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

1987
Year of Revision

87-346

ALASKA DEPT. OF FISH & GAME
NOV 10 1986
REGION II
HABITAT DIVISION

Anadromous Water Catalog Volume Interior

USGS Quad 78 Lime Hills C5, D5, D4

Name of Waterway Babel River

Anadromous Water Catalog Number of Waterway
335-30-16600-2070-3101-4055

Change to _____ Atlas
_____ Catalog
X Both

Addition _____

Deletion _____

Correction X (upstream limit extension)

Name addition:

USGS name _____

Local name _____

For Office Use

Nomination # _____

[signature] 11/2/86
Regional Supervisor Date

ok STS 11/12/86

F1 11/13
Drafted Date

Species	Date(s) Observed	Spawning	Rearing	Migration
CO	8/21/86		CO	

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

Move upper limits to T.19N., R.29W., Sec 1, S.M. based on helicopter observation of suitable habitat and results of electro shocking at sites 335-30-16600-2070-3101-4055-5030 and 5036 (see atch'd forms).

Note: need to create new stream # on quad C5 (Lime Hills) for what used to be stream 4055 and 4055-0010.

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) K. Sundberg, B. Hahn.

Date: 10/7/86 Signature: [signature] - ADF&G

Address: 333 Raspberry Road
Anchorage Alaska 99518

Signature of Area Biologist: R. Kim Francisco

FISH HABITAT SURVEY

8/86
X-9.0
+8.9

Observer(s) Sunberg Landry Hahn Mauney Watershed No. 2070-3101-4055

Stream No. 5036 Stream Name

Weather: Clear, Prt. Cloudy, **Cloudy**

Stream Stage: **High**, Low, Medium

Precip. Today Light
Yesterday Light
This Week Mod

Altitude 1560 M.S.L U.S.G.S. Quad LH C-5

Lat. 61°28'.8" N Long. 155°05'.8" W

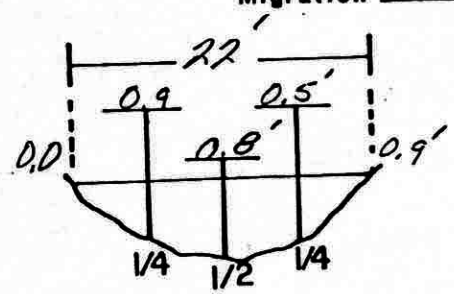
Temp: Air 48 Water 38 Time 1305 Date 8/21

Water Q.: Muddy, Murky, Stained, **Clear**

Substrate %:
Mud —
Sand 30
Gravel 30
Cobble 30
Boulder 10
Bedrock —

Habitat Quality 1 ⟶ 5 (Poor, Excell)
Spawning 2
Rearing 4
Migration 3

Flow: LOOKING UPSTREAM



V= 0.0 0.1 0.6 1.0 0.1

Fish Species

Length mm.	K	CO	S	DV/AC	W	SF	SC	G.R		
		80		8"				≈11"		
		71								
		39								
		42								

Gear EF Est. Area Sampled 300 x 20

Sampling Time 342 7077 / 6735 / 342 Est Sampling Efficiency 80

Channel Diagram (Include bank&stream features, vegetation)

LOOKING UPSTREAM

FISH HABITAT SURVEY

8/86 X-12.0 +2.5

Observer(s) Hahn Mauney Watershed No. 2070-3101-4055-

Stream No. 5030 Stream Name _____

Weather	Stream Stage	Precip.	Today Light
Clear	High		Yesterday Light
Prt. Cloudy	Low		This Week Mod
Cloudy	Medium		

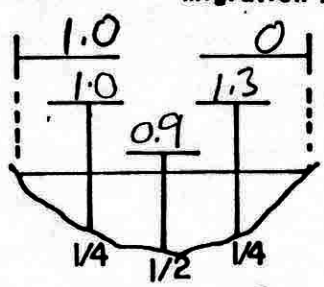
Altitude 1620 M.S.L U.S.G.S. Quad Lime Hills C-5

Lat. 61° 29' .1" N Long. 155° 02' .3" W

Temp: Air ✓ Water ✓ Time 1210 Date 8/21

Water Q.	Muddy	Substrate %	Mud —
	Murky		Sand —
	Stained		Gravel 20
	Clear		Cobble 30
			Boulder —
Habitat Quality 1 → 5		Spawning 4	Bedrock —
Poor	Excell.	Rearing 5	
		Migration 3	some beaver dams downstream

Flow:
LOOKING
UPSTREAM



v = 0.8 1.7 3.4 2.7 0

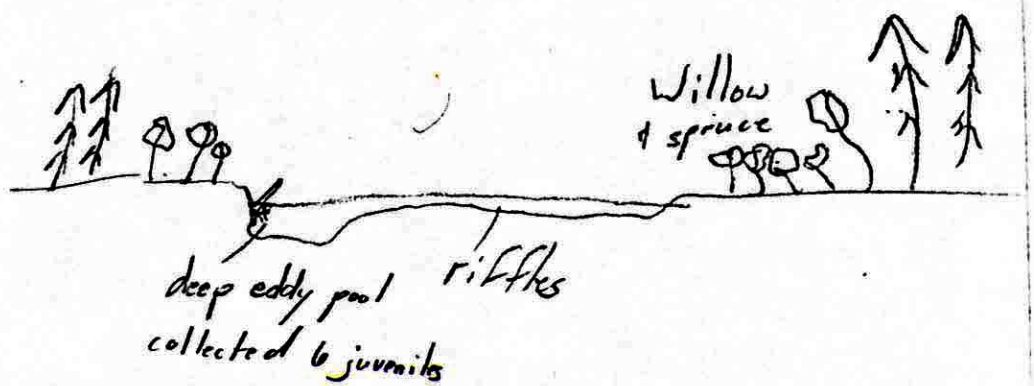
Fish Species

Length mm.	K	CO	S	DV/AC	W	SF	SC			
		77								
		45								
		41								
		46								
		36								
		35								
		45								

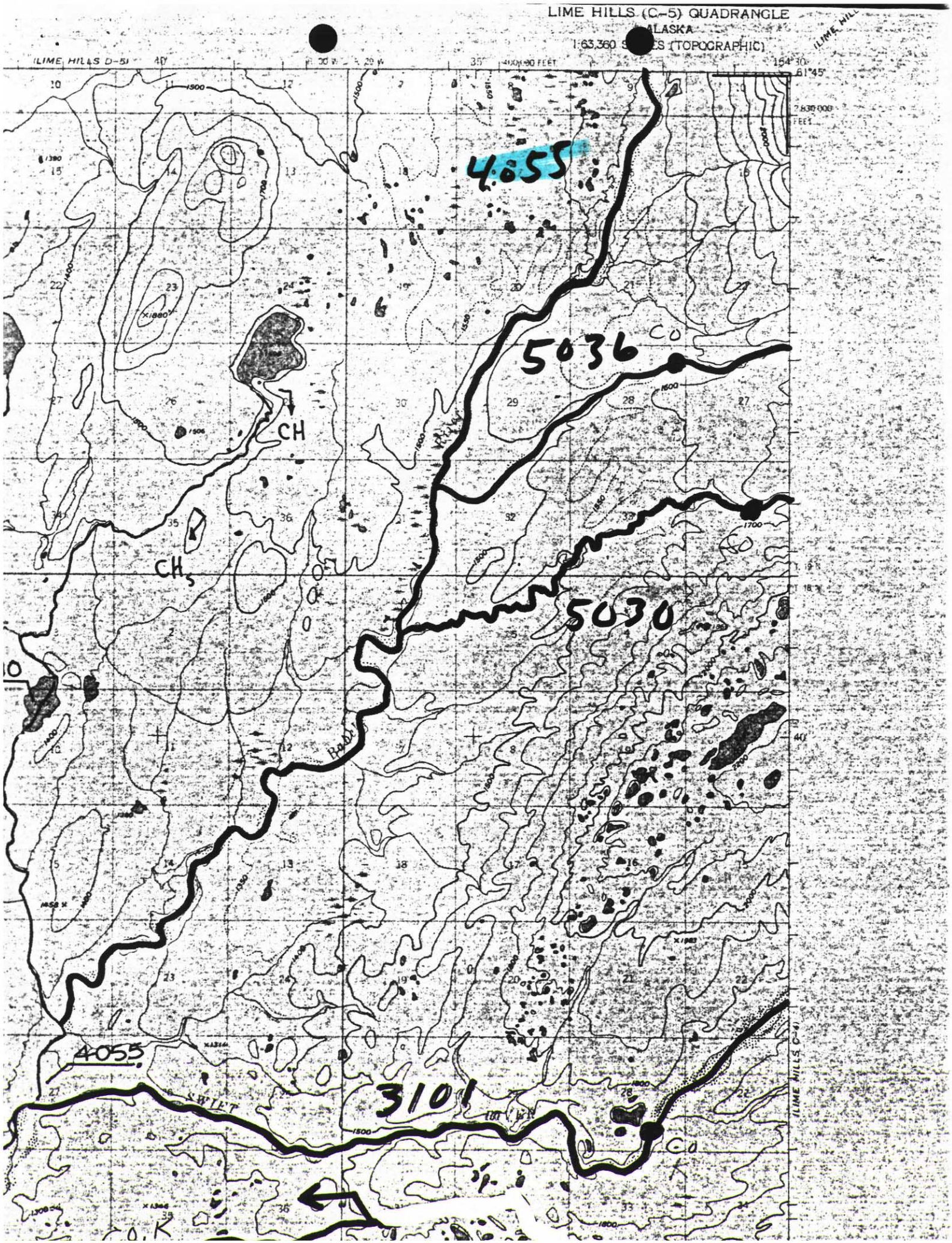
Gear EE Est. Area Sampled 60' x 20'

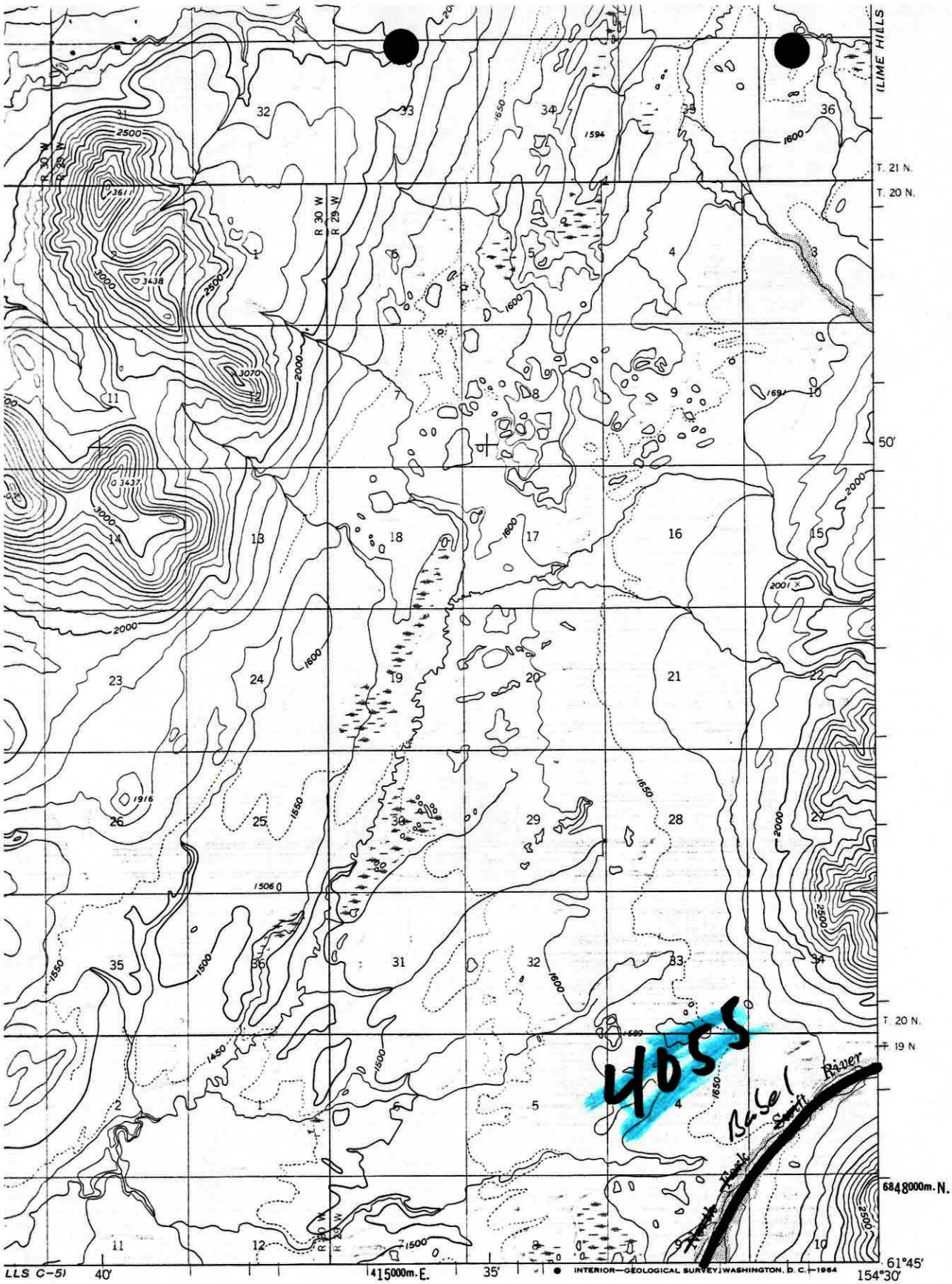
Sampling Time 202 ~~6533~~ 6733 / 202 Est Sampling Efficiency 80

Channel Diagram (include bank&stream features, vegetation)



LOOKING UPSTREAM


LIME HILLS (C-5) QUADRANGLE
ALASKA
1:63,360 S ES (TOPOGRAPHIC)
(LIME HILLS D-5)
(LIME HILLS C-4)
4055
5036
CO
CH
CH$_s$
5030
4055
3101
SWIFT
CO
CO
1500
1700
1600
1800
2000
2200
1550
1400
1380
1350
1880
1506
1458
1383
1346
61°45'
154°30'



1:63 360

2 3 4 MILES

00 12000 15000 18000 21000 FEET

2 3 4 5 KILOMETERS

RVAL 100 FEET
ENT 50-FOOT CONTOURS
AN SEA LEVEL

ROAD CLASSIFICATION

No roads or trails in this area

QUADRANGLE LOCATION

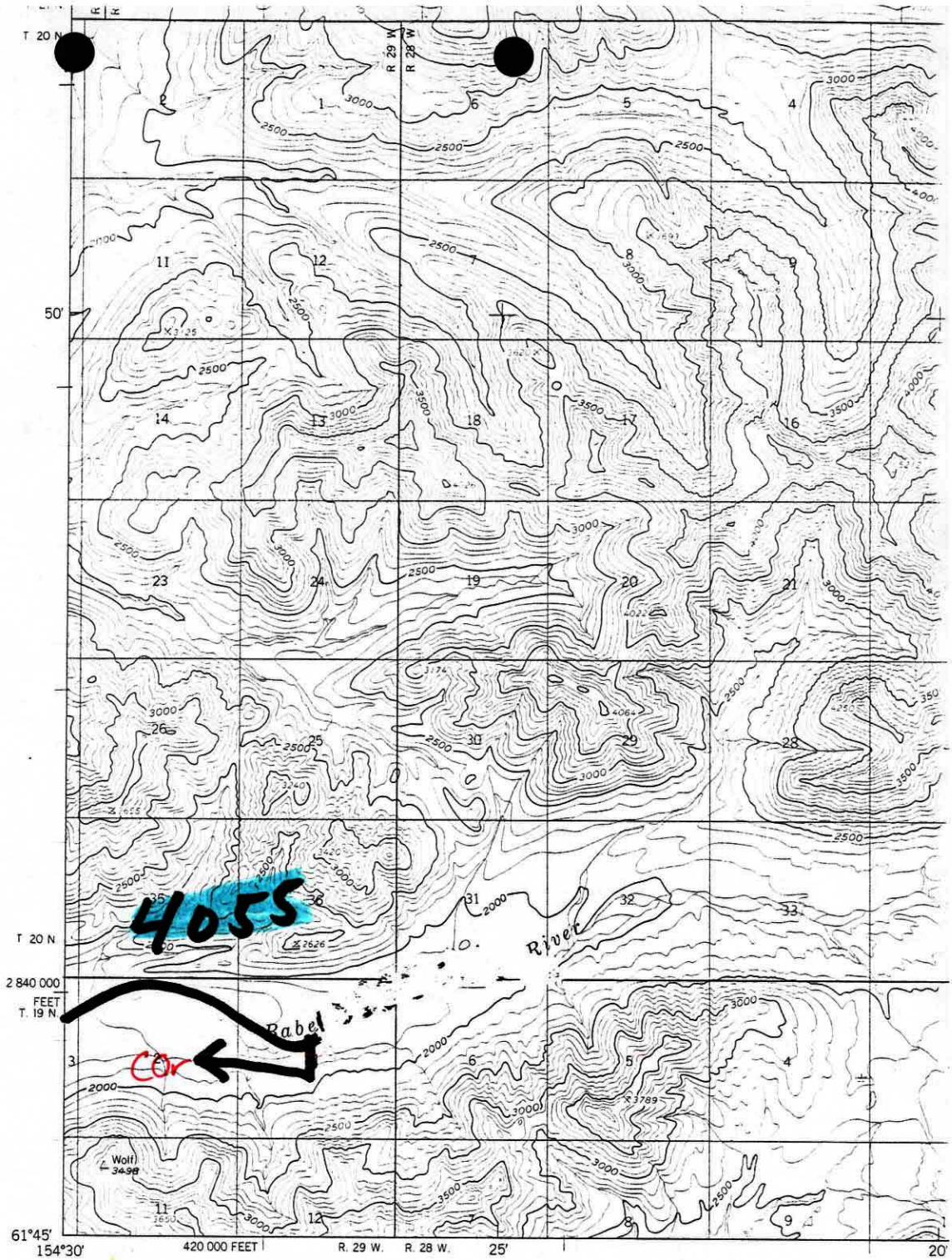
LIME HILLS (D-5), ALASKA

N6145-W15430/15X22.5

1954

GEOLOGICAL SURVEY
LORADO OR WASHINGTON 25, D.C.
AND SYMBOLS IS AVAILABLE ON REQUEST

Lime Hills D-4



(LIME HILLS C-5)

Mapped, edited, and published by the Geological Survey

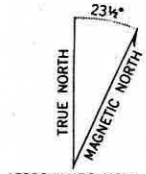
Control by USGS, USC&GS, and USCE

Topography by photogrammetric methods from aerial photographs taken 1954 and 1957, field annotated 1958. Map not field checked

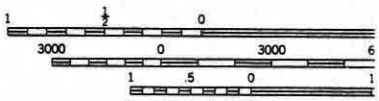
Universal Transverse Mercator projection, 1927 North American datum
10,000-foot grid based on Alaska coordinate system, zone 5
1000-metre Universal Transverse Mercator grid ticks, zone 5, shown in blue

Gray land lines represent unsurveyed and unmarked locations predetermined by the Bureau of Land Management Folio S 3, Seward Meridian

Swamps, as portrayed, indicate only the wetter areas, usually of low relief, as interpreted from aerial photographs



APPROXIMATE MEAN DECLINATION, 1958



C
DOTTED
NATIO

FOR SA
FAIRBANKS, ALASKA 99701, D
A FOLDER DESCRIBING TOPO