

State of Alaska  
Department of Fish and Game  
Nomination for Waters  
Important to Anadromous Fish

HABITAT  
copy 1988  
Year of Revision  
88-168

Anadromous Water Catalog Volume Interior Region - Region VI

USGS Quad (94) Eagle B-2 B-3 (New Quad)

Name of Waterway Forty mile River

Anadromous Water Catalog Number of Waterway \_\_\_\_\_

334-45-1000-2600

OH

Change to \_\_\_\_\_ Atlas N.F.K 3118  
 \_\_\_\_\_ Catalog  
X Both  
 Addition X  
 Deletion \_\_\_\_\_  
 Correction \_\_\_\_\_  
 Name addition:

For Office Use

Nomination # _____	
<u>H. A. O'H</u> Regional Supervisor	<u>10-6-87</u> Date
<u>SJS</u>	<u>12/3/87</u> Date
<u>FI</u> Drafted	<u>12/3/87</u> Date

USGS name Eagle B-2, B-3  
T7S, R 30E, U33, T 65, R29E, Sec 21  
 Local name "Kink"  
No. Forty 40 mile River

Species	Date(s) Observed	Spawning	Rearing	Migration
King ♀	8/21/87	✓		
King ♂	8/22/87 - Dead			

Comments: Provide any clarifying information, including number of fish observed, location of fish survey data, etc.

Female King swam off everytime we approached no redd spotted  
she was 1/2 mile below Kink  
Male King was 41" long. Lying on south shore. Dead in  
6-8" of water. Saw pictures.

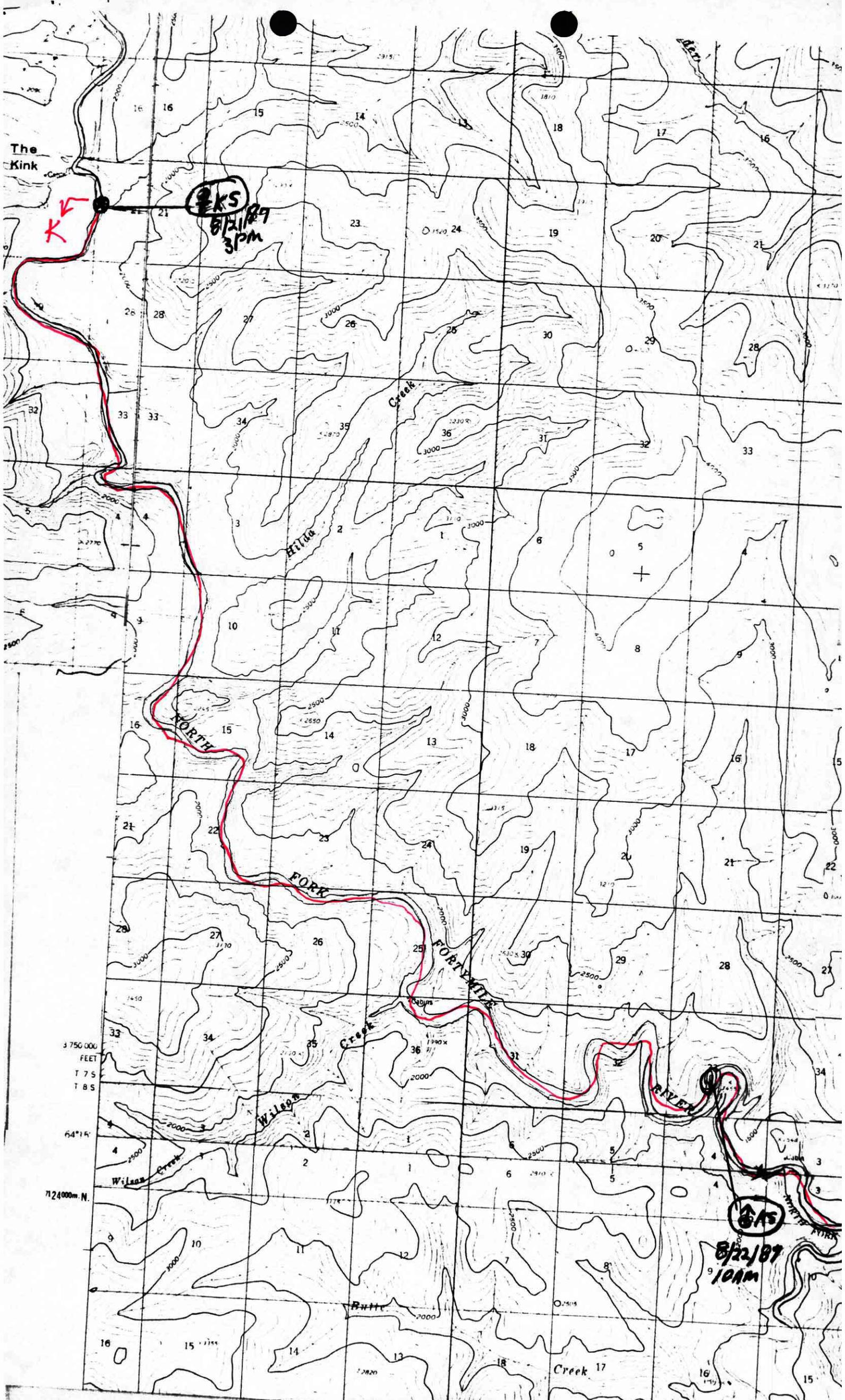
Attach a copy of a map showing location of mouth and upper points of each species, specific stream reaches identified for spawning or rearing, locations of barriers, such as falls. Attach a copy of the fish survey data, if available.

Name of Observer (please print) Louis H. CARUFEL

Date: 8/24/87 Signature: Louis H. Carufel

Address: BLM  
Steese / White Mtns. Dist. Office  
1541 GAFFNEY Road  
FAIRBANKS, AK. 99703

Signature of Area Biologist: Fred M. Anderson 10/6/87  
Upper Yukon Area Biologist

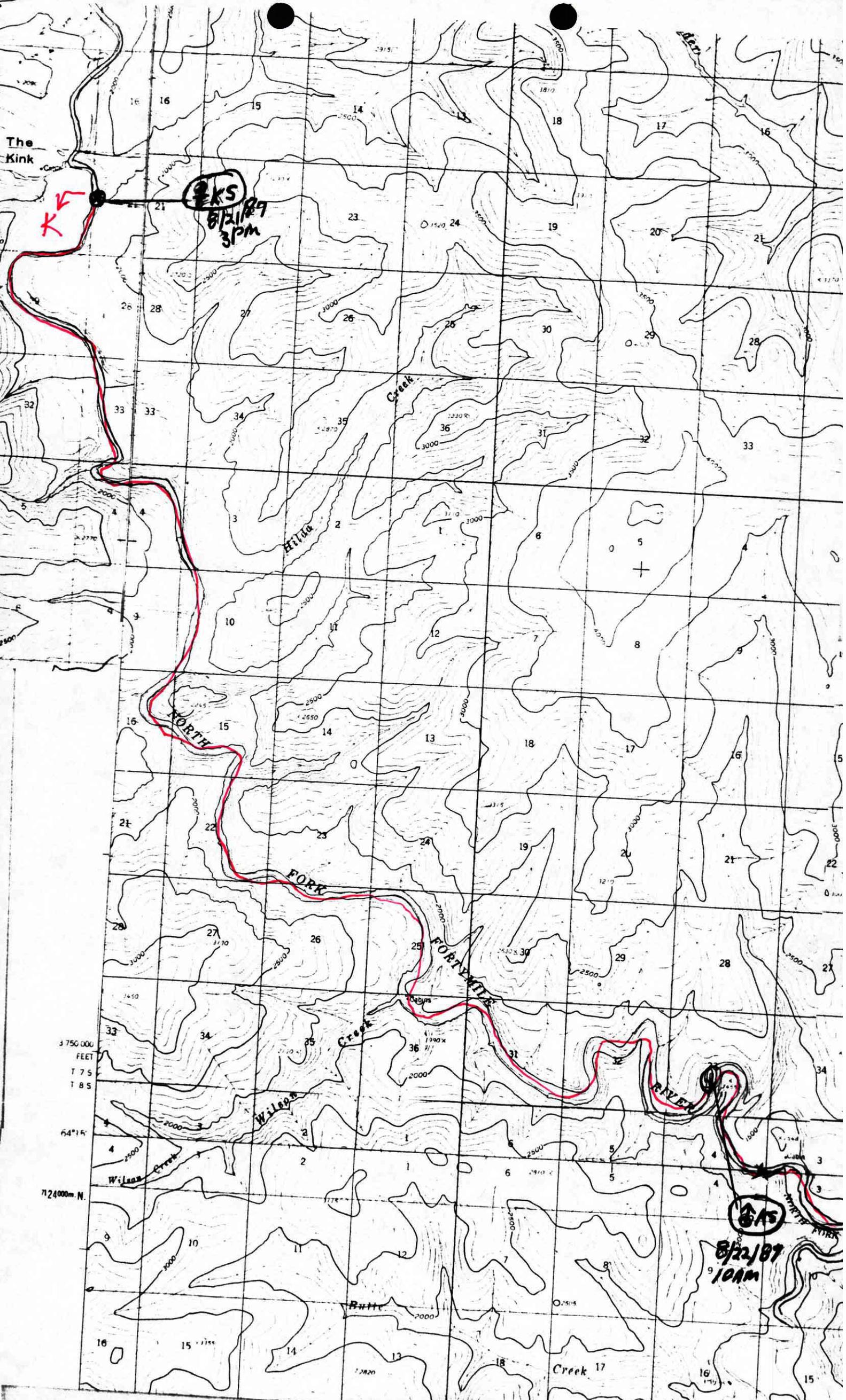


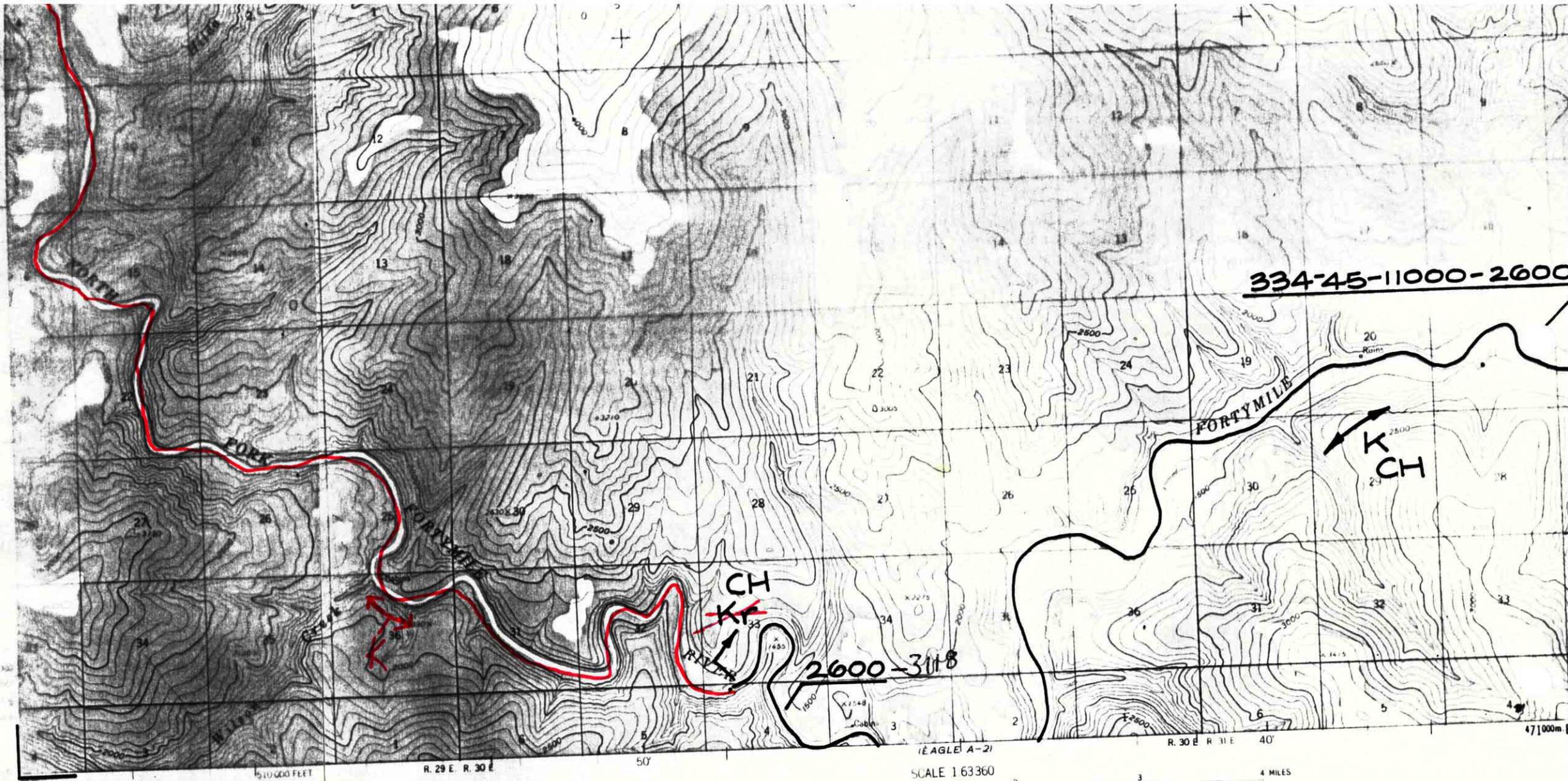
The Kink

**EKS**  
8/21/87  
3PM

**SAS**  
8/22/87  
10AM

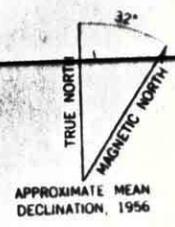
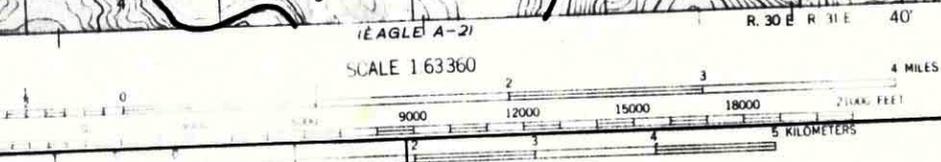
3750000  
FEET  
T 7 S  
T 8 S  
64°15'  
724000m. N.





**334-45-11000-2600**

**2600-3118**



Mapped, edited, and published by the Geological Survey  
 control by USGS  
 Topography by photogrammetric methods from aerial photographs  
 taken 1954 and 1957, field annotated 1956. Map not field checked  
 Universal Transverse Mercator projection, 1927 North American Datum  
 10 000-foot grid based on Alaska coordinate system, zone 2  
 1000 meter Universal Transverse Mercator grid ticks,  
 zone 7, shown in blue.  
 Land lines represent unsurveyed and unmarked locations  
 as determined by the Bureau of Land Management  
 Photo F 8, Fairbanks Meridian  
 To place on the predicted North American Datum 1983 move  
 the projection lines 36 meters north and 112 meters east

FOR SALE BY U. S. GEOLOGICAL SURVEY  
 FAIRBANKS, ALASKA 99701, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SHORT NOTE TRANSMITTAL

9/16/87  
(Date)

TO : Stewart Seaberg  
FROM : Lou CARUFEL  
SUBJECT: SALMON SITINGS FOR 1987

Enclosed are some King Salmon records we obtained when floating Beaver Creek and the Fortymile River.

If you have any question please give me a call at 356-5229.

Trust this is what you need.

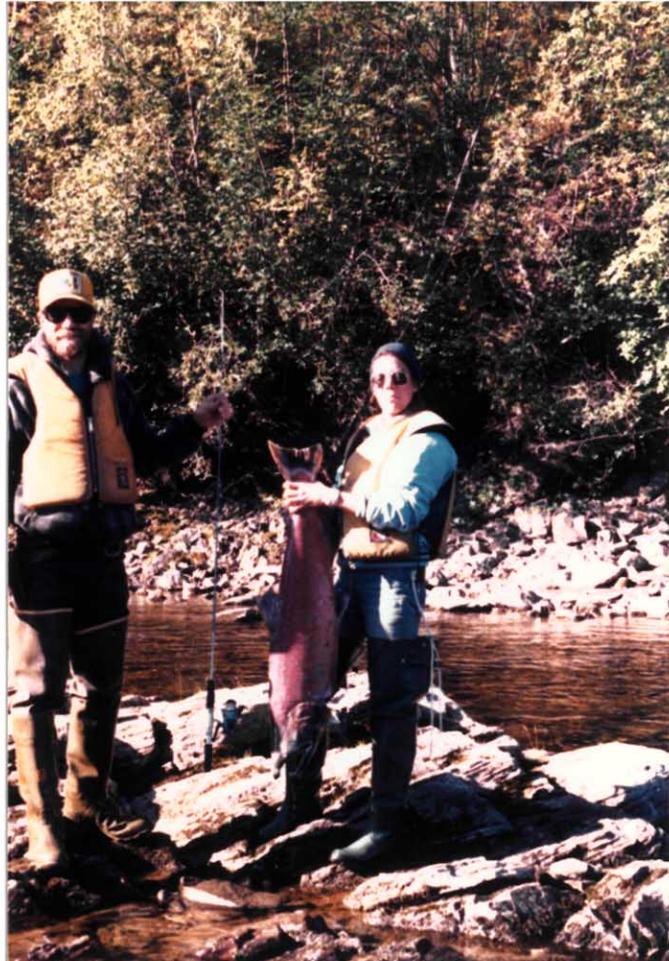
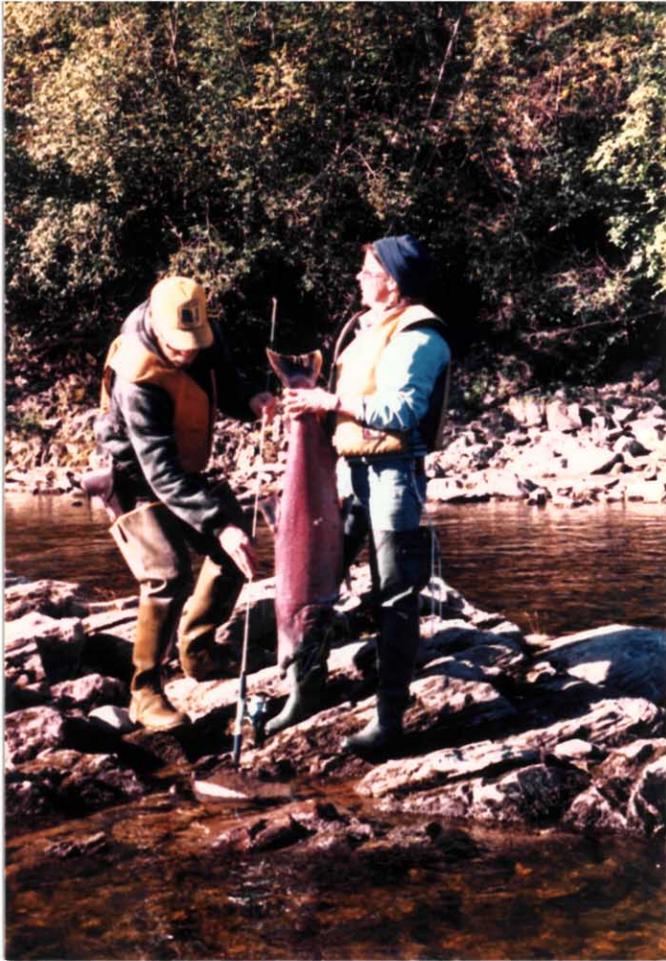
Lou

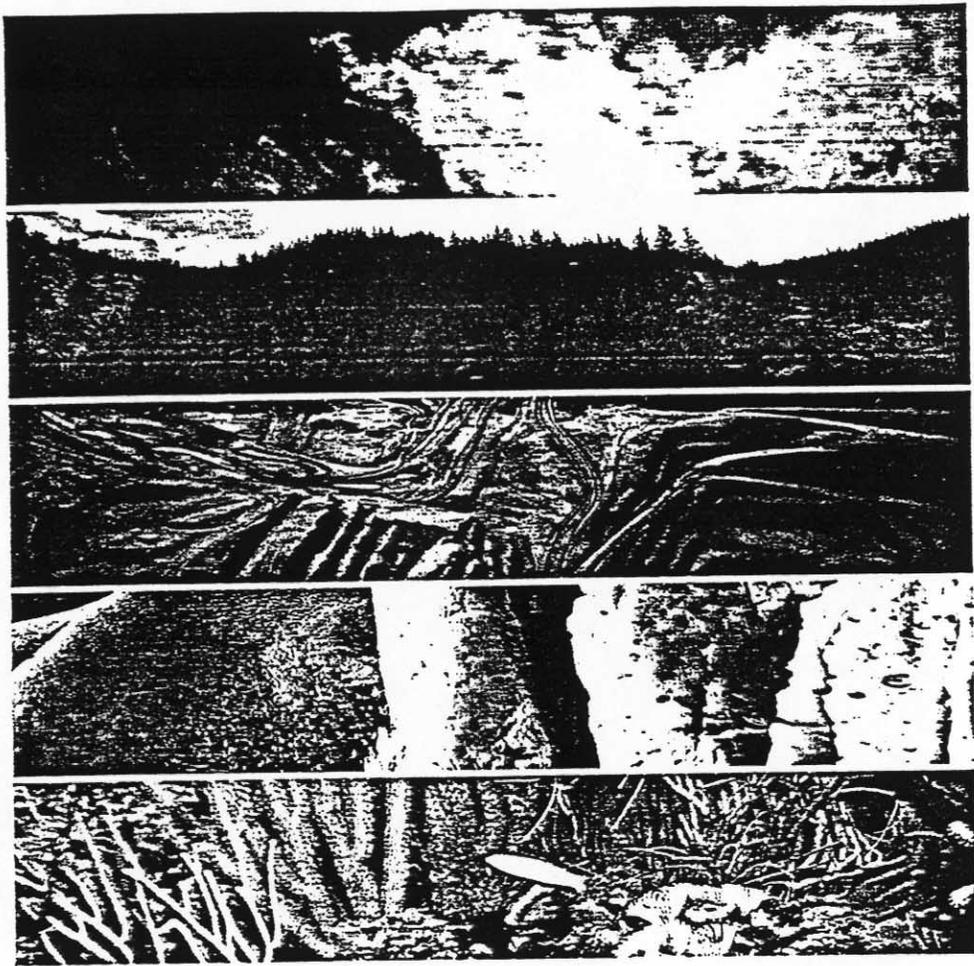
ALASKA DEPT. OF  
FISH & GAME

SEP 18 1987

REGION II  
HABITAT DIVISION

Note: Return this form when action is completed or attach it to data requested





ENVIRONMENTAL DATA REPORT  
1981 - 1982

for

ALASKA ASBESTOS JOINT VENTURE

June 1982

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# Dames & Moore

the late summer, adult salmon. Capture methods included: electrofishing, gill nets, angling, beach seine, and kick seine. Sampling trips were made in mid-May, early June, early July, mid-August, late September and early April. An aerial survey for spawning adult salmon was performed, with helicopter support, on August 11, 1981.

All but one of the sampling stations were upstream of "the Kink" and "the Chute," sections of the North Fork of the Fortymile Rive comprised of falls and rapids. Some agency biologists believe that such reaches, "the Kink" in particular, may block the upstream movements of fish (grayling, salmon, etc.), at least at some water levels. This information led to two modifications of the sampling program:

- o The aerial survey for spawning salmon included the portion of the Fortymile from below the Kink to the Middle Fork, as well as from the Middle Fork to Slate Creek.
- o The upper North Fork was examined for potential fish overwintering habitat.

In addition to these studies, general observations of aquatic habitat quality and of stream invertebrates (insect larvae) were made.

## 2.4 RESULTS

Repetitive collections of fish were made at twelve stations in the upper North Fork drainage (Table 14, Figure 10); most stations were the same as the water quality sampling stations.

The presence of three fish species was confirmed over the 1981 field season: Arctic grayling (Thymallus arcticus), slimy sculpin (Cottus cognatus), and chum salmon (Oncorhynchus keta). The chum salmon was a spawned-out individual sighted in the pool below the Kink, during the August aerial survey. The only observation of salmon presence above the

Kink was one king salmon taken by a sport fisherman in the North Fork near Champion Creek. No salmon fry were captured or observed at any sampling station.

A total of 19 adult grayling and two sculpin were captured during the baseline investigation. Of these, nine grayling were retained for possible asbestos bioassay. Twenty-eight grayling fry were retained for species identification.

#### 2.4.1 Fish Distribution

No grayling were captured during the 1981 breakup survey (early May), indicating that they had not yet completed the upstream spring spawning migration. Similarly, no grayling were caught just prior to freeze-up, suggesting that the fish had already moved back downstream for the winter. During the summer, grayling were captured in Champion Creek, Happy New Year Creek (below and downstream of the bulk sample area), and at all three Slate Creek stations. Slimy sculpin were caught in upper Slate Creek and in the North Fork. No fish were captured or observed in Gold Run, Independence Creek or Comet Creek.

Potential grayling overwintering habitat was observed above the Kink and these sites, as well as the pool below the Kink, were sampled through the ice in April 1982. The augering of 44 holes revealed no unfrozen water capable of supporting overwintering grayling at the following locations: the North Fork fish station, a station approximately 100 m upstream of the North Fork station, Happy New Year Creek, Champion Creek, Independence Creek, upper Slate Creek, and the Middle Fork below Portage Creek. Potential overwintering habitat was found at a station approximately 200 m upstream of the North Fork fish station, in a pool below the new channel in Slate Creek, and in the pool below the Kink. Sampling with minnow traps and hand jigs captured no fish at any of the latter stations. A gill net set at the North Fork station caught no fish, while the gill net at the Kink captured one 236 mm grayling.

# STATE OF ALASKA

**DEPARTMENT OF FISH AND GAME**

STEVE COWPER, GOVERNOR

Rapifax 349-1723

333 RASPBERRY ROAD  
ANCHORAGE, ALASKA 99518-1599  
PHONE: (907) 344-0541

## RAPIFAX TRANSMITTAL SHEET

TO: Ellen Fritts

DATE: 3/29/89

No. Pages: ~~7~~ 3  
(following this page)

FROM: Stewart Seaberg

MESSAGE:

*as you requested*