

A public notice from the Alaska Department of Environmental Conservation said Hilcorp would begin construction on Greystone in the second quarter and drill at least one well.

Aside from Greystone, Hilcorp has continued to pursue exploration opportunities at two southern Kenai Peninsula properties — the Deep Creek unit and the Ninilchik unit.

In both cases, Hilcorp has been pursuing exploration activities outside of existing participating areas to prevent the state from contracted un-used acreage from the units.

Hilcorp also operates the Milne Point, Northstar and Duck Island units on the North Slope, although its program to date has not

yet included any exploration activities.

The exploration program at Ninilchik has been much larger than the one at Deep Creek. And the Ninilchik program increasingly resembles development drilling.

After acquiring the unit in 2013, Hilcorp proposed exploration wells from existing drilling pads and proposed several additional pads in under-developed areas. The company drilled at least 10 exploration wells at the unit between 2013 and 2014.

The proposed drilling program for 2015 included three wells: a 12,000-foot GO-8 well from the existing Grassim Oskolkoff pad, a 12,000-foot Blossom No. 1 well from a new Blossom pad just north of the Grassim Oskolkoff pad and a 9,000-foot Kalotsa No. 1 development well from a new pad between the existing Paxton and Susan Dionne pads.

Hilcorp completed the GO-8 well and drilled the Blossom No. 1 well, although the latter still requires “further testing and analysis” before the company can bring it into service.

Unspecified “permitting issues” delayed construction of the Kalotsa pad, which was pushed into 2016. The company is also planning a GO-9 well, which is being described as a “high angle development gas well” targeting the Upper Tyonek formation. ●

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Buys last Conoco field in inlet

Hilcorp acquires North Cook Inlet; gas sent to shore in subsea pipeline

By PETROLEUM NEWS

Dec. 20, 2016, issue

ConocoPhillips has sold the North Cook Inlet gas field to Hilcorp Alaska, ConocoPhillips spokeswoman Amy Burnett has told Petroleum News. The offshore field operates from the Tyonek platform, with gas delivered to shore on the Kenai Peninsula by sub-sea pipeline.

"ConocoPhillips reached an agreement with Hilcorp for the sale of the North Cook Inlet unit, and the asset sale was finalized in late October," Burnett told Petroleum News in a Nov. 16 email.

"Hilcorp has made great strides with our existing assets in Cook Inlet. The Tyonek platform and the North Cook Inlet unit are great additions to our existing assets within the Cook Inlet," said Hilcorp Senior Vice President David Wilkins. "As a result of significant investments, our company has been able to increase production and help provide a reliable source of energy for Southcentral Alaskans."

In July 2015 ConocoPhillips announced its intent to sell its Cook Inlet properties, other than the liquefied natural gas facility at Nikiski on the Kenai Peninsula. The company subsequently sold its interests in the Beluga River gas field on the west side of the Cook Inlet to electric utilities Chugach Electric Association and Municipal Light & Power.

Now, with the sale of the North Cook Inlet unit, ConocoPhillips no longer owns any interest in any fields in the Cook Inlet basin. ●



The Tyonek platform

PETROLEUM NEWS FILE

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Here for the long haul

Wilkins outlines Hilcorp's plans for further drilling and development in Alaska

By PETROLEUM NEWS

June 11, 2017, issue

With ambitious plans for new development drilling both on the North Slope and in the Cook Inlet basin, Hilcorp sees Alaska as a “great place of opportunity,” a place where the company anticipates operating for many years, David Wilkins, senior vice president of Hilcorp Alaska, told the Alaska Oil and Gas Association’s annual conference on May 31, 2017.

In addition to major development plans for the North Slope, the company anticipates some new developments in the Cook Inlet basin, potentially squeezing more oil out of the Hemlock and Tyonek formations, as well as drilling deeper into the underdeveloped West Foreland formation, Wilkins said.

The company is currently processing its 3D seismic data from the Middle Ground Shoal field, sees some additional promise in the complex geology of that field and expects to drill some new wells next year, he said.

Wilkins also commented that his company is very enthusiastic about the horizontal drilling redevelopment program it is conducting in the Granite Point field and will be starting drilling in that field in June.

Onshore on the Kenai Peninsula Hilcorp continues drilling at an annual rate sufficient to maintain natural gas production to meet market demand. The company also anticipates some exploration drilling.

“We will also be drilling exploration wells on the Kenai Peninsula in search for large gas fields that we are confident exist,” Wilkins said.

Wilkins also commented on his company’s recent announcement of a plan to close down the Drift River terminal on the west side of the inlet by shipping oil by subsea pipeline to the Kenai Peninsula. The Drift River terminal is a cause for safety concern because of its proximity to the Redoubt volcano. The oil pipeline plan demonstrates Hilcorp’s commitment to environmental stewardship and a willingness to work cooperatively, investing to overcome the challenges of the aging infrastructure, he said.

Bullish on Milne Point

Wilkins reviewed his company’s upcoming plans for the North Slope, where Hilcorp operates the Milne Point, Northstar and Endicott fields, as well as being the operator for the planned Liberty oil field development, offshore in the Beaufort Sea.

“On the North Slope we are particularly bullish on the opportunities at Milne Point, where we believe a significant resource still remains to be recovered, from light oil trapped in deep reservoir rocks to heavy oil in the shallower Schrader Bluff and Ugnu formations,” Wilkins said. “We see plenty of reasons for investment and hundreds of wells yet to be drilled.”



DAVID WILKINS

Hilcorp is building a new pad, the Moose Pad, on the west side of the Milne Point unit. The company estimates ultimate recovery of 30 million to 50 million barrels of oil via the pad, with production of 15,000 barrels per day from as many as 70 production and injection wells, Wilkins said.

Innovation rig

Hilcorp commissioned the new Innovation drilling rig that is now drilling at Milne Point. This is the lightest modular rig on the North Slope and is capable of drilling closely spaced wells, a factor that will enable the rig to operate at Endicott and Northstar, Wilkins said.

The Bureau of Ocean Energy Management will soon release the environmental impact statement for the Liberty project — Hilcorp is working diligently with regulators in Alaska and Washington, D.C., to bring this project to fruition, Wilkins said. The field holds an estimated 100 million barrels of oil and is expected to produce at a rate of at least 60,000 barrels per day for 10 to 15 years.

“The opposition ignores what we find most attractive about Liberty — the use of technology that’s been proven environmentally sound for more than 30 years,” Wilkins said, referencing his company’s decision to develop the field from an artificial island, a technique successfully used at Endicott, Northstar, Oooguruk and Nikaitchuq.

“We believe that we have chosen the most prudent development plan available,” he said.

Rigs and Alaska jobs

Overall, Hilcorp currently has four drilling rigs operating in Alaska — one on the North Slope, one onshore on the Kenai Peninsula and two offshore in Cook Inlet. Each rig accounts for about 100 drilling jobs, a high proportion of which are held by Alaskans, Wilkins said.

In characterizing his company’s approach to its Alaska endeavors, Wilkins referenced the Swanson River field, the oil field on the Kenai Peninsula that triggered Alaska’s eventual oil and gas bonanza. He hopes that Hilcorp exhibits the same perseverance and hard work that brought about that initial Swanson River development by a group called “the Spit and Argue Club.”

“These were men who liked to think big, think positive and think long term,” Wilkins said.

With Swanson River being an important source of natural gas, as well as an oil field, Hilcorp plans to drill more wells this year, and five to 10 further wells next year. The company has also reinstituted a gas flood program in the field. And, since arriving in Alaska, Hilcorp has boosted oil production from the field from 500 barrels of oil equivalent per day to more than 2,500 barrels per day.

“The story at Swanson River parallels Hilcorp’s commitment to Alaska,” Wilkins said. “We’re here for the long haul. We look forward to being good neighbors for many, many years to come.” ●



In late January 2020, total production at Milne Point reached 34,000 barrels of oil per day for the first time since May 2008.

Hilcorp boosts ANS output

In August 2019, acquired all BP's Alaska interests including 26% of Prudhoe Bay

By PETROLEUM NEWS
Nov. 17, 2019, issue

On the North Slope, Hilcorp operates four properties, the Milne Point unit, the Endicott field at the Duck Island unit, the Northstar unit and the Liberty project which unlike the other three is not currently in production.

Going forward, Hilcorp is using the “buy from BP” strategy to substantially increase its North Slope position. BP is withdrawing from the state, having agreed to sell all its assets for \$5.6 billion to Hilcorp. The deal includes BP’s 26% interest in the giant Prudhoe Bay oil field, the major and the independent said in separate Aug. 27, 2019, press releases.

Hilcorp is already a strong producer and active developer on the North Slope; it has not been an active explorer as it is in the Cook Inlet basin.

Prior to the closing the acquisition of BP’s assets in 2020, Hilcorp ranks as the third largest oil producer in Alaska in 2018,

behind ConocoPhillips and BP.

Milne Point

In August 2019, Ed King of King Economics Group noted impressive fiscal year 2019 output numbers from Milne Point oil field, based on data from the Alaska Oil and Gas Conservation Commission.

At Milne Point, King said Hilcorp had been doing a “tremendous job squeezing additional life out of this mature asset since purchasing it from BP.”

A total of 8.3 million barrels were produced from Milne in FY19 — a million barrels more than in FY18.

The company received authorization to install a third polymer injection facility at Milne Point, a technology Hilcorp first brought to the North Slope.

Injecting polymer and water into the field works better to coax syrupy viscous crude from the reservoir than conventional waterflood.

Using polymer, Hilcorp expects to increase crude recovery from 10 to 15% of the oil in place at Milne to as much as 50%, per slides David Wilkins, Hilcorp's top executive in Alaska, presented in November 2018.

Per the 37th plan of development for Milne Point, effective Jan. 13, 2019, through Jan. 12, 2020, the unit produces from the Kuparuk reservoir in the Kuparuk participating area, the Schrader Bluff reservoir in the Schrader Bluff PA, the Sag River reservoir in the Sag River PA, and a number of tract operations: C-15A, S-90, C-23, K033; and several Ugnu tract operations, MPS-37, MPS-39, MPS-41 and MPS-43.

Moose Pad — which came online in June 2018 — is the first new Milne pad since 2002, and can accommodate 50 to 70 wells, Wilkins said. Hilcorp is planning to build another new pad in the unit, R Pad.

The Moose Pad processing facility can handle 85,000 barrels of fluid per day. Hilcorp anticipates a total price tag of some \$400 million for the development, with potential recovery of some 60 million barrels of oil, a development cost of \$6 to \$7 per barrel, Wilkins said.

Duck Island and Northstar

At the Duck Island unit, which holds the Endicott field and went online in 1987, Hilcorp was able to “maintain a fairly flat production rate over the last two years,” King said. (Previously Hilcorp had boosted output.)

“At only 7,000 barrels per day, it's unclear how long this field will continue to produce. Holding it flat is about as good as we can hope for,” King said.

After starting regular production in 2001, the Northstar field is already nearing the end of its economic life, currently producing about 10,000 bpd for Hilcorp, King said.

“However, Hilcorp has a talent for getting oil out of fields that others are ready to give up on,” King noted. “In fact, the Northstar unit (in FY 19) saw an increase of 317,587 barrels of oil (a 9% increase) over FY18.”

In the 15th POD, which will run from February 2019 to February 2020, the company said it does not anticipate drilling any new wells, but does anticipate completing two rig well workover projects, one to recomplete an Ivishak reservoir producer to a Kuparuk C producer and one to recomplete an Ivishak reservoir gas injector to a lean gas injection well in the Kuparuk A and C reservoir.

The company said it would continue to evaluate well work opportunities as they arise and “pursue efficiencies through various well optimizations, including the evaluation of shut-in wells utility and their potential return to service.” (AOGCC's December 2018 data shows four shut-in wells at Northstar.) ●



Passing the torch at Prudhoe Bay on Nov. 20, 2019, at the annual Resource Development Council's annual conference in Anchorage: Janet Weiss, president of BP in Alaska, and David Wilkins, Hilcorp's top Alaska executive.

JUDY PATRICK

10 YEARS

Doyon Drilling, Inc. congratulates Hilcorp Alaska on 10 years operating in the State of Alaska.

Doyon is proud to be a part of the ongoing success of Hilcorp Alaska.

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Hilcorp works Cook Inlet assets

By PETROLEUM NEWS

Sept. 19, 2021, issue

Luke Saugier, senior vice president of Hilcorp Alaska, provided an update on the company's activities in Cook Inlet on Sept. 10, 2021.

In regard to Hilcorp's Cook Inlet business, Saugier said the company employs some 150 and Cook Inlet will continue to be an important part of the company's Alaska business.

Hilcorp began operating in Cook Inlet in 2012, first acquiring assets previously held by Chevron, then Marathon's gas fields and most recently the North Cook Inlet field from ConocoPhillips.

The company's efforts are going to focus on delivering natural gas to local markets, Saugier said, particularly from the Steelhead and Tyonek platforms, where Hilcorp will be drilling wells for years to come.

He said there are tremendous gas resources that Hilcorp will continue to develop to supply the local market.

Hilcorp is the major Cook Inlet natural gas provider, owning the majority of the fields and operating the fields it owns as well as the Beluga River field, jointly owned with Chugach Electric Association.

As for the ultimate fate of Hilcorp's Cook Inlet facilities, Saugier said part of the company's vision is that it is the last owner. He said it is not Hilcorp's intention to sell to someone further down the food chain.

That's not going to happen, he said: Hilcorp will be the final owner of the assets.

There are a lot of wells in Cook Inlet that eventually need to be plugged and abandoned, Saugier said, and Hilcorp is going to begin methodically working through that list and plugging and abandon-



LUKE SAUGIER

The company's efforts are going to focus on delivering natural gas to local markets, Saugier said, particularly from the Steelhead and Tyonek platforms, where Hilcorp will be drilling wells for years to come.

ing every year.

With the acquisition of BP's North Slope assets, the company acquired inhouse expertise on rig-less abandonment that BP had used on the Slope, and will bring that technology into Cook Inlet, Saugier said.

Hilcorp intends to extend the life of its Cook Inlet assets as long as possible, particularly the platforms, he said, calling them remarkable from both a historical and technical perspective, and assets which would be very difficult to replace.

Cook Inlet drilling

As for Cook Inlet drilling, he said the company will be fairly selective in its drilling projects, particularly those targeting oil, with gas projects top tier for the company.

Hilcorp's general intention is to leave the platforms in place in lighthouse mode for quite some time, he said, because a critical mass is needed for platform removal.

The platforms are very stable once the wells have been plugged and vessels emptied and Hilcorp is looking at possible uses for platforms no longer in production, Saugier said.

Cook Inlet is ranked fifth in the United States for tidal power and one of the things Hilcorp is looking at whether the platforms could be repurposed for tidal power.

The platforms were built like battleships, he said, in a time before computer modeling when they built stronger than they thought they'd need. ●



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Platform C (Middle Ground Shoal South)

A successful 10 years

Hilcorp explains how it has improved field performance since coming to Alaska

By PETROLEUM NEWS

Nov. 28, 2021, issue

During a talk to the Resource Development Council's annual conference on Nov. 17, 2021, Jill Fisk, Hilcorp Alaska senior asset team leader for Prudhoe Bay west, and a company vice president, recounted her company's success in safely re-invigorating oil and gas fields in the Cook Inlet region and on the North Slope since the company first started operating in Alaska in 2012.

After initially entering the oil and gas industry in the Cook Inlet, the company acquired interests on the North Slope and now operates several major fields on the Slope, including the huge Prudhoe Bay field. The company is in the process of taking over operatorship from ExxonMobil of the Point Thomson field in the eastern North Slope — the transition in operatorship is

scheduled for around Jan. 1, 2022.

Hilcorp is now the largest field operator in Alaska, based on operated oil and gas volumes, Fisk said. The company operates more than 1,700 producing wells in the state, with gross production of about 345,000 barrels of oil per day and about 150 million cubic feet per day of gas, Fisk said.

Hilcorp manages and operates its various Alaska assets using a team structure, with one team dealing with its Southcentral assets while other teams deal with groups of fields on the North Slope.

Cook Inlet basin

Hilcorp's Southcentral team brought its new Seaview gas field in the southern Kenai Peninsula online. And the company

Continued on page 24



continued from page 23

SUCCESSFUL 10 YEARS

plans to drill soon at its nearby Whiskey Gulch gas development.

In the Cook Inlet basin Hilcorp operates one rig full time for onshore drilling and one offshore rig, together with multiple workover rigs and a coiled tubing unit, Fisk said.

The company also has to handle the challenge of maintaining the integrity of a very large amount of infrastructure in a difficult operating environment. For example, the Southcentral team is forming a plan for replacing a pipeline for the Middle Ground Shoal field, to return that field to service, Fisk said.

Major facility repairs have returned a Lisburne well pad to production, while the debottlenecking of a pad brought multiple wells drilled from that pad back online.

North Slope region

Hilcorp feels particularly proud of its achievements in the Milne Point and Prudhoe Bay units on the North Slope.

At Milne Point the successful implementation of polymer injection to improve the production of the relatively viscous oil in the Schrader Bluff formation has proven to be a particular highlight. Success with this project has motivated Hilcorp to extend the use of the technique.

In addition to the use of polymer injection, Hilcorp has drilled dozens of horizontal wells with lateral extents of more than 10,000 feet to further develop the Schrader Bluff reservoir at Milne Point, Fisk said. The result has been production rates from the field not seen for decades.

At Milne Point Hilcorp has also been constructing on-pad oil and water separation facilities that can reduce the load on the field's central processing facility. That, in turn, allows increases in production rates.

The company has also seen significant cost savings from the use of jet pumps in wells for artificial lift and plans to expand the use of this technique over the next few years, Fisk said.



The Lisburne field

Prudhoe Bay

Since taking over as operator of Prudhoe Bay in July 2020, Hilcorp has halted what had been a 4% per year decline in the field's production capacity, Fisk said, adding that this has been achieved without drilling new wells or executing any major projects.

"This achievement is due to hundreds of projects executed all across the field by hundreds of people all working towards the same goal," Fisk said.

Hilcorp has three focus areas at Prudhoe: increasing well rates; improving the efficiency and reliability of the facilities; and reducing costs through improved efficiency.

Improving well rates has involved bringing more of the existing wells online, through well repairs and other actions. Major facility repairs have returned a Lisburne well pad to production, while the debottlenecking of a pad brought multiple wells drilled from that pad back online.



Oil production at Prudhoe is also constrained by the ability of the field facilities to handle the water and gas that is cycled around from production to injection wells. By increasing daily average water rates by 200,000 barrels per day, Hilcorp has been able to add 10,000 barrels of oil to daily production. Similarly, an increase in gas rates of 500 million cubic feet per day has added another 5,000 barrels per day of oil production, she said.

Reservoir pressure is also critical to production rates. Fisk said that to push up the reservoir pressure at Prudhoe, Hilcorp has increased the gas cap water injection, so that sustained reservoir pressure has added 1,000 barrels of oil to daily production.

Since taking over as operator of Prudhoe Bay in July 2020, Hilcorp has halted what had been a 4% per year decline in the field's production capacity, Fisk said.

Returning equipment to service

In terms of facility efficiency and reliability, Hilcorp has improved the facility up-time rate from 85% to 94%, a performance improvement that equates to additional oil production of about 6 million barrels for this year, Fisk said.

Much of the improvements have resulted from returning to service out-of-service equipment, some of which has not seen use for a decade or more, she said.

In addition to maintenance and repair activities, Hilcorp's integrity program has been focusing on the effective monitoring of equipment and pipelines.

For example, the company is implementing external and internal crawler equipment that can inspect every inch of a pipeline, rather than doing spot checks, Fisk said.

Another major focus is the upgrade of the high voltage power distribution system, to prevent power outages and the resulting equipment down time, she said.

Commitment to communities

Fisk also talked about Hilcorp's commitment to Alaska communities through its charitable giving program.

In line with its philosophy of empowering its employees, the company administers the program and donates matching funds while having employees make individual decisions over which charities to donate to through the program.

"Our belief is that nobody knows better how those dollars can best be put to work than the employees themselves that live and work in those communities," Fisk said.

And Fisk expressed Hilcorp's pride in its track record in Alaska.

"Alaska has clearly been a big win for Hilcorp, but we also believe our success in Alaska is a big win for Alaska and the people that live here," she said. ●

Unlocking heavy oil

Hilcorp Alaska's Jill Fiske spoke at an Oct. 7, 2022, press conference hosted by Gov. Mike Dunleavy in regard to North Slope heavy oil

Here's a shortened version of what she had to say.

It's a privilege to be here today representing Hilcorp Alaska. We are proud to be the largest oil and gas operator and the largest gas supplier in Alaska.

Today, Hilcorp Alaska has more than 1,500 employees in the state, with roughly 75% being Alaska residents — and that number continues to increase.

Earlier this year, Hilcorp celebrated our 10-year anniversary in Alaska and what an exciting and productive 10 years it has been.

In the Cook Inlet and working our way up to the North Slope, we have found success at reinvigorating a range of legacy assets by focusing on the small details and empowering our employees to think like owners.

At Hilcorp, one of our core values is innovation, so we constantly ask ourselves: Is there a better way to do things?

This approach played an important role in how this first-of-its-kind Arctic heavy oil polymer flooding project at Milne Point came to be. Thanks in large part to our partnership with UAF and DOE, we have successfully proven that polymer injection works on the North Slope.

Since beginning the project about three years ago, we have seen production triple in the Milne Point project wells. Instead of the predicted rate of ~300 barrels per day without polymer injection, these Milne Point project wells produce ~900 barrels per day due to polymer injection.

That's a huge success that Hilcorp has replicated across the field. Today our Milne Point asset team is injecting polymer at seven pads and into more than 30 wells.

In three years, we have successfully proven that polymer can be shipped to the North Slope in bulk volumes and properly mixed with water to make viscous polymer solution in the Arctic.

And we only needed to inject less than 2 pounds of polymer to produce one additional barrel of oil, which is the best polymer utilization performance reported in the world.

We think polymer flooding has the potential to double heavy oil recovery compared with conventional waterflooding from the Schrader Bluff reservoir.

As we build on these initial successes, Hilcorp is excited about future opportunities to unlock the largely untapped North Slope heavy oil resource.

In particular, the Ugnu formation presents a fantastic opportunity. Hilcorp is focused on developing a repeatable process to drill and produce the Ugnu, which can take years to perform the research and development required to ensure long-term success.

Having great partners, like UAF and the State of Alaska, will be crucial to success. Hilcorp will continue to expand polymer flooding to additional patterns and reservoirs at Milne Point while evaluating new opportunities across the North Slope, including at Prudhoe Bay.



JILL FISK



The C/S IT Intrepid floats near an Unalaska beach while subsea fiber from GCI's AU-Aleutians Fiber Project is brought ashore.

COURTESY GCI

GCI goes above and beyond to meet future connectivity needs in Alaska

Company's rural connectivity initiative ensures its investment in Alaska has the biggest possible impact

Q. What is the official name of your company?

A. GCI Communication Corp.

Q. What do you most want people to know about your company?

A. GCI recognizes the importance of responsible resource development, and specifically how important the oil and gas industry is to Alaskans and a healthy state economy. GCI's long-term focus on modern network infrastructure across the state puts the company in a unique position to support the urban, rural and remote industrial needs of Alaska.

Q. Where is your company located?

A. GCI is headquartered in Anchorage, AK with employees across the state.

Q. What year was the company founded and by whom?

A. GCI was founded in 1979 by Ron Duncan and Bob Walp.

Ron Duncan is GCI's CEO.

Q. What is your company's primary business activity?

A. GCI provides technology solutions to meet the complex connectivity challenges facing Alaska's industries. Our resilient fiber and wireless networks, including the only redundant fiber-optic network to the North Slope, help clients meet growing highspeed bandwidth needs.

Q. Are there important projects the company is currently a part of or has done recently?

A. GCI in the midst of its AU-Aleutians fiber project, which will extend fiber-optic connectivity to six more communities, including Unalaska, King Cove, Sand Point, Akutan, Chignik Bay, and Larsen Bay. The project team recently finished deploying more than 800 miles of subsea fiber, stretching from Unalaska to Kodiak. Next, ground crews will work their way up the Aleutians, installing fiber to the premises local access networks and preparing each AU-Aleutians community for the arrival of urban-level connectivity. In partnership with the Native village of Port



Lions, the project will expand to include Chignik Lake, Chignik Lagoon, Cold Bay, False Pass, Ouzinkie, and Port Lions in the coming years.

GCI has also partnered with Bethel Native Corp. to bring affordable, reliable, high-speed internet to Western Alaska. In October, BNC and GCI announced the launch of a partnership to bring fiber-optic connectivity to Alaska's Yukon-Kuskokwim Delta. The project, named the Airraq Network, will bring 2 gigabit internet speeds and affordable plans to more than 10,000 Alaskans.

On the wireless front, GCI, which delivered the first true 5G NR wireless service in the state, beginning with Anchorage has expanded the service to Mat-Su. GCI's 5G project has not only delivered the first standards-based 5G network to Anchorage but has also improved 4G LTE speeds for all GCI wireless customers across the city. That means GCI customers don't need a 5G phone to get the benefits of GCI's next generation network upgrades. GCI is working diligently to bring a true 5G experience to the North Slope beginning with the Prudhoe Bay region where the first sites are actively being upgraded. GCI's fiber network, the backbone of the project, will deliver broadband connectivity to each of the upgraded cell sites.

Q. How many employees does your company have?

A. We have 1,900 employees.

Q. Is the company changing any of its services or products?

A. GCI, as a technology company, continually develops new products to meet the ever-changing technology needs of our customers.

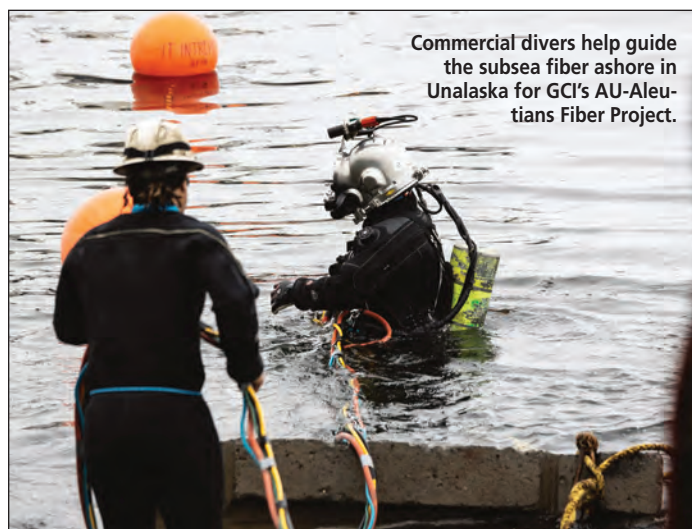
Q. What is your company's main strength or its edge over the competition?

A. GCI is committed to bringing the levels of connectivity necessary to our oil and gas customers so that all industry-specific applications, whether cloud-based or local, can be utilized when needed. The GCI team listens to the needs of our clients and brings solutions tailored to meet their current and future needs. Our philosophy focuses on detailed planning, integration, agility and customer enablement. We see this need growing significantly as the digitization of oilfield operations continues to transform the industry.

GCI also has access to the best engineers and technicians in the state who can design and maintain complex networks over multiple facilities, including fiber, coax, wireless, satellite and microwave. This team of professional telecom engineers, project managers, and industrial telecom technicians collectively have over 250 years of experience in infrastructure design, construction, commissioning, and support in remote environments across the world.

Q. What is the most challenging work/contract the company has undertaken?

A. GCI has made a habit out of taking on challenging projects to deliver service to Alaskans. From installing earth stations to connect communities via satellite more than 40 years ago, to the construction of the company's more than 3,300-mile TERRA network, which connects 45,000 Alaskans in 84 rural communities, GCI's next big challenge is extending its fiber-optic network even deeper into Alaska's telecommunications landscape. And through the construction of the AU-Aleutians fiber network



Commercial divers help guide the subsea fiber ashore in Unalaska for GCI's AU-Aleutians Fiber Project.

COURTESY GCI

and the Airraq Network, the company is partnering with the Native village of Port Lions and the Bethel Native Corp. to deploy more than 1,200 miles of fiber-optic infrastructure to the Aleutians, Alaska Peninsula, and remote communities on Kodiak Island and to 10 Western Alaska communities.

Q. What are the biggest obstacles to completing work your company undertakes?

A. Short construction seasons, challenging logistics in rural Alaska, harsh Alaska weather conditions, and limited local talent resource pool.

Q. What do you see as your company's biggest challenge in the next five years?

A. Economic uncertainty is a challenge for any business but the most specific challenge will be the retention and recruitment of a highly specialized, skilled workforce to meet the demands of broadband and other major infrastructure projects. Alaska is expected to receive more than \$1 billion in federal funding for broadband infrastructure grants in the coming years. We need to ensure that we have a skilled workforce ready to build, operate and maintain these vital projects.

Q. What is your company's safety record? What steps does the company take to ensure a safe work environment?

A. Safety is a core value of the GCI team. Nowhere is this focus more apparent than the success of our team achieving 3.45 million employee hours without a lost time accident, as well as 2 million hours since our last recordable incident in support of oil, gas, and mining.

Q. Has your company been involved in any community projects or charity events?

A. GCI is one of Alaska's leaders in corporate philanthropy, donating approximately \$2 million each year in cash, products and connectivity to organizations across the state. GCI is committed to giving back to the communities it serves and provides employees with 16 hours of paid leave to volunteer with local organizations.

Q. What is the address of your company's Web site?

A. <https://www.gci.com/business/solutions/energy>



COURTESY NANA

A modular housing unit is constructed at NANA Construction's world-class fabrication facility in Big Lake, Alaska.

NANA celebrates 50 years of impeccable service throughout the natural resource industry

Service provider of choice continues company mission through shareholder hire, development, and sustained revenue growth

Q. What is the official name of your business?

A. NANA's Natural Resources Sector manages a group of companies that provide services to the resource industry in Alaska at remote locations including Prudhoe Bay, Red Dog Mine, Bornite, Pogo Mine and Fort Knox.

Companies that are a part of the Natural Resources Sector include:

NANA Construction, a full-service general contractor with a world-class strategically located fabrication facility in Big Lake, Alaska, where they construct processing modules, camp and of-



fice modules, and arctic-grade modular homes.

Kuna Engineering, a multi-disciplined design firm providing engineering, architecture and surveying services. Kuna's engineering specialties include civil, electrical, environmental, mechanical, water resources and water/wastewater.

NMS, a support services firm with more than 40 years of experience in food and facilities management, camp services, security, hotel management and workforce development. NMS is a joint venture between NANA and global food and facilities management firm Sodexo.

NANA Worley, a project delivery company focused on multi-discipline engineering, design, procurement and construction management for the resources sector. NANA Worley is a joint

venture between NANA and global engineering giant Worley.

DeLong Mountain Logistics, a joint venture between NANA and Lynden Logistics that operates marine cargo, concentrate handling, fuel transport services and logistics work at the Red Dog Mine.

Paa River Construction, a joint venture between NANA and Alaska Frontier Constructors that provides civil construction, aggregate production and mining support services. The company owns a fleet of equipment and has primarily focused on business opportunities at the Red Dog Mine.

Q. Is your firm a subsidiary or affiliate of other companies? If so, please name those firms and their relationship to your business group.

A. As the name implies, our sector is part of NANA Regional Corp.'s family of companies. NANA is one of the 12 Alaska Native regional corporations formed under the Alaska Native Claims Settlement Act of 1971.

Q. What do you want people to know about your business group?

A. NANA's mission is to improve the quality of life of its shareholders. Our businesses in the natural resource sector support that mission through shareholder hire and development, and sustained revenue growth, by being the service provider of choice for our customers.

We are successful in business because we work hard for our customers. NANA has supported the resource industry in Alaska for nearly 50 years, working safely and efficiently in remote and harsh environments. Our companies have been proud to receive numerous safety awards from their clients.

Our companies have talented, experienced employees who do great work for our clients every day. Standing with them are our joint venture partners — large, successful global firms that we have worked with for decades.

Q. Where is your business group located?

A. NANA's headquarters is in the northwest Alaska community of Kotzebue, Alaska, with an office in downtown Anchorage. The companies in our sector are headquartered in Anchorage and in Big Lake.

Q. Are there important projects the business group is currently a part of or has done recently?

A. Our companies work on projects throughout Alaska for clients in the resources sector, for all phases of resource development including exploration, permitting, construction, production and transportation.

Some of our noteworthy projects include: fabrication of processing and camp modules for the North Slope; ConocoPhillips GMT2 module fabrication; Trans-Alaska Pipeline survey term contract; camp management and security at Prudhoe Bay and along the Trans Alaska Pipeline System; engineering, procurement and construction support for North Slope drill sites; design and engineering of the new Golden Valley Electric power plant; upgrades to Red Dog Mine concentrate storage buildings; construction and maintenance activities at both Pogo Mine and Fort Knox; design/build package for 8,400-square-foot heavy equipment warm storage and 1,800-square-foot administrative building for the city of Soldotna modular housing for rural Alaska.



An NMS security officer is on the job in Prudhoe Bay.

COURTESY NANA



NANA Worley engineering and design staff work onsite at North Slope Alaska facilities.

COURTESY NANA

Q. How many employees does your business group have?

A. Depending on the season, with summer being the peak, we have close to 4,000 employees.

Q. What are the biggest obstacles to completing work your business group undertakes?

A. The labor market continues to be very challenging. We have employees who work in office environments, but most of our work is hands-on. Right now, we have job opportunities ranging from entry-level to management positions. We are working hard to attract people to these jobs, with good pay and benefits, rotating shifts, training in critical trades and advancement opportunities. We are setting up a dormitory at our Big Lake facility to house and train shareholders coming from the NANA region in skilled trades positions.

Q. Does your company have an anniversary or other landmark event coming up?

A. NANA is celebrating its 50th anniversary in 2022, which means that we've been in business for 50 years as well. NMS, originally NANA Commercial Catering, has served companies on the North Slope since 1974.

Q. What is the address of your company's Web site?

A. You can find the NANA Natural Resources Sector companies on the nana.com website, under about us, business.

ON THE JOB: Lynden

Photos courtesy Lynden

Lynden: Your Key to the North Slope





LYNDEN OILFIELD SERVICES™

From the Trans-Alaska Pipeline construction in the 1970s to today's global oilfield operations and exploration, Lynden has a long history of supporting the oil and gas industry in Prudhoe Bay.

Transportation and logistics are critical to the activity on the North Slope. Utilizing the full capabilities of the Lynden family of companies, Lynden Oilfield Services provides multi-modal air, sea and land services including heavy haul options for drilling contractors, chemical suppliers, camp support, construction and all phases of resource activity throughout the North Slope and offshore Alaska. Heavy haul and oversized loads such as camp modules, process modules, drill rigs, pipe, bulk liquids and bulk dry product are regularly moved to the North Slope from locations around the world.

With an established operating base in Deadhorse, Lynden Oilfield Services has both the equipment and experienced on-site staff to ensure logistics – including last mile services – are completed efficiently and according to plan.



COMPANY NEWS *in brief*

Cook Inlet Tug & Barge recognized for safety innovation

Saltchuk announced Oct. 24 that Mark Theriault, Cook Inlet Tug & Barge director of operations, will accept the 2021-2022 President's Award for Innovation in Safety on behalf of his team. Theriault was nominated by Cook Inlet Tug & Barge President Jeff Johnson for his team's man overboard recovery winch design and installation as well as for new safety railings and markings.

"Mark has provided a visible and felt leadership over the years," Johnson wrote in his nomination. "He fosters a culture of empowerment, innovation, and genuine care for each other's safety."

Theriault, in turn, nominated each of his three-member team and will accept the award on their behalf.

Engineer Jeff Bamford designed and installed the slide-away gangway that is more robust and sturdier for the Arctic environment. Mate William Clock "consistently provides safe and innovative solutions for the tugs and Cook Inlet dock," according to Theriault. His most recent achievements include the creation of an improved retrieval ladder for man overboard on the sides of the tugs and hex screws on tires. Meanwhile, Captain Eric Nyce assisted in the planning, installation and testing of the man overboard recovery winch that is mobile and portable to any side of a tug.

Congratulations to Theriault and team and all the 2021-2022 nominees for making Saltchuk companies safe places to work



MARK THERIAULT

Coffman Anchorage engineer earns professional license

Coffman Engineers Inc. said Sept. 26 that it is pleased to announce Spencer Osgood's achievement on earning his Alaska Professional Engineering license in civil engineering.

Osgood graduated from Colorado State University in Fort Collins with a Bachelor of Science in civil engineering. He joined Coffman in 2016 as an intern supporting the corrosion control engineering department performing cathodic protection surveys. After graduating, he transitioned to a full-time position in the civil engineering department.

Osgood's experience includes commercial, industrial and military projects throughout Alaska and the Pacific Islands. He has knowledge in hydrological engineering including water, stormwater and wastewater utility systems, as well as site design, project coordination and design, permitting, trenchless utility design and fuel storage containment systems. He is also certified as a NACE cathodic protection technician and contin-



SPENCER OSGOOD

ues to support corrosion control projects.

Osgood credits his growth as an engineer on the mentorship he received from colleagues and the experience he gained on a wide scope of projects - from oil and gas industry projects to replacing sanitary systems with air vacuum systems in the Pacific Islands region. He has also learned from his clients. He leverages the good relationships he's built with them to understand their needs and challenges to find practical applications for each project. "We congratulate Spencer on obtaining his PE and look forward to a very bright future," said Coffman principal civil engineer, Mike Frison, PE.

ASTAC Annual Meeting's Return to In-Person

ASTAC said Sept. 29 that this fall has proven to be the rainiest on record for the state and normally that would keep people from getting out, but during the week of September 12th ASTAC's team and board held the 2022 annual meetings on the North Slope and had a great turnout. Quorum was met for every community, through online voting, mail-in ballots and in-person meeting attendance, exceeding membership participation of years past. Point Hope, Point Lay and Atkasuk incumbents John Long Jr., Sophie Tracey and Della Segevan were re-elected to new three-year terms on the board of directors. ASTAC's team and board would like to thank the membership for their participation in this year's voting process. In addition to the three board seats all districts voted and successfully passed two bylaw amendments. The cooperative was grateful to hold its meetings in-person for the first time in a couple years. The management team was able to share information about recent retired capital credits, executive reports and project updates throughout the week. Members had positive feedback at each meeting which greatly contributes to the direction of the co-op. ASTAC CEO and General Manager Jens Laipenieks said, "It is great to have returned to in person meetings. The turnout and balloting participation continue to increase year-over-year and it's great to have such an active membership. Thank you to our district communities and facility hosts for a wonderful meeting week. We look forward to seeing everyone for Swoosh." For more information about ASTAC visit www.astac.net.

ASTAC awarded \$30,970,030 USDA ReConnect grant

Arctic Slope Telephone Association Cooperative Inc. said Sept. 22 that it has been awarded \$30,970,030 in funding for a transformational broadband project in remote Alaska. The grant will provide ASTAC with the means to expand its terrestrial network to provide customers in Point Lay and Anaktuvuk Pass with access to high-speed broadband by way of Point Hope and the Dalton Highway.

Funding is being provided through the U.S. Department of Agriculture's rural utilities service ReConnect grant program. Upon completion both projects will allow for high-speed broad-

band at or above 100 Mbps in each community. Both villages have traditionally been served by satellite bandwidth, which is prohibitively expensive, and has limited capacity and very high latency.

"We are thrilled the USDA has awarded ASTAC the funding to make a broadband transformation in the final two ASTAC service communities," said ASTAC General Manager/CEO Jens Laipenicks. "At the direction of our Board of Directors, it has been our goal to connect all nine ASTAC markets to high-quality, terrestrially served broadband. Upon completion, Point Lay and Anaktuvuk Pass will follow Utqia viik, Point Hope, Wainwright, Nuiqsut, Deadhorse, and Atkasuk as fully fiber-connected communities. This grant will be instrumental in achieving that goal and further closes the digital opportunity gap between remote and urban Alaska."

ASTAC anticipates the project to begin in 2023, with a projected in-service date of mid-2025. For more information, visit www.astac.net.

Alaska Marine Lines adds reefers to ease supply chain

As reported by Lynden News Sept. 8, Alaska Marine Lines' new refrigerated containers enter service just in time. This year's record Bristol Bay sockeye harvest is moving in the 852 containers that were delivered straight from the production line to Dutch Harbor, Alaska, in May.

The containers are the latest in efficient refrigerated operations. They feature temperature-controlled software that can vary the fan speed and control the compressors to match the conditions and current cooling demand. That translates into a power draw one-fifth that of older containers. Less power required to run the reefers means fewer generators running, less fuel consumption and lower carbon emissions.

"In the Southeast lane alone the lower amp draws of the Star-Cool units have allowed us to transition from running four or five generators on the northbound sailings to only one generator running 70-plus reefers," says Steve Hardin, director of equipment and maintenance at Alaska Marine Lines. "The savings in fuel and maintenance alone have been significant."

The containers are now at work moving seafood, groceries and temperature-sensitive products. They join AML's extensive fleet of dry vans, flats, tanks, and open-tops and will serve customers for many years to come.



Ahtna Netiye' ranked No. 151 on ENR top 200 list

Ahtna Netiye' LLC said Sept. 7 that it has been recognized as one of the Engineering News Record magazine's 2022 top 200 environmental firms, jumping 38 spots to rank at 151. This was achieved while facing the COVID-19 pandemic as well as the global economic headwinds of ramped inflation, surging com-

modity prices, global supply chain delays and fuel price escalation. Despite these impacts, the Ahtna family of companies has emerged stronger than ever.

AN Chief Executive Officer Tom Maloney remarked, "We are incredibly proud to be recognized as a leading environmental firm for two years running. This achievement would not be possible without our dedicated team's attention to quality service, reliable performance and consideration of each project's environmental impact. As our company mission states, we are focused on wise stewardship of Ahtna's lands and responsible economic growth with an emphasis on safety and respect. We will continue to provide safe and sustainable solutions for our clients."

The Ahtna family of companies' environmental experience spans a wide range of services, from environmental site assessments to implementation of remediation technologies and regulatory closure of sites, to utilizing the latest mapping and imaging technology for complex data analyses and monitoring. Ahtna is also positioned to support the growing future challenges of climate change and extreme weather impacts on sensitive habits and coastal areas.

Coffman Engineers, Tija Baker, earns engineering license

Coffman Engineers Inc. said Aug. 25 that it is pleased to announce Tija Baker's achievement on earning her Alaska professional engineering license in mechanical engineering.

Baker graduated from the University of Alaska Anchorage with a Bachelor of Science, with a concentration in mechanical engineering. She joined Coffman in 2011 and is also certified as a NACE cathodic protection technician and an American Petroleum Institute 570 piping inspector.

Baker manages and performs facility piping corrosion inspection programs for large and small oil and gas companies. She has experience performing corrosion control field engineering support for annual cathodic protection surveys, designing cathodic protection systems for corrosion mitigation projects and assists in design engineering. She has worked with various oil companies on numerous pipeline projects and has traveled to work throughout rural Alaska, Washington and Hawaii.



TIJA BAKER

High-speed broadband coming to Doyon region

As reported by Doyon News Aug. 8, more than 1,000 rural Alaskans in five communities along the Yukon River will receive affordable, high-speed internet for the first time thanks to a tribal broadband grant funded by the National Telecommunications and Information Administration.

The collaboration between Doyon Ltd. and Alaska Communications will connect one of the most underserved regions in the United States with a fiber-optic cable that will be the foundation

Continued on page 54



Active companies

Air Passenger/Charter & Support

Maritime Helicopters

3520 FAA Rd
Homer, AK 99603
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Phone: 907-235-7771
Fax: 907-235-7773
E-mail: bfell@maritimehelicopters.com
Website: www.maritimehelicopters.com
45 years providing Alaska helicopter/vessel services for oil, gas, seismic, mineral exploration, survey, external load and construction industries. Bell Helicopter Customer Service Facility. Bell 206L series, Bell 407, Bell 412HP, AW119 and BO-105 twin engine. 86ft research vessel with heli-pad and jet fuel. Department of Defense, Office of Aircraft Services, State of Alaska approved. Arctic/Aleutian experience. Facilities in Homer, Fairbanks, Kodiak and Valdez.

Northern Air Cargo, Inc.

3900 Old International Airport Rd.
Anchorage, AK 99502
Contact: Gideon Garcia, VP, General Manager
Phone: (907) 249-5198
E-mail: ggarcia@nac.aero
Website: www.nac.aero

Anchorage-based Northern Air Cargo Inc. (NAC) is Alaska's largest, all-cargo airline. From groceries to generators, NAC delivers an array of supplies to rural communities throughout the state and beyond. Residents and businesses alike have relied on NAC's commitment to transport their freight quickly, reliably and safely since 1956. With their ability to deliver small, large and unique items across oil & gas, mining, construction and commercial fishing industries, NAC has become Alaska's most trusted all-cargo carrier.

Architecture

EEIS Consulting Engineers

P.O. Box 92169
Anchorage, AK 99509-2169
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Phone: (907) 258-3231
Fax: (907) 272-1288
Email: rbutton@eeis.net
Website: www.eeis.net
Petroleum Facility Design, Camp Modules & Steel Modules Design, Architectural & Structural Engineering, Piping Engineering Services, Civil Engineering, Fire Marshals' Submittals/Permitting, Procurement & Logistics Management, On-Site Engineering Representation.

Arctic Engineering

Coffman Engineers

800 F Street
Anchorage, AK 99501
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Phone: (907) 276.6664
Email: tom.looney@coffman.com
Website: www.coffman.com
Coffman Engineers' innovative arctic engineering services meet the logistical and engineering challenges of cold climates and landscapes in the region. We apply technical knowledge, over four decades of industry experience, and leading technology in cold conditions to meet arctic engineering standards and client objectives.

Doyon Anvil, LLC

509 W. 3rd Avenue, Suite 200
Anchorage, AK 99501
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Website: www.doyonanvil.com
Doyon Anvil, LLC, a joint venture between Doyon Emerald Services and Alaska Anvil, provides a full suite of multi-discipline engineer-

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ing and design, process safety/risk management, procurement, and project management to the oil and gas industry, including production, transportation, and refining.

EEIS Consulting Engineers

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Petroleum Facility Design, Camp Modules & Steel Modules Design, Architectural & Structural Engineering, Piping Engineering Services, Civil Engineering, Fire Marshals' Submittals/Permitting, Procurement & Logistics Management, On-Site Engineering Representation.

F.R. Bell and Associates, Inc.

801 W. Fireweed Ln., Suite 201
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Website: www.bellalaska.com
Other office:
Prudhoe Bay
MCC Projects PRB-38 Box 13
Prudhoe Bay, AK 99734
We have been proudly providing engineering, surveying, and 3D laser scanning services on the North Slope since 1974.

Lounsbury and Associates, Inc

3230 C St. Suite 201
Anchorage, AK 99503
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E-mail: jake.g@lounsburyinc.com
Phone: (907) 272-5451
Fax: (907) 272-9065
Website: www.lounsburyinc.com
Civil Engineering and Construction Administration services. We are the remote industrial road and gravel mine site development experts.

Michael Baker International, Inc.

3900 C Street, Suite 900
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Alaska Operations Manager
Phone: (907) 273-1600
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Website: www.mbakerintl.com
Michael Baker is internationally recognized for arctic engineering, playing a key role in Alaska's renowned infrastructures including TAPS and groundbreaking projects on the North Slope. Services include pipelines, transportation, hydrology, architecture, and geotechnical, with specialty services for bridge inspection, permitting and regulatory compliance, and GIS and LiDAR mapping.

NANA Worley LLC

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Website: www.nanaworleyparsons.com
NANA Worley provides multi-discipline engineering and design, project management, procurement, project controls and construction management for various industries including hydrocarbons, mining infrastructure, and power industries. NANA Worley also has a subsidiary, Kairos, LLC that focuses on innovative solutions for our customers, and has developed and patented a lease-based Mobile Arctic Production System, "MAPS".

PND Engineers Inc.

1506 W 36th Ave.
Anchorage, AK 99503
Contact: Jim Campbell, P.E., president
Contact: Dempsey Thieman, P.E., senior vice president
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Other Offices: Palmer, Juneau, Seattle, Portland, Houston and PND Engineers Canada (Vancouver)
Website: www.pndengineers.com
Innovative design solutions in ice engineering, arctic hydrology, permafrost engineering, and Arctic geotechnical engineering, including bridges, ports, buildings, roads, airfields, offshore islands, and oilfield development.

Aviation Fuel Sales

Maritime Helicopters

3520 FAA Rd
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Website: www.maritimehelicopters.com
45 years operating throughout Alaska providing Helicopter/Vessel support services for oil and gas, seismic, mineral exploration, survey, external load and construction industries. Bell Helicopter Customer Service Facility. Bell 206L series, Bell 407, Bell 412HP and BO-105 twin engine and AW119 helicopters. 86 foot research vessel with heli-pad and jet fuel. Department of Defense, Office of Aircraft Services, State of Alaska vendor approved. Extensive Arctic/Aleutian experience.

Buildings – Lease

Alaska Dreams, Inc.

2081 Van Horn Rd., Suite 2
Fairbanks, AK 99701
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Fairbanks Office Phone: (907) 455-7712
Anchorage Office Phone: (907) 646-1219
Fax: (907) 455-7713
E-mail: info@alaskadreamsinc.com
Website: www.alaskadreamsinc.com
Alaska Dreams, Inc. specializes in the design, supply and construction of steel-framed, fabric covered buildings for commercial and industrial applications. Alaska Dreams, Inc. is also a Varco Pruden metal building supplier and constructor, offering a complete line of engineered, clear span, fully-customized buildings that are able to meet any Alaska requirements.

Buildings – Modular

Alaska Dreams, Inc.

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Alaska Dreams, Inc. specializes in the design, supply and construction of steel-framed, fabric covered buildings for commercial and industrial applications. Alaska Dreams, Inc. is also a Varco Pruden metal building supplier and constructor, offering a complete line of engineered, clear span, fully-customized buildings that are able to meet any Alaska requirements.

Surepoint Technologies Group US Ltd.

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Phone: (780) 554-1099
Email: otto.hansen@surepoint.ca
Website: www.surepoint.ca
Established in 2003, Surepoint Group is a premier industrial contractor specializing in compression, power generation, electrical and instrumentation, automation, telecom, equipment fabrication and integrated modular solutions. We work within many sectors and have branches located in strategic areas in order to provide our clients with dependable and responsive service.

Camps, Catering & Lodging

Calista Corporation

5015 Business Park Blvd., Suite 3000
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Phone: (907) 275-2800
Fax: (907) 275-2919
Website: www.calistacorp.com
Calista is the parent company of more than 30 subsidiaries. In terms of land area and Shareholder base, Calista is the second largest of the Regional Alaska Native corporations established under ANCSA in 1971. Like us on Facebook www.facebook.com/calistacorporation and follow us on Twitter twitter.com/calistacorp

Colville

Pouch 340012
Prudhoe Bay, AK 99734
Contacts: Dave Pfeifer, President & CEO;
Brad Osborne, COO
Phone: (907) 659-3198
Phone: (888) 659-3198
Fax: (907) 659-3190
Premier lodging in Prudhoe Bay. 334 Single Status rooms with private bath and 3 hot meals served daily. A fully equipped exercise facility, recreation room, 2 large laundry rooms, and 24 hour spike room make this your home away from home.

Denali Universal Services, LLC

11500 Sukdu Way, Suite 100
Anchorage, AK 99515
Contact: Annette Sheppard, Director Business

Development and External Affairs
Phone: (907) 263-6105
Fax: (907) 522-3531
Email: asheppard@denaliuniversal.com
Website: www.denaliuniversal.com
The Facility Services of Denali Universal Services (DUS) prides itself on being the industry leader among support service contractors in Alaska. We have a proven track record in our industry for Safety, Service and Quality Product.

Doyon, Limited

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Fairbanks, AK 99701
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Email: communications@doyon.com
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Doyon, Limited is the regional Native Corporation for Interior Alaska. Operating more than a dozen for-profit companies, Doyon, Limited is a distinct driver of hundreds of jobs in Alaska and beyond. Our companies blend expertise and technological muscle in support of smooth, safe and successful operations in the North Slope oil fields.

NANA Management Services (NMS)

800 E. Dimond Blvd., Suite 3-450
Anchorage, AK 99515
Contact: Jason Carlson, V.P. of Ops., Camp Services
Phone: (907) 273-2468
E-mail: jason.carlson@nmsusa.com
Website: www.nmsusa.com/
At NMS, our mission is to provide management and support services at a level of quality, value, safety and expertise beyond our clients' expectations. Our award-winning camp services teams provide food and facilities management, security, housekeeping and janitorial, billeting, commissary management, water and wastewater services and logistics support.

Nordic-Calista LLC

375 West 36th Ave., Ste. 300
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Website: www.nordic-calista.com
Nordic-Calista Services is a drilling and work over company operating primarily on the North Slope of Alaska. In addition, we provide drilling rig labor, camp and catering services. All of our equipment is custom-designed and built.

Cellular Communications

Arctic Slope Telephone

Association Cooperative, Inc.
4300 B St., Ste. 501
Anchorage, AK 99503
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Phone: (907) 564-2643
Email: rebecca@astac.net
Website: www.astac.net
ASTAC's Nomadic WAN and high-speed Inter-

net service using the North Slope's only private LTE network covering the oil fields, helps clients meet their diverse bandwidth needs. In January 2021, ASTAC was the first to provide 4G LTE coverage from the Brooks Range to Deadhorse where no other coverage had existed previously.

AT&T

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GCI

2550 Denali Street, Ste. 7000
Anchorage, AK 99503
Contact: Bryan Arnold, Major Account Manager
Email: barnold1@gci.com
Phone: (907) 744-2324
Website: gci.com/business
GCI provides technology solutions to meet the complex challenges facing Alaska's energy sector. Our resilient fiber and LTE networks, including the only redundant fiberoptic network to the North Slope, help clients meet growing highspeed bandwidth needs. With more than 3.4 million hours with no LTA, we operate safely in challenging landscapes.

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360 E 100th Ave
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Email: sales@autolaundrysystems.com
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Automated Laundry Systems & Supply provides Commercial Laundry, Kitchen & Floor Care equipment designed for the unique needs of the petroleum and gas industries. Products and services include design consultation, energy saving equipment, oem parts, technical service, supplies, and injections systems for Chemicals including janitorial, housekeeping, kitchen, and laundry.

ChampionX

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Contact: Derek Lewis, District Manager
Phone: (907) 563-9866
Fax: (907) 563-9867
E-mail: dalewis@ecolab.com
ChampionX leads the industry in creating value through differentiated services and technologies that save water, energy, and air; while reducing customer's total costs of operation.

Communications

Arctic Slope Telephone

Association Cooperative, Inc.
4300 B St., Ste. 501
Anchorage, AK 99503
Contact: Rebecca Sparks, External Relations Manager
Phone: (907) 564-2643
Email: rebecca@astac.net

Website: www.astac.net
ASTAC's Nomadic WAN and high-speed Internet service using the North Slope's only private LTE network covering the oil fields, helps clients meet their diverse bandwidth needs. In January 2021, ASTAC was the first to provide 4G LTE coverage from the Brooks Range to Deadhorse where no other coverage had existed previously.

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Fax: (907) 275-2919
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North Slope Telecom Inc.

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Phone: (907) 290-0207
Email: djohnston@torcsill.com
Website: www.torcsill.com
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Anchorage, AK 99509
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Phone: 907-290-8031
Phone: 907-351-8089 cell
Email: john@alaskamaterials.com
Website: www.alaskamaterials.com
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Fax: (907) 563-4220
Other Offices: Palmer, Juneau, Seattle, Portland, Houston and PND Engineers Canada (Vancouver)
Website: www.pndengineers.com
PND provides full service civil engineering design and construction project management services, including contract administration and construction inspection for the oil and gas industry.

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3601 C St., Ste. 1424
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Contact: Tom Walsh
Phone: (907) 272-1232
Fax: (907) 272-1344
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PRA provides project management services for construction and drilling projects across Alaska, for a broad base of clients and a diverse array of projects.

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Phone: (907) 278-4400
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Other Offices:
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EPC contractor performing oil field support, pipeline construction, power and process facilities, and other heavy industrial projects statewide.

Consulting

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Contact: Kirsten Ballard,
Director of ARCTOS Services
Phone: (907) 245-4230
Email: Kirsten.ballard@nortechengr.com
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Contact: Tom Looney
Phone: (907) 276.6664
Email: tom.looney@coffman.com
Website: www.coffman.com
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Anchorage, AK 99518
Contact: Sunil Sethi, President
Phone: (907) 644-4522
Fax: (907) 644-4523
E-mail: ssethi@computing-alt.com
Website: www.computing-alt.com
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Contact: Terry Caetano, President and General Manager

Phone: 907.677.3021
 Email: tcaetano@anvilcorp.com
 Website: www.doyonanvil.com
Doyon Anvil, LLC, a joint venture between Doyon Emerald Services and Alaska Anvil, provides a full suite of multi-discipline engineering and design, process safety/risk management, procurement, and project management to the oil and gas industry, including production, transportation, and refining.

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 Email: swalker@owlrighdenrc.com
 Other office: 2311 Sheldon Ave., Suite A
 Fairbanks, AK 99701
 Website: www.owlrighdenrc.com
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 Contact: Tom Walsh
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PRA's multidisciplinary staff of highly experienced professionals possess a diverse array of technical capabilities to provide our clients with a full spectrum of geoscience, engineering, project management, and management consulting services. We can work as embedded temporary employees, as individual contributors, or as integrated teams to address a multitude of oil and gas issues.

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Contractors – General

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 Contact: Roy J. Tansy, Jr.,
 Chief Operating Officer
 Phone: (907) 868-8250
 Fax: (907) 868-8285
 Email: news@ahntna.net
 Other Office:
 Anchorage Office
 110 West 38th Ave., Suite 100
 Anchorage, AK 99503
 Website: www.ahntna.com
Ahtna, Incorporated is a premier Alaska Native Regional Corporation based in Glennallen, Alaska. We are a trusted partner in Alaska's resource development industry. Our multi-disciplinary staff of professionals provides construction, aggregate production, environmental services, engineering, operations and maintenance, spill response and prevention, facilities management, logistics and security support.

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 Fairbanks, AK 99701
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 Fairbanks Office Phone: (907) 455-7712
 Anchorage Office Phone: (907) 646-1219
 Fax: (907) 455-7713
 E-mail: info@alaskadreamsinc.com
 Website: www.alaskadreamsinc.com
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Other Offices:
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Anchorage, AK 99502
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Phone: (907) 717-1099
Phone: (780) 554-1099
Email: otto.hansen@surepoint.ca
Website: www.surepoint.ca
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Fax: 907-569-5005
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E-Mail: rwilson@doyondrilling.com
info@doyondrilling.com
Website: www.doyon.com
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Doyon, Limited is the regional Native Corporation for Interior Alaska. Operating more than a dozen for-profit companies, Doyon, Limited is a distinct driver of hundreds of jobs in Alaska and beyond. Our companies blend expertise and technological muscle in support of smooth, safe and successful operations in the North Slope oil fields.

Geolog Americas, Inc.

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Anchorage, AK 99515
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Nordic-Calista LLC

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Contact: Udo Cassee
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PRA has extensive experience and capabilities in managing drilling projects, from permitting and design through procurement and field operations supervision. PRA's drilling engineers have managed projects across the North Slope, interior basins, and Cook Inlet Basin. We offer drilling operations supervision, wellsite geologists, and HSE planning and compliance services.

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Fax: (907) 644-6243
Email: dwaters@waterspetro.com
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Waters Petroleum Advisors provides Geo-science & Engineering services to oil and gas companies operating in Alaska, Canada & the Lower 48. Such services include the following: Wellsite Geology and Engineering Operations, Geosteering, Petrophysical and Image Interpretation, Geological & Geophysical Interpretation, Regional Geologic Studies, Prospect Generation & Evaluation, Development Geology and Reservoir Modeling.

Electrical

Surepoint Technologies Group US Ltd.

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Anchorage, AK 99502
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Phone: (780) 554-1099
Email: otto.hansen@surepoint.ca
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Fax: (907) 522-2541

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Fax: (907) 265-4850
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Energy Services

EXP Energy Services

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Contact: Chris Humphrey, VP Arctic Region
Phone: (907) 868-1185
Email: chris.humphrey@exp.com
Website: www.exp.com
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Email: tthorson@acuren.com
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Ahtna, Incorporated

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Other Office:
Anchorage Office
110 West 38th Ave., Suite 100
Anchorage, AK 99503
Website: www.ahtna.com
Ahtna, Incorporated is a premier Alaska Native Regional Corporation based in Glennallen, Alaska. We are a trusted partner in Alaska's resource development industry. Our multi-disciplinary staff of professionals provides construction, aggregate production, environmental services, engineering, operations and maintenance, spill response and prevention, facilities management, logistics and security support.

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Coffman Engineers

800 F Street
Anchorage, AK 99501
Contact: Tom Looney
Phone: (907) 276.6664
Email: tom.looney@coffman.com
Website: www.coffman.com
Serving Alaska's upstream, midstream, and downstream clients for more than 42 years, Coffman Engineers provides fit-for-purpose

multidiscipline engineering solutions. Our engineering services include civil, structural, mechanical, process, electrical, instrumentation and controls, fire protection, life safety, commissioning, corrosion control, and alternative and renewable energy.

Doyon Anvil, LLC

509 W. 3rd Avenue, Suite 200
Anchorage, AK 99501
Contact: Terry Caetano, President and General Manager
Phone: 907.677.3021
Email: tcaetano@anvilcorp.com
Website: www.doyonanvil.com
Doyon Anvil, LLC, a joint venture between Doyon Emerald Services and Alaska Anvil, provides a full suite of multi-discipline engineering and design, process safety/risk management, procurement, and project management to the oil and gas industry, including production, transportation, and refining.

Doyon, Limited

1 Doyon Place, Ste. 300
Fairbanks, AK 99701
Contact: Cheyenna Kuplack, Communications Manager
Phone: (907) 459-2097
Fax: (907) 459-2060
Email: kuplackc@doyon.com
Email: communications@doyon.com
Website: www.doyon.com
Doyon, Limited is the regional Native Corporation for Interior Alaska. Operating more than a dozen for-profit companies, Doyon, Limited is a distinct driver of hundreds of jobs in Alaska and beyond. Our companies blend expertise and technological muscle in support of smooth, safe and successful operations in the North Slope oil fields.

EEIS Consulting Engineers

P.O. Box 92169
Anchorage, AK 99509-2169
Contact: Rick Button, P.E., president
Phone: (907) 258-3231
Fax: (907) 272-1288
Email: rbutton@eeis.net
Website: www.eeis.net
Petroleum Facility Design, Camp Modules & Steel Modules Design, Architectural & Structural Engineering, Piping Engineering Services, Civil Engineering, Fire Marshals' Submittals/Permitting, Procurement & Logistics Management, On-Site Engineering Representation.

EXP Energy Services

725 East Fireweed Ln.
Suite 300
Anchorage, AK 99503
Contact: Chris Humphrey, VP Arctic Region
Phone: (907) 868-1185
Email: chris.humphrey@exp.com
Website: www.exp.com
With 50+ years across the energy industry and 12 years in Alaska, EXP is a 3500+ person multidisciplinary engineering, architecture, design and consulting firm with over 90 offices. We offer full-service engineering, environmental regulatory/permitting and integrity management services for energy and resource projects, with a proven track record of delivery focused on results.

F.R. Bell and Associates, Inc.

801 W. Fireweed Ln., Suite 201
Anchorage, AK 99503
Contact: Frank Bell, MS, COO
Phone: (907) 274-5257
Fax: (907) 743-3419

Email: fbell@frbcmh.com
Website: www.bellalaska.com

Other office:
Prudhoe Bay

MCC Projects PRB-38 Box 13
Prudhoe Bay, AK 99734

We have been proudly providing engineering, surveying, and 3D laser scanning services on the North Slope since 1974.

GCI

2550 Denali Street, Ste. 7000
Anchorage, AK 99503

Contact: Bryan Arnold,
Major Account Manager
Email: barnold1@gci.com
Phone: (907) 744-2324

Website: gci.com/business

GCI provides technology solutions to meet the complex challenges facing Alaska's energy sector. Our resilient fiber and LTE networks, including the only redundant fiberoptic network to the North Slope, help clients meet growing highspeed bandwidth needs. With more than 3.4 million hours with no LTA, we operate safely in challenging landscapes.

Kuna Engineering

4300 B Street, Suite 605
Anchorage, AK 99503

Contact: Jay Hermanson, General Manager
Phone: 907-339-6514

Email: jay.hermanson@kunaeng.com
Website: www.kunaeng.com

Kuna is a multi-disciplined A/E/S business providing innovative solutions to projects and communities throughout our state for 40 years, including a multitude of services for Alaska's mining, oil, and gas industries. Services include civil, structural, mechanical, and electrical engineering; architectural, environmental and survey services; and project planning and management.

Lounsbury and Associates, Inc

3230 C St. Suite 201
Anchorage, AK 99503

Contact: Jake Gerondale, President
E-mail: jake.g@lounsburyinc.com
Phone: (907) 272-5451

Fax: (907) 272-9065
Website: www.lounsburyinc.com

Civil Engineering and Construction Administration services. We are the remote industrial road and gravel mine site development experts.

Michael Baker International, Inc.

3900 C Street, Suite 900
Anchorage, AK 99503

Contact: Jeffrey Baker, PE,
Alaska Operations Manager
Phone: (907) 273-1600
Fax: (907) 273-1699

E-mail: jlbaker@mbakerintl.com
Website: www.mbakerintl.com

Michael Baker is internationally recognized for arctic engineering, playing a key role in Alaska's renowned infrastructures including TAPS and groundbreaking projects on the

North Slope. Services include pipelines, transportation, hydrology, architecture, and geotechnical, with specialty services for bridge inspection, permitting and regulatory compliance, and GIS and LiDAR mapping.

NANA Worley LLC

3700 Centerpoint Drive, 7th Floor
Anchorage, AK 99503

Contact: Wyche Ford, President
Email: info@nanaworleyparsons.com
Phone: (907) 273-3900

Fax: (907) 273-3990

Website: www.nanaworleyparsons.com

NANA Worley provides multi-discipline engineering and design, project management, procurement, project controls and construction management for various industries including hydrocarbons, mining infrastructure, and power industries. NANA Worley also has a subsidiary, Kairos, LLC that focuses on innovative solutions for our customers, and has developed and patented a lease-based Mobile Arctic Production System, "MAPS".

PND Engineers Inc.

1506 W 36th Ave.

Anchorage, AK 99503

Contact: Jim Campbell, P.E., president

Contact: Dempsey Thieman, P.E., senior vice president

Phone: (907) 561-1011

Fax: (907) 563-4220

Other Offices: Palmer, Juneau, Seattle, Portland, Houston and PND Engineers Canada (Vancouver)

Website: www.pndengineers.com

PND provides civil, structural, geotechnical, arctic, marine, coastal engineering, surveying, hydrology, sanitary/wastewater, value engineering, inspection, Q/A, cost administration, permitting, site remediation, and project management.

PRA (Petrotechnical Resources of Alaska)

3601 C St., Ste. 1424

Anchorage, AK 99503

Contact: Tom Walsh

Phone: (907) 272-1232

Fax: (907) 272-1344

E-mail: info@petroak.com

PRA offers engineering services across a variety of engineering disciplines, including: drilling; reservoir; petroleum; civil; mechanical; process; facilities; construction; environmental; safety. We can provide design, planning and operational support for any oil and gas project, either as embedded temporary employees, integrated project teams, or individual contributors.

TorcSill

5701 Silverado Way, L-201
Anchorage, AK 99518

Contact: Derek Johnston, Business Development Manager Alaska

Phone: (907) 290-0207

Email: djohnston@torcsill.com

Website: www.torcsill.com

TorcSill is a fully integrated provider of deep foundations utilizing helical pile technology. Services include engineering & design, fabrication and installation. Innovative solutions for seismic concerns, frost heaves, poor and unknown soil conditions, flooding/washouts and contaminated soils. Environmentally friendly

with small installation footprint, reusable/recyclable. TorcSill Foundations owns and operates a 15,000 sq ft steel MFG facility, creating a complete streamline from TorcSill to client, cutting time delays in procurement and logistics.

Environmental Consulting**ABR, Inc. — Environmental Research & Services**

1225 E International Airport Rd #101

Anchorage, AK 99518

Contact: Terry Schick,

Director of Business Development

Phone: (907) 344-6777 ext. 202

Fax: (907) 770-1443

E-mail: tschick@abrinc.com

Other Offices: Fairbanks, AK

Website: www.abrinc.com

ABR brings over 45 years of Alaska-based environmental compliance experience to bear for our clients. We provide exceptional scientific services that consistently meet regulators' quality standards. Some services we provide include wildlife surveys and analysis, fishery and water quality monitoring, wetland and habitat mapping, tundra rehabilitation, and permitting support.

Owl Ridge Natural**Resource Consultants, Inc.**

4060 B Street, Suite 200

Anchorage, AK 99503

Contact: Susan Walker, Business Manager

Phone: (907) 891-7270 Direct

Phone: (907) 344-3448 Main

Email: swalker@owlriddenrc.com

Other office: 2311 Sheldon Ave., Suite A
Fairbanks, AK 99701

Website: www.owlriddenrc.com

Owl Ridge provides a full range of environmental, ecological, and regulatory consulting services that include permitting, compliance, and strategic planning support; wildlife, fisheries, and aquatic monitoring and toxicology expertise; marine mammal regulatory and compliance support, and GIS and database management.

EXP Energy Services

725 East Fireweed Ln.

Suite 300

Anchorage, AK 99503

Contact: Chris Humphrey, VP Arctic Region

Phone: (907) 868-1185

Email: chris.humphrey@exp.com

Website: www.exp.com

With 50+ years across the energy industry and 12 years in Alaska, EXP is a 3500+ person multi-disciplinary engineering, architecture, design and consulting firm with over 90 offices. We offer full-service engineering, environmental regulatory/permitting and integrity management services for energy and resource projects, with a proven track record of delivery focused on results.

Environmental Engineering**Ahtna, Incorporated**

115 Richardson Hwy.

Glennallen, AK 99588

Contact: Roy J. Tansy, Jr.,
Chief Operating Officer

Phone: (907) 868-8250

Fax: (907) 868-8285

Email: news@ahтна.net

Other Office:

Anchorage Office

110 West 38th Ave., Suite 100

Anchorage, AK 99503

Website: www.ahтна.com

Ahtna, Incorporated is a premier Alaska Native Regional Corporation based in Glennallen, Alaska. We are a trusted partner in Alaska's resource development industry. Our multi-disciplinary staff of professionals provides construction, aggregate production, environmental services, engineering, operations and maintenance, spill response and prevention, facilities management, logistics and security support.

ARCTOS Alaska, a Division of NORTECH

3105 Lakeshore Dr., Ste 106A

Anchorage, AK 99517

Contact: Kirsten Ballard,

Director of ARCTOS Services

Phone: (907) 245-4230

Email: Kirsten.ballard@nortechengr.com

Website: www.nortechengr.com

C-Plans, SPCC Plans, State of Alaska approved Oil Spill Primary Response Action Contractor, ICS staffing and training, API Certified 570 and 653 Inspections, HSE and waste management Programs, Permitting, Graphic Information Systems (GIS), and NORTECH provides Environmental Engineering, Certified Industrial Hygienist, Spill Response and Contaminated Site Remediation, SWPP Plans, Sanitary Surveys, Occupational Health investigations, Safety Training, Mold and Asbestos assessment, and more.

EXP Energy Services

3800 Centerpoint Dr., Ste 200

Anchorage, AK 99503

Contact: Chris Humphrey, VP Arctic Region

Phone: (907) 868-1185

Email: chris.humphrey@exp.com

Website: www.exp.com

With 50+ years across the energy industry and 12 years in Alaska, EXP is a 3500+ person multidisciplinary engineering, architecture, design and consulting firm with over 90 offices. We offer full-service engineering, environmental regulatory/permitting and integrity management services for energy and resource projects, with a proven track record of delivery focused on results.

Owl Ridge Natural Resource Consultants, Inc.

4060 B Street, Suite 200

Anchorage, AK 99503

Contact: Susan Walker, Business Manager

Phone: (907) 891-7270 Direct

Phone: (907) 344-3448 Main

Email: swalker@owrlridgenrc.com

Other office: 2311 Sheldon Ave., Suite A

Fairbanks, AK 99701

Website: www.owrlridgenrc.com

Owl Ridge provides a full range of environmental, ecological, and regulatory consulting services that include permitting, compliance, and strategic planning support; wildlife, fisheries, and aquatic monitoring and toxicology expertise; marine mammal regulatory and compliance support, and GIS and database management.

PRA (Petrotechnical Resources of Alaska)

3601 C St., Ste. 1424

Anchorage, AK 99503

Contact: Tom Walsh

Phone: (907) 272-1232

Fax: (907) 272-1344

E-mail: info@petroak.com

PRA offers expert environmental engineering and consulting services to support the E&P industry in Alaska. We specialize in environmental planning and permitting, regulatory compliance, HSE field supervision, and reporting and communications with regulatory agencies.

Environmental Response & Clean up

Ahtna, Incorporated

115 Richardson Hwy.

Glennallen, AK 99588

Contact: Roy J. Tansy, Jr.,

Chief Operating Officer

Phone: (907) 868-8250

Fax: (907) 868-8285

Email: news@ahтна.net

Other Office:

Anchorage Office

110 West 38th Ave., Suite 100

Anchorage, AK 99503

Website: www.ahтна.com

Ahtna, Incorporated is a premier Alaska Native Regional Corporation based in Glennallen, Alaska. We are a trusted partner in Alaska's resource development industry. Our multi-disciplinary staff of professionals provides construction, aggregate production, environmental services, engineering, operations and maintenance, spill response and prevention, facilities management, logistics and security support.

Calista Corporation

5015 Business Park Blvd.

Suite 3000

Anchorage, AK 99503

Phone: (907) 275-2800

Fax: (907) 275-2919

Website: www.calistacorp.com

Calista is the parent company of more than 30 subsidiaries. In terms of land area and Shareholder base, Calista is the second largest of the Regional Alaska Native corporations established under ANCSA in 1971. Like us on Facebook (www.facebook.com/calistacorporation) and follow us on Twitter (twitter.com/calistacorp)

US Ecology Alaska, a Republic Services Co.

619 East Ship Creek Ave, Ste. 309

Anchorage, AK 99501

Contact: Paul Nielsen,

Director of Sales and Marketing

Phone: (907) 258-1558

Fax: (907) 569-5353

Email: paul.nielsen@usecology.com

Website: www.usecology.com

US Ecology Alaska has hazardous waste, industrial cleaning, and spill response capabilities backed by experienced personnel, a fleet of vacuum trucks, tankers, and support equipment.

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Morgan City, LA 70380

Contact: A.J. Cannata, President

Phone: (985) 385-1913

Fax: (985) 385-1950

Email: tal.office@tanksalotinc.net

Other offices:

Kenai, AK

Morgan City, LA

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www.tanks-a-lotinc.com

Rental or sale of containers mainly to off-shore/land Petroleum Operators. Baskets, boxes and tanks (all sizes). Logistical support, inspection, fabrication, environmental supplies, GPS tracking.

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Contact: Tom Tompkins, general manager

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Anchorage, AK 99522-4889

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Fax: (907) 562-5309

E-mail: info@akfrontier.com

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Fairbanks, AK 99701

Contact: Ben Wilker, Owner

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Fax: (907) 479-2287

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Anchorage, AK 99501

Contact: Customer Service

Phone: 907.276.7797
 Email: CustomerService@carlile.biz
 Website: www.carlile.biz
 Other Offices: Fairbanks, Prudhoe Bay, Kenai, Seward, Kodiak, Tacoma, WA, Forest Lake MN, Houston, TX, Edmonton, AL CA
Carlile is a full-service, multi-modal transportation and logistics company in Alaska. We offer safe and reliable shipping across Alaska, the USA, and Canada. We have the right equipment for the job.

Matson

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 Anchorage, AK 99501
 Contact: Jerrod Mustain, Alaska Manager, Oil & Gas Sales
 Phone: (907) 263-5093
 Fax: (907) 263-5090
 Email: jmustain@matson.com
 Website: www.matson.com/Alaska
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 Anchorage, AK 99518
 Contact: BJ Murdock, Vice President – Alaska
 Phone: (907) 632-6645
 Fax: (907) 561-8364
 Email: bj.murdock@airgas.com
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 Fairbanks, AK 99701
 Contact: Jerry Lee Sadler, Management
 Phone: (907) 456-2000
 Fax: (907) 456-2066
 Email: jlsadler@aer-inc.net
 Website: www.airportequipmentrentals.com

Alaska Dreams

2081 Van Horn Rd., Suite 2
 Fairbanks, AK 99701
 Contact: Meini Huser, President/CEO
 Phone: (907) 455-7712 • Fax: (907) 455-7713
 E-mail: info@alaskadreamsinc.com
 Website: www.alaskadreamsinc.com
Alaska Dreams, Inc. is an industry leader in the supply and construction of high-quality, engineered, and cost-effective fabric building systems and pre-engineered steel building solutions.

Calista Corporation

5015 Business Park Blvd.
 Suite 3000
 Anchorage, AK 99503
 Phone: (907) 275-2800
 Fax: (907) 275-2919

Website: www.calistacorp.com
Calista is the parent company of more than 30 subsidiaries. In terms of land area and Shareholder base, Calista is the second largest of the Regional Alaska Native corporations established under ANCSA in 1971. Like us on Facebook (www.facebook.com/calistacorporation) and follow us on Twitter (twitter.com/calistacorp)

Construction Machinery Industrial, LLC

5400 Homer Dr.
 Anchorage, AK 99518
 Contact: Delaney Gill, Marketing Specialist
 Phone: (907) 563-3822
 Fax: (907) 563-1381
 Website: www.cmiak.com
 Fairbanks office
 Phone: 907-931-8808
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Sales and service for heavy equipment for construction, logging, aggregate, mining, oilfield and agricultural industries throughout Alaska. CMI represents more than 40 vendors, including Volvo, Hitachi, Atlas Copco, and Ingersoll-Rand.

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 Fax: (907) 562-2316
 E-mail: sales@neifiuid.com
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 Fax: (907) 248-4429
 E-mail: sales@pesiak.com
 Website: www.pesiak.com
P.E.S.I. provides both conventional and specialty products and services for the Alaska oil industry. Regardless of your location, you will receive products and services that are guaranteed to meet your requirements.

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 Email: tal.office@tanksalotinc.net
 Other offices :
 Kenai, AK
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 www.tanks-a-lotinc.com
Rental or sale of containers mainly to off-shore/land Petroleum Operators. Baskets, boxes and tanks (all sizes). Logistical support, inspection, fabrication, environmental supplies, GPS tracking.

Fire Protection

Coffman Engineers

800 F Street
 Anchorage, AK 99501
 Contact: Tom Looney
 Phone: (907) 276.6664
 Email: tom.looney@coffman.com
 Website: www.coffman.com
Coffman Engineers assist clients with fire protection and life safety consulting services including new code analysis, facility design, designs for upgrades and renovations of specific protective systems in existing buildings, and litigation support following a fire incident. We have experience designing a variety of fire suppression, detection, alarm, and communication systems.

Foundations

TorcSill

5701 Silverado Way, L-201
 Anchorage, AK 99518
 Contact: Derek Johnston, Business Development Manager Alaska
 Phone: (907) 290-0207
 Email: djohnston@torcsill.com
 Website: www.torcsill.com
TorcSill is a fully integrated provider of deep foundations utilizing helical pile technology. Services include engineering & design, fabrication and installation. Innovative solutions for seismic concerns, frost heaves, poor and unknown soil conditions, flooding/washouts and contaminated soils. Environmentally friendly with small installation footprint, reusable/recyclable. TorcSill Foundations owns and operates a 15,000 sq ft steel MFG facility, creating a complete streamline from TorcSill to client, cutting time delays in procurement and logistics.

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Alaska Fuel Services

2090 Van Horn Rd.
 Fairbanks, AK 99701
 Contact: Ben Wilker, Owner
 Phone: (907) 347-0432
 Fax: (907) 479-2287
We are a trucking company specializing in fuel. We offer some of the best rates, and service in Alaska. We have been delivering to Prudhoe Bay since 2011 to customers from one tanker a month to customers needing 250k a week.

Alaska Railroad Corp.

P.O. Box 107500
 Anchorage, AK 99510
 Freight Contact: Tim Williams,
 Director, Freight Sales & Marketing
 Phone: (907) 265-2669
 E-mail: freightmarketing@akrr.com
 Passenger Contact: Meghan Clemens,
 Marketing Communications Manager
 Phone: (907) 265-2543
 E-mail: Clemensm@akrr.com
 Real Estate Contact: Andy Donovan,
 Director, Real Estate Leasing/Permits
 Phone: (907) 265-2325
 E-mail: DonovanA@akrr.com
The Alaska Railroad Corporation offers real estate, passenger and freight services – including complete services to move your freight between Alaska, the Lower 48, Mexico and Canada.

Brooks Range Supply

Pouch 340008
 1 Old Spine Road
 Prudhoe Bay, AK 99734
 Contact: Mike Kunkel & Scott Corsaut-Operation Mgrs.
 Phone: (907) 670-5100
 Toll Free: (866) 659-2550
 Fax: (907) 670-5156
 Email: manager@brooksrangesupply.com
 Website: www.brooksrangesupply.com
Expediting and delivery of hardware and supplies throughout oilfield and North Slope villages. Open 24 hours, 365 days a year.

Carlile

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 Other Offices: Fairbanks, Prudhoe Bay, Kenai, Seward, Kodiak, Tacoma, WA, Forest Lake MN, Houston, TX, Edmonton, AL CA
Carlile is a full-service, multi-modal transportation and logistics company in Alaska. We offer safe and reliable shipping across Alaska, the USA, and Canada. We have the right equipment for the job.

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6520 Kulis Drive
 Anchorage, AK 99502
 Phone: (907) 245-1544
 Fax: (907) 245-1744
 E-mail: information@lynden.com
Lynden provides transportation and logistics support for exploration, production, and service companies on the North Slope working to develop Alaska's oil and gas resources. Our multi-modal capabilities include trucks, barges, Hercules aircraft, hovercraft, and PistenBully snowcats. We regularly move supplies to the North Slope from locations around the world, and we have the equipment and expertise to

ensure you receive the materials you need, when you need them.

Matson

1717 Tidewater Rd.
 Anchorage, AK 99501
 Contact: Jerrod Mustain, Alaska Manager,
 Oil & Gas Sales
 Phone: (907) 263-5093
 Fax: (907) 263-5090
 Email: jmustain@matson.com
 Website: www.matson.com/Alaska
Through Matson's network of partners and subsidiaries, it has the resources to transport heavy equipment and materials from domestic and international locations to your job site. Matson provides twice-weekly vessel service to Anchorage and Kodiak and weekly service to Dutch Harbor, linking domestic and international cargo with seamless rail and trucking connections to the Kenai Peninsula, Valdez, Fairbanks and Prudhoe Bay.

Northern Air Cargo, Inc.

3900 Old International Airport Rd.
 Anchorage, AK 99502
 Contact: Gideon Garcia, VP,
 General Manager
 Phone: (907) 249-5198
 E-mail: ggarcia@nac.aero
 Website: www.nac.aero
Anchorage-based Northern Air Cargo Inc. (NAC) is Alaska's largest, all-cargo airline. From groceries to generators, NAC delivers an array of supplies to rural communities throughout the state and beyond. Residents and businesses alike have relied on NAC's commitment to transport their freight quickly, reliably and safely since 1956. With their ability to deliver small, large and unique items across oil & gas, mining, construction and commercial fishing industries, NAC has become Alaska's most trusted all-cargo carrier.

SeaTac Marine Services

6701 Fox Avenue South
 Seattle, WA 98105
 Contact: Maggie Adams,
 Business Development
 Phone: 206-767-6000
 Email: Info@seatacmarine.com
 Website: www.Seatacmarine.com
SeaTac Marine Services is a full-service marine transportation company based in Seattle, WA. We specialize in heavy lift, bulk and break bulk cargo moves. Our company has been providing superior transportation service for over 20 years.

Fueling Services**Alaska Fuel Services**

2090 Van Horn Rd.
 Fairbanks, AK 99701
 Contact: Ben Wilker, Owner
 Phone: (907) 347-0432
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Colville

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Prudhoe Bay, AK 99734

Contacts: Dave Pfeifer, President & CEO; Brad Osborne, COO
 Phone: (907) 659-3198
 Phone: (888) 659-3198
 Fax: (907) 659-3190

Colville integrates uninterrupted chain of custody, forecasting, procurement, dispatch, transportation, delivery, and storage into a single supply system that includes a 4.3M gallon tank farm, portable tank rental, bulk fuel sales, fuel delivery and spreader truck service, retail fuel station, electronic card lock fleet management. Colville Aviation offers aircraft parking, fuel (Jet A, Jet B, 100LL) and deicing services.

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 184 E. 53rd Ave.
 Anchorage, AK 99518
 Phone: (907) 344-1577
 Fax: (907) 522-2541

Nikiski Delivery Address:
 53340 Sandy Lane
 Kenai, AK 99611
 Phone: (907) 283-5900
 Fax: (907) 283-5923
 Mailing Address:
 P.O. Box 30
 Kenai, AK 99611
Serving Alaska for more than 52 years.

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5811 Old Seward Hwy.
 Anchorage, AK 99518
 Phone: (907) 562-2200
 Fax: (907) 561-7600
 E-mail: info@alaskarubber.com
 Website: www.alaskarubbergroup.com
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Fairbanks:
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 E-mail: info@alaskarubber.com
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General contractor in support of resource development throughout Alaska, specializing in remote location access and tundra overland travel. Other services provided are snowmobile road and ice bridge construction, rig mobilization and support, remote man camp operations, tug and barge marine services and heavy civil construction.

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Major Account Manager
Email: barnold1@gci.com
Phone: (907) 744-2324
Website: gci.com/business
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Phone: (907) 644-0385
Fax: (907) 644-8202
Prudhoe Office: (907) 268-1664
Email: info@iceservices.net
Website: www.iceservices.net
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Pouch 340071
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Contact: Roger Wilson, Business Development Manager
Phone: 907-659-2644
Email: information@lynden.com
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Fax: (985) 385-1950
Email: tal.office@tanksalotinc.net
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Phone: (907) 258-1558
Fax: (907) 569-5353
Email: paul.nielsen@usecology.com
Website: www.usecology.com
US Ecology Alaska specializes in processing, recycling, treatment, and disposal of non-hazardous and hazardous organic liquids and petroleum wastes. Other services include industrial cleaning and spill response capabilities.

Waters Petroleum, LLC

(dba Waters Petroleum Advisors)
4824 Potter Crest Circle
Anchorage, AK 99516
Contact: Douglas L. Waters, President
Phone: (907) 350-8289
Fax: (907) 644-6243
Email: dwaters@waterspetro.com
Website: www.waterspetro.com
Waters Petroleum Advisors provides Geo-science & Engineering services to oil and gas companies operating in Alaska, Canada & the Lower 48. Such services include the following: Wellsite Geology and Engineering Operations, Geosteering, Petrophysical and Image Interpretation, Geological & Geophysical Interpretation, Regional Geologic Studies, Prospect Generation & Evaluation, Development Geology and Reservoir Modeling.

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Phone: 907-275-5100
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115 Richardson Hwy.
Glennallen, AK 99588
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Chief Operating Officer
Phone: (907) 868-8250
Fax: (907) 868-8285
Email: news@ahtna.net
Other Office:
Anchorage Office
110 West 38th Ave., Suite 100
Anchorage, AK 99503
Website: www.ahtna.com
Ahtna, Incorporated is a premier Alaska Native Regional Corporation based in Glennallen, Alaska. We are a trusted partner in Alaska's resource development industry. Our multi-disciplinary staff of professionals provides construction, aggregate production, environmental services, engineering, operations and maintenance, spill response and prevention, facilities management, logistics and security support.

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Anchorage, AK 99503
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Phone: (907) 891-7270 Direct
Phone: (907) 344-3448 Main
Email: swalker@owlridgenrc.com
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Contact: Tom Walsh
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PRA's permitting professionals have extensive experience in permit planning, application and compliance for most every type of oil and gas activity, and we have excellent relations with local, state and federal permitting and regulatory agencies. We work closely with the design

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PRA (Petrotechnical Resources of Alaska)

3601 C St., Ste. 1424
Anchorage, AK 99503
Contact: Tom Walsh
Phone: (907) 272-1232
Fax: (907) 272-1344
E-mail: info@petroak.com
PRA provides temporary professional employees to the oil and gas industry, state and federal agencies, native corporations and utility companies across a broad range of disciplines, including: geology, geophysics, petrophysics, petroleum and reservoir engineering, drilling design and supervision, HSE planning and compliance, environmental permitting, construction management, facilities engineering, and project management.

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Fax: 907-569-5005
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115 Richardson Hwy.
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Contact: Roy J. Tansy, Jr.,
Chief Operating Officer
Phone: (907) 868-8250
Fax: (907) 868-8285
Email: news@ahtna.net
Other Office:
Anchorage Office
110 West 38th Ave., Suite 100
Anchorage, AK 99503
Website: www.ahtna.com
Ahtna, Incorporated is a premier Alaska Native Regional Corporation based in Glennallen, Alaska. We are a trusted partner in Alaska's resource development industry. Our multi-disciplinary staff of professionals provides construction, aggregate production, environmental services, engineering, operations and maintenance, spill response and prevention, facilities management, logistics and security support.

Doyon, Limited

1 Doyon Place, Ste. 300
Fairbanks, AK 99701
Contact: Cheyenna Kuplack,
Communications Manager
Phone: (907) 459-2097
Fax: (907) 459-2060
Email: kuplackc@doyon.com
Email: communications@doyon.com
Website: www.doyon.com
Doyon, Limited is the regional Native Corporation for Interior Alaska. Operating more than a dozen for-profit companies, Doyon, Limited is a distinct driver of hundreds of jobs in Alaska and beyond. Our companies blend expertise and technological muscle in support of smooth, safe and successful operations in the North Slope oil fields.

Flowline Alaska

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Phone: (907) 456-4911
Fax: (907) 456-1194
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Phone: (907) 344-1577
Fax: (907) 522-2541

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Fax: (907) 277-9295
E-mail: sstewart@arcticcontrols.com
Website: www.arcticcontrols.com
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PO Box 92688
Anchorage, AK 99509
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Phone: 907-290-8031
Phone: 907-351-8089 cell
Email: john@alaskamaterials.com
Website: www.alaskamaterials.com
Email: john@alaskamaterials.com
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Contact: Terry Caetano, President and General Manager
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 Website: www.doyonanvil.com
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 Phone: (907) 265-2669
 E-mail: freightmarketing@akrr.com
 Passenger Contact: Meghan Clemens,
 Marketing Communications Manager
 Phone: (907) 265-2543
 E-mail: Clemensm@akrr.com
 Real Estate Contact: Andy Donovan,
 Director, Real Estate Leasing/Permits
 Phone: (907) 265-2325
 E-mail: DonovanA@akrr.com
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 Phone: (888) 659-3198
 Fax: (907) 659-3190
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 Contact: Paul Nielsen, Director of Sales and Marketing
 Phone: (907) 258-1558

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 Email: paul.nielsen@usecology.com
 Website: www.usecology.com
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 Fax: (907) 644-4523
 E-mail: sunil@bombaydeluxe.com
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Fairbanks:
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 Fairbanks, AK 99701
 Phone: (907) 451-0200
 Fax: (907) 451-8480
 E-mail: info@alaskarubber.com
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Wasilla:
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 Wasilla, AK 99654
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 Fax: (907) 373-1344
 E-mail: info@alaskarubber.com
 Website: www.alaskarubbergroup.com
 Contact: Matt Curry, Branch Manager
Kenai:

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 Kenai, AK 99611
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Fairbanks, AK 99706
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 Phone: (907) 907-452-4524
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 Anchorage Office:
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 E-mail: clif@alaskatextiles.com/Heidi@alaska-textiles.com
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Arctic Controls, Inc.

1120 E. 5th Ave.
 Anchorage, AK 99501
 Contact: Scott Stewart, president
 Phone: (907) 277-7555
 Fax: (907) 277-9295
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Anchorage Office:

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Phone: (907) 263-6105
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Email: asheppard@denaliuniversal.com
Website: www.denaliuniversal.com
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Phone: (907) 272-1232
Fax: (907) 272-1344
E-mail: info@petroak.com
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Phone: (907) 283-3880
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Email: rebecca@astac.net
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Phone: (907) 265-2543
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Contact: Jerry Lee Sadler, Management
Phone: (907) 456-2000
Fax: (907) 456-2066
Email: jlsadler@aer-inc.net
Website: www.airportequipmentrentals.com

Vessel Contract & Charter Service

Maritime Helicopters

3520 FAA Rd.
Homer, AK 99603
Contact: Bob Fell, Director of Operations
Phone: 907-235-7771
Fax: 907-235-7773
E-mail: bfell@maritimehelicopters.com or dfell@maritimehelicopters.com
Website: www.maritimehelicopters.com
40 years operating throughout Alaska providing helicopter support services for oil and gas, seismic, mineral exploration, survey, external load and construction industries. Bell Helicopter Customer Service Facility. Bell 206, 206L3, 206L4, 407 Helicopters. 86 foot research vessel with heli-pad and jet fuel. DOD approved. Extensive Arctic experience.

SeaTac Marine Services

6701 Fox Avenue South
Seattle, WA 98105
Contact: Maggie Adams,
Business Development
Phone: 206-767-6000
Email: Info@seatacmarine.com
Website: www.Seatacmarine.com
SeaTac Marine Services is a full-service marine transportation company based in Seattle, WA. We specialize in heavy lift, bulk and break bulk cargo moves. Our company has been providing superior transportation service for over 20 years.

Welding

Flowline Alaska

1881 Livengood
Fairbanks, AK 99701
Contact: Richard Schok
Phone: (907) 456-4911
Fax: (907) 456-1194
Flowline has three-pipe insulation, fabrication, and corrosion coating facilities encompassing over 64,000 ft of enclosed production area, on a 40+acre site in Fairbanks that offers substantial area for material handling and staging, and a dedicated rail spur.

Udelhoven Oilfield System Services, Inc.

Anchorage Address:
184 E. 53rd Ave.
Anchorage, AK 99518
Phone: (907) 344-1577
Fax: (907) 522-2541

Nikiski Delivery Address:
53340 Sandy Lane
Kenai, AK 99611
Phone: (907) 283-5900
Fax: (907) 283-5923
Mailing Address:
P.O. Box 30
Kenai, AK 99611
Serving Alaska for more than 52 years.

Weld/Repairs/Manufacturing

Greer Tank and Welding Inc.

3140 Lakeview Drive, PO Box 71193
Fairbanks, AK 99707
Contact: Mark Greer, General Manager
Phone: (907) 452-1711
Fax: (907) 456-5808
Email: mgreer@greertank.com
Other offices:
Anchorage, AK; Lakewood, WA
Website: www.greertank.com
Greer Tank & Welding are the premier tank and welding specialists of Alaska and Washington. In business for over 57 years, they have a long history of providing an array of products and services for all contracting and custom fabrication needs – all from their highly trained and experienced staff.

OIL & GAS COMPANIES

Operators

70 & 148, LLC

1421 Blake St.
Denver, CO 80202
Contact: Ed Kerr, Vice President
Phone: (303) 623-1821 • Fax: (303) 623-3019
Email: ed@armstrongoilandgas.com

Armstrong Energy, LLC

1421 Blake St.
Denver, CO 80202
Contact: Ed Kerr, Vice President
Phone: (303) 623-1821
Fax: (303) 623-3019
Email: ed@armstrongoilandgas.com

Oil Search (Alaska), LLC

510 L Street, Suite 310
Anchorage, Alaska 99501
Phone: (907) 375 4600
Fax: (907) 375 4630
Website: www.oilsearch.com

COMPANY NEWS *in brief*

for expanding broadband to communities in the region. This transformative project will give rural residents access to virtual meetings, online classes, telehealth and online jobs without having to leave their village or way of life.

The communities served include Fort Yukon, Beaver, Stevens Village, Rampart and Tanana. Alaska Communications will deploy a fiber-to-the-home network in each community, offering up to Gigabit speed service at affordable rates. The network will connect to the Alaska Communications' core fiber network in Fairbanks, Alaska.

The project is part of the Alaska FiberOptic Project, a larger collaboration between Calista Corp., Doyon Ltd., Gana-A'Yoo Ltd. and Alaska Communications to connect up to 20 communities along the Yukon and Kuskokwim Rivers with fiber-optic cable. This segment is the first of three segments to get funding.

The four companies recognize that reliable, affordable, high-speed internet is the foundation for education, healthcare, economic growth and quality of life. The COVID-19 pandemic highlighted the importance of broadband and illuminated the growing digital divide across Alaska. The Alaska FiberOptic Project will bridge that divide for many rural communities. For more information visit www.doyon.com/news/.

Lynden moves ROV from Chile to Gulf of Alaska

As reported by Lynden News Aug. 1, this spring, researchers spent eight days circumnavigating Kodiak Island exploring 23 different sites in search of deep-sea corals and other seafloor habitat areas. "The expedition's goal was to expand our knowledge of the Gulf of Alaska seafloor to support Oceana's ongoing campaign to protect coral, sponges and other sensitive sea life," explains Cheryl Eldemar, Pacific business manager for the nonprofit conservation group Oceana.

The star of the expedition was Deep Discoverer, an 1,800-pound remotely operated vehicle which captures undersea images with a sensitive camera. Getting the ROV and its four crates of batteries and accessories from Santiago, Chile, to the island of Kodiak fell to Lynden Logistics. "We Alaskans are keenly aware of Lynden's long-term dedication and reputation for providing goods and transportation to Alaska," Cheryl says. "This international shipping project was another example of Lynden's flexibility, patience, persistence and professionalism."

Lynden moved the ROV once before from Chile to Portland, Oregon, in 2013 for Oceana's Oregon coast expedition. According to Ahmad Abed Rabuh, general manager at Lynden's Portland service center, things have changed dramatically in the decade since the last move. The pandemic, supply chain disruptions and changes in rules and regulations for transporting batteries and other sensitive goods all affected this year's journey of the ROV from continent to continent.



COURTESY LYNDEN

"We excel at unusual international shipments, but this one required special customs declaration, custom-built crates made from a specific heat-treated wood, separate air freighter transport to Miami for the battery, and a lack of wide-body lift in the South American lane," Ahmad explains. "International Regional Operations Manager Elodie Gergov was instrumental in helping me navigate the South America complications for this shipment." Lynden's John Dill and Fernando and Chanelle Hernandez also worked diligently on the project in Portland along with Matt Kelly in Anchorage. For more information visit <https://info.lynden.com/blog/lynden-moves-rov-from-chile-to-gulf-of-alaska>.

Alaska West Express receives safe truck fleet award

As reported by Lynden News July 7, ConocoPhillips and the Alaska Trucking Association presented Alaska West Express with the 2021 Alaska Safe Truck Fleet of the Year Award in the highway division. The award recognizes the hard work and focus on health and safety that all Alaska West Express employees have demonstrated over the past year. "It is an honor and very humbling to be around a team of individuals that strive to be the best at what we do every day," says Tyler Bones, Alaska West Express director of HSSE. "It is always special when the hard work of our employees and contractors are recognized. Alaska West operated 4.6 million miles accident free in 2021. Considering the challenging operating conditions on the Dalton Highway, this is a remarkable achievement."

Nathan Zeigler of Coffman Engineers receives award

Coffman Engineers Inc. said July 1 that it congratulates mechanical engineer, Nathan Zeigler, for receiving the American Society of Heating, Refrigerating and Air-Conditioning Engineers Achievement Award for research promotion. The award was presented to Zeigler during an honors and awards program at the 2022 annual conference in Toronto.

The full award name is the ASHRAE William J. Collins Jr. Research Promotion Award, in honor of presidential member Collins, who was instrumental in organizing ASHRAE's fundraising program and beginning the research promotion campaign. It recognizes the chapter research promotion chair who excels in all activities supporting ASHRAE's fundraising campaign, including promoting research at the chapter level, raising money for scholarships and all of the society's activities. This honor is awarded annually to one RP chair out of the 190 ASHRAE chapters worldwide.

Zeigler is a senior project engineer with Coffman Engineers and has more than 21 years of engineering experience, particularly in Arctic and Antarctic environments. His background is in project management, detailed engineering and commissioning



NATHAN ZEIGLER

for industrial and commercial projects. His deep understanding of the HVAC discipline provides invaluable support to Coffman's mechanical-industrial team on key projects in the oil and gas, and energy sectors.

While serving as RP chair for the Alaska ASHRAE chapter, Zeigler's accomplishments include exceeding the chapter's fundraising goals by more than 50% as well as creating a RP endowment fund to build long-term funding stability for future research promotion efforts.

In reflecting about his time with ASHRAE, Nathan said, "ASHRAE has had and continues to have a very positive impact on my career, through education, networking and career development opportunities. I continue to learn from others as I also seek opportunities to engage and share my professional knowledge, this is the strength of ASHRAE which I have come to appreciate and value."

For more information visit www.coffman.com.

Cook Inlet Tug & Barge welcomes new tug to its fleet

Cook Inlet Tug & Barge LLC said June 28 that the Dr Hank Kaplan, an immensely versatile and powerful harbor tug, has joined its fleet. Built in 2017, the Dr Hank Kaplan is named in honor of the chief of medical oncology at Swedish Cancer Institute in Seattle, Washington, who has worked throughout his entire career on cancer research and treatment.

The tug entered service in Alaska earlier in June. Designed by Robert Allan Ltd., this RAMPARTS-2400 series tugboat has 5,350-hp and was the first built in North America with Caterpillar integrated propulsion systems featuring CAT engines and z-drives. CAT also supplied electrical generators powering the 79-by-36-foot vessel.



COURTESY COOK INLET TUG

"This tug is built well, extremely powerful and complements the incredibly capable tugs we have in our fleet. It will help us grow our business while meeting our expanding customer needs," said Mike O'Shea, vice president business development and planning at Cook Inlet Tug & Barge.

Capt. Mark Theriault, Cook Inlet Tug & Barge's director of operations, is excited to see the Dr Hank Kaplan join the fleet. "The tug packs 30,000 gallons of fuel, 2,800 gallons of fresh water, and 370 gallons of lube oil - and not only opens up our operating window, but it is also just what our customers have been asking for".

The Dr Hank Kaplan is homeported in Anchorage, Alaska and painted with the recognizable blue and white colors of Cook Inlet Tug & Barge. For more information go to www.cookinlet-tug.com.

PumpTech acquires Frost Engineering Service Company NW

As reported by Pike Street Capital LLC June 7, Pike Street portfolio company PumpTech LLC announced the acquisition of

Frost Engineering Service Company-Northwest, a provider of industrial engineering solutions for the oil and gas, petrochemical, manufacturing, and other industries. Frost Engineering brings extensive expertise in instrumentation and control solutions, complementing PumpTech's current line of pump, process, and environmental products and services.

"There are tremendous synergies between the two companies," said Doug Staab, PumpTech board member and an industry veteran in the flow management space. "Frost Engineering and PumpTech serve a similar type of customer across adjacent markets. All of these customers can benefit from the combined products and services we're now able to offer, which will lead to growth for both companies."

Founded in 1954, Frost Engineering is a trusted supplier and integrator of fluid handling systems and associated instrumentation based in Snohomish, Washington. With deep expertise in measurement applications, process control, and lubrication systems, the organization delivers proven, industry-specific solutions based on decades of knowledge.

"Frost Engineering is a great addition and aligns perfectly with our strategy to build on the PumpTech platform," said Dave Dandel, partner at Pike Street Capital. "We're excited about this rapidly growing market and plan to accelerate this growth through further acquisitions."

Pike Street Capital invests in middle-market companies with leading market positions, strong management teams, and discernible growth drivers. The firm targets sectors serving professional customers and B2B growth where it has relevant investing and operating experience, including industrial technology, specialty manufacturing, distribution and logistics, and business services. The firm's \$237 million over-subscribed inaugural fund closed in November 2020.

Republic Services completes acquisition of US Ecology

Republic Services Inc. recently announced that it completed its acquisition of all outstanding shares of US Ecology Inc. on May 2, 2022. The previously announced purchase price of \$48 per share in cash represents a total value of \$2.2 billion including debt net of cash acquired. US Ecology stock will be delisted from the NASDAQ Global Select Market.

This transaction expands Republic's environmental solutions footprint across the U.S. and Canada and provides vertically integrated capabilities for its environmental solutions business. It also provides a platform for accelerated growth, including cross-selling revenue opportunity and additional tuck-in acquisitions.

"We are excited to welcome US Ecology employees to the Republic team," said Jon Vander Ark, president and chief executive officer. "With US Ecology's deep expertise in specialty waste handling, this acquisition strengthens our position as a leading environmental services company offering one of the most complete sets of products and services to our customers."

Republic funded the transaction using a combination of its credit facilities and a new three-year term loan. The company expects to maintain a strong balance sheet and solid investment-grade credit profile, and plans net debt-to-EBITDA, as defined in its credit agreement, to return to below 3x within 18 months.

For more information visit republicservices.com/usecology.



You Keep Alaska Moving!

Thank you to Lynden employees around the state for keeping Alaska's supply chains operating as usual, during a very unusual year. Your dedication, flexibility, and ingenuity was critical to ensuring fellow Alaskans had the essential supplies they needed, when they needed them. We look forward to a great year ahead and will continue to provide multi-modal transportation and logistics solutions across all of Alaska, from Ketchikan to Kaktovik!

