



BLADDER FIELD — Bladder field can be seen in the center.

## Leak Occurred on North Slope...

ular Aviation gas.

The fuel is brought in by Hercules cargo planes and pumped into the collapsible bladders, which are easily transported and put on site.

An injunction sought by environmentalist and other interests just prior to completion of camps required that sheets of visquene be laid down to line the pit in which the bladders are laid and that earthen dikes be erected around the fields to contain the fuel in the event of a leakage.

A man who spent a month in the Happy Valley camp (from June 6 to July 1) came to the Tundra Times with photographs and a quart container of liquid which he claimed to have taken on the site at a small catch basin near the creek into which oil was draining down from the soil.

Shortly after his arrival at Happy Valley, he noticed darkened soil and seepage below the bladder field. He walked down, put his finger in a small puddle, then a paper towel, which he lit. It flared and burned.

Later he commented to the manager of the camp: "Looks like you have a bad leak in your bladder field."

The camp manager said no, that the leak was just residual oil from filling the tanks which had seeped out after the ground had thawed.

Later, the man reported observing an employee at the camp, assigned to go down to the catch basin two and sometimes three times a day to burn off the oil the accumulated on the surface.

He concluded that there had to be a major leakage to occasion that amount of activity and his curiosity led him to further investigate the amount of oil in the pond and the rate of flow out of the soil, which he estimated by filling a quart container in 15 seconds (or a gallon a minute), and by dropping cracker crumbs on the surface.

He reported that there were apparently two catch basins, an earlier one which appeared to not be in use at the present time and which had been eroded by the stream, and the present one where the burning took place every day.

What alarmed him was that the second basin had a three inch pipe protruding under the water from it which he felt was directly letting oil flow into the stream and polluting it.

When the Bureau of Land Management was contacted by Tundra Times they admitted that there had been a spill, that it occurred about last August or September, not from a bladder but from an underground pipe.

They said that permission had been given to burn off the residue in the manner which was being used. However, upon looking at the photographs, they were unable to give an explanation for the pipe extending into the water.

Alyeska was then contacted

and also confirmed the leakage, adding that there had been an even more recent leak within the last four to five weeks. They said corrective measures had been taken, the leak has been located, repaired, and reported.

Dave Nelson, an engineer with the firm, said the spill was about 100 gallons of Arctic Diesel fuel, a clear, water-white product. He said that about a year ago, they detected fuel but he believed the present seepage was from a new leak.

The engineer in charge of Happy Valley was at the camp site on the day Alyeska was questioned and would give details when he could be reached.

Another spokesman for Alyeska said the amount of the spill was not great, but added, "No spills are really justified."

He said that Alyeska was concerned and that their own environmentalist, Dale Brandon, was on the site investigating the situation with the engineer.

He referred Tundra Times to Max Brewer, in charge of the state of Alaska's Environment Protection agency and to George Van Whye of the Fish and Game Dept. for statistics on whether there had been any damage to fish in the stream and the Sag River.

The Sag River is a transportation route for Arctic char on their way to spawn and is also a grayling stream. Tundra Times will report the effect on fish as soon as statistics are available from those agencies, but indications, according to Alyeska, are that there has been no damage whatsoever.

Dave Nelson, Alyeska engineer, had a theory that the pipe evident in the photograph was placed in the catch basin deliberately to act as an oil separator.

"Oil," he said, "will rise to the top of water. If the pipe is strategically placed, it will function to draw off the water at the bottom, and facilitate the burning process."

He advised that any conclusions be withheld until the engineer at the site be consulted.

When asked if the arrangements were not crudely constructed and dangerously close to the stream where a flood condition could wash out the entire basin, he reiterated that the total amount of the spill was not significant and that even if 100 gallons were allowed to flow into the stream all at once, it would dissipate rapidly and cause no appreciable damage.

He discussed an incident at another camp where a bear had entered the bladder field and clawed three of the storage bladders. In that case he said, the soil of the pit was "impervious" and the fuel had been contained in the pit until they had pumped it into an empty bladder and flown in an extra tank within a matter of hours.

He was, however, critical of the use of visquene to line the

## ATS-1 Satellite Radio to Broadcast World Eskimo Olympics...

(Continued from page 1)

from 11 a.m. to 12 a.m. Alaska Daylight time and 10 a.m. to 11 a.m. Bering Daylight time.

Other programs scheduled for this month are as follows:

Thursday, July 13: The Village Circle.

Friday, July 14: "What Do You Want to Know?" The Alaska Library Association presents books of Eskimo life and legends. Villagers can have any book from the program sent to them.

Monday, July 17: Fairbanks Native Community Center, Native Health Board with Georgianna Lincoln.

Tuesday, July 18: Tanana

Chiefs Report.

Friday, July 19: Fairbanks Native Community Center Report.

Thursday, July 20: The Village Circle.

### Microfilm TT...

(Continued from page 1)

rankings of many of the world's great newspapers which have also been microfilmed by MCA.

Among the names in the series are such diverse papers as The New York Times, the Washington Daily News, the St. Louis Post-Dispatch, the Chicago Daily News, the Portland Oregonian, the Parisian International Herald-Tribune, the Peking Review, the Athens News, Tel Aviv's Ha'aretz, and Puerto Rico's El Nuevo Dia.

"What happens anywhere in the world today affects what will happen anywhere in the world tomorrow."

The continuing history of the Alaskan Native as recorded in the pages of the Tundra Times will outreach to all other cultures through this latest step forward in achievement and recognition.

### LEGAL NOTICE

INVITATION FOR BIDS  
STATE OF ALASKA  
DEPARTMENT OF HIGHWAYS

Sealed bids in single copy for furnishing equipment rental and labor rates, and performing all work at the specified rates under Extra and Force Account work, on Project G-50049, Denali Highway to Seven Mile Lake Access Road, described herein will be received until 2:00 p.m. prevailing time, July 27, 1972, in the Commissioner's Office, Island Center Bldg., Douglas, Alaska. Equipment rental and labor rates and for mobilization thereof, are being called for on the following items:

Item No. 110(1) - Lump Sum - Mobilization  
Item No. 109(1) - One - Crawler Tractor or equivalent class or equivalent with hydraulic blade  
109(2) - One - Front-end loader (2-3 cubic yard capacity)  
109(3) - Three - Rear Dump Trucks, (10 cubic yard capacity)

These rates will include operators' wages, including all support labor required by union agreements, subsistence, overhead and all fringe benefits, together with fuel, lubrication, repairs, maintenance, insurance, taxes and other charges necessary to keep the equipment in good operating condition. These rates shall be paid for the period the equipment is actually working on the job site. Moving costs, or any period of time lost or delays caused by breakdown or defective equipment will not be paid for by the State. No standby time will be paid.

This project will include the furnishing, hauling, and placing of approximately 8,500 cubic yards of river run gravel.

Project No. G-50049  
Location Denali Highway to Seven Mile Lake

Starting date of project and quantities of work available are subject to final approval. Award will be made on the basis of age and condition of equipment, as well as the hourly rate.

The Contractor will be required to have all equipment ready to work on the project site within ten days after the Notice to Proceed.

Plans and specifications may be obtained by all who have a bona fide need for them for bidding purposes from the Chief Design Engineer, P.O. Box 1467, Juneau, Alaska 99801. Plans may be examined at Department of Highway Offices in Anchorage, Fairbanks, Valdez.

B. A. Campbell  
Commissioner of Highways

Publish July 12, 19, 1972.

lage Circle.

Friday, July 21: "What Do You Want to Know?" Tips for buying from a catalog.

Monday, July 24: Arctic Slope Native Association. Interview with Victor Fischer and Thomas Morehouse on responsibilities and powers of a borough government.

Tuesday, July 25: BLM on Native Allotments. This program will be for one village. Listen for announcement on Monday.

Wednesday, July 26: Winter games of Barrow and reports on Inuvik's games from Canada.

Thursday, July 27: The Village Circle.

Friday, July 28: World Eskimo Olympics.

Monday, July 31: World Eskimo Olympics.

### CLASSIFIED

Title - Accountant  
Location - 102 Lacey Street, Fairbanks, Alaska 99701.  
Salary Range - \$13,200 - 16,200 per annum.

Qualifications: BA degree in Business Administration and 2 years accounting practice, or six years of accounting. At least one year of Government accounting desirable, with emphasis on budgeting.

Duties: Under the direction of the Ex. Dir., accountant maintains and prepares payroll and payroll ledger, accounts payable, tax returns and necessary insurance. Establishes and maintains accounting procedures in conformity with government accounting. Prepares financial statements and assists Director in preparation of budgets, proposals status reports and other fiscal matters as may be required.

Applications can be mailed to: Fairbanks Native Community Center, c/o Georgianna Lincoln, 102 Lacey Street, Fairbanks, Alaska 99701.

### LEGAL NOTICE

INVITATION FOR BIDS  
STATE OF ALASKA  
DEPARTMENT OF HIGHWAYS

Sealed bids in single copy for furnishing all labor, materials, and equipment, and performing all work on Project S-9999(1) & F-9999(1), School Crossing Flashers - 7 Locations in Southeast Alaska described herein, will be received until 2:00 p.m. prevailing time, July 20, 1972 in the Commissioner's Office, Department of Highways, Island Center Building, Douglas, Alaska.

This project will consist of furnishing and placing standard school crossing flashers in Haines, Skagway, Juneau-Douglas, Wrangell, Petersburg, and Sitka, Alaska.

Items of work consist of the following: 8 ft. square feet of standard sign; 48 signs to be removed and disposed; 7 standard signs to be relocated; 13 flashing school crossing signs, lump sum, all required.

All work shall be completed in 120 Calendar days.

Plans and specifications may be obtained by all who have a bona fide need for them for bidding purposes from the Chief Design Engineer, P.O. Box 1467, Juneau, Alaska 99801. Plans may be examined at Department of Highway Offices in Anchorage, Fairbanks, Valdez.

B. A. Campbell  
Commissioner of Highways

Published July 5, and July 12, 1972.

### LEGAL NOTICE

INVITATION FOR BIDS  
STATE OF ALASKA  
DEPARTMENT OF HIGHWAYS

Sealed bids in single copy for furnishing all labor, materials and equipment, and performing all work on Project RS-0215(1) & RS-0412 (1), Quinhagak Village to Airport & Manokotak Airport to Barge Landing described herein, will be received until 2:00 p.m. prevailing time, July 20, 1972 in the Commissioner's Office, Department of Highways, Island Center Building, Douglas, Alaska.

This project will consist of grading and drainage on 1.2 miles of roadway at Quinhagak and 0.6 miles at Manokotak. The project is located in the Kuskokwim Bay and Bristol Bay area of Alaska.

Principal items of work consist of the following: 51,500 cubic yards of Borrow; 74 linear feet of 18" Pipe Conduit, 272 linear feet of 24" Pipe Conduit, and 50 linear feet of 30" Pipe Conduit, and miscellaneous items of work.

All work shall be completed in 180 Calendar days.

Plans and specifications may be obtained by all who have a bona fide need for them for bidding purposes from the Chief Design Engineer, P.O. Box 1467, Juneau, Alaska 99801. Plans may be examined at Department of Highway Offices in Anchorage, Fairbanks, Valdez.

B. A. Campbell  
Commissioner of Highways

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## Alaska Business Directory

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E\*. BARROW, DEADHORSE,  
DELTA, EIELSON, KOTZEBUE,  
NENANA, NOME,  
TOK.

\*Opening in 1972

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