



Alaska Housing Market Council
2600 Cordova Street, Suite 211
Anchorage, Alaska 99503
(907) 563-3325

NOTICE OF COUNCIL MEETING

Date: December 27, 1989
Time: 10:00 a.m. to 2:00 p.m.
Location: Legislative Information Office
3111 'C' Street
5th Floor Conference Room
Anchorage, Alaska

Public Testimony: 10:00 a.m.
Purpose: The Council will meet to present the final recommendations of the Housing Policy Development Committee, review the draft report, and other matters which may come before the board.

THIS MEETING WILL NOT BE TELECONFERENCED

MEETING CANCELLED



NOTICE

Do you wish to receive future mail about the National Wildlife Refuges in Alaska?

The U.S. Fish and Wildlife Service is in the process of updating its master mailing list. If you did not receive and return a recent flier requesting your address and areas of interest, write to the following:

U.S. Fish and Wildlife Service
Attn. Bill Kirk
1011 East Tudor Road
Anchorage, Alaska 99503



Alaska Native Basketball Classic

★ 4th annual Classic ★
to be held in Anchorage

Feb. 9th to Feb. 12th

Teams from communities of 500 or less may enter 3 players under 30. Teams from communities of 5000 or less may enter 2 players under 30.

Send for info: Eric Morrison
311 Lynwood Dr. No. 3
Anchorage, Alaska 99518

Entry fee \$160

Double elimination tournament • Alaska Native/American Indian teams • "C" bracket tournament • 30 years and older

We are also looking for women's teams! call Eric Morrison, tournament director, today

(907) 563-6752

**HARD
FACTS
ABOUT
A JOB
DONE
WELL**

A PIG WITH A NOSE FOR ANOMALIES

Alyeska works with a pig that's over 10 feet long, weighs 6,600 pounds, and has the ability to locate even minor corrosion within the trans Alaska pipeline.

Since 1978, Alyeska has been using pigs (machines passed through the pipeline along with the crude oil) to clean interior walls, survey pipe shape and detect corrosion.

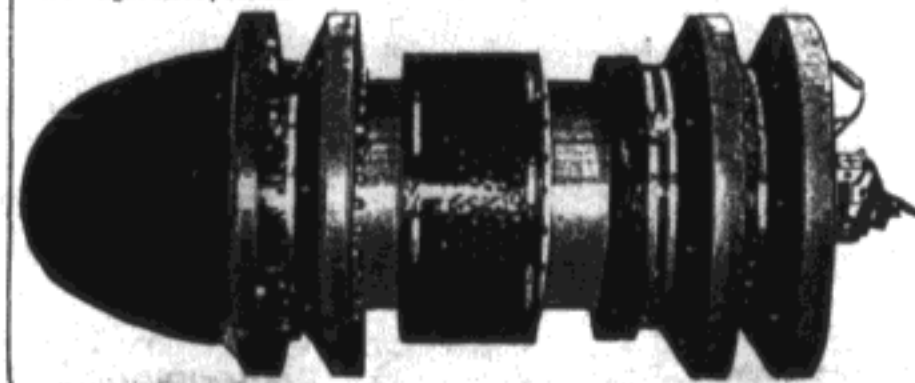
The Ultrasonic Pig

In 1983, Alyeska began looking for another kind of pig, one which could directly measure the thickness of the walls of the pipeline. In 1984, Alyeska approached the NKK Corporation of Japan to discuss building an ultrasonic pig. The NKK pig began its first commercial run at Alyeska's Pump Station 1 on June 12, 1989.

readings for each square half-inch of the pipeline wall. When the run is complete, Alyeska engineers use this data to develop a three-dimensional view of the pipeline's interior and exterior condition. This analytic process indicates areas where abnormalities, known as anomalies, have been detected by the pig. The anomalies indicate potential areas of corrosion.

Where anomalies are noted, maintenance crews inspect the area of corrosion with additional ultrasonic equipment and make whatever repairs are necessary. The materials and equipment that accompany these maintenance crews are sufficient to make any repairs required during on-site inspection.

NKK Corrosion Pig: is completely self-contained, single section tool equipped with ultrasonic transducers which directly measure the thickness of the pipe wall. The complete electronics system, the recorder and battery are internally housed within the main body of the tool. This pig is a significant advancement in pipeline pigging technology and took 10 years to develop. This pig is 10 feet, 6 inches long, made of titanium and weighs 6,600 pounds.



The NKK pig is equipped with 255 ultrasonic transducers. These devices can measure the thickness of the pipeline wall by sending out sound waves and receiving the resulting echoes. By monitoring the time between echoes the pig determines the thickness of the wall.

A Job Done Well

Although the pipeline would have continued to transport oil without the help of an ultrasonic pig, the pig is an investment that makes good sense. It's one more tool that Alyeska uses to do a hard job well.

Finding & Repairing The Flaws

A system in the pig's main housing records thickness

For more information, contact Corporate Affairs, Alyeska Pipeline Service Company, 1835 S. Bragaw, Anchorage, Alaska 99512.

On The Job

Jim Harle and Dave Hackney help Alyeska maintain the structural integrity of the trans Alaska pipeline.

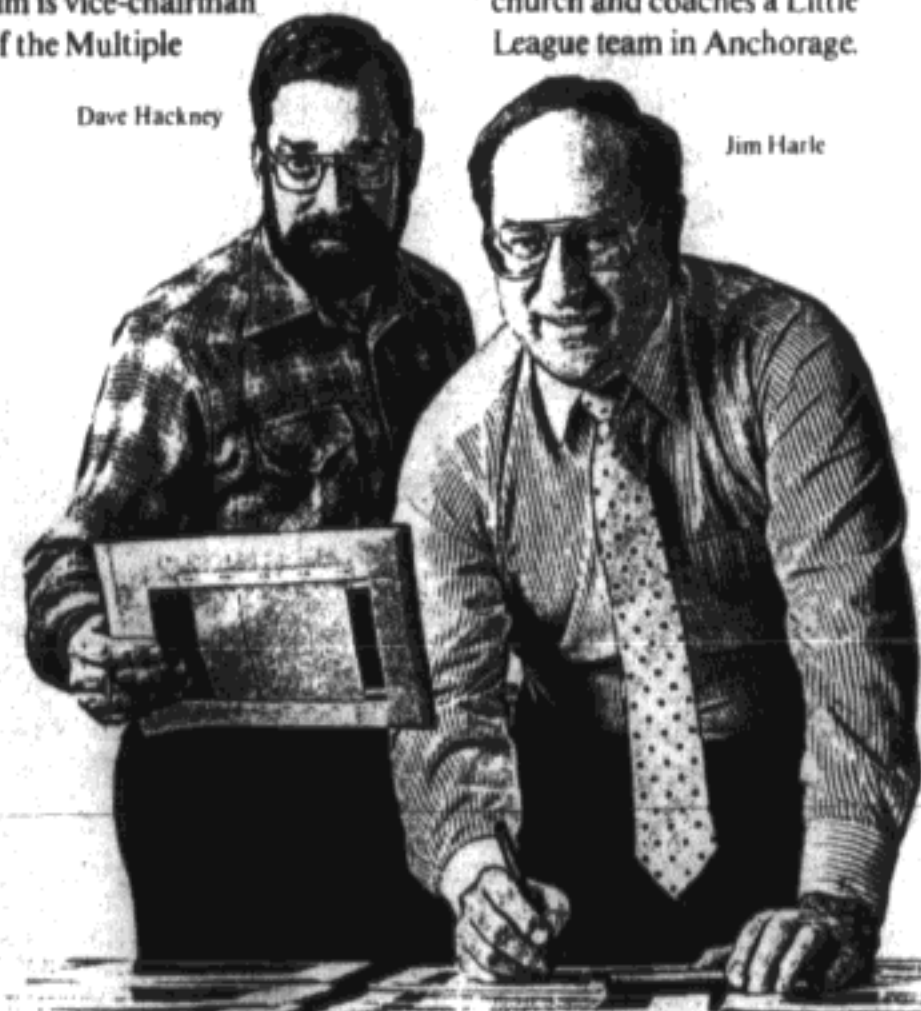
As Supervisor of Field and Civil Engineering, Jim Harle's responsibilities include the continuing development of new and better pigs. Jim came to Alaska in 1974 and began employment with Alyeska during pipeline construction. Jim is vice-chairman of the Multiple

Sclerosis Foundation in Anchorage.

Dave Hackney is a Senior Civil Engineer, currently responsible for corrosion detection along the pipeline. Dave has been an Alaskan since 1962, and an Alyeska employee for eight years. In his spare time, Dave is business manager of his church and coaches a Little League team in Anchorage.

Dave Hackney

Jim Harle



Alyeska pipeline
SERVICE COMPANY