

Arctic Oil & Gas Directory

Covering Arctic oil and gas operations and the logistics, construction and service firms that support them



A biannual supplement

Petroleum
news

Vol. 15, No.1
March 2010

Companies involved in serving the Arctic oil and gas industry

A

ACB Solutions
Acuren USA
AECOM Environment
Air Liquide
Air Logistics of Alaska
Alaska Air Cargo
Alaska Analytical Laboratory
Alaska Anvil
Alaska Computer Brokers
Alaska Coverall
Alaska Dreams
Alaska Frontier Constructors
Alaska Interstate Construction (AIC)
Alaska Marine Lines
Alaska Railroad Corp.
Alaska Rubber & Supply
Alaska Sales & Service
Alaska Steel Co.
Alaska Telecom
Alaska Tent & Tarp
Alaska Textiles
Alaska West Express
Alliance, The
Alta Air Logistics
American Marine
Arctic Controls
Arctic Foundations
Arctic Slope Telephone Assoc. Co-op.
Arctic Wire Rope & Supply
ASRC Energy Services
Avalon Development

B-F

Badger Productions
Baker Hughes
Bald Mountain Air Service
Brooks Range Supply
Builders Choice Inc.
Calista Corp.
Canadian Mat Systems (Alaska)
Canrig Drilling Technologies
Carlile Transportation Services
CCI
CGGVeritas U.S. Land
CH2M HILL
Chiulista Camp Services
Colville
ConocoPhillips Alaska
Construction Machinery Industrial
Cosco Fire Protection
Crowley Alaska
Cruz Construction
Delta Leasing
Delta P Pump and Equipment
Denali Industrial
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DNR Division of Oil and Gas

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Doyon Drilling
Doyon LTD
Doyon Universal Services
EEIS Consulting Engineers
Egli Air Haul
Engineered Fire and Safety
Equipment Source Inc.
Era Alaska
ERA Helicopters
ExxonMobil
Flowline Alaska
Fluor
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GBR Equipment
GCI Industrial Telecom
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Global Land Services
Global Offshore Divers
Gold Canyon Mining
GPS Environmental
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Hawk Consultants
Holaday-Parks
Ice Services
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Judy Patrick Photography
Kenai Aviation
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Kuukpik - LCMF
LaBodega
Last Frontier Air Ventures
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Lounsbury & Associates
Lynden Air Cargo
Lynden Air Freight
Lynden Inc.
Lynden International
Lynden Logistics
Lynden Transport
Mapmakers of Alaska
MAPPA Testlab
Maritime Helicopters
Marketing Solutions
Mayflower Catering
M-I Swaco
MRO Sales

N-P

Nabors Alaska Drilling
Nalco
NANA WorleyParsons
NASCO Industries Inc.
Natco Canada

Nature Conservancy, The
NEI Fluid Technology
NMS Employee Leasing
Nordic Calista
North Slope Telecom
Northern Air Cargo
Northland Wood Products
Northrim Bank
Northwest Technical Services
Oilfield Improvements
Opti Staffing Group
PacWest Drilling Supply
PDC Harris Group
Peak Civil Technologies
Peak Oilfield Service Co.
Penco
Petroleum Equipment & Services
Petrotechnical Resources of Alaska
PGS Onshore
Polar Supply
Price Gregory International

Q-Z

QUADCO
Rain for Rent
Safety One
Salt + Light Creative
Schlumberger
Seekins Ford
STEELFAB
Stoel Rives
3M Alaska
TA Structures
Taiga Ventures
The Local Pages
Tire Distribution Systems (TDS)
TOMCO Group of Companies
Total Safety U.S. Inc.
TOTE
Totem Equipment & Supply
TTT Environmental
Tubular Solutions Alaska
Udelhoven Oilfield Systems Services
UMIAQ
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Unique Machine
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URS Alaska
Usibelli
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Arctic Oil & Gas Directory

Vol. 15, No. 1
Released March 2010

The Arctic Oil & Gas Directory is a biannual marketing publication of Petroleum News, which is owned by Petroleum Newspapers of Alaska LLC. For information on how to be part of this directory, please contact Clint Lasley at 907 522-9469 or clasley@petroleumnews.com

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Cover photo: A group of musk oxen forage for food near a North Slope rig

Photo by Judy Patrick

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With more than 20 years experience, GESI gets the job done

GESI uses innovative technology to reduce disposal cost for the oil and gas industry

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

A. Global Environmental Systems, Inc. is committed to a safety work culture across the company as a whole. Our safety culture combined with our high work ethic is for the benefit of the customer.

Q. *Where is your company located?*

A. We have an office in Kenai, 36370 Bore Tide Ct., as well as a fab shop and equipment yard on the north road.

Q. *What year was the company founded, who founded it, and what was its original name?*

A. Global Environmental Systems was founded originally in 1987, by myself, and three other partners. In 1995, my son and I reorganized the company which started the successor company, GESI.



TJ Northcott, president GES Inc., provided information for this company profile.

Q. *Who heads up your company and who is on its senior management team?*

A. Our senior management team consists of T.J. Northcott, President; Thom Northcott, Vice-President, Project Management, Consultant and Injection Engineer; Kathryn Thomas, Sales, Special Projects, Public Relations and Legislative Analyst; Paul Vaas, Mud Engineer, Solids Control, Injection Engineer and Consultant; Barbara Nelson, Human Resources, Administrator and Accounts Payable.

Q. *Does your company have any partnership arrangements and when did they become effective?*

A. GES, Inc. has completed a multi-year joint venture with a large contractor in the Kenai Gas fields to close out reserve pits, as well as 3500 cubic yards of Norm scale from a pipe yard. GES has also completed a joint venture with ArcTech, testing reserve pit closures and injection.

Q. *What is the company's primary business sector and what services do you offer?*

A. Our primary business is oil field support services. We provide safe recycling, waste minimizations, and disposal of industrial, refinery, and oilfield by-products, on and off-site, dramatically reducing transportation disposal costs and their associated liabilities. We provide G & I plants both mobile and stationary, and rental of oil field equipment. Providing services both "Turn Key" and day rate.

Q. *Who are the company's main clients?*



COURTESY GES INC.

A. Our main clients are oilfield, construction and engineering companies.

Q. *How many employees does your company have?*

A. GIS Inc has a core group of managers and engineers, with employee numbers varying according to project size and activities.

Q. *What essential equipment do you use and are there any purchases planned?*

A. Grinding in section, solid classifying, fluid handling, solid control as well as oilfield equipment. Our equipment is portable or stationary oilfield G & I systems, which allows maximum flexibility to custom-fit equipment to the job and location with a rapid response time.

Q. *Is your company expanding any of its operations or locations?*

A. We are continuously updating our operations with new equipment and processes to reduce the cost of handling and disposing of solids and fluids.

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

A. We are a private company, and that gives us the ability to react fast and commit resources to our customers. Our design of the G & I system has become the blueprint of all G & I systems. We were first to use the beneficial reuse recovery of drill cuttings, to remove and close out old reserve pits, to test and evaluate grinding equipment both on the North Slope and the Kenai Peninsula, and to be permitted to use G & I sites in a wildlife refuge. Having over 20 years of experience of safely injecting millions of barrels of

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Communications expert NSTI celebrates its 30th

Meeting challenging projects head-on gives NSTI its edge over the competition

North to Alaska

Straight from the beginning North Slope Telecom Inc. was uniquely suited to perform telecommunications design and installation projects in Alaska, as well as other extreme, remote locations and climates. Established in 1980 by William Laxson, current president and principal engineer, NSTI began as a general contracting firm, specializing in design, construction, and maintenance of telecommunications systems in the remote Arctic and subarctic. Coming to Alaska in 1975, Laxson, who holds a Bachelor of Science in electrical engineering from Oregon State University, an electrical administrator's license, and an FCC general radiotelephone license, has extensive experience in the design and installation of telecommunications systems,

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COURTESY NORTH SLOPE TELECOM INC.

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GES INC.

fluids and solids as well as rental equipment, benefits our customers.

Q. Has the company invested in any new technology in the last two years?

A. We are constantly engaged in research and development of new and innovative systems and equipment designed specifically for waste stream management. We continuously analyze problem situations then design, build, test, and operate our process systems to obtain the best possible results for our customers.

Q. What is the most challenging job the company has undertaken?

A. We cleaned the inner legs of a platform to the depth of 123' below sea level to remove the scale rust and we pumped the solids 190' vertically to be treated. We closed out old reserve pits, over 2000 containers, tank bottom sledges from all sources on the peninsula.

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

A. Our biggest challenge will be securing work in the face of uncertain government taxation and regulations to the oil industry. The government does not understand that incentives and tax breaks will increase development of resources.

Q. What is the most humorous story from your company's years in business in Alaska?

A. Years ago, the many service companies tried and couldn't figure out how to break down emulsion left from the oil base drill mud. One day I washed my hands over the emulsion wash pan, using a common dishwashing soap. The next day the emulsion was broke down providing a technological breakthrough; the emulsion breaker was in soap, we found the emulsifier and developed it.



COURTESY GES INC.

Q. Does your company have an anniversary or other landmark eve coming up? If so, describe.

A. We have a 25th anniversary of doing business in Alaska coming up in 2012.

Q. What is the average length of time employee's work for the company?

A. Length of our employee time varies with the seasonal workers. On average our permanent management team averages 10-plus years with us.

Q. What is your company's safety record?

A. We recently received the "Alaska Contractor of the Year Safety Award", from Marathon Oil. GES was also nominated for Marathon Oil's, Worldwide, "Living Our Value's Award", and out of 1500 companies we received the award from President and CEO, Clarence P. Cazaloy, at an awards ceremony in Houston, TX.

Q. Does your company or its partners or subsidiaries maintain websites?

A. www.gesi-ak.com



COURTESY GLOBAL DIVING & SALVAGE

Successful salvage operation to raise the WWII vintage tug USS Wenonah from her berth in San Francisco Bay utilizing the Left Coast Lifter

Global Diving & Salvage, creating unique solutions for challenging projects

Innovation and problem solving, Global proves to be a leader in underwater marine contracting

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

A. Global Diving & Salvage is the largest diving contractor on the West Coast of the United States, a leading provider of marine construction and infrastructure support services in the United States, and an internationally recognized marine casualty responder. We are one of the few full-service underwater marine contractors that can provide project management, commercial diving, and a full spectrum of environmental services. We do this through six operating divisions: Regional Diving Services, Marine Construction, Casualty Response, Offshore Support Services, ROV Services, and Environmental Services.



Q. Where is your company located?

A. Our corporate headquarters are located in Seattle, WA. Re-

gional offices are in Rio Vista, CA; Richmond, CA; and Global Offshore Divers, Anchorage, AK. We will also be adding a full time business development position to represent us in the Gulf of Mexico this year.

Q. What year was the company founded?

A. Global Diving & Salvage, Inc. was founded by seven divers in 1979 and incorporated in 1980.

Q. Who heads up your company and who is on its senior management team?

A. Our two owners, Tim Beaver and John Graham, stepped down last year from active management to sit on the Board of Directors. Devon Grennan, president, runs the senior management, sits on the board of directors, and still oversees daily operations. Our senior manage-



David DeVilbiss, Alaska regional manager, senior management team, provided information for this company profile.

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GLOBAL DIVING

ment team comprises of Trinity Ng-Yeung, David DeVilbiss, Mike Langen, Bruce Humberstone and Dan Pierson.

Q. What is the company's primary business sector?

A. The primary business sector of Global's Alaska office is the offshore industry. We offer regional diving and environmental services in Alaska, California, and the Pacific Northwest; marine construction support services, project management and engineering; International marine casualty response services, International offshore and oilfield support services; and International ROV services, and Environmental product sales and services.

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

A. The Port of Anchorage Pile Repair, where we cleaned damaged steel piling with high-pressure water blasting, installed steel jackets and grouted in place. Deep-water recovery of a fuel-laden tanker truck with a container of assorted oils from the waters of the Robson Bight Ecological Reserve. NYDEP DEL 185 - Saturation dive project to provide nondestructive testing, selective demolition, and construction support in 685 feet of water. M/V Monarch Defueling - Successful fuel recovery from a 166-foot offshore supply vessel submerged at the base of an oil platform in Cook Inlet during January 2009.

Q. How many employees does your company have?

A. We have approximately 350 personnel.

Q. Describe the equipment your company might use and whether any new purchases are planned?

A. In the past few years we have acquired multiple large assets including two new saturation dive systems capable of diving to 1000 feet, and several ROVs including a Saab Sea Eye work-class ROV capable of diving to 6000 feet.

Q. Is your company expanding any of its operations or locations?

A. We have recently opened a fully staffed office in Anchorage, AK; and offer our full line of capabilities through that office. In addition, we are opening an office in Richmond, CA; and establishing more of a presence in the Gulf of Mexico Region.

Q. Is the company changing any of its services?

A. Our ROV division provides underwater hydrography services as well as underwater navigation. These technologies are mostly acoustically based and greatly increase the safety and production of diving and ROV work.

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

A. Our main strength is our commitment to employee safety and customer satisfaction. We work hand in hand with clients to create unique solutions. Where we really stand out is on technically challenging projects, providing strong engineering support in-house and approaching projects with a team concept, where we utilize the abilities of the entire company to complete complex projects that have not been done before.

Global's new SAAB Seaeye Cougar XT was immediately employed on a salvage project with Manson to retrieve a fully laden fuel truck from a depth of 350 meters.



COURTESY GLOBAL DIVING & SALVAGE

Q. What new markets, clients or projects did your company attract in the last year?

A. The increased abilities of our ROV division have opened the door for deep-water salvage projects beyond the range of human diving.

Q. What is the most challenging job the company has undertaken?

A. It is difficult to pinpoint the most challenging project we have ever undertaken. By nature of what we do and who we are, nearly half of our jobs are very challenging from a technical level. One of the more complex projects that we underwent recently was the saturation diving project recently completed in New York in nearly 700 feet of water. There was very limited access into the 13-foot-diameter shaft, and special equipment and procedures had to be developed and built in order to complete the job. Loading commercial dive gear in a Cessna 210 and conducting a dive safely off the floats in a very remote part of Alaska can in some ways be just as challenging as the project in New York.

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

A. We have a unique niche market that few people understand, so we commit significant energy to educating our clients and potential clients about the diving industry. As a part of that effort, we sit on the Board of Directors for the Association of Diving Contractors and the American Salvage Association.

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NSTI ANNIVERSARY

including two-way radio, microwave, satellite links, and corporate data networks. He has been providing the oil industry with reliable communications systems for the past 30 years.

Making a name for itself

With experienced engineering and technical staff, NSTI continues to provide solutions with time, budget and terrain challenges in mind, meeting them head-on with great success. The team recently designed and fielded a modular electronic equipment support package, the Rapid Deployable Solar System, which includes power generation, storage and distribution, and can be used to support remote stand-alone applications such as telemetry, video surveillance, and radio communications. The RDSS incorporates over 20 years of experience and is the third-generation system of its design. Sharing the same obstacles as any other company that operates in remote regions, NSTI utilizes an extensive materials handling department to support all efforts and meet challenges head-on. During the installation of a telecommunications infrastructure on Oooguruk Island for Pioneer Natural Resources, the NSTI team was able to remain on budget and ahead of schedule, even

COURTESY NORTH SLOPE TELECOM, INC.



RDSS unit in deployment mode

as components of the project struggled with schedule delays and scope change.

The future looks bright for NSTI

Expanding into new markets is on the horizon for NSTI and to meet its goals the company embarked on the construction of a new 7,500-square-foot facility in the summer of 2009. The new building will have office, warehouse and fabrication space. NSTI currently owns a 12,000-square-foot facility in Anchorage with 8,000 square feet of warehouse, shop and fabrication space, 4,000 square feet of office space, additional paved staging and outdoor storage. In addition, NSTI is beginning to work on projects outside of the oil and gas industry, and outside of the North Slope of Alaska, bringing its skills and services to competitive companies in Anchorage and the Mat-Su.

Safety is paramount at NSTI, with its safety and training unsurpassed, providing its employees with an in-house safety coordinator, responsible for training staff on all applicable standards, including ASH, OSHA, NEC and NESC, resulting in over 150,000 man-hours worked annually, with zero hours lost due to injury.

North Slope Telecom continues to strive to meet the needs of its clients, stay competitive, and expand projects; all the while remaining a 100 percent Alaska owned company.

NSTI will be celebrating its 30th anniversary this summer.

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GLOBAL DIVING

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

A. To properly position ourselves to be prepared to meet our client's needs in changing markets and economies.

Q. What do you see as future trends or opportunities for your company from events such as long-term weather fluctuations?

A. Our nation's infrastructure is aging and with that comes maintenance that can no longer be delayed on civil works projects. Our nation's oilfields are also aging, so we are ensuring we are properly positioned to expand our commitment to the offshore and oilfield service support industries.

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

A. We just celebrated our 30th anniversary as a whole and our one-year anniversary with our Alaska Office, regionally known as Global Offshore Divers.

Q. What is the average length of time employee's work for the company?

A. Most of our senior management team and senior divers have been with us for over fifteen years.

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

A. We maintain a great safety record by taking pro-active and preventative steps to ensure a safe work environment for our employees and third parties on our job sites. Our employees play an important role in helping develop and roll out our safety program, policies, and procedures. Each project is approached from a safety standpoint.

Q. Has your company received any awards or recognition?

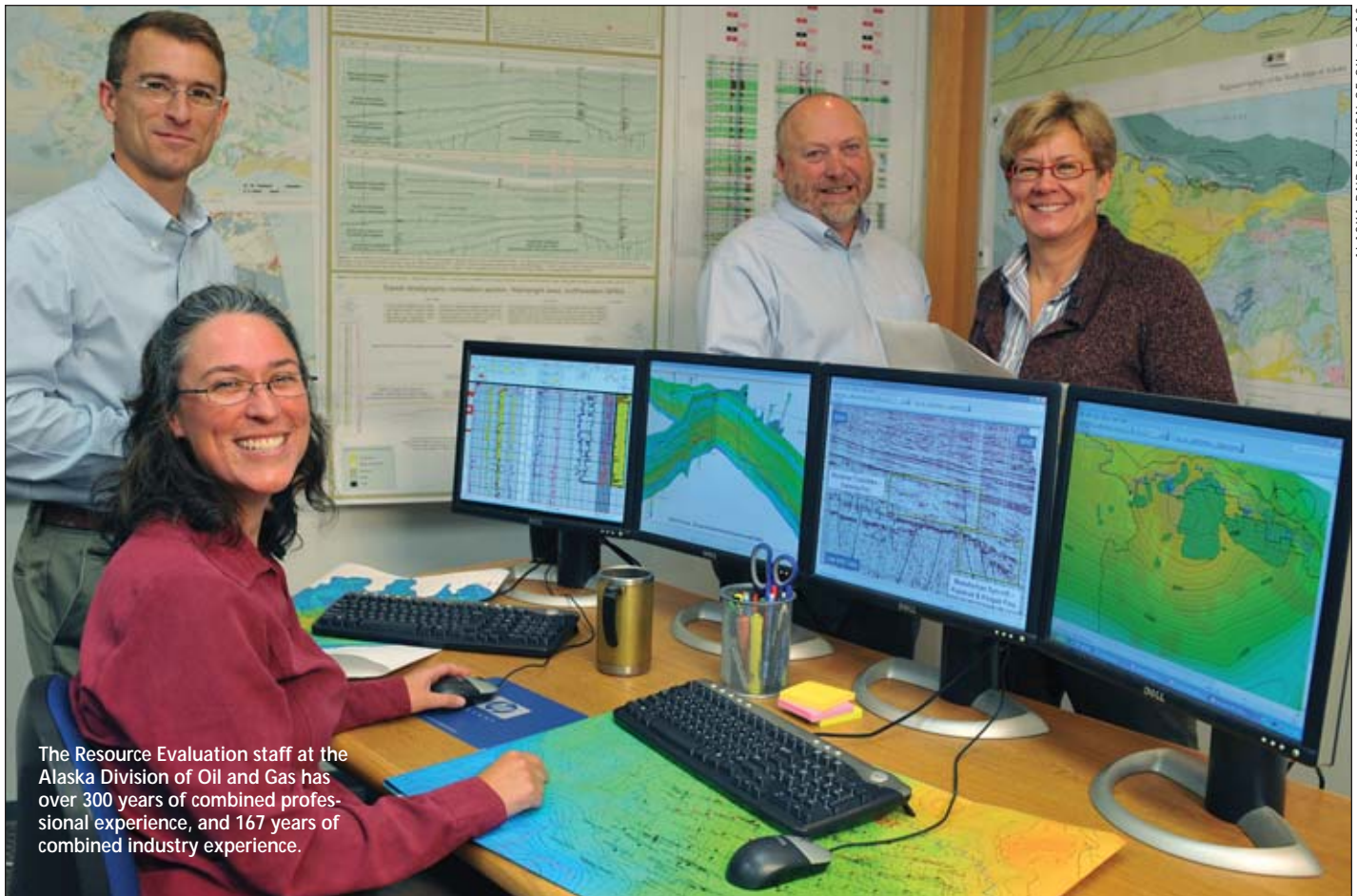
A. Global received recognition from Chevron MCA last year for 3 years of Incident Free Operations.

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

A. We have started hosting a benefit golf tournament each year. The first three tournaments were for the Puget Sound Maritime Historical Society; the 2010 tournament will be for the Seattle Children's Hospital. Average contributed donations from the tournament are around \$28,000 each year. Global supports the Anchorage Zoo and several Anchorage based charitable organizations. Global also supports the Seattle Children's Hospital through participation in Team Seattle at the 24-hour Daytona www.teamseattle.com. Please visit this Web site if you are interested in participating. Global Diving offers a matching policy for employees who wish to contribute to charitable organizations.

Q. Does your company have a Web site?

A. We just launched a new Web site: www.gdiving.com.



The Resource Evaluation staff at the Alaska Division of Oil and Gas has over 300 years of combined professional experience, and 167 years of combined industry experience.

ALASKA DNR DIVISION OF OIL & GAS

State of Alaska's oil and gas director says state is open for business

By KEVIN BANKS

Director, State of Alaska Division of Oil and Gas

At the Alaska Department of Natural Resources, Division of Oil and Gas, we take seriously the Alaska Constitution's charge to encourage "the development of its resources by making them available for maximum use consistent with the public interest for the maximum benefit of its people" and "provide for the utilization, development, and conservation of all natural resources belonging to the State, including land and waters, for the maximum benefit of its people."

The Division is responsible for conveying the mineral interest in oil, gas, and geothermal resources for the purpose of exploration, development and production. As the "landlord" over these resources on all state lands, the Division monitors all its leases and ensures that the leaseholders comply with the terms of their negotiated leases, including the responsible development of the resources comprising the surface and subsurface areas of the lease. The Division also



KEVIN BANKS

makes certain that leaseholders respect each others' rights.

Reimburse up to 40% exploration costs

The State of Alaska takes seriously our responsibilities to our leaseholders. We encourage exploration through innovative new programs, paying as much to 40 percent of exploration costs for qualified applicants, and we share our insight into how state and federal agencies interact to help companies navigate smoothly through exploration and development activities. Alaska is a resource development state. We view the people and companies exploring and developing our natural resources as our partners. In exchange, we expect them to hold up their part of the bargain.

The Division manages the state's oil and gas resources with a staff of 95, highly specialized technical experts with the equivalent of hundreds of years of experience in the industry. Led by the Director's Office, the Division works in asset teams, consisting of diverse groups of professionals using their unique and complementary areas of expertise to managing the wide array of functions assigned to each team.

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Alaska's energy resources — a crucial part of the answer to the nation's energy questions

By TOM IRWIN

Commissioner, Alaska Department of Natural Resources

We Alaskans have a very special relationship to our environment. The land is our back yard. We use it for recreation and subsistence. The land has provided our livelihood, for the people and for the state. Alaska is a land of amazing natural beauty, and the resources that underlie that beauty is what sustains our economy.

Responsible development, sustainable yield, and resource stewardship were

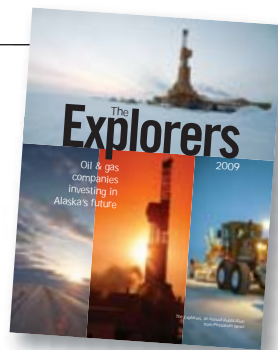
written into the Constitution and Statutes when Alaska became a state 50 years ago, and have been part of how we have developed our natural resources ever since. When Alaska Statehood was being debated, a major worry of the US government's was that the new, sparsely populated state would become a financial burden on the federal government. Instead, the new state has

gone on to contribute between 14 and 27 percent of the total national crude oil production annually since the trans-Alaska oil pipeline system was finished in 1977.

Alaska holds tremendous resources. Our state is estimated to hold 18 percent of total U.S. oil reserves. At a production rate of 700,000 barrels per day, Alaska is currently responsible for 14 percent of U.S. oil production.



TOM IRWIN



Reprint

This article is a reprint from Petroleum News' annual Explorers magazine, which was written in October 2009, and has been updated for the Arctic Oil & Gas Directory

Developing Alaska's resources is good for the state, for United States and for Canada. Typically, royalty, taxes, and lease payments from oil and gas production provides 90 percent of Alaska's unrestricted state revenue. But oil production from the aging fields on the North Slope, which have provided our country with a steady stream of oil since 1977, is declining.

As a state, we want to provide affordable energy for our people — and we want to continue to provide police protection, good schools, and a solid road system. To do that, we need to develop the natural gas resources of Alaska. Through a gas pipeline, delivering Alaska's natural gas to North America, we will be able to provide Alaska with the revenue the state needs to maintain or improve the level of state services Alaskans need and deserve, provide economic energy for Alaskans, and provide North America with a clean-burning

energy source.

It's a great time to be an Alaskan, and it's a great time to do business in Alaska. We are on the edge of a new era, where, yet again, Alaska holds a crucial part of the answer to the nation's energy questions. At a time when the nation is moving towards environmentally preferred energy sources and greater reliance on American energy, Alaska holds tremendous supplies of the clean-burning natural gas the nation needs.

Even under the most optimistic forecasts, the US will still de-

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OPEN FOR BUSINESS

The Resource Evaluation section is just one example of the highly qualified staff we're proud to call ours. At last count, our Resource Evaluation staff had 300 years of combined professional experience, and 167 years of combined industry experience. Our team of petroleum geoscientists and engineers has the capacity, experience and integrity to work with potential investors to give technical briefings and share their knowledge and non-confidential public domain data.

Predictability important

The Division of Oil and Gas strives for predictability. That is why we hold annual lease sales for all available tracts in five areas with known petroleum potential – our Areawide Lease Sale Areas. The lease sales are held in May (for the Alaska Peninsula and Cook Inlet) and October (for the Beaufort Sea, North Slope, and North Slope Foothills).

When our lease sales take place, the environmental challenges of potential oil and gas development have already been assessed. For each of these areas, a Best Interest Finding is developed every ten years, and reviewed annually. In the Finding, the Division evaluates the possible cumulative impact of exploration and development and provides measures to mitigate any reasonably expected negative impact.

For exploration outside of these areas, the Division accepts license applications every year during the month of April. When a license application is received, the Division starts its fact-finding process to determine whether awarding the exploration license is in the best interest of the state. A preliminary Best Interest Finding, subject to a public comment period and due consideration of those comments, is followed by a Final Finding of the Director, determining whether the license should be awarded.

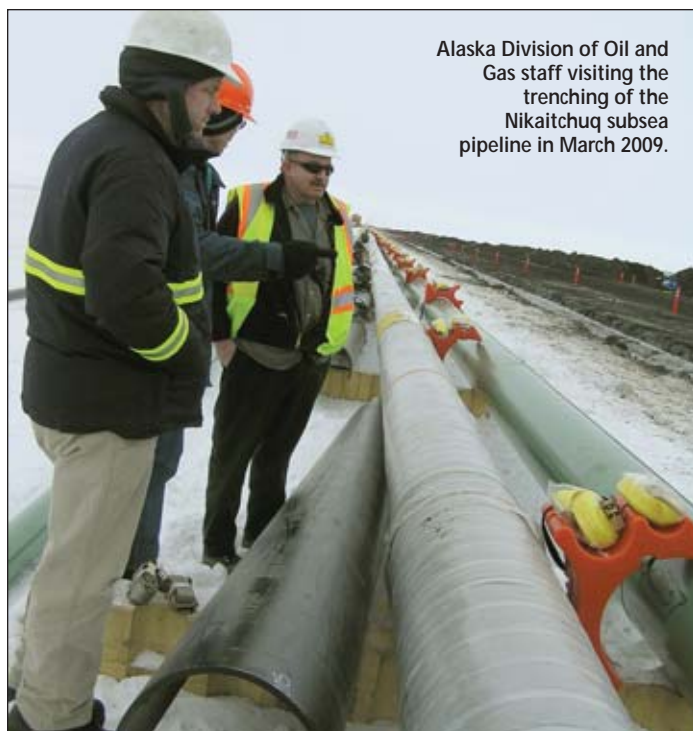
Number of oil companies almost doubled

The State of Alaska successfully encourages investment from companies new to the state. The number of petroleum companies doing business in the state almost doubled between 2006 and 2008.

In 2008, Pioneer Natural Resources became the first company in more than a decade to join with BP and ConocoPhillips as an independent operator on the North Slope producing oil from its offshore Oooguruk unit. The unit, located in the Beaufort Sea northwest of the Kuparuk River, is expected to produce over 100 million barrels during its lifetime.

Italian energy giant ENI owns a 30-percent interest in the field. In addition, ENI has acquired a 100-percent interest in and is the operator of the Nikaitchuq Field, located off-shore of Alaska's North Slope. This project involves the drilling of 73 wells, which will be tied back to the production facility at Oliktok Point. At the time the acquisition was announced, production was anticipated to reach 40,000 barrels of oil per day. Their investment will total nearly \$1.5 billion.

Two years ago Anadarko and its partners, Petro-Canada and BG, conducted exploratory work in the Foothills region of the Brooks Range south of the North Slope. Anadarko is in the process of evaluating natural gas prospects in the Gubik Complex. Because transportation costs often place limits on the ability to develop our resources, Governor Parnell asked for \$8 million in his proposed FY2010 budget for the Department of Transportation in support of the "Road to Resources" effort. This project would fund construction



Alaska Division of Oil and Gas staff visiting the trenching of the Nikaitchuq subsea pipeline in March 2009.

ALASKA DNR DIVISION OF OIL & GAS

of a road from the Dalton Highway west to Umiat, crossing a number of additional potential gas fields.

Further south, in Southcentral Alaska, Armstrong Cook Inlet LLC took over as the operator of the North Fork gas unit. The North Fork gas field is anticipated to provide infrastructure extensions into the Southern Kenai Peninsula. Expanding the Southcentral gas market will provide additional investment incentive to successful gas explorers.

Offer 25% credit for net losses

The past two years of lease sales on the North Slope successfully leased a total of 1,267,207 acres. The State's exploration investment credits for qualified applicants include up to 40 percent of exploration costs, credit for capital investments, plus a 25 percent credit for net losses.

More evidence that Alaska's resources are still vast and profitable is found in the fact that some of the world's largest producers are still very much actively involved in new development on our lands. On February 10, 2010, ExxonMobil announced the successful drilling and casing of PTU-15, the first development well for the Point Thomson project. ExxonMobil is also partnering with TC Alaska on the state-supported Alaska Gasline Project, projected to have a gas pipeline from the North Slope to Alberta, Canada, ready for first gas in 2018.

The Division of Oil and Gas mission statement says we manage "oil and gas lands in a manner that assures both responsible oil and gas exploration and development and maximum revenues to the state."

Our goal is to support any responsible company that shares this mission.

We want to see you succeed, because when you're successful, so are we.

Learn more about the Alaska Division of Oil and Gas from our website: <http://www.dog.dnr.state.ak.us/oil/>

Or contact us at our offices in Anchorage: 550 W. 7th Avenue, Suite 800 & 1100; Anchorage, Alaska 99504. Phone: 907-269-8800

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ALASKA'S RESOURCES

pend on oil and natural gas for almost 65 percent of its domestic energy consumption in 2025. Even under the best circumstances, increased development of domestic oil and gas resources will be required to meet the demand.

The good news is that we are well underway to making that happen. There are good reasons to be excited about, not scared of, our energy future.

Just 8 years away

The Alaska Pipeline Project (APP) is moving forward. We have never been this close to getting the Alaskan natural gas pipeline built, and we have come this far because people with a vision and a clear understanding of the challenges have refused to listen to the nay-sayers and forged ahead, with solid footing in science, technology, and thorough analysis of the financial realities of the project.

The cooperation between the state and federal pipeline coordinators' offices is seamless. We have what I consider the best pipeline company in the world, TransCanada, working together with ExxonMobil, the largest commercial oil and gas company in the world, lending their superior expertise to the project design for the planned North Slope Gas Treatment Facility.

Under the Alaska Gasline Inducement Act, the state of Alaska is investing \$500 million of our own resources, and we are not just following the process to the 2010 open season, but all the way to the FERC certification. In exchange for this investment, we are getting provisions that protect our interests – high netback, low risk, diversity of exploration and development, as well as competition and fairness. The most critical commercial provisions ensure

A tariff structure that provides the lowest reasonable cost to transport Alaska gas to the North American market

Expansion capabilities for the pipeline, to allow for transportation for new gas discoveries

Rolled-in-rates (which is the standard in Canada), ensuring that all shippers share the burden of that expansion.

The commercial terms built into the AGIA process encourage new exploration and development, assuring new players that they will be able to monetize their gas with a reasonable rate of return. Low tariffs also benefit the federal government and the state of Alaska, because our revenues are paid minus transportation costs. Together, low tariffs and encouraged competition in exploration and development serve the interest of consumers by keeping gas prices as low as possible.

The Alaska Pipeline Project filed their open season paperwork with the Federal Energy Regulatory Commission as planned on January 29, 2010, with open season summer of 2010. The open season is an opportunity for shippers to make commitments to take the project to the next stage. As the project continues to advance beyond open season toward the more significant milestone of project sanction – the decision to actually break ground – stakeholders, eventually including the state, will work to resolve those outstanding conditions, and establish commercial alignment.

Before firm commitments are possible, there are uncertainties that must be resolved. The project needs to pass through the regulatory process, which will not be finished prior to 2014, the final design of the pipeline must be finished, financial approaches have to be decided, and final cost estimates reflecting market condi-

Once Alaska's massive amounts of natural gas are available to the North American market, a clean-burning, American-controlled energy source will be available for the next 100 years. Alaska will be able to provide between 5 and 8 percent of the nation's projected natural gas needs.

tions of 2014 have to be developed.

And while this is going on, complex commercial negotiations, both between North Slope producers and between the producers and the pipeline, must be completed.

AGIA moving forward

The framework of AGIA ensures that progress will continue, regardless of the outcome of the open season. With each step forward, the project's uncertainties diminish. As uncertainties are resolved, the state will become better positioned for any future fiscal discussions. The state can address specific demonstrated project needs, while protecting the long term interests of the state, at the appropriate time. As Gov. Parnell has stated, the road to these discussions goes through AGIA.

Once Alaska's massive amounts of natural gas are available to the North American market, a clean-burning, American-controlled energy source will be available for the next 100 years. Alaska will be able to provide between 5 and 8 percent of the nation's projected natural gas needs.

We also need to develop the vast energy sources of the OCS.

Both the Chukchi and the Beaufort Seas hold tremendous volumes of natural gas. Beyond the more than 100 Tcf of gas potential onshore, the estimated potential of the Alaska OCS is over 130 Tcf of recoverable natural gas. These volumes will be extremely important to the nation over time.

Of more immediate importance is the huge oil potential the OCS holds – an estimated 27 billion barrels. By comparison, total oil production from Alaska's North Slope since construction of the trans-Alaska oil pipeline system in 1977 totals 16 billion barrels. Right now, the declining oil production on the North Slope means trans-Alaska oil pipeline owners recognize the TAPS pipeline will fall below carrying capacity in the next decade. If we let the TAPS pipeline shut down, it will mean the end of oil production from the North Slope. Because of the significant lead time between leasing and production, we need to develop Alaska's OCS without delay, so the large Alaskan oil resource can be accessible to America.

Clean-burning gas, OCS

Alaska has the resources, the experience, and the capability to bridge the move of North America into a future of more preferable energy sources, lower CO₂ emissions, and higher degree of energy independence. The nation needs clean energy. And nobody is more concerned about the Alaskan environment than Alaskans. We have decades of experience in safely extracting oil and gas from our resource basins, including those in the Arctic.

We all support developing renewable energy sources (Alaska has a huge resource potential there, too), but in the meantime, clean-burning natural gas has to be the foundation and reliable base load for a comprehensive national energy strategy that will rebuild our economy and create jobs, diminish our reliance on foreign energy, and transition us to environmentally preferred energy sources.

A new Arctic paradigm

Moving farther north in Arctic offshore stimulates drilling safety innovation

By ALAN BAILEY
Petroleum News

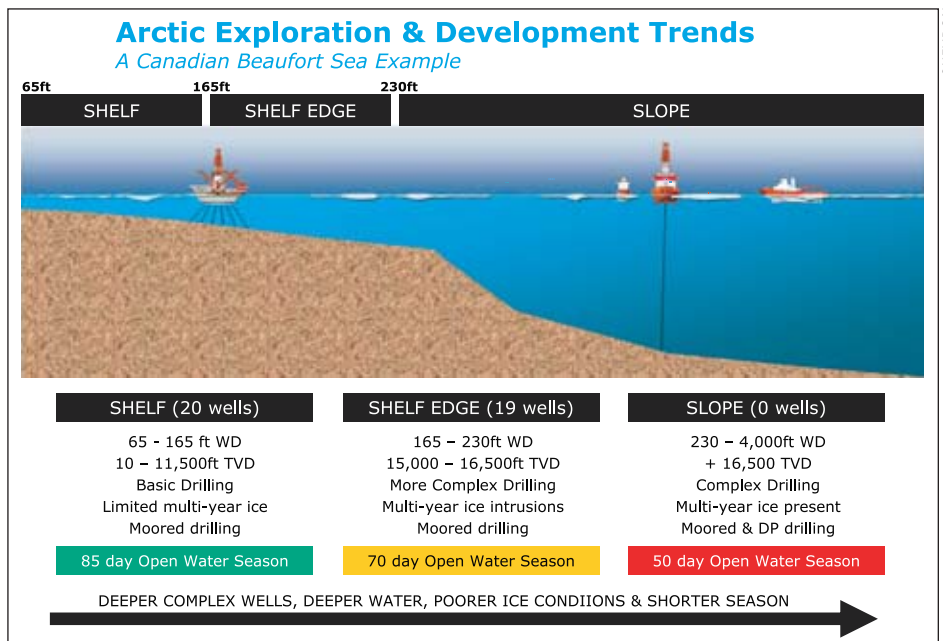
The potentially huge but largely untapped oil and gas resources of the Arctic offshore have become a major focus of attention, as access to new resources in traditional petroleum provinces has become ever more elusive. But, as exploration

■ Petroleum News reprint • Nov. 8, 2009

moves north into deep Arctic waters, it will become increasingly difficult to use the drilling of a relief well as the mechanism of last resort for plugging an oil well blowout, Bill Scott, manager of Chevron's Arctic Center in Calgary, Alberta, told the U.S. Minerals Management Service Arctic Technologies Workshop in Anchorage, Alaska, on Oct. 15. A relief well is an emergency well drilled to penetrate and plug a well that is out of control.

Given the potential problems in relief well drilling in deep Arctic waters, Chevron is seeking new ways of proactively preventing a blowout from occurring.

"We want to go one stage further at the front end, to stop any problems happening later," Scott said.



Complex drilling requirements and short drilling seasons on the continental slope of the Canadian Beaufort Sea raise questions over the feasibility of drilling a relief well, should a well blowout occur during future exploration.

Floating rigs

But what are the risks associated with modern offshore exploration?

Most new Arctic offshore exploration drilling is done in water depths that require the use of a floating drilling rig, a drilling

approach that has become the technique of choice in the Arctic offshore of Canada and the United States, Scott said. And so far, the safety record in using this technique in the relatively shallow waters of the

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22 percent of undiscovered oil in Arctic

EIA recycles USGS estimate from last year, says vast potential of shale gas could defer development of faraway Arctic gas deposits

By WESLEY LOY
For Petroleum News

The region north of the Arctic Circle could hold about 22 percent of the world's undiscovered conventional oil and natural gas, an Oct. 19 report from the U.S. Energy Information Administration says.

This isn't the freshest of news. The EIA report is based on a U.S. Geological Survey assessment released in 2008 that included the 22 percent estimate.

The 18-page EIA report rehashes the

■ Petroleum News reprint • Nov. 1, 2009

USGS findings and lays out the challenges of developing whatever oil and gas might be under the globe's frosty cap.

"The Arctic presents a 'good news, bad news' situation for oil and natural gas development," the EIA report concludes. "The good news is that the Arctic holds about 22 percent of the world's undiscovered conventional oil and natural gas resources, based on the USGS mean estimate."

The bad news is that the Arctic re-

sources are believed to be more gas than oil, and that extreme risk, long project lead times, unresolved Arctic sovereignty claims, and costly environmental protections will make production of the resources very difficult, the EIA report says.

Distribution of resources

The EIA report says the area above the Arctic Circle encompasses about 6 percent of the Earth's surface area. Eight countries

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PARADIGM

Chukchi and Beaufort Seas has proved exemplary, with five wells in the Chukchi Sea, nine wells in the U.S. Beaufort Sea and 39 wells in the Canadian Beaufort Sea having been drilled to date from drilling vessels, he said.

“They were completed both safely and successfully in periods from 100 percent daylight to 100 percent darkness,” Scott said. “We achieved all of our goals without any serious incident.”

But, although modern drilling techniques have rendered the possibility of an accidental, uncontrolled oil blowout extremely unlikely, government regulation and prudent safety both require a well operator to maintain the capability of drilling a relief well.

Increasingly challenging

However, as drilling operations take place progressively farther north from the Beaufort Sea coast, moving off the shallow offshore shelf into ever deeper water where the shelf slopes down toward the Arctic Ocean floor, in situations where drilling targets also become deeper and more challenging, the need for longer drilling times combined with the short open water seasons of the extreme north will severely limit the practicality of relief well drilling.

In fact some wells may take more than one sea-

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Drilling mud-line cellars for OCS drilling

A blowout preventer, a tall stack of valves and other devices designed to rapidly shut down a well in the event of an oil blowout, is an essential piece of safety equipment that has to be installed at the surface end of a well whenever a drilling operation is in progress. And when drilling on the outer continental shelf, the blowout preventer would sit on the sea floor.

But in the Arctic offshore, such as on the outer continental shelf of the Beaufort and Chukchi seas, the prevalence of sea ice, much of it in constant motion, gives rise to the possibility of an ice keel hitting a blowout preventer, causing major damage to the device and raising the risk of an oil spill.

To avoid this eventuality, all blowout preventers on the Arctic OCS have to be installed in mud-line cellars, cylindrical holes in the sea floor, typically 40 feet deep, Cody Teff, Shell engineering team lead in Alaska, told the U.S. Minerals Management Service Arctic Technologies Workshop in Anchorage on Oct. 13.

The first step in designing a mud-line cellar is the acquisition of multibeam sonar images of the seabed, a technique that uses acoustic signals to generate detailed profiles of the sea-floor surface. The sonar images enable gouges to be identified and measured, thus setting parameters for the required mud-line cellar depth, ensuring that the top of the blowout preventer will sit well below the deepest scour.

A typical blowout preventer is 20 feet tall and about 16 feet in diameter, weighing about 500,000 pounds, Teff said.

After the gouge depth measurement is complete, a 20-foot diameter, hydraulically powered rotary bit, with teeth in the form of inward-angled plow blades, carves out a cellar, an operation that typically takes anywhere from two to 10 days to complete. The plow blades direct debris from the operation towards the center of the bit, from where compressed air pushes the debris up through the tubular riser that holds the bit in place on the sea floor, Teff said.

—ALAN BAILEY

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EIA REPORT

have some jurisdiction in the Arctic: Canada, Denmark (Greenland), Finland, Iceland, Norway, Russia, Sweden and the United States.

“The allure of the Arctic is great because of the significant oil and natural gas deposits that have already been found and the large areas that have not yet been explored,” the EIA report says.

The report says 61 large oil and gas fields — fields exceeding 500 million barrels of oil equivalent — have been discovered within the Arctic Circle. Of these, 43 are in Russia, 11 are in Canada’s Northwest Territories, six are in Alaska, and one is in Norway.

The USGS mean estimate of undiscovered, technically recoverable, conventional Arctic resources is 412 billion barrels of oil equivalent, with 78 percent expected to be natural gas and natural gas liquids.

The resources are believed to be concentrated in “just a few sedimentary provinces,” the EIA report says.

The Eurasian side of the Arctic is more gas-prone, while the North American side is more oil-prone, the report says.

“The Arctic Alaska region is estimated to hold the largest undiscovered Arctic oil deposits, about 30 billion barrels,” the re-

port says. “The second largest oil province in the Arctic is the Amerasia Basin, located just north of Canada, and estimated to have about 9.7 billion barrels of undiscovered oil.”

No go for Arctic gas?

As testament to the challenges of developing Arctic oil and gas, the report notes that 15 of the 61 large oil and gas fields already discovered still haven’t gone into production. Most of the undeveloped fields were discovered in the 1970s and 1980s.

“The high cost of doing business in the Arctic suggests that only the world’s largest oil companies, most likely as partners in joint venture projects, have the financial, technical, and managerial strength to accomplish the costly, long-lead-time projects dictated by Arctic conditions,” the EIA report says.

With respect to natural gas, the report notes the long distance of Arctic gas from consumer markets. It adds that the relative importance of Arctic resources “is likely to be affected by the growing realization that shale beds in existing petroleum provinces around the world might be capable of producing 5,000 to 16,000 trillion cubic feet of natural gas.

“This potentially large shale gas resource could significantly defer the future development of Arctic natural gas resources.

“Of course, there could be exceptions.”

The EIA report is posted online at www.eia.doe.gov under “What’s New.”

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PARADIGM

son to drill, thus raising question marks over the possibility of drilling a relief well in any feasible time frame.

"It's going to become increasingly challenging to be able to drill a relief well," Scott said. "... We're now looking at wells that take two to three seasons to drill, so obviously the ability to continuously drill a relief well in those areas is challenged, if not impossible."

And under Canadian regulations, drilling in the Beaufort Sea has to be completed by or on Oct. 15, thus making a blowout that occurs right at that Oct. 15 date the worst case scenario for the loss of control of an oil well, Scott explained. Subsequent relief well drilling would have to be done at a time of year when daylight is dwindling and the winter sea ice is starting to form.

"So the longer it goes into the winter period, the tougher it is to get things done and tougher it is, certainly, to get them done efficiently," Scott said.

And, although the probability of a well blowout nowadays is as low as perhaps one in 300,000, a contingency plan that includes the possibility of drilling a relief well must assume the possibility of a blowout occurring: Relief well drilling must be feasible, Scott said.

Simulator

Chevron has developed a computer simulator to model the conditions under which a late-season offshore relief well might be drilled. The simulator can test the feasibility of relief well drilling at different distances offshore, north of the Canadian Beaufort Sea coast.

Data from the past 10 years indicates that on the relatively shallow continental shelf 73 to 100 days would be available to drill that worst-case scenario relief well, with the relief well likely taking about 60 days to drill.

"The conclusion obviously is that a relief well could be drilled," Scott said.

But, farther north in the Beaufort Sea, out on the continental slope, only seven to 67 days would be available for relief well drilling, in a situation perhaps requiring 120 days to plug the uncontrolled well.

"Obviously, somewhere between the shelf and the slope we run into a problem which is a combination of well depth, ice conditions and equipment, where it becomes, in all likelihood, impractical to drill a relief well," Scott said.

However, the Canadian drilling regulations allow an alternative contingency arrangement to be substituted for relief well drilling, provided that this alternative arrangement represents an equivalent or lower risk than that associated with a relief well. That "equivalency" clause in the regulations has led Chevron to seek new techniques for handling blowouts, a search that has led to an initiative with a drilling equipment company, Cameron, to develop a new form of blowout preventer.

"We've decided to go for an equivalency to late-season relief wells, and we see the need for that in various Arctic nations. ... We're developing this technology for worldwide use," Scott said.

Key technology

The key technology in the new blowout preventer design is a hydraulic ram that will both shear and seal the well tubing — a conventional blowout preventer has separate rams for the shearing

Watching for the ice in the Chukchi

Modern satellite-based synthetic aperture radar technology is enabling the detection of sea ice in the dark and in cloudy conditions, thus greatly improving ice observation capabilities for ice management during Arctic offshore oil and gas exploration, Peter Noble of ConocoPhillips told the U.S. Minerals Management Service Arctic Technologies Workshop in Anchorage on Oct. 14, 2009.

By reflecting radar signals off the ice, synthetic aperture radar can produce images over a range of scales, and in great detail.

"We can take pictures of a 500-km square all the way down to a 20-km square at any time," Noble said. "... We use different scales for different reasons as we develop our plots."

In fact, during the summer of 2009 ConocoPhillips was able to detect a 240-foot survey boat on the water using a Chukchi Sea radar image, he said.

Ice management zones

During a drilling operation, sea-ice management would be based on the delineation of concentric zones around the drillship. The observation of ice entering a specific zone would trigger ice management activities, breaking up the ice and moving it out of the way. If the threat persists drilling operations would be suspended. And depending on circumstances, such as the ice entering a critical zone close to the drillship, the well might have to be secured and the drillship moved from the site.

The timing of any decisions on ceasing drilling would depend on a defined "time to react," a time that varies depending on the status of the drilling operation, but which tends to increase as the drill bit penetrates further into the subsurface.

ConocoPhillips is planning to drill an exploration well in its Chukchi Sea Devil's Paw prospect, in the vicinity of the old Klondike well, in the open water season of 2011, at a time when sea ice is very unlikely to present a problem at the drill site, Noble said.

In fact, the company has been assessing past Chukchi Sea ice conditions, to determine when the drilling would best be carried out, he said. An analysis of past ice cover indicates a slow increase in the open water season length over the years, but the year-to-year variability in the ice-cover timing tends to obscure that trend towards a longer season.

Historical ice-cover data suggests a likely drilling season of up to 100 days at the planned drilling site. There has always been ice cover at the site in June, but the ice starts to retreat in July, with a 90 percent probability of the site being clear of ice by the end of August, Noble said.

—ALAN BAILEY

and sealing operations.

"A single ram will do what two rams did — it will shear and seal simultaneously," Scott said. "It will cut and seal on a wide variety of drilling tubulars and production casing."

The stacking of two of the new rams in a single blowout preventer will provide 100 percent redundancy in both the shearing and sealing operations, while additional rams and other technology

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Beaufort leasing in state's 'best interest'

Finding supports 10 years of planned sales in nearshore seas extending from Barrow to Canada; Native groups claim slight from state

By WESLEY LOY
For Petroleum News

Alaska oil industry regulators have cleared the way for a series of lease sales over the next decade along a vast swath of coastal waters in the Beaufort Sea.

The state's oil and gas director, Kevin Banks, concluded "that the potential benefits of lease sales outweigh the possible negative effects." Natural Resources Commissioner Tom Irwin concurred.

The conclusion is contained in a 437-page document known as a "best interest finding." State law requires a review of pertinent information, including public comments, to determine whether oil and gas lease sales on state-owned acreage are in the state's best interest.

The finding issued Nov. 9 confirms a preliminary best interest finding issued on April 2. It supports annual areawide lease sales planned from this year through 2018 across about 2 million acres of nearshore waters and islands stretching from Barrow east to the Canadian border.

The lease sale area is believed to have "moderate to high petroleum potential," based on prior exploration in the area and

■ Petroleum News reprint • Nov. 15, 2009

proximity to discoveries such as Prudhoe Bay, the best interest finding says.

The state's finding drew considerable opposition, especially from some people living along the Beaufort Sea coast.

Leasing legacy

Since the state's first lease sale in December 1964 on land known as the North Slope, which glides down to meet the Beaufort Sea, the state has held 56 oil and gas lease sales involving Slope and Beaufort acreage.

More than 11.5 million acres in 3,065 tracts have been leased. Of these tracts, 407 were drilled and only 292, or just under 10 percent of those leased, have been commercially developed, the best interest finding says.

"About 81 percent of the state-leased acreage was onshore, and about 19 percent was offshore," it says.

The coastal waters generally are shallow, subject to extreme cold and grinding ice. Precipitation along the Beaufort Sea coastline is so low that the region is classified as a desert, the state document says.

The best interest finding reviews the re-

gion's communities, climate, geologic hazards such as ice movement, fish and wildlife and their habitat, local subsistence practices, the region's oil and gas history and potential, oil spill risk and response, and regulatory protections for the environment.

Objections lodged

A number of environmental groups, Native organizations and others raised concerns about the planned leasing.

State officials said they received 35 oral and written public comments. Among the input state officials collected during a public hearing in the village of Nuiqsut, near the Alpine oil field, was a packet of letters to President Obama from some school children.

Issues raised in the public comments pertained to oil spills, climate change, polar bears, the cumulative effects of oil and gas activity, industry disruption to subsistence activity including bowhead whale hunts, the desire to exclude large areas from leasing, and the prospect of using only land-based directional drilling to tap Beaufort

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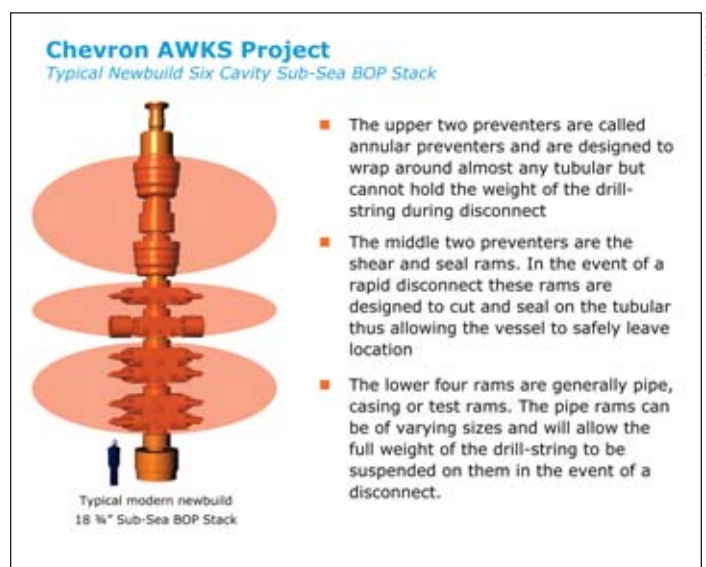
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PARADIGM

in the massive device will further increase the device's overall effectiveness.

Testing of the new blowout preventer design is scheduled for the fourth quarter of 2009, with testing likely to be completed in 2010. And, in addition to being used on wells drilled from floating rigs in the Arctic offshore, presumably with the blowout preventer located in the seafloor, the new design could find application in other situations, such as drilling from offshore platforms and from land rigs. However, given the difficulty of trying to shoehorn a huge new blowout preventer into an existing land rig, for example, Chevron is considering developing a safety package, using the new technology, for retrofitting into existing rig configurations.

But, when it comes to using new technologies such as the new blowout preventers in the Arctic offshore, Chevron is taking great care to discuss its proposals both with government regulators and with the local communities along the Canadian Beaufort Sea coast, making sure that everyone is on board with what Chevron is proposing, Scott said.



A new design of blowout preventer now ready for testing includes duplicate hydraulic rams that would simultaneously shear and seal the well tubing following loss of control of a well.

How much longer for the North Slope?

Revised DOE report indicates oil production from remaining reserves could last 35 years, but much longer after new developments

By ALAN BAILEY
Petroleum News

The slowly declining meter readings at the trans-Alaska pipeline pump station 1 on the North Slope, as production from America's most northerly oil fields continues to flow south at a slowly dwindling rate, raise some worrying questions for those whose livelihoods and well being depend on a corresponding flow of oil dollars.

■ Petroleum News reprint • Feb. 14, 2010

But just how much oil is left in Arctic Alaska? And at what point would the pipeline cease to be viable?

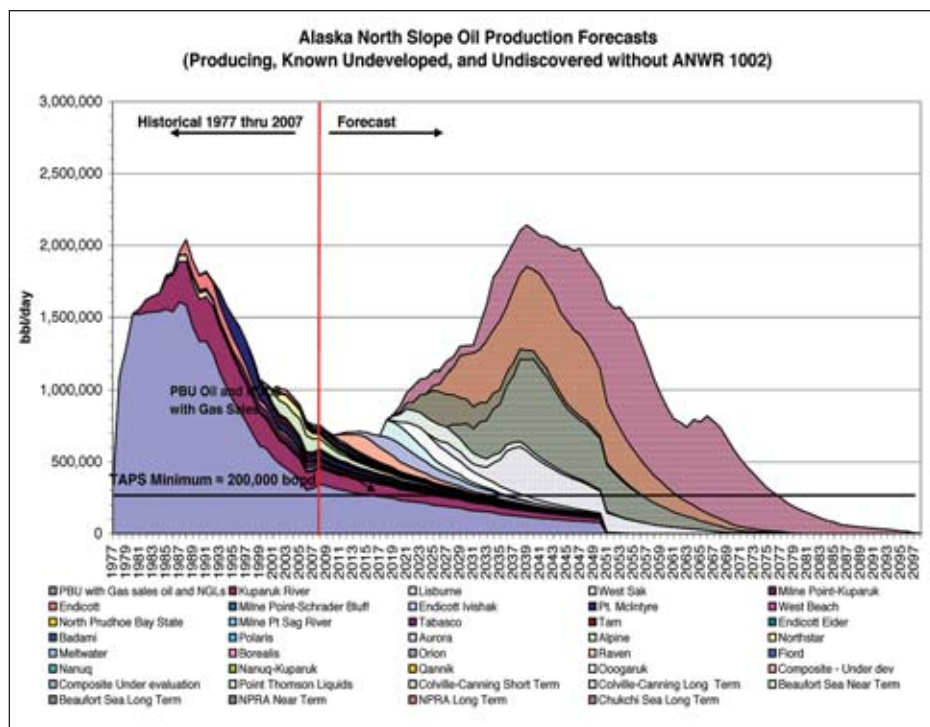
An updated version of a major U.S. Department of Energy report titled "Alaska North Slope Oil and Gas: a Promising Future or an Area in Decline?" attempts to answer these questions through a comprehensive analysis of data about the existing North Slope fields and by piecing together an impressive quantity of available data about potential new oil and gas developments and future exploration.

Earlier version

An earlier version of the report, published in 2007 and based on data available in 2005, contained a massive amount of information about the North Slope oil industry but was substantially out of date by the time that it went to press. Its economic analysis was based on a state oil production tax system that was already defunct at the time of publication, oil production data were nearly three years old, and the report lacked coverage of the most recent exploration programs, oil field developments and development plans.

The new version of the report has updated the data by three years or so. And, given a lack of sufficient data about the operation of Alaska's new ACES oil production tax, the new report does not now attempt an economic analysis of the North Slope oil industry, instead presenting estimates of technically recoverable rather than economically recoverable oil and gas resources.

So what's the bottom line?



Northern Alaska oil production, historically and projected into the future, assuming active oil exploration and development across the region, offshore and onshore. Without new exploration, the lower mechanical limit of 200,000 barrels per day of throughput in the trans-Alaska oil pipeline would be reached at around 2045. The development of new oil in areas such as the National Petroleum Reserve-Alaska, the Beaufort Sea and the Chukchi Sea could extend the life of the pipeline by several decades.

In the absence of any new oilfield development, the existing oil fields could probably produce about another 6.1 billion barrels of oil, the report says. But based on estimated decline rates for oilfield production, flow rates through the trans-Alaska oil pipeline would drop below the 200,000-barrel-per-day mechanical limit for the pipeline by 2039, with that date being extended to 2045 if new oil comes online from fields currently being developed or under evaluation, the report says. A shut-down of the pipeline in 2045 "would potentially strand about 1 billion barrels of oil reserves from the fields analyzed," the report says.

Gas pipeline impact

If a North Slope gas pipeline comes to fruition, estimated gas reserves in the Prudhoe Bay and Point Thomson fields would provide about 32 trillion cubic feet of the 57.5 tcf of natural gas required to support

the construction of a pipeline with a capacity of 4.5 billion cubic feet per day and a 35-year lifespan, the report says.

"The assurance of a gas pipeline to transport the gas to market is needed to encourage exploration and development of sufficient gas resources to support the gas sales project," the report says. "The potential life of the gas sales project could easily exceed a 35-year life for a 4.5-billion-cubic-foot-per-day rate by many years if the potential of Alaska North Slope gas resources is realized."

But, although the export of condensate and oil associated with gas from the Point Thomson field would boost North Slope oil production, extending the life of the oil pipeline would require new oilfield development, the report says.

On the other hand, with a low density of oil wells other than in the immediate vicinity of the existing oil fields, the North Slope

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NORTH SLOPE PRODUCTION

and adjacent areas are “not representative of mature petroleum provinces,” from an exploration perspective, the report says. New exploration efforts in the period up to around 2018-20, prior to any possibility of a North Slope gas pipeline coming online and probably targeting the central North Slope, the National Petroleum Reserve-Alaska and the Beaufort Sea (including the outer continental shelf), could add 2.9 billion barrels of recoverable oil to the inventory of known resources. Exploration in these areas and in the Brooks Range foothills could discover 12 tcf of natural gas.

Longer term

In the longer term, assuming adequate oil and gas prices; unrestricted land access; and stable government fiscal policies, exploration and development onshore and in nearshore waters, but excluding ANWR, could add another 9 billion to 10 billion barrels to oil reserves, the report says.

Successful construction of a gas pipeline could eventually enable 65 tcf of natural gas to come online, while also having the secondary effect of encouraging new oil development and pushing the oil reserves to 15 billion to 16 billion barrels. The addition of further exploration and development on the Beaufort Sea outer continental shelf might push the recoverable oil resources to 19 billion to 20 billion barrels, and recoverable natural gas to 85 tcf, while addition of the Chukchi Sea could perhaps boost those fig-

ures to 29 billion to 30 billion barrels of oil and 135 tcf of gas.

In fact, taking into account new reserves developed in existing fields and assuming that exploration proceeds in more remote areas — in the Chukchi Sea and perhaps in the Arctic National Wildlife Refuge — a total of 35 billion to 36 billion barrels of oil and 137 tcf of natural gas might ultimately be added to reserves by 2050, with those oil reserves additions amounting to more than twice the cumulative North Slope production to date, the report says.

The exploration of the coastal plain area of ANWR would be especially valuable in boosting oil reserves, because the estimated ANWR undiscovered oil resource of 10.3 billion barrels relates to a land area of just 1.9 million acres, the report says. By comparison, NPR-A is thought to hold 10.6 billion barrels of undiscovered oil across a much larger area of 24.2 million acres.

Even the most conservative of these future exploration and development scenarios, with the addition of perhaps 10 billion barrels of new oil reserves, would extend the life of the trans-Alaska oil pipeline to 2060 or beyond, thus also unlocking the 1 billion barrels of oil otherwise stranded in current fields after a 2045 closure, the report says.

However, the report characterizes its estimates of future oil and gas discovery and development as based on “optimistic assumptions” and presents a lengthy list of potential impediments to development. That list includes land access; infrastructure dismantlement and removal requirements; marine mammal protection in the offshore; and gravel availability for onshore infrastructure construction.

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BEAUFORT LEASING

Sea oil and gas discoveries.

In general, state officials replied that ample mitigation measures and regulations are in place to protect wildlife and the environment, and that some of the concerns raised such as global climate change go beyond the scope of a best interest finding for lease sales.

One major complaint from some commenters was that state officials failed to meet or work with Native interests, and that the Alaska Department of Natural Resources “considers working with Native communities only as a hurdle.”

State officials replied: “All stakeholders were given ample opportunity to participate in the Beaufort Sea best interest finding process.”

Dozens of local governments, whaling groups, Native corporations, tribal councils and others were invited to submit input, and public hearings were held in May in Barrow, Nuiqsut and Kaktovik. Another hearing via teleconference was offered for Wainwright, and an informational public meeting was held in Anchorage. Though heavily publicized, the meetings were sparsely attended, the best interest finding says.

The North Slope Borough, the local government for nearly 7,000 mostly Inupiat people living across northern Alaska, raised many leasing objections and asked the state for “cooperating agency status” to help prepare the best interest finding.

The borough cited the example of the Aleutians East Borough, which was granted such status as the federal government moves toward an offshore lease sale in the North Aleutian basin, otherwise

known as Bristol Bay.

State officials refused the borough’s request, saying designation of cooperating agencies is a federal practice under the National Environmental Policy Act.

“Alaska has its own statutory process for obtaining public input on best interest findings,” state officials wrote.

Feds raise ANWR worry

Some of the Beaufort Sea acreage to be offered for lease fronts the Arctic National Wildlife Refuge.

That drew a concern from the U.S. Fish and Wildlife Service, which cited potential land ownership and title issues with many tracts bordering ANWR.

The agency said it was “concerned that tracts the state cannot legally lease may share a boundary with ANWR,” and suggested removing or deferring from lease sales all tracts without a clear title.

The boundary between ANWR and Alaska’s tide and submerged lands and uplands has been the subject of a long-running legal dispute between the federal and state governments.

In the best interest finding, state officials downplayed the concern.

Because the lease sales will encompass a vast area of about 2 million acres over 573 tracts, and it’s unknown which if any of the tracts will receive bids, it’s impractical to conduct a title search of the entire zone or even just the tracts bordering ANWR, the officials said.

Instead, the state “will verify title for tracts receiving bids following each lease sale, and prior to issuing leases,” the best interest finding says. “Therefore, removing or deferring tracts from the lease sale area is unnecessary.”



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Toll free: (877) 411-1484
Web site: www.GCI-IndustrialTelecom.com
Rick Hansen, Director
Richard.Hansen@gci.com
Mark Johnson, Account Manager
Mark.Johnson@gci.com
Deadhorse:
Aurora Hotel #205
Deadhorse, Alaska 99734
Phone: (907) 771-1090
Mike Stanford, Senior Manager North Slope
Mike.Stanford@gci.com
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 Fax: (907) 562-5426
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 Website: www.amarinecorp.com
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 Contact: Don Ingraham, General Mgr
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 Toll Free: 1.800.441.3483
 Fax: (907) 563-9061
 E-mail: ddevilbiss@gdiving.com
 E-mail: dingraham@gdiving.com
 Website: http://www.gdiving.co
Global Offshore Divers is an Alaska-based diving contractor completing work for a wide variety of clients from local and federal agencies to international oil and gas companies. Services include commercial diving capabilities to 1,000ft, work & inspection class ROVs, installation, repair, and maintenance for deep water mooring systems, subsea pipelines, production platforms, and offshore exploration support.

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 E-mail: Alaska@amarinecorp.com
 Website: www.amarinecorp.com
American Marine Corporation specializes in marine construction, commercial diving, pipeline and platform inspection, repair and

maintenance, underwater welding, dredging, vessel support, crew boat services and vessel inspection and repairs.

Global Offshore Divers

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 Anchorage, AK 99518
 Contact: David Devilbiss, AK Regional Mgr
 Contact: Don Ingraham, General Mgr
 Phone: (907) 563-9060
 Toll Free: 1.800.441.3483
 Fax: (907) 563-9061
 E-mail: ddevilbiss@gdiving.com
 E-mail: dingraham@gdiving.com
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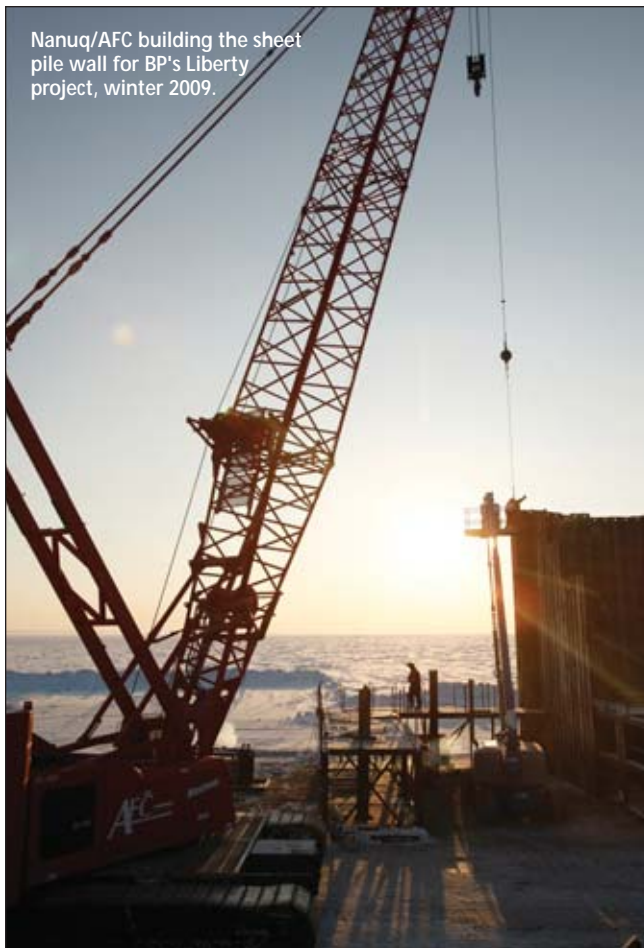




North Slope exposure

Images by Judy Patrick

Row of wells at the Alpine Field. The effect was created by zooming the camera's zoom lens during a long exposure with the camera mounted on a tripod.



Nanuq/AFC building the sheet pile wall for BP's Liberty project, winter 2009.



Building an ice road on the ocean during February.



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COMPANY NEWS *in brief*

AADE presents three local charities with checks

The American Association of Drilling Engineers Alaska chapter at its Sept. 16 monthly meeting presented three local charities with checks totaling \$7,500.

The AADE celebrated another successful Fin, Feather, Fur, Food Festival on May 15; the proceeds of the event brought in an astounding \$22,588, monies which are divided to help support local charities, AADE engineering educational initiatives such as the Knowledge Box and AADE's scholarship fund.

The three local charities to each receive a \$2,500 check were the Kid's Kitchen, Downtown Soup Kitchen and Bean's Café. "Thank you for your help and don't forget, no child should ever go hungry," said Elgin Jones, accepting the check on behalf of the Kid's Kitchen.

The AADE, a nonprofit volunteer organization, was founded in New Orleans in 1978 and comprises an affiliation of nine independent chapters, including Alaska, with more than 5,000 members and governed by an AADE National Board.



ELGIN JONES

FORREST CRANE

ABB acquires Sinai Engineering Corp.

ABB Inc. said Oct. 8 that it has acquired the assets of Sinai Engineering Corp., enhancing its presence and capabilities in Western Canada. "This acquisition is aligned with our strategy to strengthen our footprint in Western Canada, particularly in providing engineering services to oil and gas and utility customers," said Sandy Taylor, president and CEO of ABB Inc. "Sinai Engineering's expertise and customer focus will help our customers boost productivity and energy efficiencies while reducing costs." Sinai Engineering is a consulting firm whose customers include electric utilities, conventional and heavy oil, gas processing, pulp and paper, mining, pipeline operators and independent power producers. ABB is a leader in power and automation technologies that enable utility and industry customers to improve their performance while lowering environmental impact. For more information visit www.abb.com.

ABB retains DCS market share worldwide for '08

ABB said July 21 that it had retained the leading worldwide market position in the core automation market for the latest version of ARC Advisory Group's "Distributed Control Systems Worldwide Outlook" study. The study says the explosive growth that characterized the distributed control systems market up until 2008 is gone due to the global economic crisis. ARC predicts that the compound annual growth rate for this market through 2013 will be curbed to 3 percent.

Distributed control systems-related services offer the best opportunity for growth in the near future, the report said.

Customer demand for value-added services from automation suppliers has never been higher, ARC said. These include project services such as the main automation contractor concept, where the supplier takes full responsibility for all aspects of an automation project, as well as other after-sales distributed control systems services that help end users optimize plant per-

formance.

"ABB's comprehensive automation system lifecycle approach helps our customers get the maximum value out of their existing control system investment, while providing a secure evolution path forward to help them maintain their competitiveness and reach their productivity targets," said Veli-Matti Reinikkala, head of ABB's process automation division. "Our leading-edge technology, dedicated global services team and commitment to our installed base provide an unbeatable combination to transcend today's troubled economy and prepare for tomorrow's new challenges."

ABB wins \$60M order from Saudi Electricity

ABB said Aug. 10 that it has won orders worth \$60 million from Saudi Electricity Co., Saudi Arabia's national power transmission and distribution utility, to improve the power efficiency of 28 distribution substations. ABB is responsible for the design, engineering, supply, installation and commissioning of the projects, which are expected to be completed by 2010. ABB technologies will improve the power factor, which is a measure of how efficiently power is being used. "These solutions will enable the substations to operate more efficiently thereby increasing the availability of electricity and improving power quality," said Peter Leupp, head of ABB's Power System division. ABB is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact.

ACS \$6.8 million gift to the University of Alaska

Alaska Communications Systems said Dec. 8 that it has provided a gift to the University of Alaska worth an estimated \$6.8 million, enabling service continuity of core university functions should a major disruption occur. The gift will provide the university with a backup data center for its most important systems at ACS' facility in Hillsboro, Ore., along with all the necessary connectivity for its core systems, allowing UA to continue online operations that would otherwise be disrupted in the wake of a major disaster or outage. The gift comes at no cost to the university for five years, including maintenance at the Oregon facility. "ACS is proud to give back to the community and support the mission of the university," said Liane Pelletier, president and chief executive officer, ACS. For more information visit www.acsalaska.com.

ACS offers new unlimited voice and data plans

Alaska Communications Systems said Jan. 19 that it was offering new unlimited nationwide, monthly service plans to pair with unlimited text and data plans on Alaska's largest and most dependable 3G network. The company aims to keep pace with voice plan streamlining recently established by the national carrier that competes in the Alaska market, while providing best value for wireless data services. Beginning Jan. 20, customers may sign up for a new Nationwide Unlimited voice plan that allows customers to call anyone in the United States and Canada for \$69.99 per month. Nationwide family plans will also have new unlimited options. ACS has also revamped its wireless data

offerings to firmly position itself as a value leader in the rapidly expanding market for wireless data services. For more information visit www.acsalaska.com.

ACS unveils new retail location in Wasilla

Alaska Communications Systems said Nov. 18 that it has opened a new retail store in Wasilla. The store, at 1733 E. Palmer-Wasilla Hwy., directly in front of Fred Meyer, is open 9 a.m. to 8 p.m. Monday through Saturday and 10 a.m. to 6 p.m. on Sunday. "We encourage everyone to stop by the new location in Wasilla. It's a beautiful new building close to all your shopping needs. With more than 4,000 square feet, our new store location will provide our customers with a great experience including convenience to other shopping and ample parking," said Janet Klatt, director, retail sales and service. The new location will have a grand opening celebration, including special promotions, refreshments and more, on Dec. 4.

AECOM wins environmental publication awards

AECOM said Jan. 27 that it has received four Business Achievement Awards from two leading environmental industry publications' annual award competitions. Dale Sands, senior vice president and global practices director in AECOM's Environmental practice and Lucy Labruzzo, U.S. managing director of the Energy practice, will accept the awards at the annual Environmental Summit in Coronado, Calif., on March 3. The Climate Change Business Journal recognized AECOM for its Renewable Energy practice, and Arauco Carbon Footprinting Analysis project. The Environmental Business Journal recognized AECOM for Green and Sustainable Remediation and its Environmental Mobil Application for Pipelines. AECOM is a global provider of professional technical and management support services to a broad range of markets, including transportation, facilities, environmental, energy, water and government. With approximately 45,000 employees around the world, AECOM is leader in all of the key markets it serves. For more information visit www.aecom.com.

AIC wins Juneau area construction contracts

Alaska Interstate Construction LLC said Sept. 3 that it recently won two construction contracts in the Juneau area of Southeast Alaska. The company successfully bid for the principal civil and piping contract for the tailings facility at Coeur Alaska's Kensington Mine. Coeur awarded the contract on Aug. 21. AIC also won a \$28.6 million contract to complete runway safety area improvements at Juneau International Airport on Aug. 10. The tailings facility at Lower Slate Lake is the only remaining construction left before the Kensington Mine can begin gold production. Following that, most of the 80-acre lake will be pumped out to an acceptable level of construction and a temporary dam will be erected so work can begin on a permanent dam. AIC contracted with a local tribal corporation to provide AIC project-specific socioeconomic and cultural outreach services. AIC's successful bid for the Juneau International Airport contract will extend the airport's runway at both ends, which requires extensive filling and dredging. AIC will also improve taxiways and lighting, realign an adjacent creek and trail, dredge the float plane pond and build float plane ramps. For more information visit www.aicllc.com.



COURTESY ALASKA RAILROAD

Alaska Railroad 2010 annual print release event

The Alaska Railroad Corp. said Nov. 24 that it will release its 2010 annual print during two public sale-and-singing events in mid-December, each featuring print artist Stefan Wilson who will be on hand to sign the prints and posters. The first event will be held in Fairbanks, Saturday, Dec. 12, at the Fairbanks Depot, 1745 Johansen Expressway. The second event will be in Anchorage, Saturday, Dec. 19, at the Historic Ship Creek Depot, 411 W. 1st Ave. Both will be from 10 a.m. to 2 p.m. The water-based acrylic painting titled "Next Stop, Anchorage," depicting a passenger train moving northwest along scenic Turnagain Arm, was created using a combination of airbrush and paintbrush, and is the first annual print to feature the Goldstar first-class double-decker dome coaches. Prints cost \$55, posters cost \$30 and pins cost \$5. For more information visit www.akrr.com.

Air Liquide finishes project for Shell Hydrogen

Air Liquide said Dec. 16 that it has completed the installation of a fueling system for Shell Hydrogen in Bronx, N.Y., in addition to the fueling equipment. Air Liquide is also supplying the hydrogen gas and liquid nitrogen required for operations. The station will provide fueling capability in support of General Motor's Project Driveway vehicles and serve as another site in the network being developed in New York in anticipation of other auto manufacturers introducing fuel cell vehicles to the area. Air Liquide's technology is also used at a station in Ardsley, N.Y. Using hydrogen as energy for transportation is a promising solution for sustainable mobility. Air Liquide has also provided fueling systems in California, Delaware and many countries around the world. The fueling systems are built in the U.S. with proprietary engineering designs from Air Liquide Advanced Technologies U.S. LLC, and are capable of filling a car at 700 bar pressure in less than five minutes. "Air Liquide's innovative hydrogen technologies are powering vehicles and equipment while protecting the environment. With more than 40 years experience in hydrogen and numerous related patents, Air Liquide is helping to build the hydrogen energy infrastructure, to demonstrate its benefits to society and prepare for future markets," said Michael J. Graff, a member of Air Liquide's executive

committee and president and CEO of American Air Liquide Holdings Inc. For more information visit www.hydrogen-planet.com.

AAL supplies Haiti rescue aid

American Air Liquide, a division of Air Liquide said Jan. 27 that it has been helping coordinate emergency assistance efforts with the United Nations Center for International Disaster to provide much-needed medical

oxygen to the rescue teams in Haiti. Due to Air Liquide's footprint and logistics structure, it was able to establish its first medical filling system in Haiti on Jan. 16 and a second system on Jan. 18, providing medical

oxygen needs for a number of hospitals in the area and all of the temporary medical facilities and tents that are in operation at the U.N. compound. While support services are needed, monetary donations are also critical to recovery efforts. Air Liquide has coordinated with the American Red Cross to develop a microsite for employee donations, which will be matched dollar for dollar by the company until Feb. 28.

Air Liquide to double its production capacity

Air Liquide said Jan. 4 that it has begun building a new production unit in Anchorage to double its liquid oxygen and nitrogen capacity in Alaska. Air Liquide has been a leading provider of industrial gases in the state of Alaska for 41 years, with 75 employees ensuring the production of oxygen, nitrogen and acetylene gases distributed in bulk tankers and cylinders, providing equipment to customers in the petrochemical, refining and mining sectors. Scheduled to start in the fall of 2010, the new unit will allow Air Liquide to provide reliable production and distribution of industrial and medical gases to Alaskans, which is particularly important, due to the state's geography and distribution challenges. For more information visit www.airliquide.com.

Alaska Frontier Constructors receives certificates

Alaska Frontier Constructors Inc. said Dec. 15 that it, along with Nanuq Inc. of Anchorage and Prudhoe Bay have achieved an ISO 14001 Environmental Management System certificate, an AHSAS 18001 Health and Safety Management System certificate and ISO 9001:2008 Quality Management System certificate for its development and implementation of an internationally recognized project management structure for heavy civil construction projects. The certifications were issued by SRI Quality System Registrar, an internationally-accredited, Pittsburg-based firm that evaluates and audits management system standards. The recognition highlights AFC and Nanuq's dedication to good environmental practices, as well as a commitment to customers, established clear policy and planning and good community relations. AFC is an Alaska owned and operated civil engineer construction contractor and its affiliate, Nanuq is owned by Kuukpik Corp. from the village of Nuiqsut. The two firms have over 400 employees working throughout Alaska.

Alaska Railroad schedules open house

The Alaska Railroad said Jan. 19 that it invites the public to an open house 4-6:30 p.m., Tuesday, Jan. 26 at the Alaska Railroad Depot, 1745 Johansen Expressway in Fairbanks. The venue provides an opportunity to review and comment on a proposed



APICC supports engineering through education partnership

The Alaska Process Industry Careers Consortium said Nov. 16 that in conjunction with the University of Alaska statewide system it has reached an agreement to collaborate with the Alaska Department of Education and Early Development and the Alaska Department of Labor and Workforce Development to plan, develop and support access to engineering academies for public high school students in Alaska. This initiative will help build a pipeline of highly qualified Alaskans to enter careers in science, technology, engineering and mathematics — the so-called STEM fields. The University of Alaska is working to double its annual number of students graduating with engineering degrees. APICC has an 11-year history and over a decade of strategic alliances with Alaska industry, business, education, trade associations and labor. For more information visit www.apicc.org.



COURTESY ALASKA RAILROAD

Program of Projects for 2010. The open house will showcase continuing and proposed capital improvement projects that are in various stages, from conceptual planning, to engineering and construction. Project managers will be on-hand to explain projects that are located all along the railroad system from Seward to Fairbanks. An open house will also be held in Seward from 10 a.m.-1:30 p.m., Friday, Feb. 19 at the Breeze Inn, 303 N. Harbor St. Open houses were held in Anchorage Jan. 20 and in Wasilla Jan. 21. For more information visit www.alaskarailroad.com.

STB completes final FEIS for Alaska Railroad

The Alaska Railroad said Sept. 25 that the Federal Surface Transportation Board has completed the Final Environmental Impact Statement for the Alaska Railroad Corp. application to construct and operate a rail line between North Pole and Delta Junction. Known as the Northern Rail Extension, the project would offer safe freight and passenger rail service to communities southeast of North Pole; support agriculture, mining and petrochemical industries; and provide year-round reliable access to military training areas. The FEIS includes a recommended route and mitigation measures to offset impacts from construction. The STB's Record of Decision is expected by the end of October. For more information visit www.akrr.com.

ASG's chairman and CEO, Bob Magee, passes away

American Shipping Group said Dec. 1 that its long-term chairman and CEO, Bob Magee, passed away after a courageous battle with cancer. Magee joined Totem Ocean Trailer Express in May 1986 as vice president marine operations. He went on to become president and CEO of TOTE, later chairman of Sea Star Line LLC, and then chairman and CEO of American Shipping Group. In 2004, Magee was presented with the United Seamen's Service Admiral of the Ocean Sea Award, recognizing his longtime career in the maritime industry, leadership and fine American spirit. He received numerous maritime awards, while giving all the credit to his employees. Magee was also known for giving generously of his time and money, sitting on the advisory boards for USMMA Kings Point and United Way of Peirce County, and for being involved in many other clubs and association.

"Bob will be missed by all of us," said Tim Engle, president of Saltchuk Resources Inc., "those who work in our family of companies, our customers, labor partners, vendors, public policy representatives, members of our industry and the communities in which we serve. Our



BOB MAGEE



COURTESY AMERICAN MARINE

American Marine ends another successful season

American Marine Corp. said Oct. 5 that its vessels, the American Explorer and American Discovery have ended another successful season on the North Slope with no accidents, incidents or injuries. "Thanks to the vessel crews, Deadhorse support staff of American Marine Corp., our clients, vendors, and contractors who assisted in achieving this goal," said Rick Wilson, operations manager for the Alaska region. American Marine Services Group of Companies includes Pacific Environmental Corp. and has offices in Anchorage, Prudhoe Bay, Honolulu, Los Angeles and New Orleans; it operates a significant fleet of vessels including large ocean tugs, barges, research and survey support vessels, supply boats and crew boats throughout the U.S. and beyond. For more information visit www.amarinecorp.com or www.penco.org.

thoughts are with his wife Marie, and the rest of the family."

ASRC acquires major share of Petrochem Insulation

ASRC Energy Services, a subsidiary of Arctic Slope Regional Corp., said Aug. 13 that it was expanding its business services by acquiring a major share of Petrochem, one of the largest providers of insulation and multicraft services in the U.S.

"This new line of business increases our opportunities outside of Alaska, and enhances the services we provide to our customers," said ASRC Energy Services President Mark Nelson. "We are proud of Petrochem's exceptional safety record, and welcome its 1,000 employees to the ASRC family of companies."

Petrochem has been providing multicraft services for 35 years to oil refineries, power and chemical plants, pulp and

paper companies, breweries and wineries, food processors, and other industrial markets. Other services provided by Petrochem include scaffolding, asbestos and lead abatement, fireproofing, and industrial painting and coating.

ASRC Energy Services performs an array of oilfield engineering, operations, maintenance, construction, fabrication, regulatory and permitting, and other services for some of the world's largest oil and gas companies.

Port, BP honored for clean 'shore power'

On Oct. 7 Everything Long Beach carried an article about the Southern California regional air pollution authorities presenting the Port of Long Beach with an award for becoming the first seaport in the world to construct an oil shipping terminal that offers clean "shore power" to improve air quality.

Port and BP America officials accepted the honor from the South Coast Air Quality Management District at the agency's 21st annual "Clean Air Awards" ceremony in downtown Los Angeles.

The Port of Long Beach outfitted BP's oil tanker terminal on Pier T with the ability to allow tankers to safely "plug in" to the landslide electrical grid for all power needs while docked and unloading crude oil. BP America retrofitted two of its Alaska oil tankers to plug in.

BP sponsors Alaska math, science conference

On Oct. 7 Capital City Weekly carried an article about the 2009 Alaska Math & Science Conference, which is being held in Juneau for the first time Oct. 14-17 and is sponsored by the Alaska Department of Education & Early Development, BP Alaska, Delta Education FOSS, ExxonMobil, the Juneau School District and the University of Alaska Southeast.

The goal of the conference is to help science and math teachers, and in turn their students, understand the connections in the natural world, enhancing science literacy.

There will be participants from all over the state, from as far away as Bethel and Barrow, capitalcityweekly.com reported. The publication also said there will be an industry panel, "In which educators can hear about opportunities for internships for students or externships for teachers in a variety of local industries, including fish processing, mining, and energy."

CH2M Hill program receives 'outstanding' rating

CH2M Hill said Aug. 25 that it recently received an "outstanding" rating for its supplier diversity and small business program, after successfully completing a July 22 audit by the Defense Contract Management Agency and the U.S. Small Business Administration. CH2M Hill, a global full-service engineering, procurement, construction and operations firm, has held its "outstanding" ranking, the highest of the five ratings bestowed on a company, since 1998. For the past five years, CH2M Hill has subcontracted more than \$1.3 billion in support of federal contracts, with 71.8 percent going to small businesses, 18 percent going to firms socially and economically disadvantaged, 1.39 percent to woman-owned small businesses and 8.6 percent to veteran-owned small businesses.



ConocoPhillips Energy Prize winner announced

ConocoPhillips said Oct. 20 that it, along with Penn State, has awarded the 2009 ConocoPhillips Energy Prize to Scott Anderson and team for their innovation, the ECO-Auger, a hydrokinetic

machine that converts moving water from river and ocean currents to renewable electric energy. Its hydraulic storage pressure compensation system guarantees constant energy output regardless of tidal current strength. The ConocoPhillips Energy Prize recognizes new ideas and original, actionable solutions that can help improve the way the U.S. develops and uses energy. The prize focuses on innovative ideas and solutions in three areas: developing new energy sources, improving energy efficiency and combating climate change. For more information about the ConocoPhillips Energy Prize and the finalists visit www.conocophillips.com/energyprize.



Crowley adds Sesok to fleet of Alaska river tugs

Crowley Maritime Corp. said Aug. 25 that joining the fleet of Alaska river tugs this month was its newest triple-screw diesel powered tug, the Sesok.

Jointly designed by Crowley and Diversified Marine, the Sesok, which means "beluga whale" in the Native Inupiaq language, boasts 1,362 horsepower and is equipped to safely propel petroleum and freight barges in river systems throughout Alaska.

"Even in the midst of tough economic times, Crowley continues to invest in vessels that not only provide the safest service but also help protect Alaska's natural resources," said Craig Tornga, vice president of Crowley's Alaska marine services. "Both the Sesok and the Nachik complement the company's existing fleet of river tugs and will provide improved service to our customers and communities in Western Alaska."

Crowley restructuring its Alaska operations

Crowley Maritime Corp. said Jan. 28 that it has restructured its petroleum distribution and contract services group, consolidating all Alaska operations under Craig Tornga, vice president. Tornga will remain in Anchorage, will continue reporting to Rocky Smith, senior vice president and general manager, will continue to manage Alaska's petroleum distribution and fuel sales but will now also manage tanker assist and escort services in Valdez and Prince William Sound, Alaska, and energy support services on Alaska's

North Slope. "The realignment of our Alaska management team is in line with our statewide business strategies," said Smith. "We are leveraging our management talents across all lines of business in Alaska in order to promote a one Crowley vision and presence in our Alaska markets." For more information visit

www.crowley.com.



CRAIG TORNGA

Crowley ATB is largest to transit Alaska waters

Crowley Maritime Corp. said Dec. 15 that its petroleum transportation group recently made history, as its 155,000-barrel Articulated Tug Barge, Sea Reliance/550-1, became the largest of its kind to have ever have transited Alaska waters. Under the watchful command of Capt. Scott Murdock, the ATB completed a voyage from Martinez, Calif., to Anchorage carrying a full load of jet fuel. The journey, which occurred without incident, was met with several weather concerns because of an early start to the winter storm season. Although other small cargo ATBs have traveled in Alaska, nothing has rivaled the size of the Sea Reliance/550-1, which measures over 600 feet in length. For more information visit www.crowley.com.

Crowley funding dreams for college students

Crowley said Sept. 9 that its scholarship program continues to cross borders helping five new students in their respective Central American countries fund their educations and their dreams. Over the last month, Crowley has awarded scholarships to students in Costa Rica, Guatemala, Panama, Honduras and El Salvador.

The scholarships are part of Crowley's commitment to provide educational opportunities to exemplary students with strong academic records and financial need. In Central America, the scholarships are awarded to one student in each country each year through graduation, bringing the total to 20 scholarship recipients to date. The scholarships are well-received, especially from students who come from very modest means. For more information visit www.crowley.com.

Crowley names Tessier VP of sales, chartering

Crowley Maritime Corp. said Dec. 9 that Dorine Tessier has been named vice president of sales and chartering for its petroleum transportation group. In her new role, she will report to John Douglass, senior vice president and general manager of Crowley's Gulf and Atlantic region and will relocate from Anchorage to Jacksonville. As vice president of sales and chartering, Tessier will be responsible for the planning and direction of the group's sales and chartering initiatives, overseeing development of policies and procedures; coordinating and negotiating customer contracts and developing business relations, specifically in the company's articulated tug barge program. "I am very happy to be joining such a highly skilled team and look forward to the opportunities and challenges chartering, sales and marketing represents," said Tessier. Tessier joined Crowley in 2003 when the company acquired Yukon Fuel Company and has served the company in various roles. In 2006, she was promoted to director, supply and distribution for Crowley's petroleum dis-



COURTESY CROWLEY

Lightering operation successful in Haiti

Crowley Maritime Corp. said Jan. 22 that, working under contract with the U.S.

Transportation Command, it successfully discharged 12 20-foot containers of relief supplies across a beach in Port-au-Prince, Haiti, in an experimental lightering operation. The success of this operation, which involved lifting the containers from a Crowley container ship anchored in the harbor to a smaller, shallow-draft landing vessel for transport and discharge over the beach, paves the way for container shipments directly into Port-au-Prince later in the month. "Today's operation was an important milestone in re-establishing direct container shipments into the heavily damaged port," said John Hourihan, Crowley's senior vice president and general manager of Latin America services. "The port survey conducted Monday by a team from our TITAN Salvage subsidiary was spot-on in terms of identifying a suitable location in the port where we could safely discharge the cargo." For more information visit www.crowley.com.

tribution group. She was later named director of sales and marketing.

Tom Crowley receives prestigious NTA award

Crowley Maritime Corp. said Sept. 30 that Tom Crowley Jr., the corporation's chairman, president and CEO, was presented with the prestigious National Transportation Award from the National Defense Transportation Association, at the group's annual logistics forum and exposition in Nashville, Tenn.

"Our relationship with the Department of Defense is as diverse as Crowley and the different services we provide," said Crowley, who said he was pleased to accept the award on behalf of the 4,300 Crowley employees around the world providing services to the DOD and government.



TOM CROWLEY JR.

Jacksonville-based Crowley Holdings Inc., a holding company of the 117-year-old Crowley Maritime Corp., is a privately held family and employee-owned company that provides diversified transportation and logistics services in domestic and international markets. For more information visit www.crowley.com.

Crowley restructures senior management team

Crowley Maritime Corp. said Jan. 11 that it is restructuring its senior management team with John Douglas taking over as senior vice president and general manager of Crowley's Puerto Rico/Caribbean liner services; Rob Grune will be taking over as senior vice president and general manager of Crowley's petroleum transportation group. In addition, Rockwell Smith, Crowley's senior vice president and general manager based in Seattle, will assume responsibility for all of Crowley's marine contract services both domestically and internationally, continuing to oversee the company's Alaska operations and West Coast harbor services. For more information visit www.crowley.com.



JOHN DOUGLAS



ROB GRUNE



ROCKWELL SMITH



COURTESY CROWLEY

Crowley takes delivery of 'Sunshine State' tanker

Crowley Maritime Corp. said Dec. 4, that it has taken delivery of Sunshine State, a 331,000-barrel, double-hull oil and chemical tanker, from General Dynamics NASSCO in San Diego, Calif., for American Petroleum Tankers LLC. The Sunshine State is the first vessel Crowley has taken delivery of since the company was contracted by APT to handle shipyard construction management and overall vessel management, crewing and operation of the company's growing fleet. The Sunshine State measures 600 feet by 106 feet by 39 feet and has the capacity to carry 331,000 barrels of product. It has a single-screw, slow-speed diesel plant propulsion system with speeds of 15 knots. Two other sister vessels, the Empire State and the Evergreen State, which will both be chartered to the Military Sealift Command, are scheduled to be delivered to Crowley in 2010. For more information visit www.crowley.com.

Crowley's Busch elected president of the ISU

Crowley Maritime Corp. said Sept. 28 that Todd Busch, the company's senior vice president and general manager of technical services, which includes Crowley subsidiary Titan Salvage, has been elected president of the International Salvage Union. Busch also serves as a director, representing Crowley and Titan on the board of the Marine Response Alliance LLC, and holds two licenses: Master, 100 Gross Tons Inspected Vessel; and Mate, 200 Gross Tons Inspected Vessels.



TODD BUSCH

Elected during the ISU's 55th general meeting in Boston this week, Busch succeeds Arnold Witte, who will continue to be a member of the ISU's executive committee. "It is an honor to serve this fine organization in the capacity of president," said Busch. "Titan has been a proud member for many years and is looking forward to our continued relationship." For more information visit www.crowley.com.

Michel, Weist awarded Crowley's highest honor

Crowley said Aug. 27 that Suz Michel, director of people development and learning for Crowley in Seattle, and Bob Weist, vice president of sales and marketing for the logistics group, were awarded 2008 Thomas Crowley trophies, the company's highest honor. Created in 1985,



SUZ MICHEL



BOB WEIST

only 50 of the company's 4,300-plus employees have been recognized with the limited edition, bronze sculpture depicting young Thomas Crowley as he ferried goods to and from ships on San Francisco Bay in the early 1890s. The trophy serves not only as a tribute to the founder of the company, but also to those honorees who have aligned themselves closely with the company's values and displayed outstanding performance along with dedication, leadership, initiative and productivity. For more information visit www.crowley.com.

Nalen named general manager in Valdez

Crowley Maritime Corp. said Oct. 7 that it has named Charlie Nalen general manager of the company's Valdez operations. In his new position Nalen will be responsible for the entirety of Crowley's marine operations in Valdez including ship assist and escort services for Alyeska Pipeline Service Co.'s ship escort and response vessel system. He will report to Bruce Harland, vice president of contract services, Alaska, and will relocate from Jacksonville, Fla., to Valdez.



CHARLIE NALEN

"Charlie has helped to position Crowley as an industry leader in safety and environmental protection," said Harland. "He has taken the corporation to new heights and has earned a tremendous amount of respect from both Crowley customers and industry officials. We are very much looking forward to him

bringing that know-how and focus to the Valdez operation where safety is paramount.”

Nelly Yunta named GM of Customized Brokers

Crowley's logistics group said Sept. 8, that Nelly Yunta has been named general manager of Customized Brokers, Crowley's customs brokerage company in Miami. In her new position, Yunta will be responsible for the coordination of operations activities for Customized Brokers, development of policies and procedures, operating results, profit and loss, coordination and negotiation of service provider agreements and business relations development. She will remain domiciled in Miami, but will move to the Customized Brokers office and will report to Pat Compres, vice president.



NELLY YUNTA

Yunta joined Crowley in 1988 as a senior coordinator in the Miami traffic department. She has a degree in Business Administration from the University of Buenos Aires in Argentina. In 2003, Yunta was awarded the Thomas Crowley Trophy, Crowley Maritime Corp.'s most prestigious award. For more information visit www.crowley.com.

Duoline gives 'rules of thumb' with new literature

Duoline Technologies said Oct. 23 that it has released its new literature "Connection Options," giving customers general rules of thumb for choosing the best connection option, depending on the application. Duoline, an industry leader in solving oilfield corrosion problems through innovative products and services, said that the literature provides detailed information on five connection options it has available. Details on each connection include typical applications, liner dimensions, drift dimensions, pipe sizes and other unique features. Duoline is a unique insert liner process that secures a corrosion resistant material such as glass-reinforced epoxy or PVC inside the steel pipe, thereby protecting steel tubular, isolating corrosive oilfield fluids and gasses. Since 1964, more than 80 million feet of Duoline have been successfully installed worldwide. For more information visit www.duoline.com.



EFS advised on halon spare parts

Engineered Fire & Safety said Sept. 8 that it has been advised by Kidde-Fenwal Inc., a UTC fire and security company, that halon spare parts will no longer be available for sale or shipment after Dec. 31. In accordance with the Montreal Protocol Treaty, the U.S. ceased the production of halon agent in 1993. Consequently, KFI ceased to provide factory-filled halon systems; it continued to provide empty halon systems and spares. In 2002, KFI discontinued providing empty halon systems, but has maintained an inventory of spare halon components. KFI has serviced the halon-installed base for the last 16 years, but with the decline of sales and spare components, has decided to discontinue support of the halon product line. For more infor-



COURTESY EXXONMOBIL

ExxonMobil, Harris Foundation visit San Diego

ExxonMobil said Jan. 29 that former U.S. astronaut Bernard Harris gave students and teachers in San Diego a first-hand experience with the wonders of science, technology, engineering and mathematics when "The Dream Tour, presented by ExxonMobil" made its first stop of 2010 at Abraham Lincoln High School, speaking to 650 students from Millennial Middle School, Innovation Middle School and Memorial Preparatory School. The tour is designed to encourage today's middle school students to realize their potentials and strive to acquire strong math and science skills. The program included an interactive and inspirational program by Harris, a demonstration on space and engaging dialogue about achieving goals. "It is critical that American students are prepared with the problem-solving skills and tools to tackle challenges they may face in the future. Providing them with a strong foundation in math and science education is imperative, and with The Dream Tour, I hope to inspire students to pursue studies and careers in these fields," said Dr. Harris. This year the dream tour will visit Anchorage, Baton Rouge, Billings, Cleveland, Denver, Nashville, Philadelphia, Phoenix, San Diego and San Francisco as Harris continues to motivate and inspire students to pursue math and science. For more information visit www.dreaming2dream.org.

mation contact EFS at 907-274-7973.

ExxonMobil contributes \$1.8 million to schools

ExxonMobil said Dec. 30 that through its Educational Alliance Program it has awarded \$1.8 million in grants this year to 2,400 schools to enhance math and science programs across the United States. It is the 10th consecutive year for the program, which has provided grants to K-12 educational institutions in 42 states and the District of Columbia. Local schools are eligible to apply for Educational Alliance grants by partnering with their nearby Exxon or Mobil branded retailer, the vast majority of which are independently owned and operated. Since 2000, the program has contributed more than \$18 million to local schools through Exxon and Mobil retailers. ExxonMobil is a long-standing supporter of math and science education, which includes a \$125 million commitment to the National Math and Science Initiative in the United States. Other initiatives include partnerships with former astronauts Bernard Harris and Sally Ride to

encourage students to study math and science, and the Mickelson ExxonMobil Teachers Academy, a partnership with PGA golfer Phil Mickelson and his wife, Amy, which has equipped more than 2,000 teachers with innovative tools to inspire students in math and science. For more information visit www.exxonmobil.com/community.

ExxonMobil grants \$500K to Teach for America

ExxonMobil said Jan. 6 that its \$500,000 grant to Teach for America will be used to recruit more than 1,500 top college graduates from across the United States to teach middle-school math and science. The funds will also support Teach for America's rigorous program of pre-service training, ongoing professional development and mentoring for these teachers. "Improving the quality of math and science education in America's classrooms is a primary focus for ExxonMobil because we believe that education is the key to progress, development and economic growth," said Gerald McElvy, president of ExxonMobil Foundation. ExxonMobil has supported Teach for America for 16 years, and in 2009 invested more than \$90 million in education initiatives worldwide. For more information visit www.exxonmobil.com/community.

ExxonMobil receives EPA STAR award

ExxonMobil said Nov. 16 that it has received the 2009 Continuing Excellence award from the U.S. Environmental Protection Agency, under its Natural Gas STAR Program. The program recognizes companies that apply cost-effective technologies and management practices to improve operational efficiency and reduce methane emissions. The Continuing Excellence Award is presented to companies that annually self-report to the EPA; continually demonstrate a high level of performance in reducing emissions; implement a variety of technologies and practices; and support the program's activities, initiatives and outreach. ExxonMobil is one of the largest oil and gas producers and reserves holders in the U.S., with a diverse resource and asset portfolio.

HoTH's air carrier group gets new name, logo

HoTH said Nov. 30 that its air carrier operations will have a new name and logo, "Era Alaska," to represent the airline brand for consumers of in-state travel, with individual carriers operating under their own certificates doing business as Era Alaska. "Seamless branding will allow a single shopping path for passenger and cargo services statewide, with connections to and from hub communities throughout bush Alaska. All services provided by the individual Frontier Alaska carriers will be consolidated into one-stop shop for in-state customers," said Bob Hajdukovich, company CEO. The new name and logo will be applied to all signage, company apparel, Web site, reservations systems, freight network, and equipment on or about Jan. 10, 2010. HoTH Inc., an Alaska corporation, is owned by John Hajdukovich, Mike Hageland, and James Tweto, and the parent holding company of Frontier Flying Service, Hageland Aviation Services, Arctic Circle Air Service and Era Aviation Inc.

HoTH announces acquisition of Arctic Circle Air

HoTH Inc., an Alaska corporation owned by John Hajdukovich, Mike Hageland and James Tweto, the parent holding



COURTESY HAWK CONSULTANTS

Hawk awards \$60,000 grant to support ANSEP

Hawk Consultants LLC said Oct. 28 that it has awarded a \$60,000 grant to support the Alaska Native Science and Engineering Program at the University of Alaska Anchorage. The goal of ANSEP is to help change hiring patterns of Indigenous Americans in the fields of science, technology, engineering and mathematics by increasing the number of individuals on a career path to leadership in these fields. Hawk is a long-time supporter of ANSEP and seeks to develop Native Alaskan expertise in the fields of science, engineering and project management. The grant will help ensure that Alaska Natives are ready to build the state's future. Hawk Consultants LLC is an Alaskan-owned firm specializing in project management services supporting client organizations with people and resources to deliver project success.

company of Frontier Flying Service, Hageland Aviation Services and Era Aviation Inc., said Oct. 14 that it has an agreement to acquire 100 percent of the common stock of Arctic Circle Air Service Inc.

Arctic Circle's cargo operation will join the in-state air group doing business as Frontier Alaska effective Dec. 1.

"This acquisition strengthens Frontier Alaska's position in the cargo business in the state of Alaska," said company CEO Bob Hajdukovich. "Both charter services, as well as scheduled services, will benefit from the added capacity and flexibility the acquisition will afford. Arctic Circle Air's two Shorts 330 all-cargo aircraft will complement the existing Frontier Alaska operations and improve the ability to move greater volume and oversized cargo within the state of Alaska."

Lynden Air Cargo assisting with the Haiti relief

Lynden Air Cargo said Jan. 15 that it is using the oversized capacity of its L 100-30 Hercules aircraft to fly rescue vehicles, portable kitchens and other relief supplies to Port-au-Prince, Haiti, after a Jan. 12 earthquake devastated the capital city. Within hours, Lynden Air Cargo pilots were flying relief missions out of Washington, D.C., and they continue to pick up more supplies from U.S. points to deliver in support of humanitarian rescue efforts. "With an urgent need for relief supplies, aid flights are critical to prevent more human suffering. We are coordinating flights as quickly as possible in cooperation with government authorities," said Judy McKenzie, Lynden Air Cargo

president. Lynden operates a fleet of six Hercules around the world; the unique features of the aircraft make it ideal for flying aid into isolated disaster areas. For more information visit www.lynden.com.

M-I Swaco touts MD-3 shale shaker

M-I Swaco said Sept. 10 that when space is at a premium but high-performance solids control is required, the new MD-3 shale shaker provides operators with the ability to meet their solids control challenges, offshore or on.

The small footprint of the MD-3 shale shaker, along with its effective solids control options and the ability to adapt quickly to changing drilling conditions, are hallmarks of the compact, high-performance unit. The shaker's footprint matches the popular M-I Swaco BEM-650 shaker to simplify retrofitting into existing shaker houses.



The unique shaker has three decks of automated, effective solids control, translating to lower waste volume as a result of drier cuttings, and comes standard with many features typically considered special-order, including the fume-extraction hood that reduces operator exposure to vapors associated with drilling fluids and prevents fluids from splashing outside the shaker boundaries. For more information visit www.miswaco.com.

NAC awards Fowler memorial scholarship

Northern Air Cargo said Oct. 1 that Clyde Hoffman, a junior at the Atheneum School of Anchorage, was the recipient of the second annual William Dix Fowler Memorial scholarship.

The scholarship consists of annual awards of \$1,000 each to worthy recipients, chosen by the school. Hoffman, this year's recipient, was chosen for his leadership and dedication to learning. "I've met Clyde, and I don't think they could have made a better choice for this award. We are grateful to be able to do something like this in Bill's name," said Margot Wiegele, NAC's director of marketing and communications. Fowler was the president of Northern Air Cargo from 2001 until March of 2008, and was also actively involved in supporting the Atheneum School.

NAC lands in Haiti in support of relief efforts

Northern Air Cargo said Jan. 18 that one of its Boeing 737 aircraft landed in Port-au-Prince, Haiti, in support of earthquake relief efforts in the region. The company anticipates flying many more flights in the coming weeks. NAC has had one of its aircraft based in Texas flying domestic and international charters since December, so it was available to respond quickly. "We are well aware of the gravity of the situation in Haiti, and we are glad we had an aircraft available to help," said company spokeswoman Margot Wiegele. "We have the capacity to stay in the region for the next several weeks if the need exists." For more information visit www.northernaircargo.com



COURTESY NORTHERN AIR CARGO

NAC opens freight service center

Northern Air Cargo said Aug. 4 that it is proud to announce the opening of the NAC Shack on its Anchorage ramp facility.

As part of a continuing effort to make shipping easier for customers, NAC has created the new customer service center for receiving oversized freight, and can now process large flatbed trucks with oversized loads with one-step outdoor shipping, avoiding the need to go inside for paperwork.

For extra quick processing, drivers can call ahead to 771-1616, or pull up to the back gate. Customers can expect to spend less time standing in line and more time getting back to business. NAC expects this addition will also result in shorter wait times for its customers with small shipments.

NAC division to provide ground handling for UA

Northern Air Cargo said Feb. 8 that its Northern Air Services division has signed an agreement with United Airlines to provide ground handling services at Ted Stevens Anchorage International Airport beginning in May. NAAS will provide above- and below-wing services to United including passenger check-in, baggage handling, ramp control and related operational services. The company plans to hire up to 90 seasonal workers beginning in April. "We are looking forward to expanding our services at the airport through supporting United's return to the market," said company spokeswoman Margot Wiegele. "We're looking for good people who are experienced in airport operations and want to join a great team."

Peak expands Cook Inlet division operations

On Oct. 23 Cook Inlet Region Inc.'s Web site carried an article reporting on Peak Oilfield Service Co.'s Cook Inlet division expanding its operations in CIRI's home region. With improved infrastructure and equipment, Peak, a subsidiary of CIRI and Nabors, has positioned itself to capitalize on increasing oil and gas exploration in the Cook Inlet region through 2010. "There are two main reasons for our success," said Ben Cleveland, Peak's vice president who oversees the Cook Inlet division. "Our safety record is really good, and our equipment fleet is reliable and

COURTESY PEAK



fairly new, thanks to the investments of our owners."The Cook Inlet division provides construction and maintenance services to the Kenai petrochemical industry. The division's Cook Inlet oilfield support includes operations, construction, drilling and maintenance assistance to Chevron, ConocoPhillips, Tesoro, Marathon and Kenai Pipeline Co. at 11 offshore platforms and five onshore facilities. Recent projects completed by the Cook Inlet division include replacing an old Anchorage power plant for Municipal Light & Power. Peak was awarded the \$25 million contract in January 2006, and completed the work in 2007. Peak is also providing logistics and drilling support for ConocoPhillips' drilling at the Beluga Gas Field.

Rain for Rent introduces HD6 pipeline pump

Rain for rent said Oct. 30 that its latest product to join the fleet is the Premier Pump HD6 pipeline pump, complete with exclusive features designed specifically for the rugged cross-country pipeline market. The HD6 pipeline pump is an all-purpose 6-inch pump, producing flows exceeding 2,700 gallons per minute, heads to 165 feet and able to pass 3-inch solids. The pump has a smaller carbon footprint than other pumps in the market, a galvanized fuel tank, and a protection cage protects the pump at remote locations. It will never rust and has the capacity to run 24 hours before refueling. For more information visit www.rainforrent.com.



Rain for Rent's latest, innovative pipe wraps

Rain for Rent said Oct. 7 that its latest innovation in liquid-handling solutions, Freeze Sentry pipe and manifold wraps, prevent water from freezing and maintain a constant temperature to protect equipment and expensive materials.

The Freeze Sentry pipe and manifold wraps are made with a highly durable, lightweight composite vinyl. Consistent heat is transmitted throughout the length of the wrap to facilitate a constant flow of liquid through the pipes, even in extreme sub-zero temperatures. The design provides a trouble-free, depend-



COURTESY RAIN FOR RENT

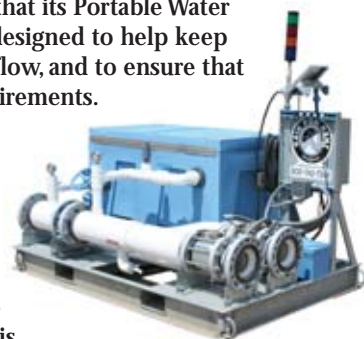
Rain for Rent offers new online portal

Rain for Rent said Feb. 3 that it has launched a newly enhanced online customer portal. The new customer portal allows customers to access their accounts through the Rain for Rent Web site, www.rainforrent.com. Now customers can view account data, rental status, download invoices or equipment reports on demand, and set up report subscriptions in a variety of formats. For more than 75 years and now through 60 locations, Rain for Rent, a rental market leader, provides liquid-handling solutions to industrial, municipal, environmental, construction, and petrochemical customers nationwide.

able, and cost-saving way to control equipment temperatures with fast, consistent heat. For more information visit www.rainforrent.com.

Rain for Rent's PWQMS designed to be versatile

Rain for Rent said Dec. 30 that its Portable Water Quality Monitoring System is designed to help keep remote watch over discharge flow, and to ensure that the flow meets discharge requirements. The compact turnkey system within the PWQMS is capable of handling flow up to 1,000 GPM while simultaneously monitoring, data logging, and injecting chemicals or polymer as needed to adjust conditions in the flow. The PWQMS is designed with versatility in mind; the most common parameters monitored are pH and turbidity, but the system can be designed to monitor many constituents, like DO and ORP, by changing the input sensors. All information is recorded and can be sent to your PDA or computer for remote notification, allowing you to verify flow is meeting discharge requirements at all times. For more information visit www.rainforrent.com.



Rain for Rent's Freeze Sentry product line

Rain for Rent said Sept. 2 that its latest innovation in liquid-handling solutions, the Freeze Sentry heater product line, pre-

vents water and expensive liquids from freezing and maintains a constant temperature to protect equipment. The Freeze Sentry line is available in various configurations to cover pipe, manifolds, wellheads, pump volutes, barrels, boxes, frac tanks, upright tanks, water-truck valves and more, all while maintaining clear access to critical valves. For more information visit www.rainforrent.com.

BC expands senior global leadership team

Schlumberger said Dec. 3 that its management consultancy arm, SBC, appointed five vice president-level staff to help meet its continually growing business and coincide with the launch of four new offices in New York, Delhi, Rio de Janeiro, Beijing and Abu Dhabi. "Since its launch five years ago, SBC has been about transforming the world's energy business for the 21st Century. The brainpower we've just brought on board is only helping us to do so quicker and the senior management team we now have in place represents the finest in management consultancy," said Antoine Rostand, president of SBC. Launched in 2004, SBC has rapidly grown to become one of the world's largest energy sector management consultancy firms. It works with global energy leaders and many of the world's IOCs, NOCs and independents.

Schlumberger introduces MaxCO Acid system

Schlumberger said Dec. 7 that it has released its new MaxCO Acid degradable diversion acid system. This new polymer-free, non-damaging acidizing system can be used for both matrix and fracture stimulation in carbonate reservoirs with permeability contrasts or natural fractures. The MaxCO Acid system is designed to be used in oil or gas well in both open-hole and cased-hole intervals, regardless of deviation. Treatment design, execution and evaluation are optimized using Schlumberger proprietary software applications. Applications of MaxCO Acid yielded a 500 percent production increase from an acid fracturing treatment in the Bluell formation in North Dakota. Elsewhere around the world, productivity increases in excess of 100 percent are frequently achieved, with significant improvements being made to efficiency operations. For more information visit www.slb.com.

SLB and NOV form IntelliServ joint venture

Schlumberger said Sept. 28 that it, along with National Oilwell Varco, has created a joint venture to provide high-speed drill string telemetry systems to improve the efficiency and safety of oil and gas operations.

The IntelliServ joint venture is expected to accelerate development and delivery of intelligent drilling solutions through the expanded use of the IntelliServ Broadband Network, a patented technology that provides high resolution data in real time to and from the bottom of oil and gas wells as they are being drilled. IntelliServ also will provide along-string evaluation services that will enable real-time monitoring of drill string conditions, and an unlimited ability to actuate downhole tools on-demand. The current speed of 57,600 bits per second is up to 20,000 times faster than the transmission speed that is available using conventional mud pulse technology. For more information visit www.slb.com.

Schlumberger, Technip announce joint pact

Schlumberger said Nov. 19 that it has signed a global cooperation agreement with Technip to jointly develop subsea integrity and surveillance solutions for flexible pipes used in deep offshore oil and gas production. The new agreement extends the collaboration between the companies that began in 1998, and is initially focused on surveillance systems activities for new and challenging flexible pipe applications such as those required in the deepwater pre-salt environment in Brazil. Several key Schlumberger technologies used in the subsurface applications have been indentified for integration into Technip's new Ultra Deepwater flexible pipe designs. One of the initial integrity solutions that the partners expect to develop and qualify is focused on the use of optical fibers to monitor a variety of parameters characterizing pipe behavior. For more information visit www.slb.com.

Schlumberger, Chevron announce Intersect

Schlumberger said Oct. 5 that it, in conjunction with Chevron Energy Technology Co., has released Intersect, a next-generation software to enable simulation of large complex reservoirs and highly heterogeneous systems. The technology is the result of extensive research collaboration and joint development effort between the two companies beginning in 2000.

Going beyond capabilities offered by the current generation of simulators, Intersect runs large and heterogeneous models, simulating tens of millions of cells, fast. It also accurately models complex geology and wells, honoring detailed reservoir characterizations with minimal or no upscaling. Supporting sophisticated field management, it handles thousands of wells in mature fields, as well as simulating all fluid types and recovery processes in a single simulator. Advanced controls enable flexible operational field management. "Intersect was possible only through close cooperation between Chevron and Schlumberger. Both companies have been developing and using simulators for several decades and have accumulated significant knowledge as a result," said Jeff Spath, president, Reservoir Management group, Schlumberger. "This jointly developed product has leveraged the collective expertise of our engineers in managing global oil and gas reservoirs, as well as our leadership and experience in simulator development." For more information visit www.slb.com.

Schlumberger appoints chief operating officer

Schlumberger said Feb. 8 that its board of directors has appointed Paal Kibsgaard chief operating officer of Schlumberger Ltd. effective immediately. Reporting to Andrew Gould, chairman and chief executive officer, Kibsgaard will be responsible for the day-to-day management of all worldwide operation in addition to the Schlumberger technology organization, including engineering, manufacturing and product development. Previously, Kibsgaard was president of the Reservoir Characterization Product Group, responsible for the management of the WesternGeco, Wireline, Drilling & Measurements and Testing Services product lines. Schlumberger is the world's leading supplier of technology, integrated project management and information solutions to customers working in the oil and



PAAL KIBSGAARD

gas industry worldwide. For more information visit www.slb.com.

Schlumberger touts temperature sensing service

Schlumberger said Dec. 8 that it has released its OPTICall thermal profile and investigation service. This new distributed temperature sensing service tracks fluid movements in real time along the wellbore, helping to detect leaks, monitor gas lift and evaluate fractures to improve field productivity. The OPTICall service is enabled by OpticLine fiber-optic line, which provides a thermal profile along the entire length of the line continuously in realtime, providing immediate answers on site. This fiber-optic line, which is deployed in a single run using slickline-type intervention, monitors dynamic temperature events with minimal interference. OpticLine can also run conventional production logging tools in memory mode while monitoring, for single-trip efficiency. For more information visit www.slb.com/OPTICall.

Schlumberger reservoir center in Saudi Arabia

Schlumberger said Oct. 6 that it has opened a new reservoir completions manufacturing center in Dammam, Kingdom of Saudi Arabia. The new center represents an investment of approximately \$25 million in state-of-the-art manufacturing equipment, facility, lease and inventory and houses a team of design and manufacturing engineers specialized in the production of customized downhole reservoir completions equipment. More particularly, the center provides a collaborative environment in which joint oil company and Schlumberger teams can develop and manufacture completions solutions for applications across the range of reservoir types found in the Kingdom of Saudi Arabia and the Middle East.

Schlumberger is the world's leading supplier of technology, integrated project management and information solutions to customers working in the oil and gas industry worldwide. For more information visit www.slb.com.

Schlumberger's new cased hole services tractor

Schlumberger announced the release of its new TuffTRAC cased hole services tractor Sept. 8 at the 2009 SPE Offshore European Oil and Gas Conference. This new tractor is the industry's shortest, and is the only tractor with full reverse active traction control capabilities. The new tractor runs on multiconductor wireline cables. A maximum string of six drive sections can be deployed in tandem for a tough-duty true 1,800 pounds of pushing power. The active traction control provides the ability to monitor and change the pressure on each drive wheel to optimize traction in either direction. The system's robust power pack can operate to 350 degrees Fahrenheit and 20,000 pounds per square inch, without



COURTESY SCHLUMBERGER



COURTESY SCHLUMBERGER

Schlumberger releases SenTurian in-riser system

Schlumberger said Sept. 9 that it has released its SenTurian subsea landing string electrohydraulic operating system. Technological advances have resulted in an innovative, shorter modular system, which allows safe, reliable and efficient completion installation, well cleanup and well testing from a dynamically positioned vessel in water depths to 15,000 feet.

SenTurian is the world's first and only in-riser system designed and certified in accordance with the International Electrotechnical Commission's IEC 61508 SIL 2 reliability specifications for safety-related systems. IED is the international standards and conformity assessment body for all fields of technology. In addition, the design enables compliance with ISO 13628-7 standards by providing electronic redundancy and pressure readout for each subsea function. For more information visit www.slb.com/senturian.

requiring cool-down periods. The tractor includes a built-in tension sub, electrical release hub, casing collar locator, addressable tractor perforating safety switch and shock absorber. For more information visit www.slb.com/tufftrac.

Solstice Advertising receives MarCom Awards

Solstice Advertising LLC said Oct. 30 that it has been awarded nine international MarCom Awards, four of which are at the platinum level. The agency also received four gold awards and one honorable mention. The MarCom Awards is an international competition for marketing and communication professionals, and is the largest and most well-known competition of its kind in the marketing, communications and design industries. Entries come from corporate marketing and communication depart-

ments, advertising agencies, public relations firms, design shops, production companies and freelancers. Solstice Advertising LLC is a full-service communications firm that specializes in innovative branding solutions, believing that effective marketing stems from respect for client individuality, as well as the ability to leverage their unique assets to enhance growth. For more information visit www.solsticeadvertising.com.

Stoel Rives expands corporate services in Alaska

Stoel Rives LLP said Dec. 14 that corporate attorneys William H. Timme and John D. Kauffman have joined the firm's Anchorage office. Timme has spent more than 35 years counseling mostly Alaska Native corporation clients. Over the years, Timme has helped his clients address a broad gamut of issues, from initially implementing ANCSA, to negotiating oil and gas and mineral exploration programs, handling net operating loss sales, advising clients regarding EVOS Trustee Council acquisitions and handling general corporate and transactional matters. Kauffman makes the move from the Stoel Rives Seattle office, where he has represented corporate management, investors and entrepreneurs on a variety of business and strategic issues over the last 10 years. Established in October 2008, the Stoel Rives Anchorage office provides local solutions for Alaska-based clients with interests in Alaska on corporate, energy, environmental, labor and employment, commercial litigation, intellectual property and white collar criminal defense matters. For more information visit www.stoel.com.



WILLIAM H. TIMME



JOHN D. KAUFFMAN

have a work area, a dry kitchen including microwave, small fridge and counter space, a bathroom with an incinerator toilet, lockers, and fold down bed," said Buddy Rich, sales manager for TA Structures. "There isn't any like this on the North Slope," said Joe Liska, representative from Nana Management Services. TA Structures provides clients throughout North and South America with the finest quality modular worksite accommodations; these modular building units are built with superior materials and superb craftsmanship. For more information visit www.ta-structures.com.

John Parrott named new TOTE president

Totem Ocean Trailer Express Inc. said Dec. 16 that John Parrott has been promoted to company president, replacing TOTE's former president, Bill Deaver, who had been with the company since 2002. Parrott joined TOTE in 1992 as first officer of the S.S. Northern Lights, later serving as the general manager for Sea Star Stevedoring, which manages the loading, discharge and terminal operations for TOTE. In 1996 he joined Sea-Land as a marine superintendent; in June 2002 he became the general manager of TOTE's Alaska Division; was promoted to vice president and general manager in 2004; and has served as vice president, commercial, since July 2006. "I have always considered being a TOTE employee a privilege, and I am truly honored to be able to lead the company forward into the next decade," said Parrott.



JOHN PARROTT

Unique Machine receives accreditations

Unique Machine LLC said Dec. 11 that the American Petroleum Institute, after completing a full review of Unique Machine's quality programs, has granted API Monogram License No. 5CT-1163 and API Monogram License No. 7-1-0758 to Unique Machine's products stated in API Spec 5CT and API Spec 7-1. In addition, Unique Machine's facility quality management system was found to be in conformance of requirements for the APIQR program. This program includes ISO 9001:2008, Q1-0456 for API SPEC Q1 and TS-0268 for ISO/TX 29001. "These accreditations reflect our on-going commitment to improve our quality management system and our desire to better serve our customers throughout the state," said Pat Hanley, general manager of Unique Machine.

URS awarded 3-year IDIQ contract

URS Corp. said Nov. 20 that it has been awarded a three-year indefinite delivery-indefinite quantity contract for aircraft maintenance and modification. The contract was ordered by the U.S. Army CERDEC Flight Activity, Fort Monmouth, N.J., and was awarded through the EG&G's Division General Services Administration Logistics Worldwide Schedule. Under the contract, URS will provide an array of services including, aircraft maintenance and modification; engineering and technical support; customer assistance and technical support; logistics and operations management; and aviation ground support and tool reset. URS Corp. is a leading provider of engineering, construction and technical services for public agencies and private sector companies around the world.

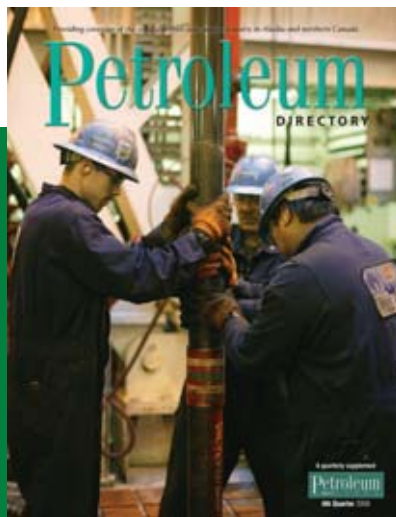
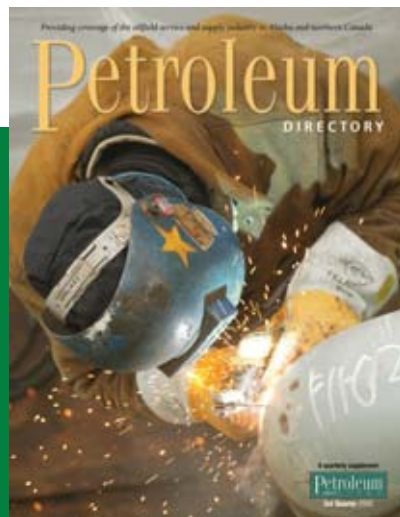


COURTESY TA STRUCTURES

TA Structures manufactures NMS guard shacks

TA Structures said Jan. 19 that it has created six units to be used as guard shacks for NANA Management Services on Alaska's North Slope. A division of Twin Anchors Houseboat Manufacturers, TA Structures has helped the company stay afloat during tough economic times by broadening its manufacturing opportunities. "The units are 20 feet long and 10 feet wide. They

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