

APPENDIX D

MINERAL ORDERS

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF LAND AND WATER MANAGEMENT

MINERAL ORDER NO. 337 Amendment #1

 Closing Lands to Mineral Entry XX Opening Lands to Mineral Entry

I. Geographic Name Blying Sound


II. This mineral order is based on written justification contained in:

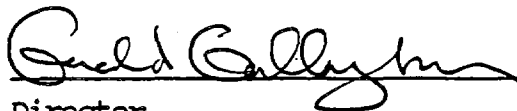
 Land Planning Report dated


XX Prince William Sound Area Plan
 Management Plan

III. File Number Legal Description Acreage
 See Attachment 42,081

IV. This order is subject to valid existing rights and issued under the authority granted by AS 38.05.185 - 38.05.275 to the Department of Natural Resources. The above described lands are hereby closed XX open to mineral entry under the locatable mineral and mining laws of the State of Alaska.

Concur:  6/15/88
Director Date
Division of Land and Water Management

Concur:  6/16/88
Director Date
Division of Mining

Concur:  6/17/88
Commissioner Judith M. Brady Date
Department of Natural Resources

**PRELIMINARY DECISION
PRINCE WILLIAM SOUND AREA PLAN
MINERAL OPENING ORDER # 337 Amendment 1
A.S. 38.05.185 (a)**

The Prince William Sound Area Plan, developed in accordance with AS 38.04.065, identifies a portion of the past Blying Sound Remote parcel area to be reopened to new mineral entry, concurrent with the adoption of the area plan. The remote parcel offering was closed to new mineral entry under mineral closing order # 337 prior to the land staking period.

Lands that were not staked in the remote parcel offering remain in state ownership. There are no known minerals in the area. The land does not support significant surface activities that would be incompatible with mining, and is no longer available for staking of private parcels. Therefore, it is in the best interest of the state to reopen this area to new mineral entry. Lands that have been staked for private ownership will remain closed to mineral entry. In addition, because many of the private parcels have not yet been surveyed, a buffer will be left closed around the parcels to allow for adjustments in location that are likely to take place at the time of survey.

Lands that will be reopened to new mineral entry are listed below.

Location	USGS Topo	Mgmt. Unit	Name	Estimated Acreage
Blying Sound	Seward, Blying Sound	15	Day Harbor	
T2S R2E, SM				
Sec. 1: All uplands				585±
Sec. 2: All uplands				50±
Sec. 10: All uplands				450±
Sec. 13, 14: All				1,280
Sec. 15: All uplands				345±
Sec. 21: All uplands				170±
Sec. 22: All uplands				500±
Sec. 23, 24: All uplands				1,275±
Sec. 25: All uplands				360±
Sec. 26: All uplands				622±
Sec. 27: All				640±
Sec. 28: All uplands				450±
Secs. 33, 34, 35, 36: All uplands				1,075±
T2S R3E, SM				
Secs. 2, 3, 10, 11, 14, 15, 16, 20, 21, 22, 23, 26: All				7,680±
Sec. 27: All uplands excluding AO 51232				455±
Sec. 28: All uplands excluding AO 48774 AND AO 51232				300±
Sec. 29: All uplands				620±
Secs. 31, 32, 34: All uplands				929±
Sec. 35: All				640±

T2S R4E, SM	
Secs. 11, 13, 14, 20, 22-29, 31: All	7,520±
Sec. 32: All uplands	600±
Secs. 33, 34: All uplands	870±
Sec. 35: All uplands	625±
Sec. 36: All	640±
T2S R5E, SM	
Sec. 2: W 1/2 W 1/2, All uplands	110±
Sec. 3: All	640±
Sec. 10: All	640±
Sec. 11: All uplands West of Puget Bay	150±
Sec. 14: All uplands	190±
Secs. 15, 19, 22: All	1,920±
Sec. 23: All uplands	260±
Secs. 30, 31, 32	1,920±
T3S R2E, SM	
Sec. 1: All uplands	60±
T3S R3E, SM	
Sec. 1: All	640±
Sec. 2: All uplands	505±
Sec. 3: All uplands	15±
Sec. 6: All uplands NW of Blying Sound	35±
Sec. 11: All uplands	140±
Sec. 12: All uplands	615±
T3S R4E, SM	
Secs. 1, 2, 3: All uplands	865±
Sec. 5: All uplands	235±
Sec. 6: All	621±
Secs. 7, 8: All uplands	435±
Sec. 11: All uplands	10±
Secs. 12, 13, 18: All uplands	60±
T3S R5E, SM	
Sec. 3: All uplands	350±
Secs. 4, 5: All	1,280±
Sec. 6: All uplands	371±
Sec. 7: All uplands	588±
Sec. 8: All	640±
Sec. 9: All uplands	380±
Sec. 10: All uplands	10±
Sec. 17, 18: All uplands	430±
Subtotal:	44,081 acres
Less approximate area staked for private ownership, which remain closed	<u>2,000 acres</u>
Total	42,081 acres

Blying Sound 44,000 acres
(excluding parcels staked for
private ownership)

Unit 15 USGS Topo-Seward,
 Blying Sound

FINDING OF THE COMMISSIONER
PRINCE WILLIAM SOUND AREA PLAN
MINERAL CLOSING ORDER # 556
A.S. 38.05.185 (a)

The Prince William Sound Area Plan (PWSAP), developed in accordance with AS 38.04.065, identifies certain areas to be closed to new locatable mineral entry because these activities would not be compatible with significant surface uses (AS 38.05.185). The areas to be closed are: 1) 27 anadromous streams, two anadromous lakes, and adjacent state-owned riparian uplands; 2) four areas of state-owned tide and submerged lands adjacent to existing fish hatchery facilities; 3) 143 estuaries on state-owned tidelands; 4) tide and submerged lands within Shotgun Cove; and 5) tide and submerged lands within the Copper River Delta State Critical Habitat Area. These closures have been given public review through the Prince William Sound planning process. Attachment 1 is a Justification for the Mineral Closing Order and shows the acreage and maps of the mineral closures.

Coghill Lake, Robe Lake and the twenty-seven anadromous streams and the adjacent riparian habitat 50 feet from each side of the stream are very important in the production and public use of fish and wildlife resources. They are crucial habitat areas that serve as a concentrated use area for fish species during a sensitive life history stage, where alteration of the habitat could result in the permanent loss of the population and the species' sustained yield.

Fish hatcheries are located at Main Bay, Sawmill Bay, Cannery Creek, and Lower Solomon Gulch. These facilities are part of a long-term program to eliminate drastic fluctuations in salmon harvest levels and to help stabilize the economy in regions dependent upon the commercial fishing industry.

The 143 estuarine areas adjacent to the 200 indexed anadromous fish streams in the Prince William Sound provide essential rearing habitat for salmon resources which are estimated to comprise approximately 70 percent of the combined commercial, recreational, and subsistence salmon harvest in the Sound.

Tide and submerged lands within Shotgun Cove are the location for a future boat harbor. The adjacent privately-owned uplands is targeted for associated recreational and residential development by the City of Whittier and Chugach Alaska Corporation.

The Copper River Delta State Critical Habitat Area (CRDSCHA) is one of the most productive and critical avian habitats in all of Alaska. In addition to birds, the Delta also supports large populations of harbor seals. The Copper River is one of the state's major salmon producing systems and it supports important commercial and subsistence salmon fisheries. The areas to be closed are the tidelands and submerged lands within the CRDSCHA one-fourth mile seaward from mean high tide.

Habitat requirements essential for salmon and resident fish spawning, egg, and fry development are clear, cool, well oxygenated stream water and stream bed gravel that is free of sediment, highly permeable, and stable. Riparian habitat adjacent to streams is also essential for maintaining productivity. The continued propagation and production of fish resources in the Prince William Sound is extremely important as a source of food and income.

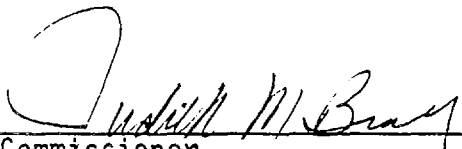
Therefore, these activities constitute a significant surface use of stream waters, stream beds and adjacent riparian upland habitats, and tide and submerged lands.

Mining in the above-referenced lake beds, stream channels and adjacent uplands of certain streams, and the tide and submerged land areas (all identified in the Prince William Sound Area Plan as closed to mineral entry) is incompatible with salmon spawning and rearing habitat. Disruption of fish habitats will threaten the commercial and personal use harvests that Prince William Sound residents depend upon as a source of food and income.

Therefore, it is my finding that the best interest of the state and its residents is served by the closure to entry under the locatable mineral and mining laws of the State of Alaska of the following areas:

1. Those portions of the lakes, streams and adjacent riparian upland habitats identified in the Prince William Sound Area Plan (see Attachment 1, Table 2).
2. Fish hatchery sites (tidelands only) at Main Bay, Sawmill Bay, Cannery Creek, and Lower Solomon Gulch. (see Attachment 1, maps).
3. 143 estuaries on state-owned tidelands (see Attachment 1, Table 3).
4. Tide and submerged lands within Shotgun Cove in Passage Canal (see Attachment 1, maps).
5. State-owned tide and submerged lands within The Copper River Delta State Critical Habitat Area.

This closure is subject to valid existing rights.



Commissioner
Department of Natural Resources

Date 6/17/88

MINERAL ORDER NO. 556

PRINCE WILLIAM SOUND AREA PLAN
MINERAL CLOSING ORDER # 556
ATTACHMENT 1

JUSTIFICATION FOR MINERAL CLOSING ORDER

AREAS AFFECTED BY CLOSURE

The Prince William Sound Area Plan has identified several areas to be closed to new mineral entry. These are places where conflicts between mining and existing or future surface use would be most severe and where the values for public use are greatest. In general, current information indicates that the areas proposed for closure to new mineral entry have low mineral value.

The areas closed to new mineral entry are: state-owned tidelands and submerged lands at four existing fish hatchery sites and 143 estuaries; twenty-seven crucial anadromous streams and the adjacent riparian habitat on state-owned or state-selected land 50 feet on each side of the stream bed; two crucial anadromous lakes; tide and submerged lands at Shotgun Cove; and tide and submerged lands within the Copper River Delta State Critical Habitat Area.

Prince William Sound Area Plan - Mineral Closures

Hatcheries	5,200 acres
Streams	4,069 acres
Estuaries	50,058 acres
Shotgun Cove	500 acres
CRDSCHA	15,000 acres
<hr/>	
TOTAL	74,827 acres

This paper describes the legal basis for closing these areas to mineral entry, and the importance of the stream systems and fish hatchery sites for fish production and harvest. It also summarizes the effect of mining on stream characteristics and the value of the streams for habitat. More specific information on fish distribution and harvest for each stream system and on the fisheries enhancement projects is contained in the Fish and Wildlife Resources Element for the Prince William Sound Area Plan (ADF&G, 1987).

AUTHORITY FOR MINERAL CLOSURES

Title 38 of the Alaska Statutes addresses the management of public lands of the State of Alaska. Section 38.05.185 is stated below.

"State land may not be closed to mining or mineral location unless the Commissioner makes a finding that mining would be incompatible with significant surface uses on the state land. State land may not be restricted to mining under lease unless the Commissioner determines that

the potential use conflicts on state land require that mining be allowed only under written lease issued under Alaska Statute (AS) 38.05.205 or the Commissioner has determined that the land was mineral in character at the time of state selection".

Section 38.05.185 also states the land use planning requirement.

"The determination required under this subsection shall be made in compliance with land classification orders and land use plans developed under AS 38.05.300".

The Prince William Sound Area Plan forms the basis for classifying state lands and designating specific areas for mineral closures, in accordance with AS 38.05.185. (See 11 AAC 55, Land Planning and Classification Regulations).

The state, through the Prince William Sound Area Plan, recognizes that fish production and harvest and boat harbors for transportation are significant uses of state land in the Prince William Sound Area. Instream placer mining is incompatible with the use and production of fish resources on the streams, lake and adjacent lands; and tidelands named in Tables 1 and 2, and shown on the maps in Attachment 1. The plan, therefore, designates these areas to be closed to new mineral entry in accordance with AS 38.05.185.

AREAS AFFECTED BY CLOSURE

Index Streams, Bays and Estuaries

The propagation, production and harvest of fish resources is a significant use of state lands in the Prince William Sound area. The streams, estuaries, tide and submerged lands identified in Tables 1, 2 and 3 support spawning populations of king, coho, sockeye, pink, and chum salmon.

The 200 indexed fish streams and the 143 estuarine areas adjacent to them in Prince William Sound provide essential rearing habitat for salmon resources. They are estimated to comprise approximately 70% of the combined commercial, recreational, and subsistence salmon harvest in the Sound. The ten year average (1975-84) annual salmon harvest in Prince William Sound was approximately 13 million fish. Between 1980 and 1985, the annual fish harvest was valued between \$26 million and \$51 million annually. Approximately 97 percent of the salmon harvest in Prince William Sound is pink and chum salmon.

Pink and chum salmon production, more than other salmon species, is limited by the quality of estuarine habitat adjacent to spawning streams. Pink and chum salmon use fresh water only during the spawning and incubation life phase. They utilize estuaries for their entire juvenile life phase when they are particularly dependent upon food availability and vulnerable to predation. The maintenance of high quality estuarine habitats and avoidance of impacts to associated water quality and marine plant and animal communities is essential to sustaining the productivity of Prince William Sound fisheries.

Prince William Sound Salmon Hatcheries

The history of the region's commercial salmon fishery is characterized by drastic fluctuations in harvest levels and occasional periods of economic depression. In the past, the Alaska Legislature has established various programs to promote fisheries enhancement, including the planning and construction of fish hatchery facilities. Their goal is to stabilize the cyclical nature of and to enhance the commercial salmon fishery. Two state and three private non-profit salmon hatcheries currently operate in Prince William Sound. The largest salmon production hatchery in North America is located at Port San Juan in Sawmill Bay. Other hatcheries are located at Main Bay, Cannery Creek, and Solomon Gulch. (The Lake Bay hatchery on Esther Island is closed by a previous order).

These hatcheries currently release approximately 750 million pink, chum, coho and sockeye salmon annually. The long term annual production objective for contribution of adult salmon to Prince William Sound fisheries is over 31 million fish.

Hatcheries provide a controlled environment for the development of salmon eggs and alevins. However, the survival and growth of young salmon released from incubation and rearing facilities are critically dependent upon the marine environment found in the estuaries and near shore areas of numerous bays and inlets adjacent to the hatcheries. These areas are essential to the success of early life stages of the juvenile because they provide a rich supply of marine food organisms and protection from predators. Continued success and future expansion of the salmon enhancement program in Prince William Sound requires that the habitat, water quality and productivity of bays and estuaries adjacent to the hatcheries be maintained at the highest levels.

Additional information about fisheries enhancement can be found two reports titled Prince William Sound - Copper River Comprehensive Salmon Plan, Phase I - 20 Year Plan (1983-2002) and Comprehensive Salmon Plan, Phase II, Prince William Sound Area Public Review Draft. They are available from the Prince William Sound Aquaculture Corporation.

Table 1

Existing Fish Hatchery Sites

Map No.*	Name	Subunit	USGS QUAD	Acreage
140	Main Bay	10a	Sew C-3	1408 acres
141	Cannery Creek	19d	Anc A-2	1696 acres
142	Solomon Gulch	21t	Val A-7	528 acres
143	Sawmill Bay	14e	Sew A-3	1568 acres
TOTAL				5200 acres

*The map numbers refer to the numbers on the management unit maps of DNR's Prince William Sound Area Plan.

Shotgun Cove, Passage Canal

Significant surface use at Shotgun Cove in Passage Canal includes fish spawning and rearing habitat, as well as the future development of a small boat harbor. Privately owned uplands surrounding Shotgun Cove are the site of recreation and residential projects to be developed by the City of Whittier and Chugach Alaska Corporation. Mining activity on the tidelands could prevent the location and construction of the small boat harbor. The closure encompasses tide and submerged lands within the Cove one-fourth mile seaward from mean high tide, a total of approximately 500 acres. (The area affected by the closure is also shown on the map in management unit 2, Passage Canal, estuary number 144).

Copper River Delta State Critical Habitat Area

The Copper River Delta is one of the most productive and critical avian habitats in all of Alaska. The Copper River Delta State Critical Habitat Area (CRDSCHA) encompasses the highly productive waterfowl breeding grounds found on the river delta and adjacent lowlands. Duck nesting densities in this region range as high as over 200 breeding ducks per square mile. Nesting densities of dusky Canada geese exceed 160 geese per square mile in some areas. During spring migration, an estimated 20 million shorebirds and one million waterfowl stop at the Copper River Delta on their way to more norther nesting grounds.

In addition to birds, the harbor seal population of the Copper River Delta is quite large. Seals haul out on the barrier island bars which front the coast. Pupping also occurs on the bars.

The Copper River is one of the state's major salmon producing systems. It supports important commercial and subsistence salmon fisheries. The Copper River Delta is the migratory pathway for millions of adult salmon returning to the river to spawn and is a rearing area for hundreds of millions of out-migrating juvenile salmon. In 1987 the commercial fishery produced 1.2 million red salmon; 33,700 pink salmon; 14,400 chum salmon; 127,000 silver salmon; and 41,700 king salmon. The 1987 commercial catch was worth \$17.2 million to the fishermen.

JUSTIFICATION FOR CLOSURE

Essential conditions for successful salmon spawning, and egg and fry development, are clear, cool, well-oxygenated water, and gravel that is free of sediment, highly permeable, and stable (Hall and McKay, 1983). Retention of riparian vegetation adjacent to the stream helps in regulating nutrient input to the aquatic ecosystem and provides for flood control, pollution abatement, erosion control, stream bank stabilization, ground water recharge, and overall maintenance of water quality (Rosenburg, 1983).

The severity of the impacts of mining on fish resources depends to a considerable degree on the location of the deposit to be mined and the effectiveness of steps taken to mitigate impacts before, during, and after mineral production. The development of mining claims with the active stream channel of an anadromous stream creates a serious use conflict and could jeopardize the commercial harvest of salmon and the overall economic structure of Prince William Sound. In

general, instream placer mining can seriously degrade anadromous stream habitat by producing excessive sediment, increasing turbidity, changing pH, adding toxic heavy metals to stream water, and altering stream channels and stream flows. The effects of placer mining immediately adjacent to streams are similar to other land disturbance activities (i.e., logging, agriculture, vegetation removal, road construction) that can introduce unnaturally high levels of sediment into stream environments. Existing literature contains many studies, reports, and documents on the effects of increased sediment loads on salmonids, food chain components, and on aquatic ecosystems. The major conclusions reached by investigators studying the effects of placer mining and sedimentation on aquatic life and stream systems are summarized by Madison (1981).

Commercial fishing is an important economic activity in the Sound. The contribution of the fisheries to local employment and the economy is significant. In 1981, salmon harvests contributed 84.3 percent to the revenues derived from commercial fishing. Approximately 14 percent and 21 percent of the total employment in Valdez and Cordova respectively are engaged in the fishing industry. Commercial fishing is one of the biggest industries in Prince William Sound, based on the number of people working in the industry and the total revenue generated.

The propagation and production of fish constitutes a significant surface use of stream waters, stream bed gravel, riparian habitat, and tidelands in the Prince William Sound planning area. Through maintenance of water quality, stream and riparian habitat, and sound fishery management practices, public use and commercial use of salmon resources in the Sound will continue to expand, as will the contribution of fish uses to the regional and state economy.

Only those lakes, streams, publicly-owned uplands within 50 feet of mean high water along the streams, and tidelands and submerged lands that would be in highest conflict with mining activities are to be closed to new mineral entry. High conflict was determined if a lake, stream, tideland or submerged land is associated with salmon spawning or rearing habitat values. Valid existing mining claims are not affected by the closures. The closure of the above mentioned lakes, streams, adjacent uplands, tidelands, and submerged lands encompass an estimated 74,827 acres of public land. Subsurface lands not owned by the state within the areas designated by this order, for example, Native conveyed lands and certain private lands, are not subject to the mineral closure. The mineral closure only includes the specific stream segments, lakes, adjacent state uplands, tidelands and submerged lands identified in this order.

Alaska Statute 16.05.870 gives the Commissioner of Fish and Game the authority of regulated activities within designated anadromous fish streams. Within the streams systems designated for closure in this order, sufficient protection of fish and game resources (as required in AS 16.05.870 (d)) would place significant constraints on mining after a mining claim had been filed. Closing riparian areas to new mineral entry more effectively and efficiently achieves the level of fish and wildlife protection required on these lands and waters.

In conclusion, an analysis of the values of streams, lakes, tidelands and submerged lands in Prince William Sound for public use and of the impact of mining on other resource uses indicates that areas where the highest conflict between use of fish and mining would occur should be closed to new mineral entry.

Table 2
Prince William Sound Area Plan
Anadromous Lake and Streams Closed to New Mineral Entry

Township & Range	USGS Quad	Stream Name	Mgmt. Unit.	ADF&G Anadromous Inventory ID#	Width Feet	Length Miles	Acreage	Salmon Values
T11N R9E SM	Anchorage A-3	Coghill River	5; (**)	223-30-13220	50	1.75	10	Ks;COrs;CHs;Sr;Ssr
T12N R9E SM	Anch A-2 & A-3	Upper Coghill River	5; (***)	223-30-13220	50	4.0	24	Ks;COrs;CHs;Sr;Ssr
T11N R9E SM & T12N R9E SM --								
	-- Anchorage A-3	Coghill Lake	5; (**)	223-30-13220-0010	*	--	3,051	Ks;COrs;CHs;Sr;Ssr
T9N R6E SM	Seward D-4	Pirate Creek	5E (select)	224-10-14280	150	.1	5	P;CH
T11N R8E SM	Seward D-3	Avery River	5E (select)	223-30-13236	150	.25	14	P;CH
T10N R8E SM	Seward D-3	Golden Lagoon	5E	223-30-13244	*	--	20	P;CH
T10N R10E	Seward D-2	Waterfall Creek	18E	222-20-12638	150	.2	11	P
T10N R10E	Seward D-2	Siwash River	18E	222-20-12640	150	.75	41	P;CH
T10N R10E	Seward D-2	Schappe River	18E	222-20-12650	150	.25	14	P;CH
T9S R7W CRM	Valdez A-7	Gorge Creek	21T	221-60-11310	150	1.1	60	Ps;CHs
T9S R6W CRM; T9S R5W CRM; T9S R4W CRM; & T9S R3W CRM --								
	-- Valdez A-6 & A-5	Lowe River	21H, M, P, S	221-60-11370	350	17.4	1404	Ps;S;CHs;COs
T9S R5W CRM	Valdez A-6	Robe Lake	21I	221-60-0010	*		24	Ps;S;CHs;COs
T8S R6W CRM	Valdez A-7	Siwash Creek	21E, G	221-60-11440	150	2.0	109	Ps;CHs
T8S R6W CRM	Valdez A-7	Crooked Creek	21E	221-60-11450	150	.2	11	Ps;CHs;COsr
T10S R8W CRM	Valdez A-8	Levshakoff Creek	22D	221-50-11210	150	.6	33	Ps;CHs
T10S R8W CRM	Valdez A-7	Vlasoff Creek	22F	221-50-11290	150	.5	27	Ps;CHs
T14S R6W CRM	Cordova C-6	Pass Creek	23A	221-30-10410	150	1.5	82	Ps
T2N R13E SM	Seward B-1	Shuman Creek	24C	227-20-17464	150	.6	33	P;CH
T2N R13E SM	Seward A-1	Schieman Creek	24C	227-20-17460	150	.1	5	P;CH
T2N R13E SM	Seward A-1	Wild Creek	24C	227-20-17450	150	.1	5	P;CH
T2N R13E SM	Seward A-1	Wilby Creek	24C	227-20-17440	150	.4	22	COr;CH;P;COr;Ps
T18S R7W CRM	Cordova B-7	Garden Creek	25G	228-60-18100	150	.4	22	CHs;Ps
T18S R8W CRM	Cordova B-7	Unnamed Creek	25G	228-60-18070	150	.5	27	CHs;Ps
T18S R8W CRM	Cordova B-7	Etches Creek	25G	228-60-18060	150	.5	27	CHs;Ps
T15S R5W CRM	Cordova C-6	Rollins Creek	26C	228-30-18490	150	.3	16	Ps
T15S R5W CRM	Cordova C-6	Canoe Creek	26C	228-30-18500	150	.2	11	Ps;CHs
T16S R5W CRM	Cordova C-6	Canyon Creek	26C	228-30-18510	150	.15	8	Ps;
T16S R3W CRM	Cordova C-5	Hartney Creek	27B	228-10-10020	150	.25	14	P;CH;CO;CT;DV
T15S R3W CRM	Cordova C-5	Eccles Creek	27C	228-10-10050	150	.2	11	Ps
					TOTAL:		35.5	4,069

Number of River Systems: 27

* Acreage of Coghill Lake, Robe Lake and Golden Lagoon is calculated directly and is not based on stream length.

** Coghill River and Lake are navigable waters surrounded by federally owned uplands.

*** Upper Coghill River closure is streambed only.

TABLE 3
Prince William Sound Area Plan
Estuaries Closed to Mineral Entry

Estuary	Legal Description	USGS Quad	Unit	Location	Associated ADF&G Anadromous Stream# ¹	Acreage #/s	Salmon Values ²
1	T16S R4W CRM	Cordova B-5,6 C-5	27e	Hartney Bay	221-10-10020	330	P,CH,CO,CT,DV
2	T15S R3W CRM	Cordova C-5	27e	Eccles Lagoon	221-10-10050	131	Ps
3	T15S R3W CRM	Cordova C-5	27a	Flemming Bay	221-10-10080	156	Ps, CHs
4	T14S R3W CRM	Cordova C-5	27e	Orca Inlet Humback Bay	221-10-10110	197	Ps
5	T14S R3W CRM	Cordova C-5	23i	Orca Inlet Simpson Bay	221-20-10190 221-20-10200 221-20-10210	252	Ps, COs, Ps, CHs Ps, CHs
6	T14S R3W CRM	Cordova C-5	23f	Simpson Bay	221-20-10230	387	Ps, CHs
7	T13S R4W CRM T14S R4W CRM	Cordova C-6	23j	Sheep Bay	221-20-10350 221-20-10360	557	Ps, CHs Ps, CHs
8	T14S R5W CRM	Cordova C-6	23j	Sheep Bay	221-20-10370	138	Ps
9	T14S R6W CRM	Cordova C-6	23a	Port Gravina	221-30-10410	151	Ps
10	T13S R5W CRM	Cordova C-6	23j	Port Gravina	221-30-10450	94	Ps
11	T13S R5W CRM	Cordova C-6	23j	Comfort Cove Port Gravina	221-30-10460	108	Ps, Chs
12	T13S R4W CRM	Cordova C-6 Cordova D-6	23f	Beartrap Bay	221-30-10480	440	CHs, Ps
13	T13S R5W CRM	Cordova D-6	23f	Mouth of Beartrap Bay	221-30-10490	84	CHs, Ps
14	T13S R5W CRM T13S R6W CRM	Cordova C-6 Cordova D-6	23e	Olson Bay	221-30-10516 221-30-10517 221-30-10520	148	CHs, Ps CHs, Ps CHs, Ps
15	T13S R5W CRM	Cordova C-7	23j	Port Gravina	221-30-10540	143	CHs, Ps
16	T13S R5W CRM	Cordova D-7	23e	St. Matthews Bay	221-30-10560	256	CHs, Ps
17	T13S R8W CRM	Cordova C-7	23j	Two Moon Bay	221-40-10710	311	Ps
18	T13S R7W CRM	Cordova C-7	23d	Two Moon Bay	221-30-10730	417	Ps
19	T13S R7W CRM	Cordova D-7	23h	Irish Cove	221-40-10760	178	Ps, CHs, CO
20	T12S R6W CRM	Cordova D-8	23j	Whalen Bay	221-40-10800	706	Ps, CHs
21	T12S R5W CRM	Cordova D-6	23j	Port Fidalgo	221-40-10820	128	Ps, CHs

TABLE 3
Prince William Sound Area Plan
Estuaries Closed to Mineral Entry

Estuary	Legal Description	USGS Quad	Unit	Location	Associated ADF&G Anadromous Stream# ¹	Acreage #/s	Salmon Values ²
1	T16S R4W CRM	Cordova B-5,6 C-5	27e	Hartney Bay	221-10-10020	330	P,CH,CO,CT,DV
2	T15S R3W CRM	Cordova C-5	27e	Eccles Lagoon	221-10-10050	131	Ps
3	T15S R3W CRM	Cordova C-5	27a	Flemming Bay	221-10-10080	156	Ps, CHs
4	T14S R3W CRM	Cordova C-5	27e	Orca Inlet Humback Bay	221-10-10110	197	Ps
5	T14S R3W CRM	Cordova C-5	23i	Orca Inlet Simpson Bay	221-20-10190 221-20-10200 221-20-10210	252	Ps, COs, Ps, CHs Ps, CHs
6	T14S R3W CRM	Cordova C-5	23f	Simpson Bay	221-20-10230	387	Ps, CHs
7	T13S R4W CRM T14S R4W CRM	Cordova C-6	23j	Sheep Bay	221-20-10350 221-20-10360	557	Ps, CHs Ps, CHs
8	T14S R5W CRM	Cordova C-6	23j	Sheep Bay	221-20-10370	138	Ps
9	T14S R6W CRM	Cordova C-6	23a	Port Gravina	221-30-10410	151	Ps
10	T13S R5W CRM	Cordova C-6	23j	Port Gravina	221-30-10450	94	Ps
11	T13S R5W CRM	Cordova C-6	23j	Comfort Cove Port Gravina	221-30-10460	108	Ps, Chs
12	T13S R4W CRM	Cordova C-6 Cordova D-6	23f	Beartrap Bay	221-30-10480	440	CHs, Ps
13	T13S R5W CRM	Cordova D-6	23f	Mouth of Beartrap Bay	221-30-10490	84	CHs, Ps
14	T13S R5W CRM T13S R6W CRM	Cordova C-6 Cordova D-6	23e	Olson Bay	221-30-10516 221-30-10517 221-30-10520	148	CHs, Ps CHs, Ps CHs, Ps
15	T13S R5W CRM	Cordova C-7	23j	Port Gravina	221-30-10540	143	CHs, Ps
16	T13S R5W CRM	Cordova D-7	23e	St. Matthews Bay	221-30-10560	256	CHs, Ps
17	T13S R8W CRM	Cordova C-7	23j	Two Moon Bay	221-40-10710	311	Ps
18	T13S R7W CRM	Cordova C-7	23d	Two Moon Bay	221-30-10730	417	Ps
19	T13S R7W CRM	Cordova D-7	23h	Irish Cove	221-40-10760	178	Ps, CHs, CO
20	T12S R6W CRM	Cordova D-8	23j	Whalen Bay	221-40-10800	706	Ps, CHs
21	T12S R5W CRM	Cordova D-6	23j	Port Fidalgo	221-40-10820	128	Ps, CHs

Estuary	Legal Description	USGS Quad	Unit	Location	Associated ADF&G Anadromous Stream# ¹	Acreage #'s	Salmon Values ²
22	T11S R5W CRM T11S R6W CRM	Cordova D-6 Cordova D-7	23j	Port Fidalgo	221-40-10870	1552	Ps, CHs
23	T12S R6W CRM	Cordova D-7	23j	Port Fidalgo	221-40-10880	83	Ps
24	T12S R7W CRM	Cordova D-7	23j	Fish Bay	221-40-10890 221-40-10920 221-40-10930 221-40-10940 221-40-10990	767	Ps, CHs Ps Ps Ps, CHs Ps, CHs
25	T12S R7W CRM T12S R6W CRM	Cordova D-7	23f	Landlocked Bay	221-40-10990	365	Ps, CHs
26	T11S R8W CRM	Cordova D-8	23b	Virgin Bay	221-50-11060	111	Ps
27	T11S R9W CRM	Cordova D-8	23b	Tatitlek Narrows	221-50-11070	139	Ps
28	T11S R8W CRM	Cordova D-7 Cordova D-8	23c	Galena Bay & the Lagoon	221-50-11140 221-50-11150 221-50-11160 221-50-11170	485	Ps Ps Ps, CHs Ps, CHs
29	T11S R8W CRM	Cordova D-7 Cordova D-8	23c	Galena Bay	221-50-11170	154	Ps, CHs
30	T10S R8W CRM	Cordova D-8	23j	Valdez Arm	221-50-11200	154	Ps, CHs
31	T10S R8W CRM	Valdez A-8	22d	Jack Bay	221-50-11210	212	Ps, CHs
32	T10S R8W CRM	Valdez A-7	22d	Jack Bay	221-50-11220 221-50-11230	143	Ps, CHs
33	T10S R7W CRM	Valdez A-7	22h	Jack Bay	221-50-11270	462	Ps, CHs
34	T10S R8W CRM	Valdez A-7	22f	Jack Bay	221-50-11290	278	Ps, CHs
35	T9S R7W CRM	Valdez A-7	21u	Port Valdez	221-60-11310	124	Ps, CHs
36	T9S R7W CRM	Valdez A-7	21t	Port Valdez	221-60-11330	146	Ps, CHs
37	T9S R6W CRM	Valdez A-6 Valdez A-7	21t	Port Valdez	221-60-11370	727	Ps, CHs, Cos, Ss
38	T8S R6W CRM	Valdez A-7	21f	Port Valdez	221-60-11440	133	Ps, CHs
39	T8S R6W CRM	Valdez A-7	21f	Port Valdez	221-50-11450	673	Ps, CHs
40	T8S R7W CRM	Valdez A-7		Port Valdez	221-50-11470	227	Ps, CHs, Cos, Ss
41	T9S R9W CRM	Valdez A-8	22c	Sawmill Bay	221-50-11520 221-50-11530	676	Ps, CHs Ps, CHs
42	T10S R10W CRM	Cordova D-8	19c	Columbia Bay	222-10-10230	195	Ps
43	T10S R11W CRM	Seward D-1	19d	Granite Cove	222-10-12080	257	Ps
44	T11S R11W CRM	Seward D-1	19g	Useless Cove	222-10-12090 222-10-12100	298	P P, CH
45	T10S R11W CRM T11N R12E SM	Anchorage A-1 Seward D-1	19g	Long Bay	222-10-12130 222-10-12140	543	Ps, CHs Ps, CHs

Estuary	Legal Description	USGS Quad	Unit	Location	Associated ADF&G Anadromous Stream# ¹	Acreage #'s	Salmon Values ²
46	T11N R12E SM	Anchorage A-1	19g	Long Bay	222-10-12157	254	Ps, CHs, DVsr
	T10N R12E SM	Seward D-1			222-10-12160		
47	T10N R12E SM	Seward D-1	19g	Long Bay	222-10-12180	494	P,S,CO
48	T10N R12E SM	Seward D-1	19f	Eickelberg Bay	222-10-12210	172	P,CH
49	T9N R12E SM	Seward D-2	18g	Fairmount Bay	222-20-12242	415	P
	T10N R12E SM						
50	T10N R11E SM	Seward D-2	18g	Granite Bay	222-20-12270	432	P,CH
	T10N R12E SM						
51	T10N R12E SM	Seward D-2	18g	Cedar Bay	222-20-12290	267	P,CH
		Seward D-1					
52	T11N R11E SM	Anchorage A-2	18c	Wells Bay	222-20-12335	668	Ps, CHs
					222-20-12338		Ps, CHs
					222-20-12340		Ps, CHs
					222-20-12320		Ps
53	T11N R11E SM	Anchorage A-2	18b	Unakwik Inlet	222-50-12420	117	Ps, Ssr, CO, CT, DV
54	T10N R10E SM	Seward D-2	18e	Siwash Bay	222-20-12640	501	P,CH
					222-20-12642		Ps
					222-20-12644		P
55	T9N R10E SM	Anchorage A-2	18c	Johna Bay	222-50-12590	542	Ps,CHs
56	T10N R10E SM	Seward D-2	18g	Unakwik Inlet	222-20-12650	94	P,CH
138	T9N R10E SM	Seward D-2	18g	Schoppe Bay	222-30-12730	243	P, CH
57	T9N R10E SM	Seward D-2	18g	Eaglek Bay	222-30-12760	166	P, CH
58	T10N R10E SM	Seward D-2	18g	Eaglek Bay	222-30-12770	65	P, CH
58a	T10N R10E SM	Seward D-2	18g	Eaglek Bay	222-30-12780	65	P, CH
59	T10N R10E SM	Seward D-2	18e	Eaglek Bay	222-30-12750	188	P, CH
60	T10N R10E SM	Seward D-2, D-3	18g	Eaglek Bay	222-30-12825	252	P
					222-30-12830		
61	T9N R9E SM	Seward D-3	18b	Derickson Bay	222-30-12890	158	P
62	T9N R8E SM	Seward D-3	7d	Esther Passage	222-20-13040	138	Ps, CH
	T9N R9E SM						
63	T10N R8E SM	Seward D-3	5b	Esther Passage	223-30-13080	141	Ps
64	T10N R8E SM	Seward D-3	5e	Port Wells	223-30-13110	299Ps	
65	T11N R9E SM	Anchorage A-3	5a	College Fjord	223-20-13220	483	Ps, CHs, Ssr, COsr, Ksr
66	DELETED						
67	T10N R7E SM	Seward D-4	5e	Harrison Lagoon	224-10-14140	486	P, CH

Estuary	Legal Description	USGS Quad	Unit	Location	Associated ADF&G Anadromous Stream# ¹	Acreage # ^{'s}	Salmon Values ²
68	T10N R7E SM	Seward D-4	5f	Hobo Bay	224-10-14170	244	P, CH, COsr
69	T10N R6E SM	Seward D-4	5e	Bettles Bay	224-10-14220	507	P, CH
70	T9N R6E SM	Seward D-4	5e	Humm Bay	222-20-12650	592	P, CH
	T10N R6E SM				224-10-14250		P, CH
71	T9N R6E SM	Seward D-4	5e	Pirate Cove	224-10-14280	262	P, CH
72	T9N R6E SM	Seward D-4	5e	Pigot Bay	224-10-14310	705	Ps
					224-10-14320		P, CH, Dv, COsr
73	T9N R6E SM	Seward D-4	2g	Passage Canal	224-10-14350	146	P, CH
74	T8N R6E SM	Seward D-4	3	Blackstone Bay	224-10-14500	376	P, CH
					224-10-14510		P, CH
75	T7N R6E SM	Seward C-4	4b,	Shallow Cove	224-10-14540	456	P, CH
			4c	Paulson Cove	224-10-14550		P, CH
76	T6N R6E SM	Seward C-4	4c	Cochrane Bay	224-10-14590	306	P, CH
	T7N R6E SM						
77	T6N R6E SM	Seward C-4	4c	Cochrane Bay	224-10-14610	546	P, CH, S
78	T8N R7E SM	Seward C-4	4c	Cochrane Bay	224-10-14690	143	P, CH
79	T7N R7E SM	Seward C-4	8g	Culross Passage	224-30-14710	96	P, CH
80	T7N R7E SM	Seward C-4	8g	Long Bay	224-30-14760	270	P, CH, CO, DV, S
81	T6N R7E SM	Seward C-4	8g	Culross Passage	224-30-14780	218	P, CH
82	T6N R7E SM	Seward C-4	11	Port Nellie Juan	224-30-14800	315	P, CH
83	T6N R6E SM	Seward C-4	11	East Finger Inlet	224-40-14840	282	P, CH
84	T6N R6E SM	Seward C-4	11	West Finger Inlet	224-40-14850	346	P, CH
85	T5N R7E SM	Seward C-4	11	Port Nellie Juan	224-40-14930	118	P, CH
86	T5N R7E SM	Seward B-4	8g	McClure Bay	224-40-14980	306	P, CH
		Seward C-4					
87	T5N R7E SM	Seward B-4	8g	McClure Bay	224-40-14980	106	P, CH
		Seward C-4					
88	T5N R8E SM	Seward B-3	10c	Eshamy Bay	225-30-15060	154	P, CH
89	T5N R8E SM	Seward B-3	13a	Eshamy Bay	225-30-15070	120	P, S
90	T4N R8E SM	Seward B-3	13a	Eshamy Bay	225-30-15110	1007	P, CH, CO, S, DV
91	T4N R8E SM	Seward B-3	13c	Paddy Bay	226-20-16010	576	P, CH
					226-20-16020		P
92	T4N R7,8E SM	Seward B-4	13c	Ewan Bay	226-20-16030	529	P, CH, S
	T3N R7,8E SM				226-20-16040		P, CH

Estuary	Legal Description	USGS Quad	Unit	Location	Associated ADF&G Anadromous Stream# ¹	Acreage #'s	Salmon Values ²
93	T3N R7E SM	Seward B-4	13a	Jackpot Bay	226-20-16078 226-20-16080 226-20-16090 226-20-16120 226-20-16130	1165	P P, S, DV P P P, CH S
94	T3N R8E SM	Seward B-3	13k	Dangerous Passage	226-20-16210	243	P, CH
95	T3N R8E SM	Seward B-3	13c	Dangerous Passage	226-20-16230	195	P, CH
96	T2N R7E SM T1N R7E SM	Seward A-4	12b	Whale Bay	226-20-16300	1146	P, CH, S
97	T2N R7E SM	Seward A-4	12b	Whale Bay	226-20-16320	193	P
98	T1N R7E SM	Seward A-4	12b	Whale Bay	226-20-16330 226-20-16340 226-20-16350	792	P, CH P, CH P, CH
99	T1N R8E SM T1S R8E SM	Seward A-3	14	Bainbridge Passage	226-40-16550 226-40-16560	454	S, P P
100	T1S R7E SM	Seward A-4	14	Hogg Bay	226-40-16530	217	P, CH
661	T1S R8E SM	Seward A-3	13k	Shelter Bay	226-40-16610	60	Ps
665	T1S R8E SM	Seward A-3	13k	Bjoro Creek	226-40-16650	55	P
101	T1S R8E SM	Seward A-3	13e	Sawmill Bay	226-40-16665	292	P
102	T2S R8E SM	Blying Sound D-3	13K	Mongtomery Bay	226-50-16710	120	P
103	T2S R8E SM T2S R9E SM	Blying Sound D-3 Seward A-3	13k	Latouche Passage	226-40-16730 226-40-16740	213	P Ps
104	T2S R0E SM	Seward A-3	13g	Horseshoe Bay	226-40-16760	143	P
105	T1S R9E SM T2S R9E SM	Seward A-3	13f	Wilson Bay	226-40-16770	148	Ps
106	T2N R10E SM	Seward B-3	16f	Snug Harbor	226-20-16820	259	P
107	T3S R10E SM	Blying Sound D-1 & D-4 Blying Sound D-3	24d	MacLeod Harbor	227-10-17020 227-10-17030 227-10-17070	604	P Ps P
108	T2S R10E SM T3S R10E SM	Blying Sound D-1 & D-2	24g	Banning Bay	227-10-17100 227-10-17110	557	P P
109	T1S R11E SM T2S R11E SM	Seward A-2	24g	Montague Strait	227-10-17170 227-10-17180 227-10-17190	546	P Ps Ps

Estuary	Legal Description	USGS Quad	Unit	Location	Associated ADF&G Anadromous Stream# ¹	Acreage #'s	Salmon Values ²
110	T1S R11E SM T1S R12E SM	Seward A-2	24g	Montague Strait	227-10-17260 227-10-17270 227-10-17280 227-10-17290	348	P, Ch P P Ps
111	T1N R12E SM	Seward A-1	24g	Montague Strait	227-20-17374 227-20-17380	133	P P
112	T1N R12E SM	Seward A-1	24g	Montague Strait	227-20-17390	185	P, CH, DV
113	T2N R12E SM T2N R13E SM	Seward A-1	24c	Port Chalmers	227-20-17410	586	P, CH
740	T1N R12E SM	Seward A-1	24g	Kelez Creek	227-20-17400	60	Ps
114	T2N R13E SM	Seward A-1 Seward B-1	24c	Port Chalmers	227-20-17440 227-20-17450 227-20-17460 227-20-17464	517	P, CH, CO P, CH P, CH P, CH
115	T2N R13E SM	Seward B-1	24c	Montague Strait	227-20-17480 227-20-17490	489	P P
116	T3N R13E SM	Seward B-1	24c	Stockdale Harbor	227-20-17520 227-20-17530 227-20-17546	456	P Ps P
117	T3N R13E SM T3N R14E SM	Seward B-1	24b	Rocky Bay	227-20-17584 227-20-17590	635	P, CO Ps, CT, CO, S
118	T2N R13E SM T2N R14E SM T3N R14E SM	Seward B-1 Cordova B-8	24a	Zaikof Bay	227-20-17660 227-20-17700 227-20-17710 227-20-17740 227-20-17750	909	P, CH Ps Ps P P
119	T18S R8W CRM	Cordova B-8	25h	Port Etches	228-60-18050	153	Ps, CHs
120	T18S R8W CRM	Cordova B-7	25f	Port Etches	228-60-18060 228-60-18070	161	Ps, CHs Ps, CHs
121	T17S R6,7W CRM T16S R6,7W CRM	Cordova B-7	25f	Port Etches	228-60-18100 228-60-18110 228-60-18120	1000	Ps, CHs Ps, CHs Ps, CHs, COs
122	T17S R9W CRM	Cordova B-8	25h	Deer Cove	228-40-18170	205	CHs, Ps, COs
123	T17S R9W CRM	Cordova B-8	25h	Hinchinbrook Entrance	228-50-18180	106	Ps, CHs, COs

Estuary	Legal Description	USGS Quad	Unit	Location	Associated ADF&G Anadromous Stream# ¹	Acreage # 's	Salmon Values ²
124	T16S R8W CRM T17S R8W CRM	Cordova B-8	25d	Shelter Bay	228-50-18190	417	P, COsr, CTsr
125	T16S R7W CRM T16S R8W CRM	Cordova B-7	25c	Anderson Bay	228-40-18270 228-40-18280	656	Ps Ps, CHs
125a	T16S R7W CRM	Cordova B-7	25c	Double Bay	228-40-18290 228-40-18310	656	Ps Ps, CHs
126	T16S R6W CRM T16S R7W CRM	Cordova B-7	25b	Hawkins Island Cutoff/Fish Bay	228-20-18330 228-20-18340	1086	Ps Ps, CHs
127	T17S R7W CRM	Cordova B-7	25b	Hawkins Island Cutoff	228-20-18350	124	Ps, CHs
128	T17S R7W CRM	Cordova B-7	25b	Dan Bay	228-20-18360 228-20-18370	394	Ps, CHs Ps, CHs, COs
129	T17S R6W CRM	Cordova B-7	25b	Hawkins Island Cutoff	228-20-18400	178	Ps
130	T17S R8W CRM T16S R8W CRM	Cordova B-7 Cordova B-8	25f	Constantine Harbor	228-60-18150	1388	Ps, CHs, COs
131	T16S R6W CRM	Cordova C-7	26e	Orca Bay	228-30-18440	172	Ps, COs, Ss, CTs, DVs
132	T15S R6W CRM	Cordova C-6	26e	Orca Bay	228-30-18460	114	Ps, COs, CTs
133	T15S R5W CRM	Cordova C-6	26c	Orca Bay	228-30-18492	183	Ps
134	T15S R5W CRM T16S R5W CRM	Cordova C-6	26c	Canoe Passage	228-30-18500 228-30-18516	687	Ps, CHs Ps
135	T15S R4W CRM T15S R5W CRM	Cordova C-6	26b	Cedar Bay	228-30-18560 228-30-18570 228-30-18580	335	COs, Ps COs, Ps Ps
136	T15S R4W CRM	Cordova C-6	26b	Windy Bay	228-30-18610	336	Ps, CTs
137	T15S R4W CRM	Cordova C-6	26e	Orca Bay	228-30-18630	141	Ps
139	T2N R12E SM	Seward B-2	24f	Northwest Green Island	227-20-17880	264	P
TOTAL						50,058 acres	

NOTE: 1. The location of the estuary is at the mouth of the identified stream.

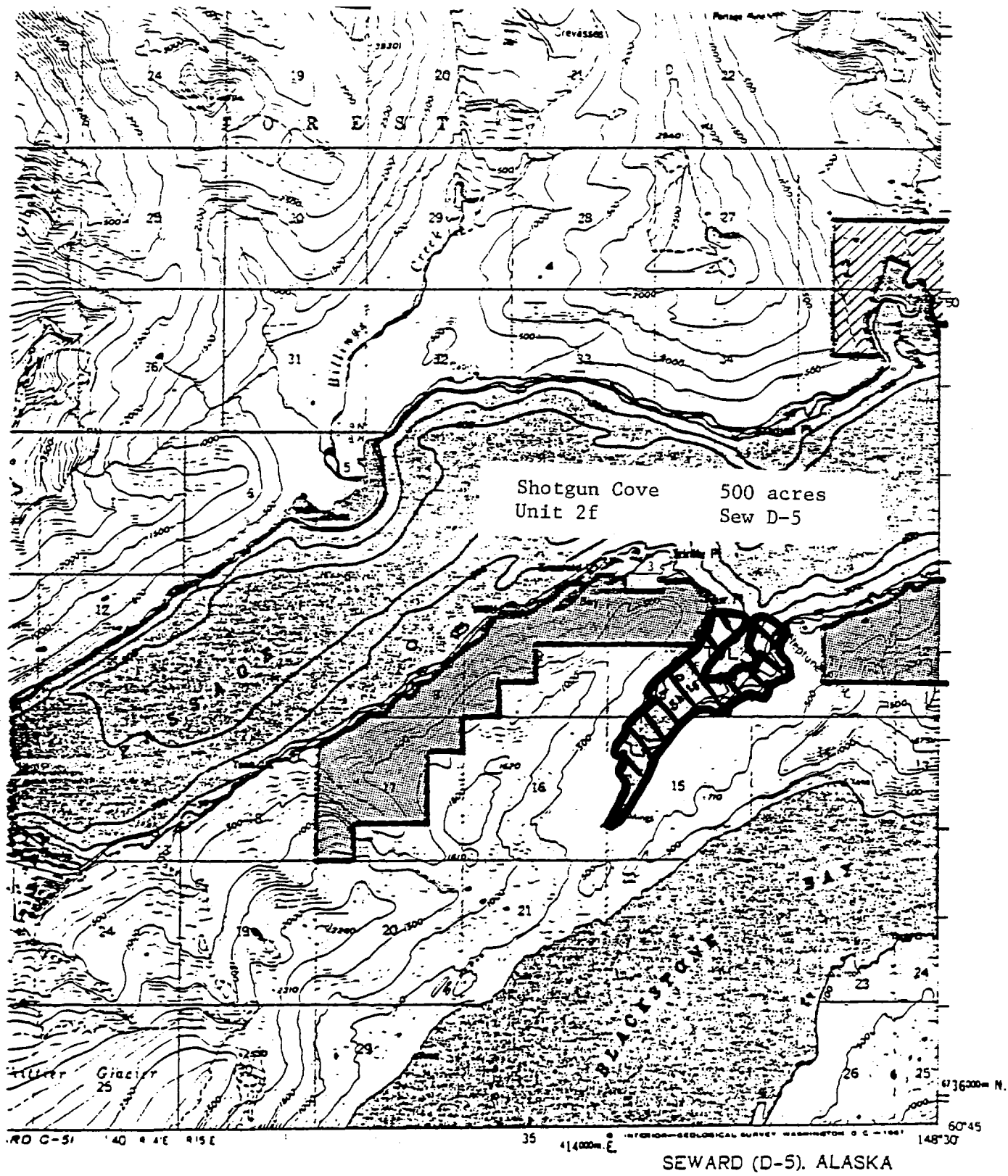
2. Abbreviations for salmon values:

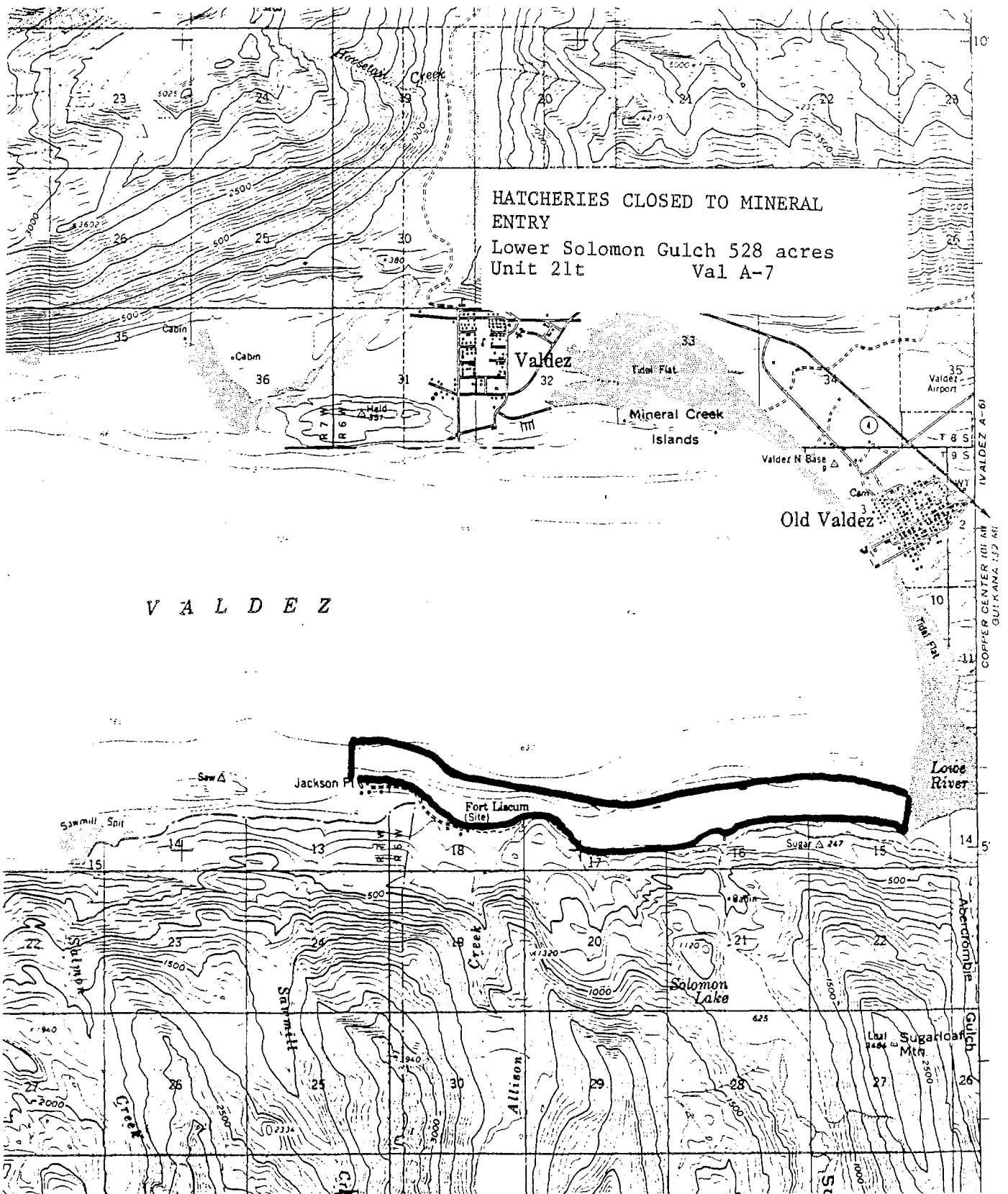
S - Sockeye; K - King; CO - Coho;

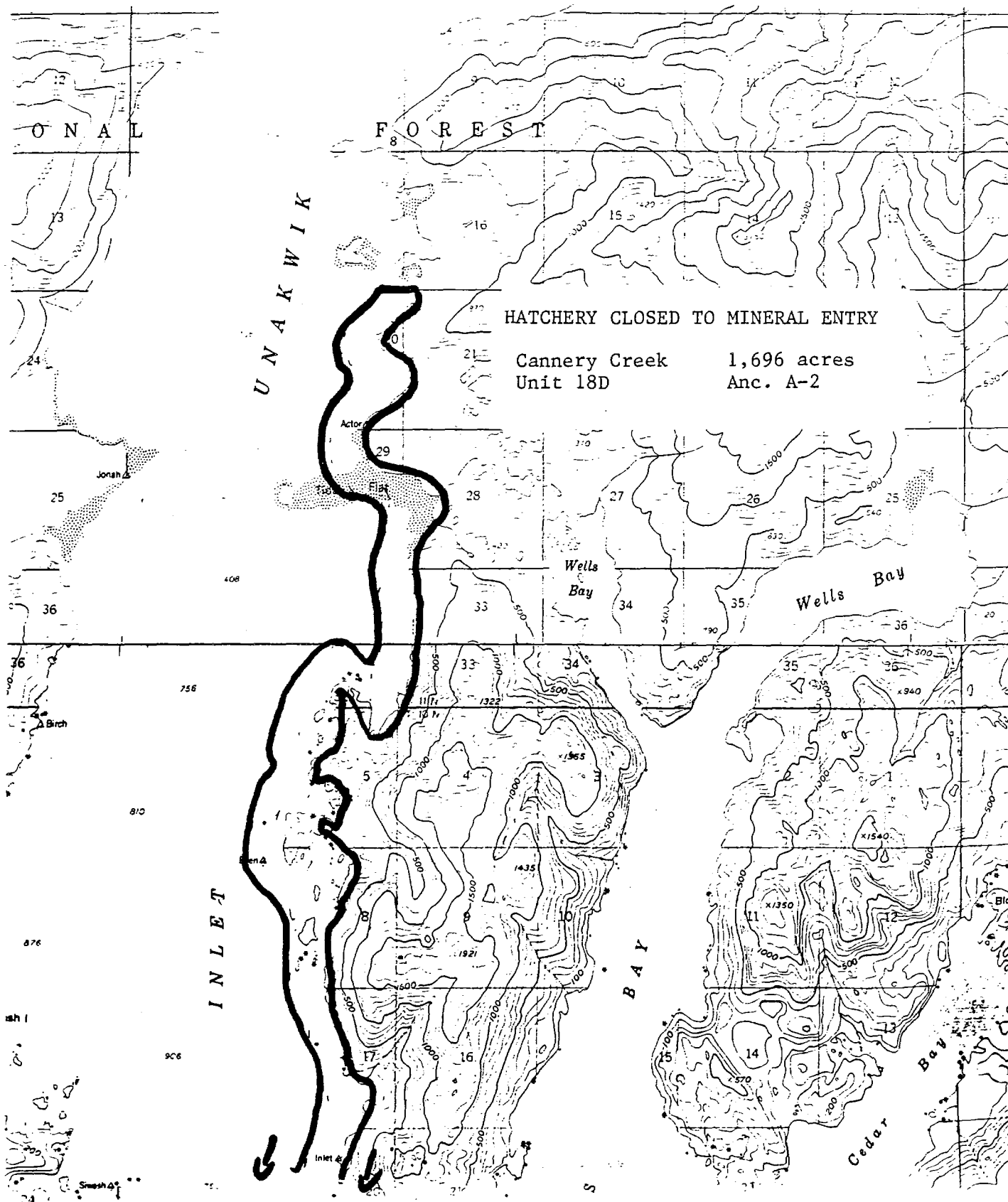
P - Pink; CH - Chum; DV - Dolly Varden;

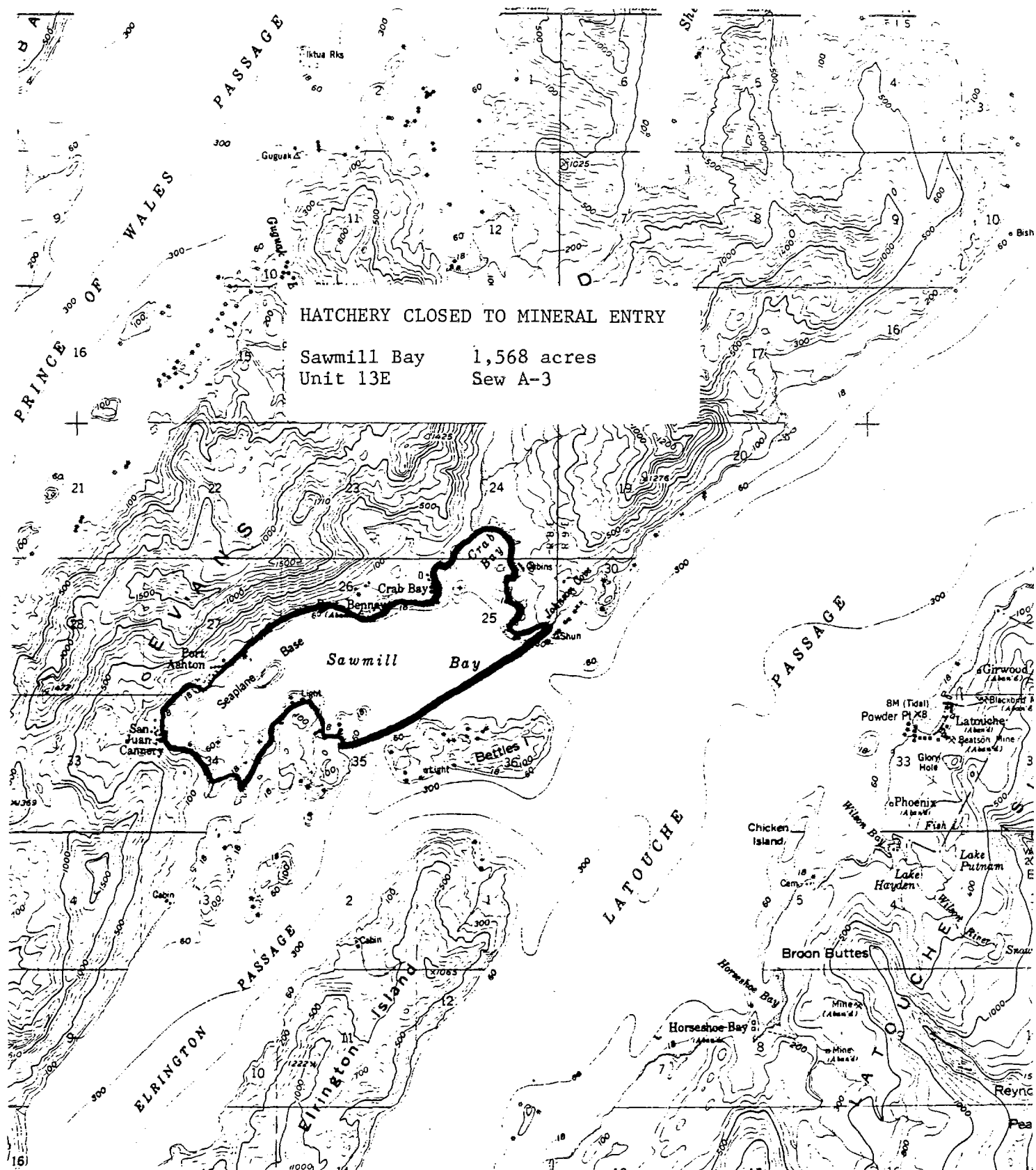
CT - Cutthroat Trout; s - known spawning;

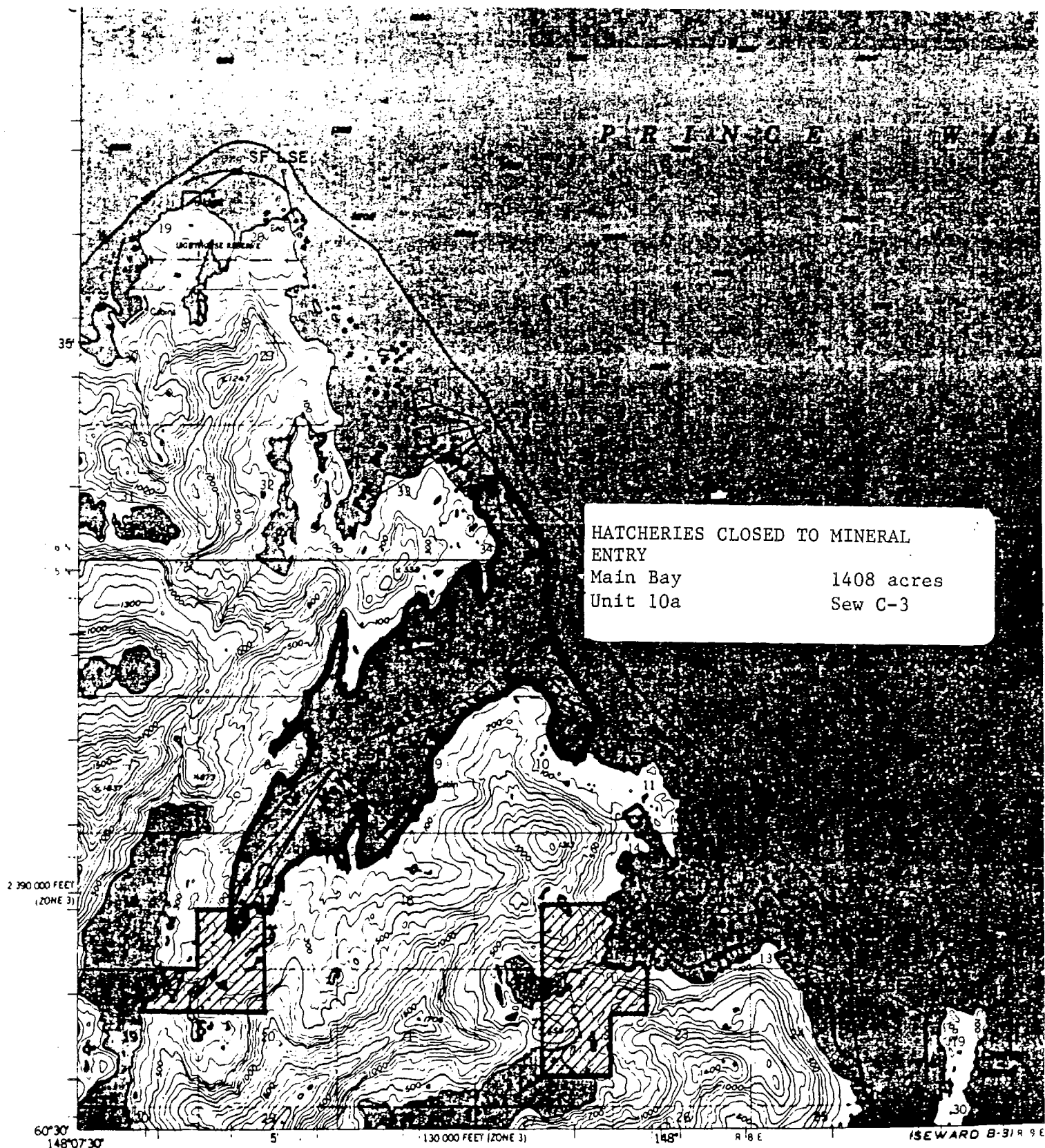
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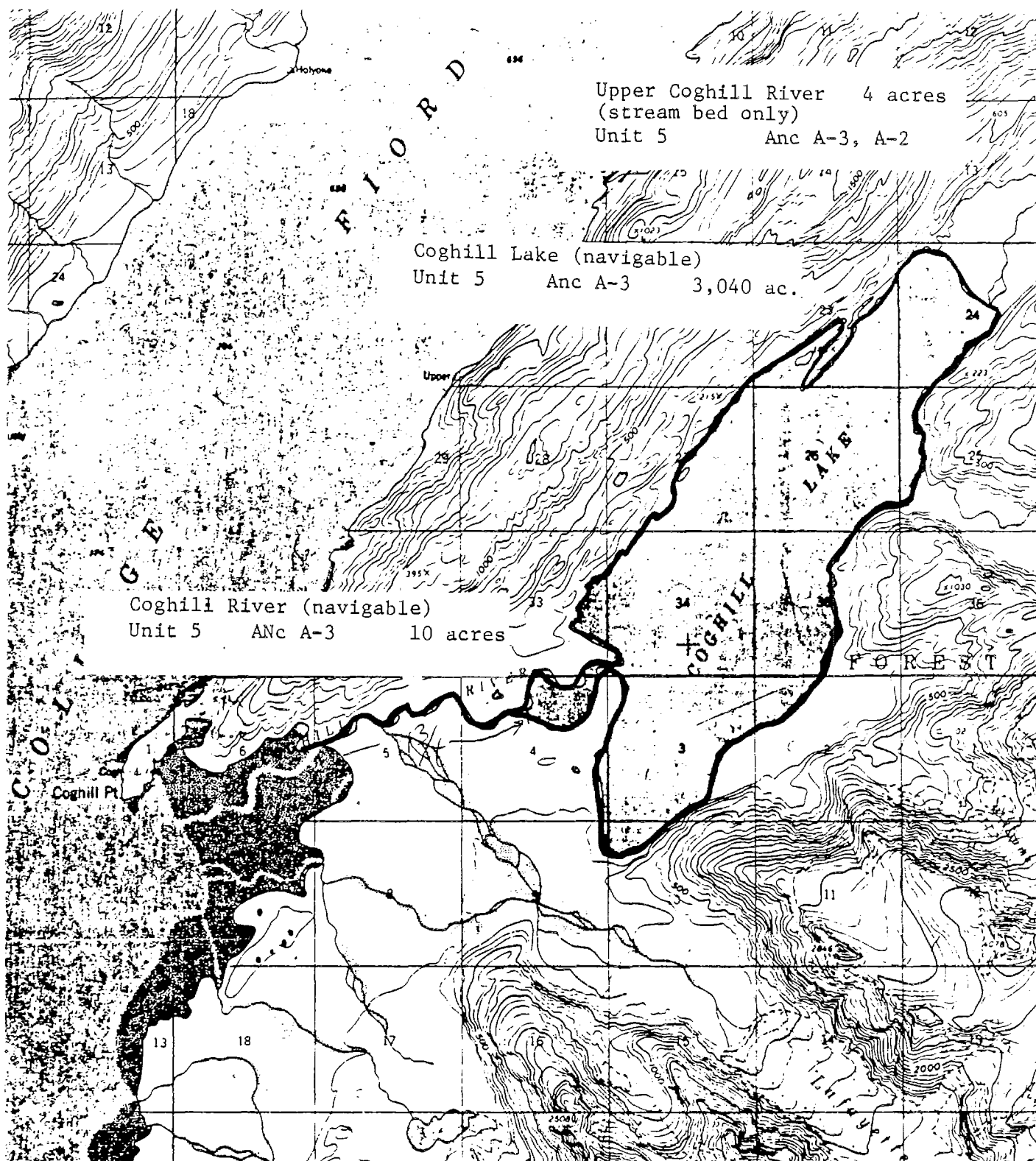


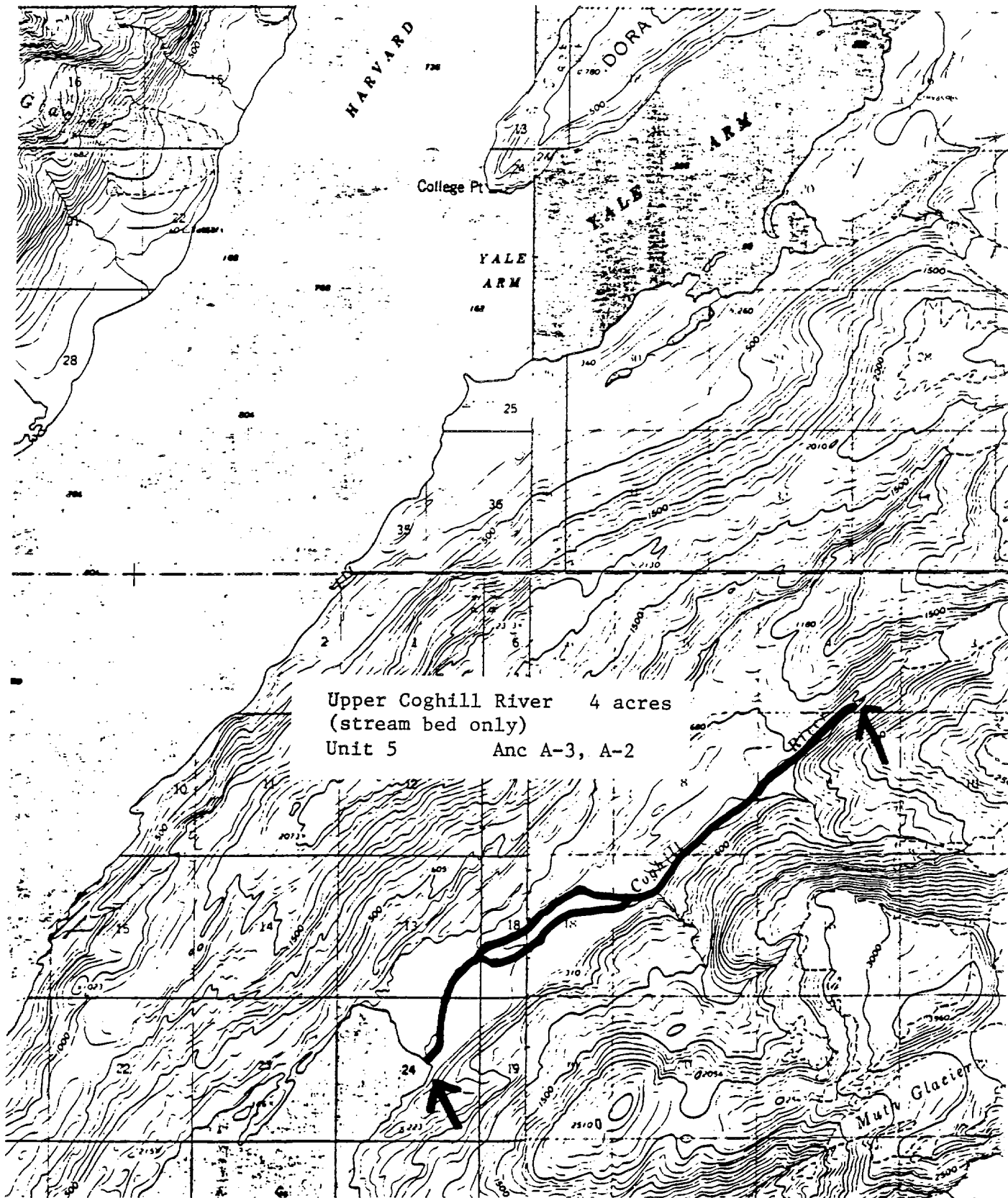


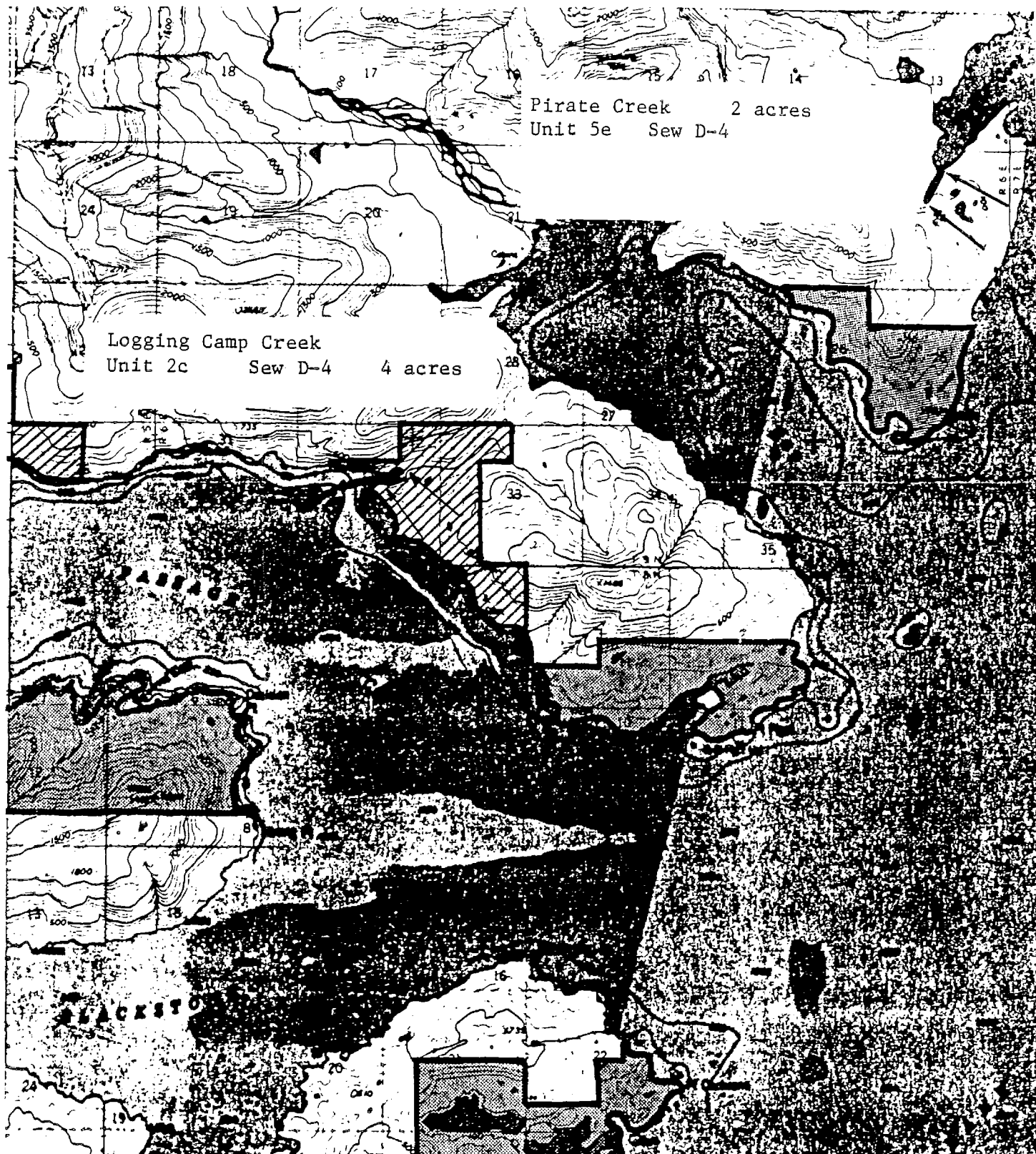


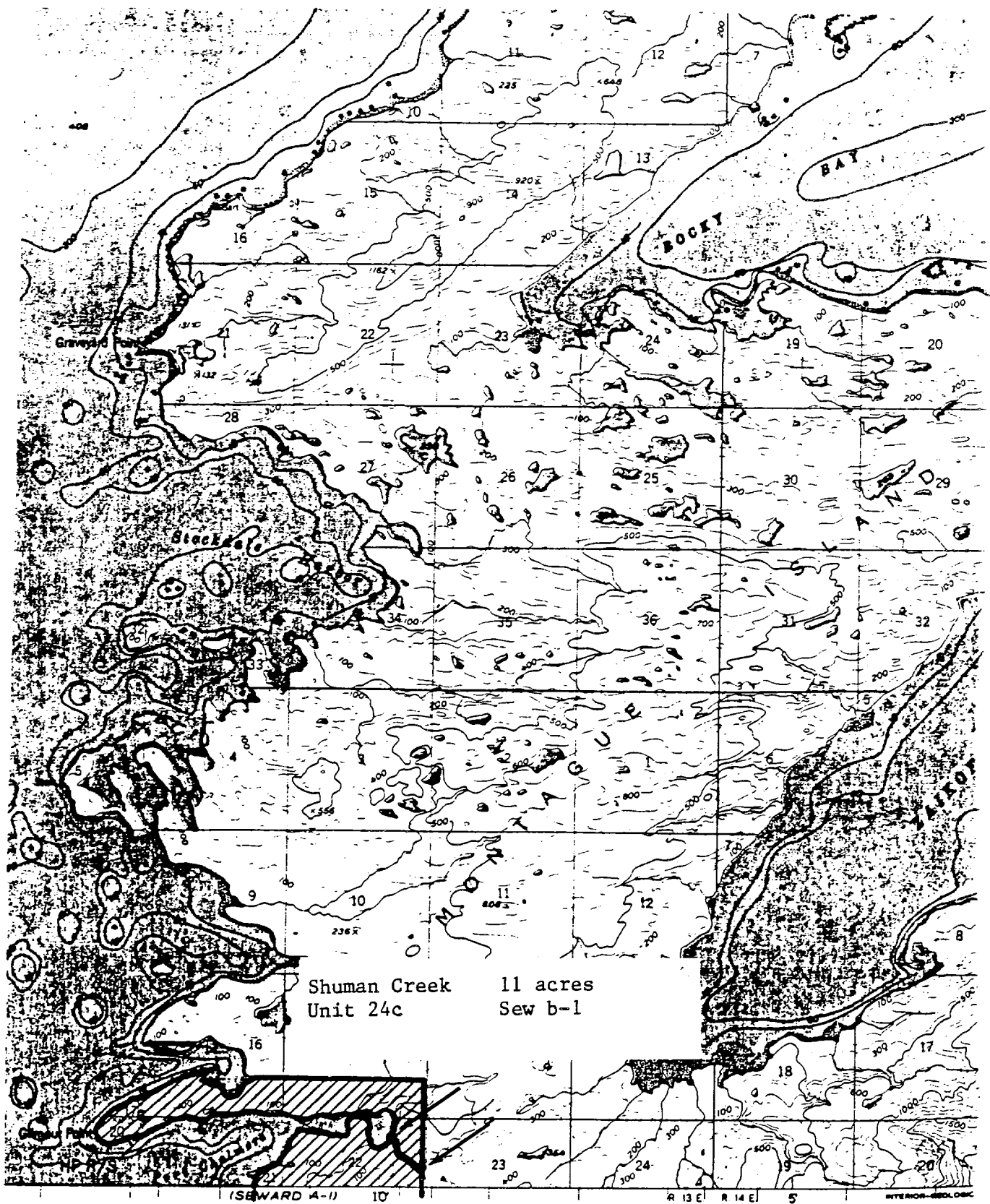


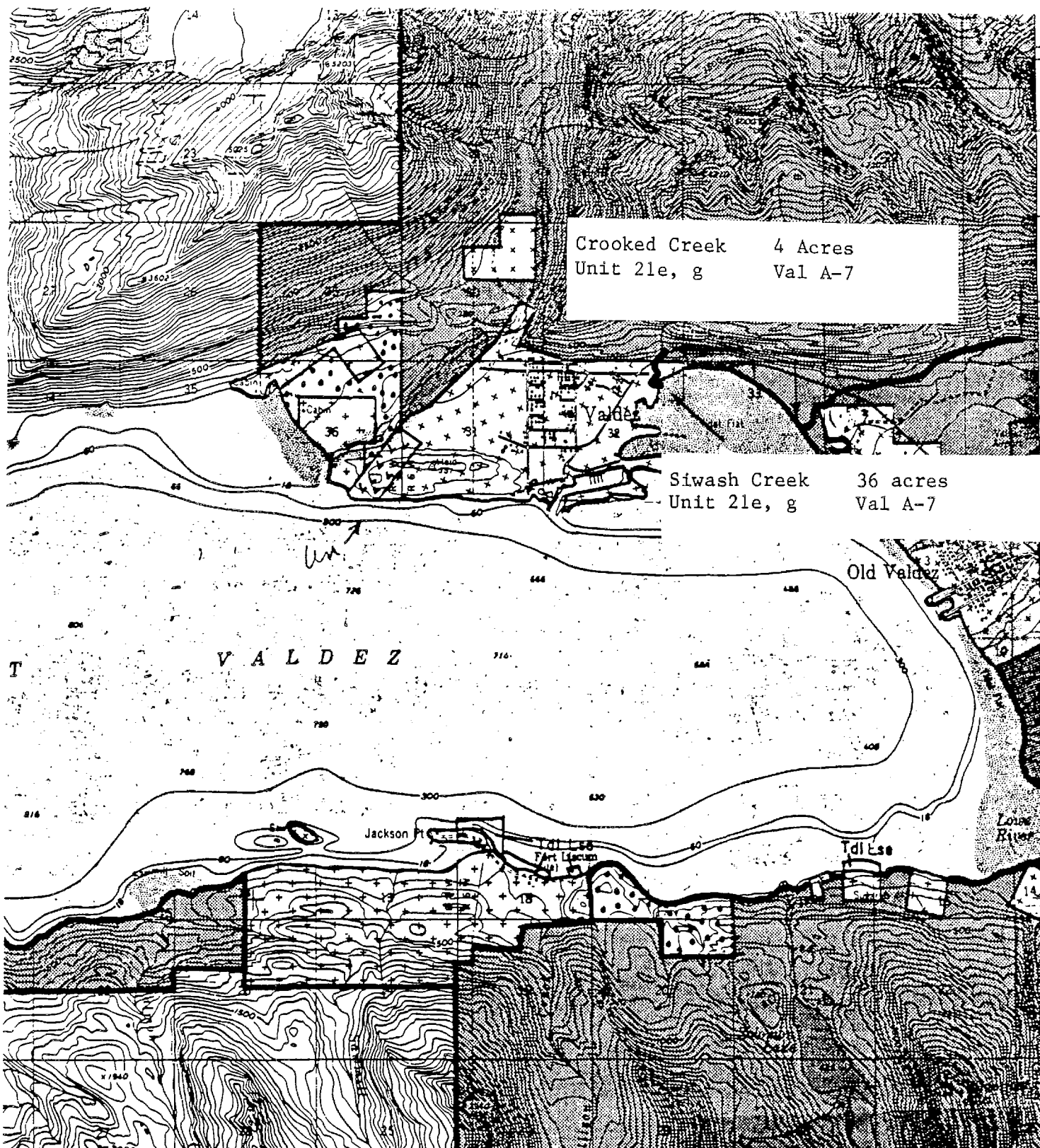


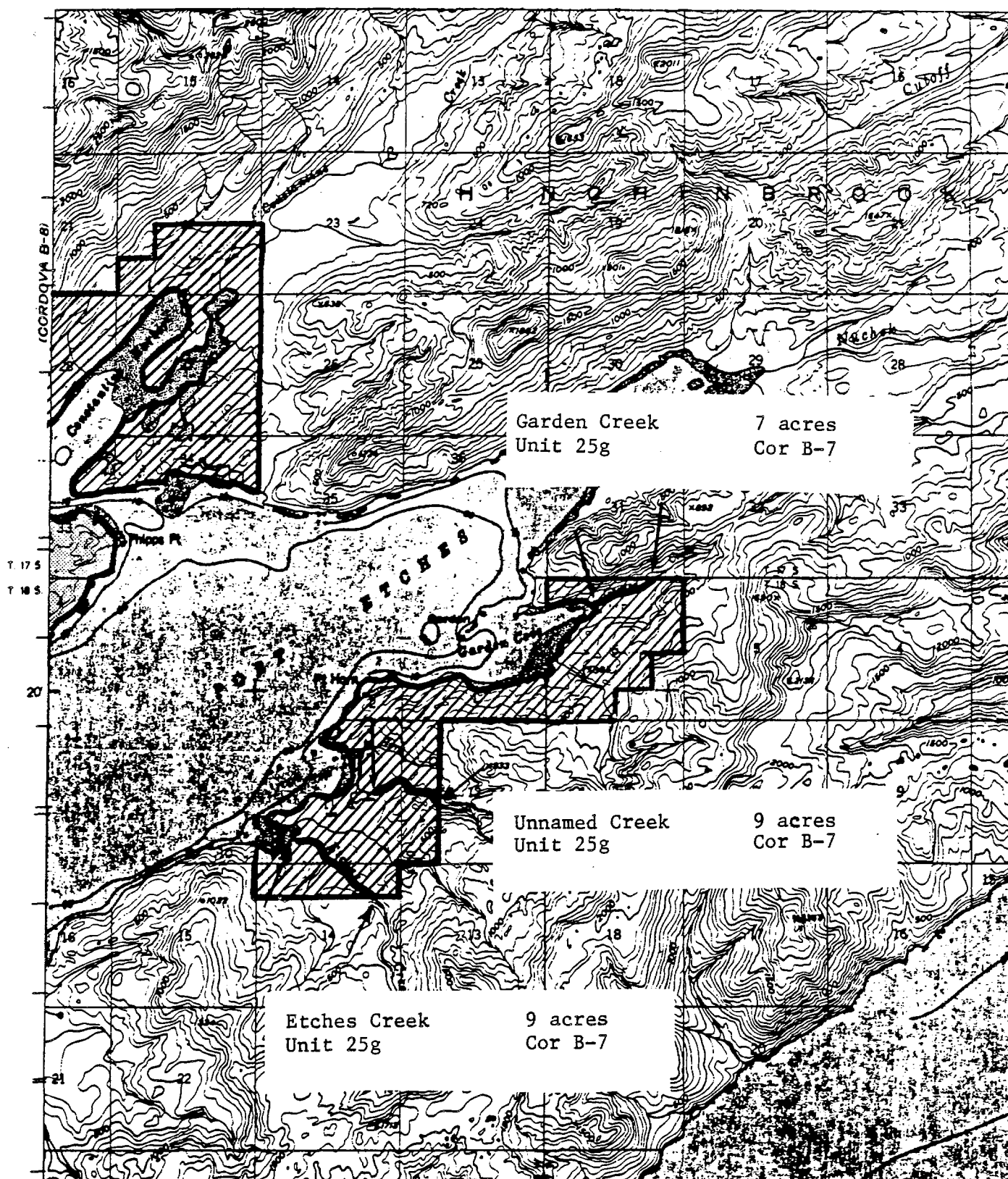


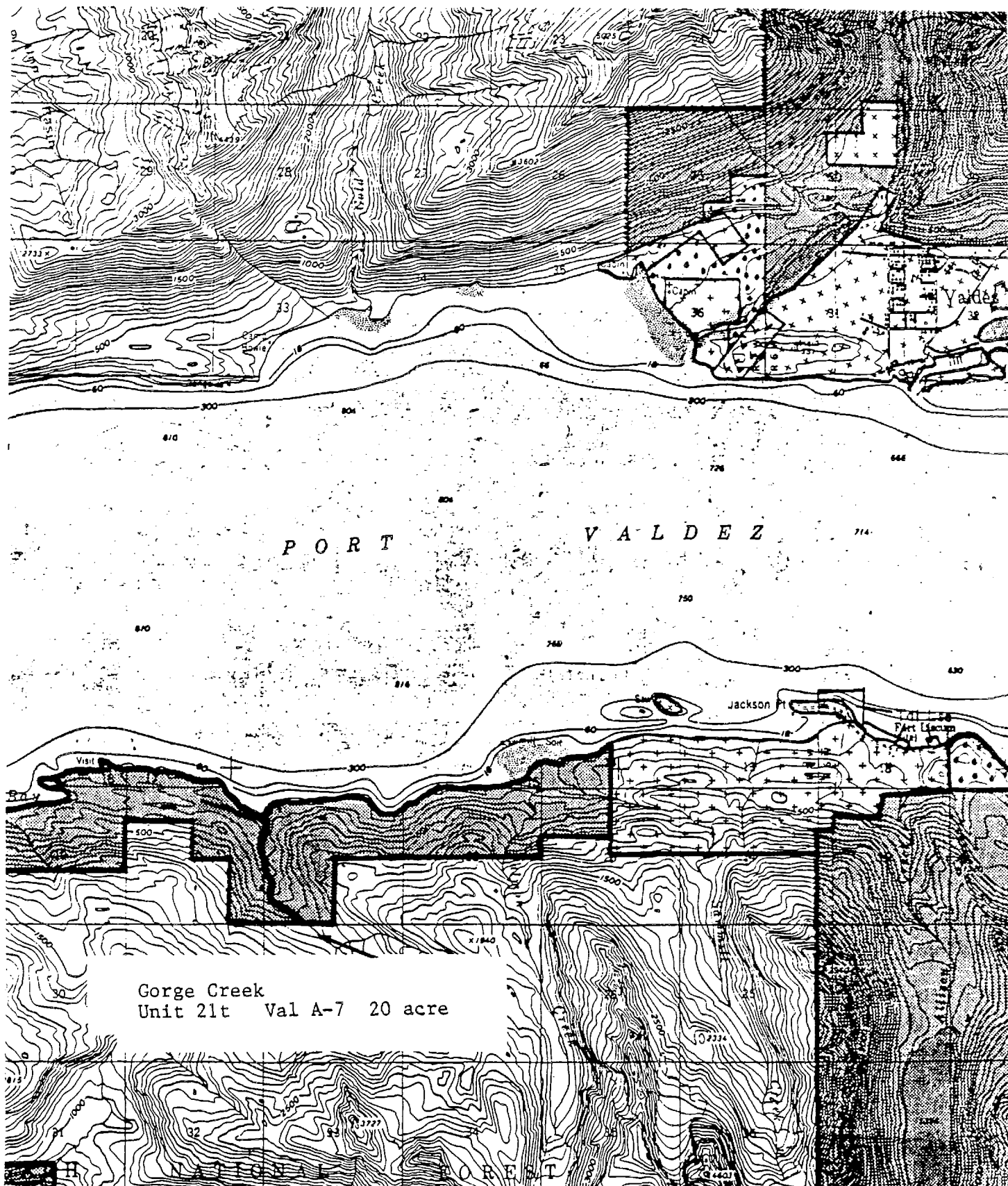


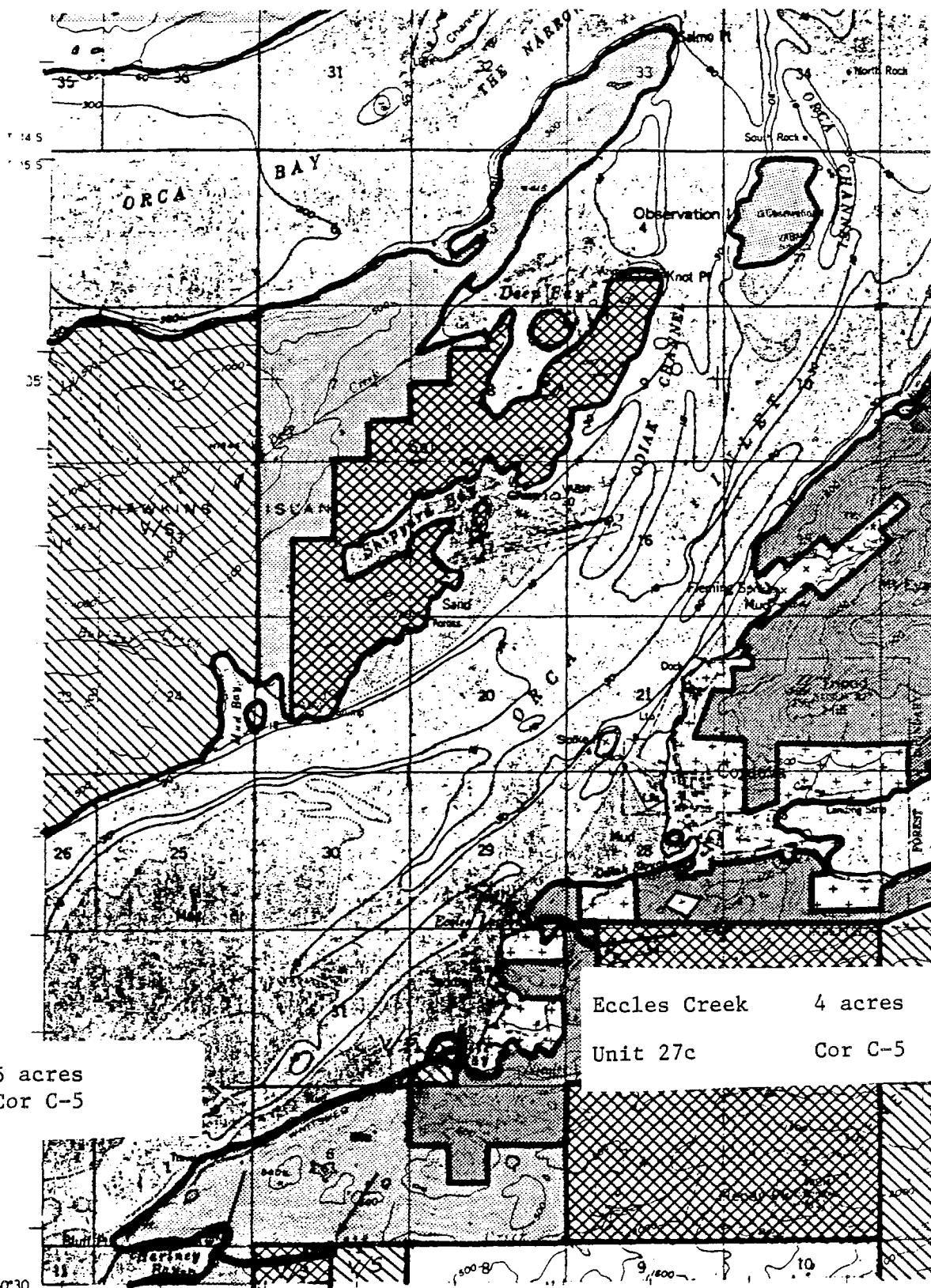










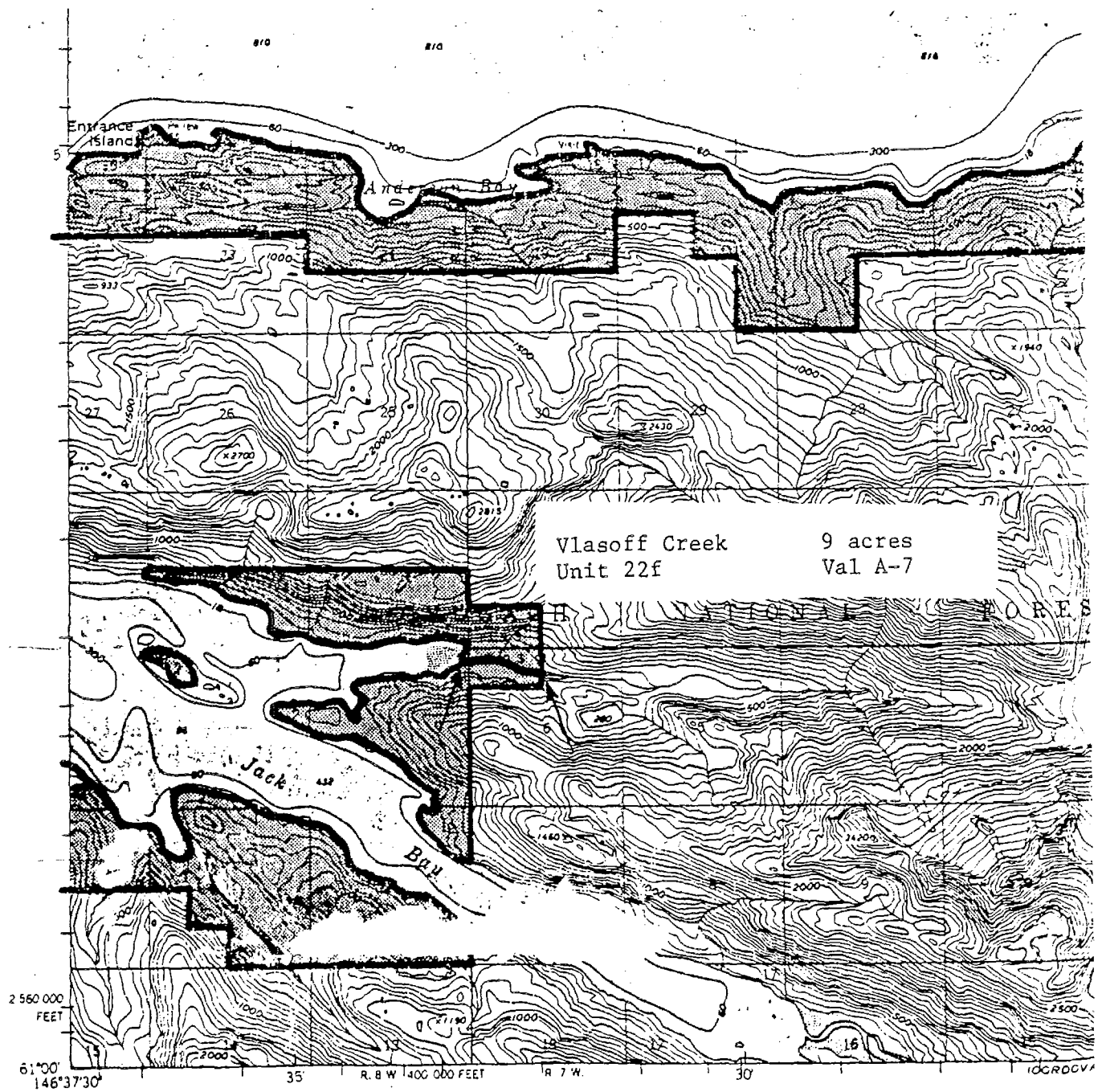


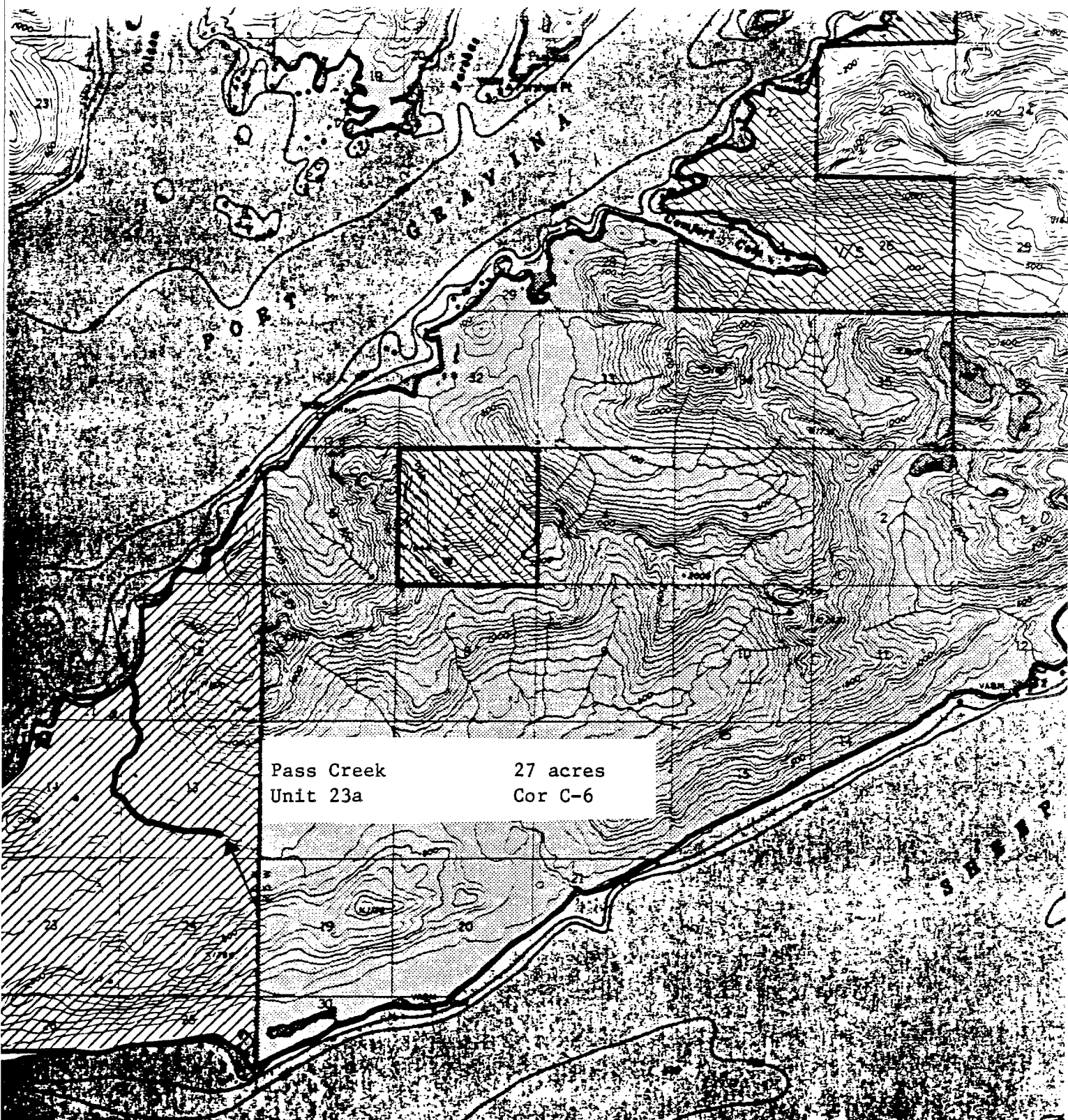
Hartney Creek
Unit 27b

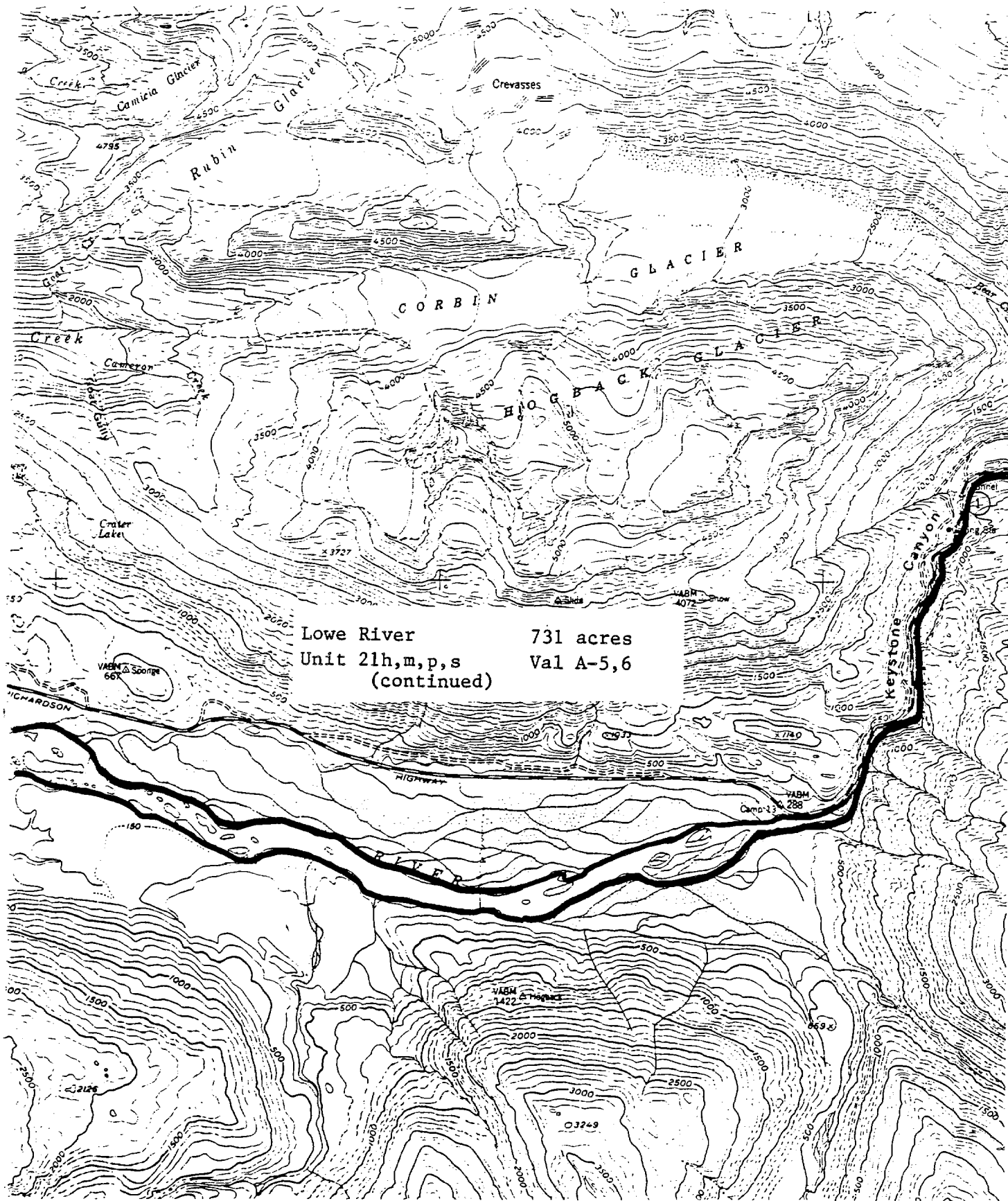
5 acres
Cor C-5

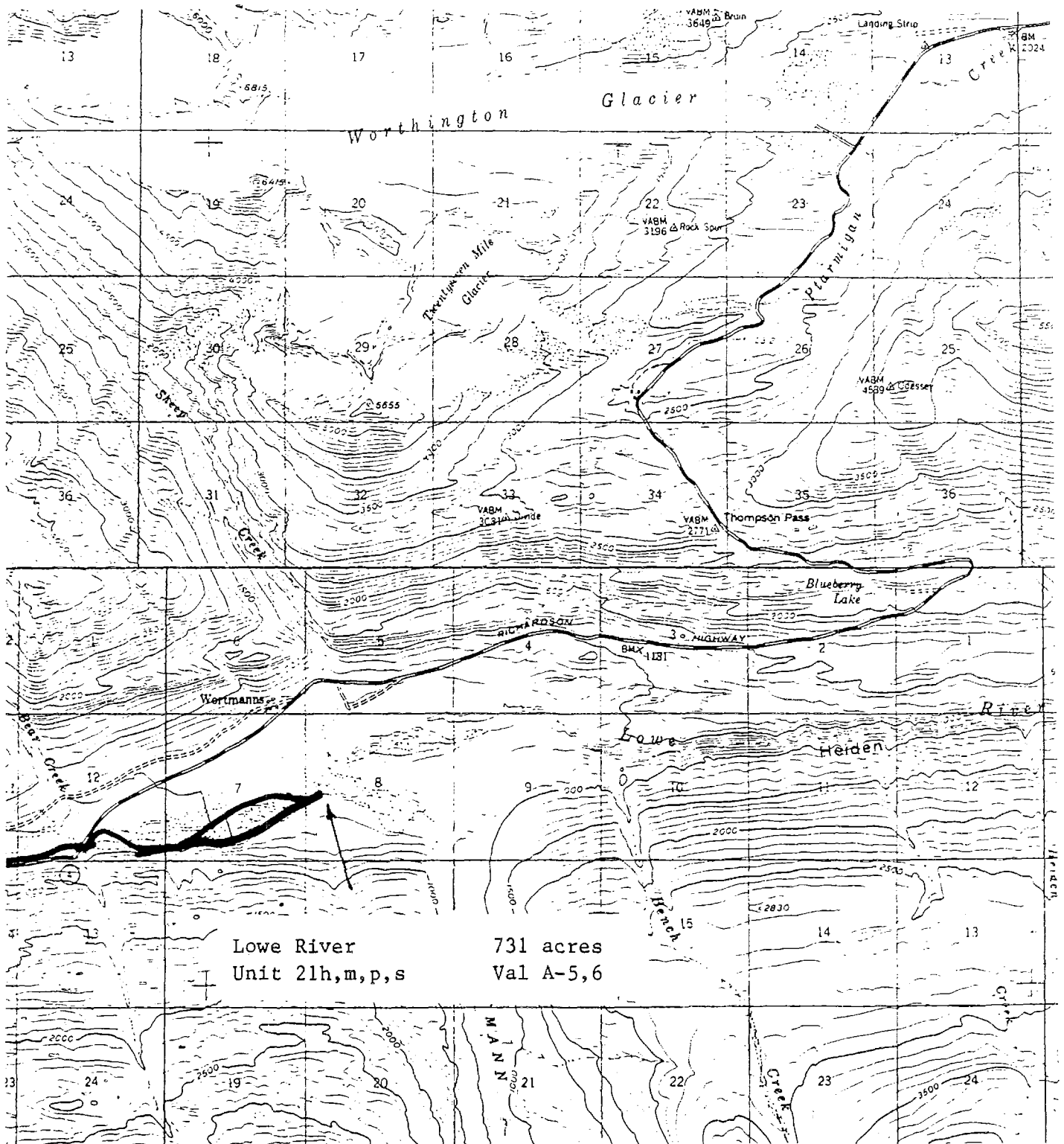
Eccles Creek 4 acres

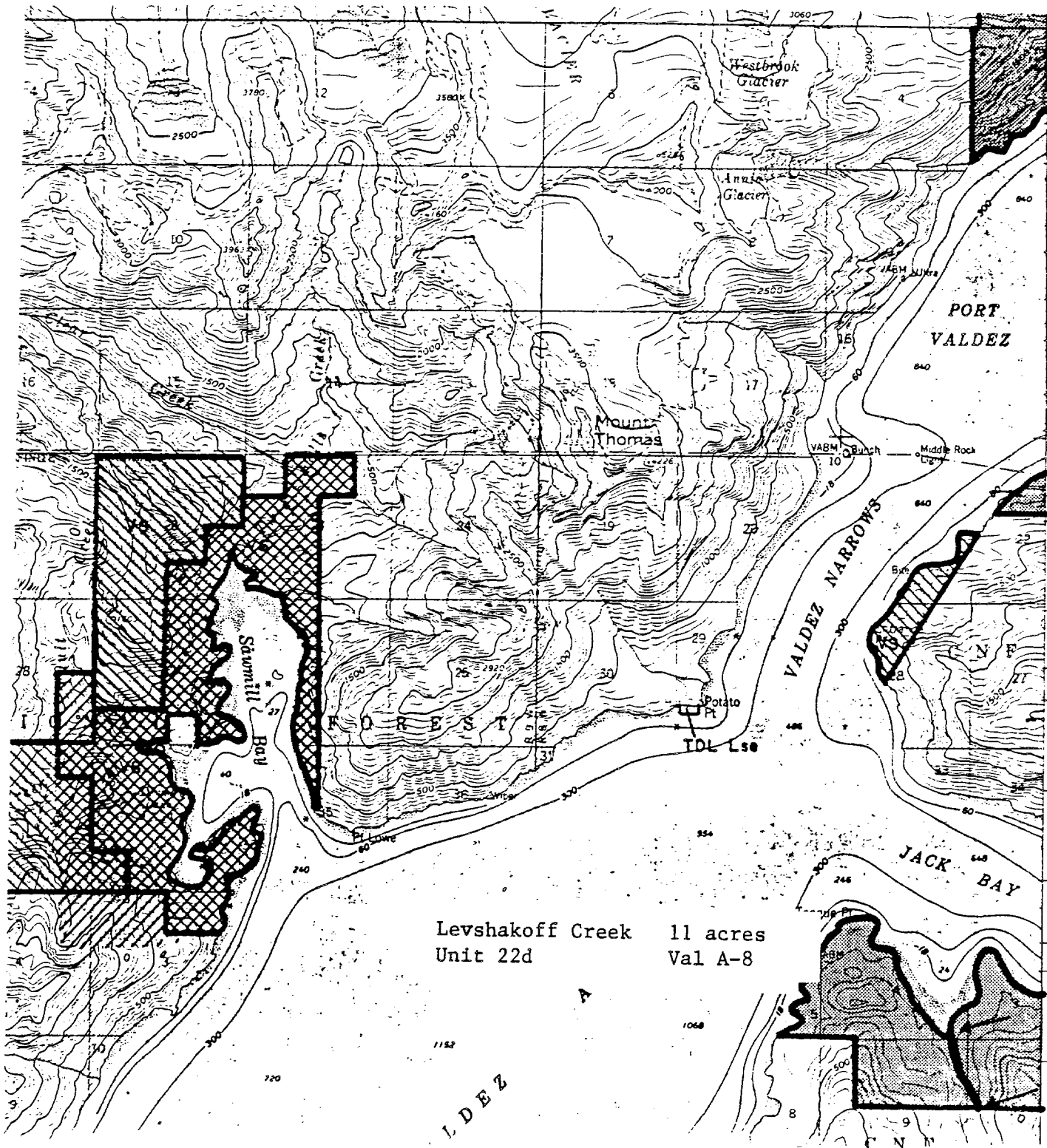
Unit 27c Cor C-5

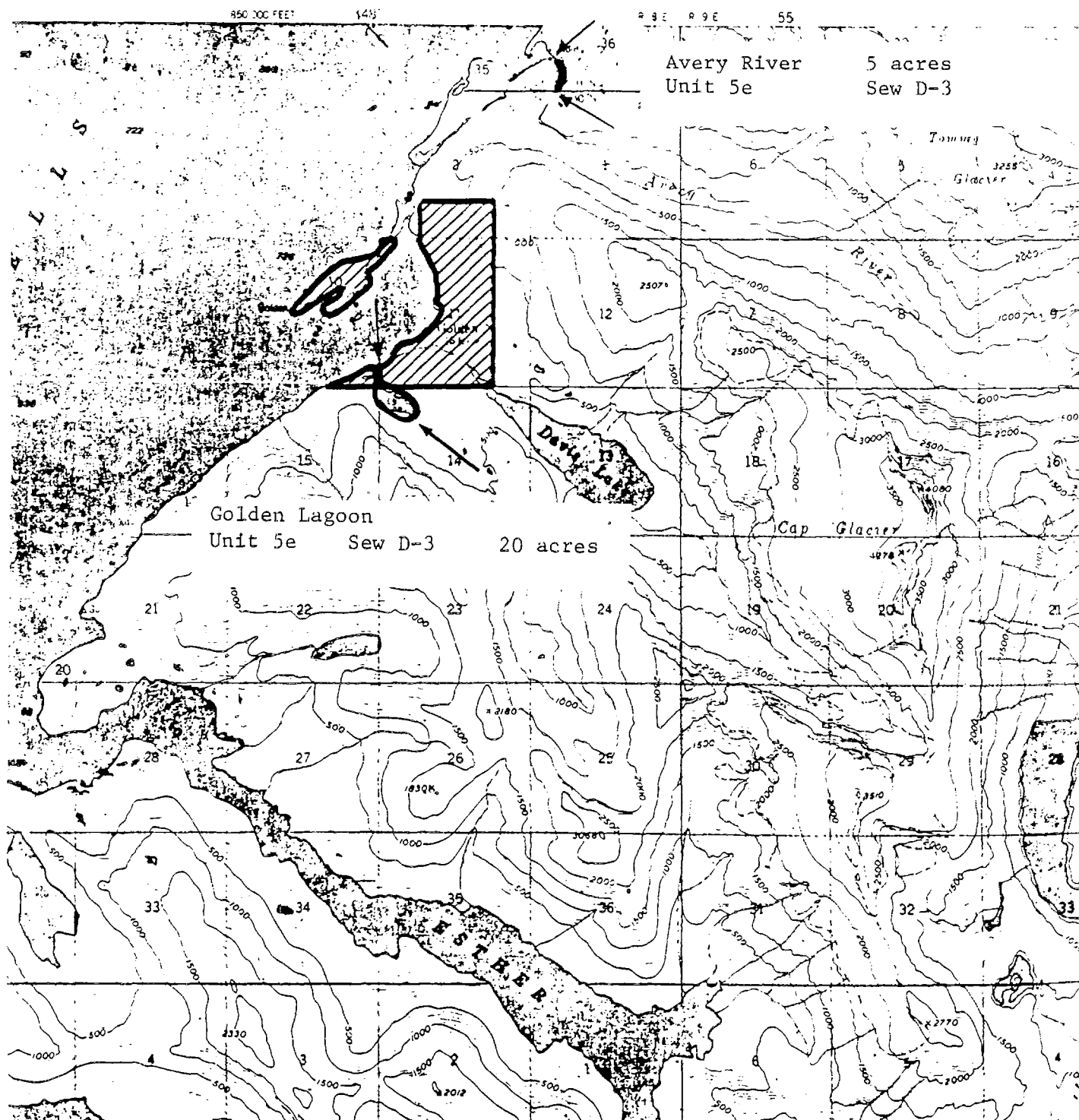












Schieman Creek
Unit 24c

2 acres
Sew A-1

