Peace River Uranium Prospect, Seward Pn.

by Munz and Straub

1953

Field Report

Candle
45-1

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ILLUSTRATIONS

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TABLES

Table 1. Equivalent Uranium Analysis on Raw and Concentrated Samples.

Table 2. Estimated Volume Percent of Minerals in Iodide Heavy Fraction.

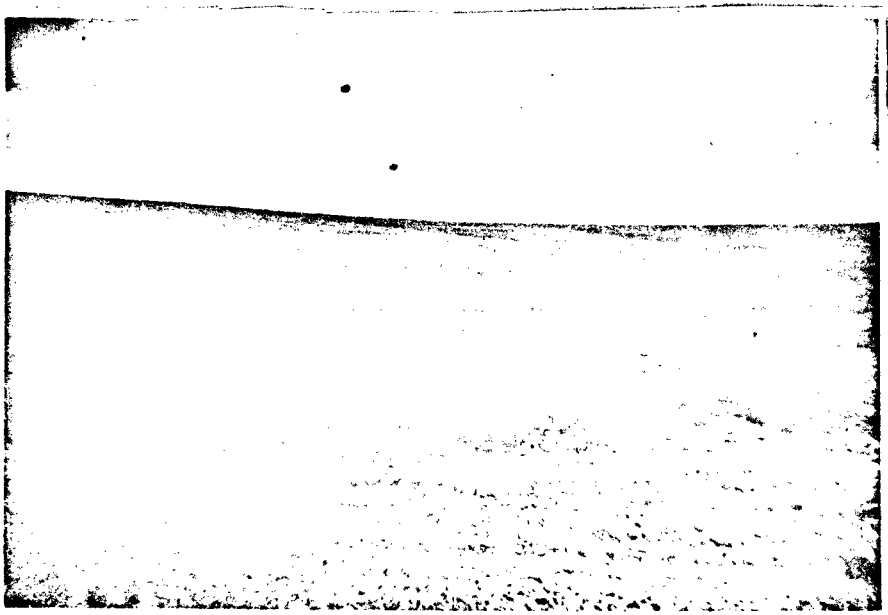

Figure 1. View, facing northeast, of the airfield constructed during the examination. A small bush-plane is located at the North end of the field.

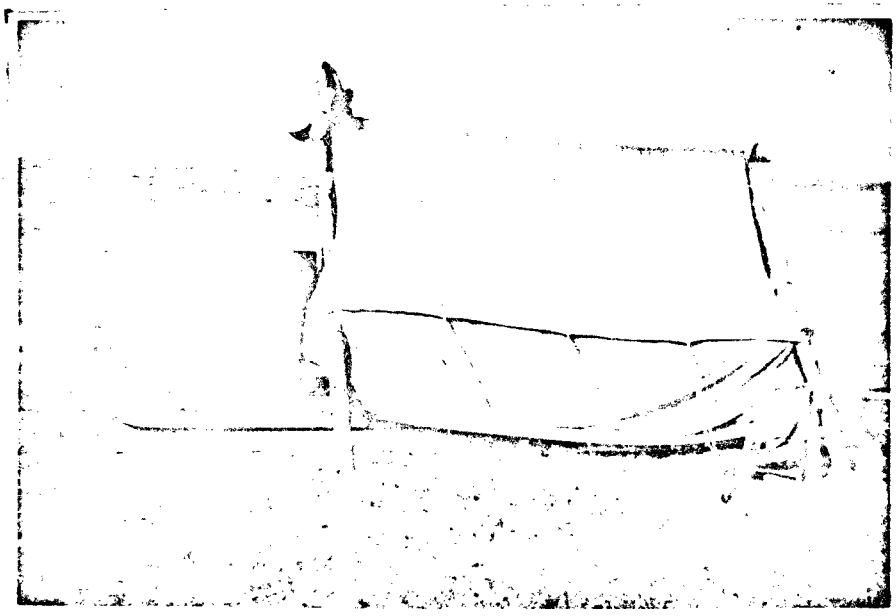

Figure 2. The Campsite located near the prospect. The welder at the front end of the Go-devil was used as a starter for the "Cat".

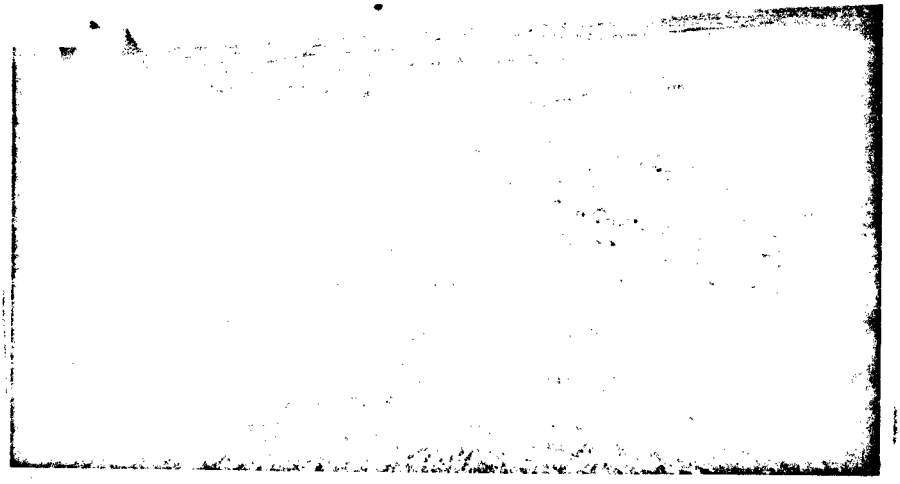

Figure 3. Trench No. 1 showing the Campsite at the head of the trench. Facing north.

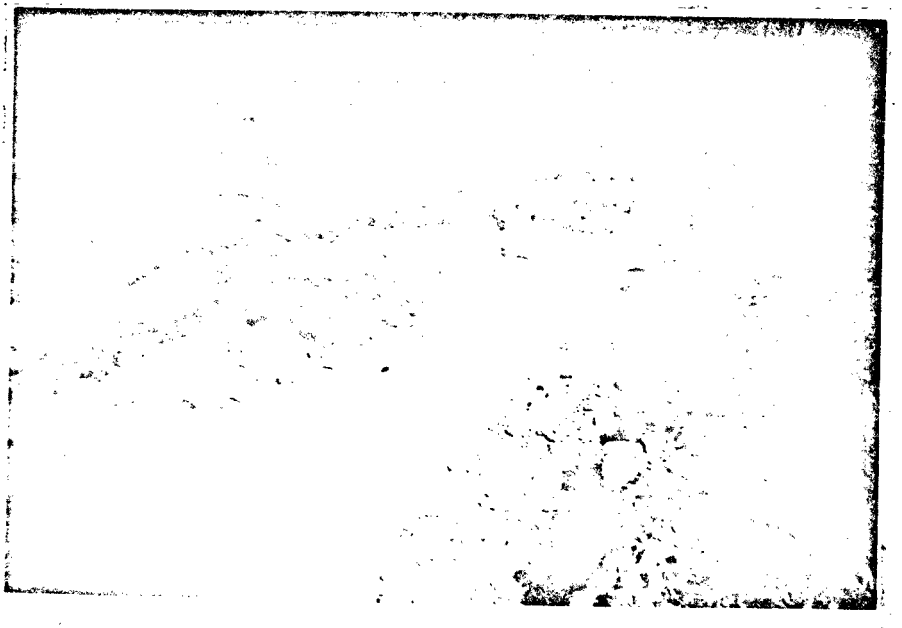

Figure 4. Another view of trench No. 1, facing down the Left Headwater Branch of the Peace River. The plane table used in the survey is in the left background.

Figure 5. Trench No. 2 showing Pit No. 2. Facing east.

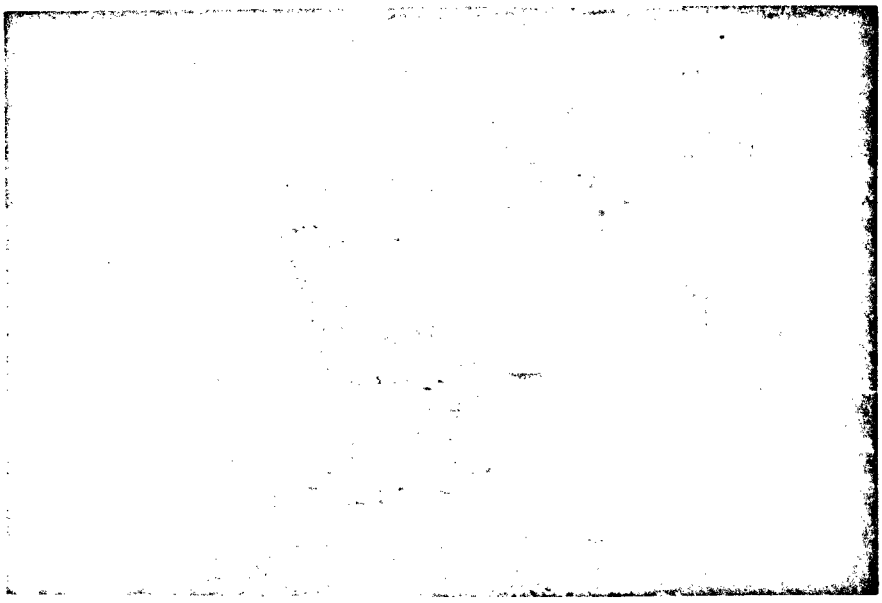

Figure 6. Trench No. 3 showing Pit No. 3. Facing east. It was from this pit that the best concentrates were recovered.

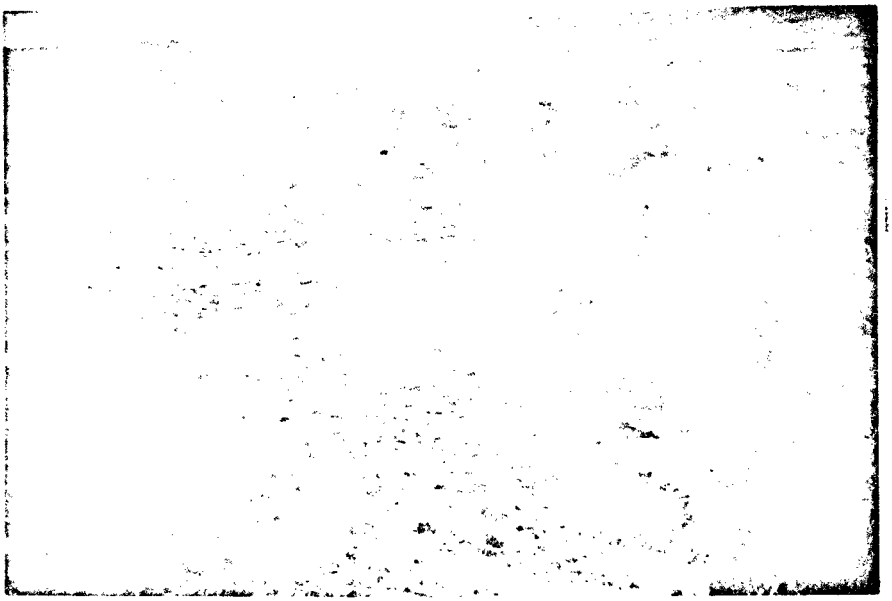

Figure 7. Trench No. 4, facing east. Pit No. 4 in this trench did not encounter bedrock.

Figure 8. Trench No. 5, facing east. It was in this trench that the "Cat" threw its left track.

Figure 9. Trench No. 6, facing east, showing Pit No. 6. This Pit encountered bedrock; however, its radioactivity was nil.

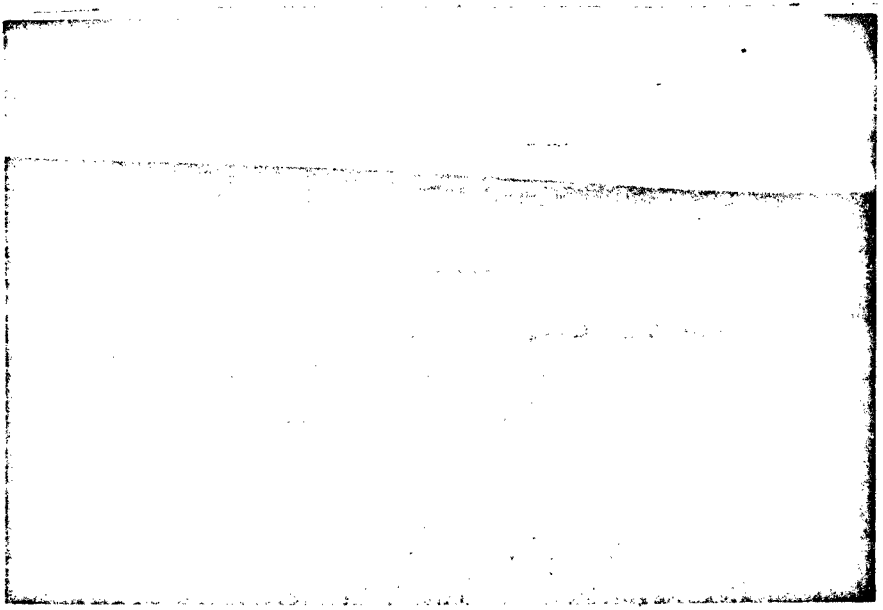

Figure 10. View, facing north, looking down the valley of the Right Tributary of the Left Headwater Branch of the Peace River.

EQUIVALENT URANIUM ANALYSES

ON RAW AND CONCENTRATED SAMPLES (iodide heavy, g 3.3)

SAMPLE NO.	LOCATION	CONCENTRATION RATIO	e. U
1	Trench 1, Pit 1	Raw	.004
	" "	1000:1	-.001
2	Trench 3, Pit 3, Top 16" Pit	Raw	.003
	" " "	25:1	.033
3	Trench 3, Pit 3,	Raw	.002
	" "	33:1	.080
4	Trench 3, Pit 3, Bedrock	Raw	.002
	" " "	190:1	.008
5	Pit 7	Raw	.003
	"	20:1	.027
7	Float from divide between Peace River and Cub Creek	Raw	.007
	" "	7:1	.018
8	Granitic dike near airfield on Bear Cr.	Raw	.020
	" (-100 size)	10:1	.043
	" "	47:1	.10
	Near Trench 1, Iron stained rock	Raw	.005
	" "	200:1	.009

TABLE 1

PEACE RIVER URANIUM PROSPECT

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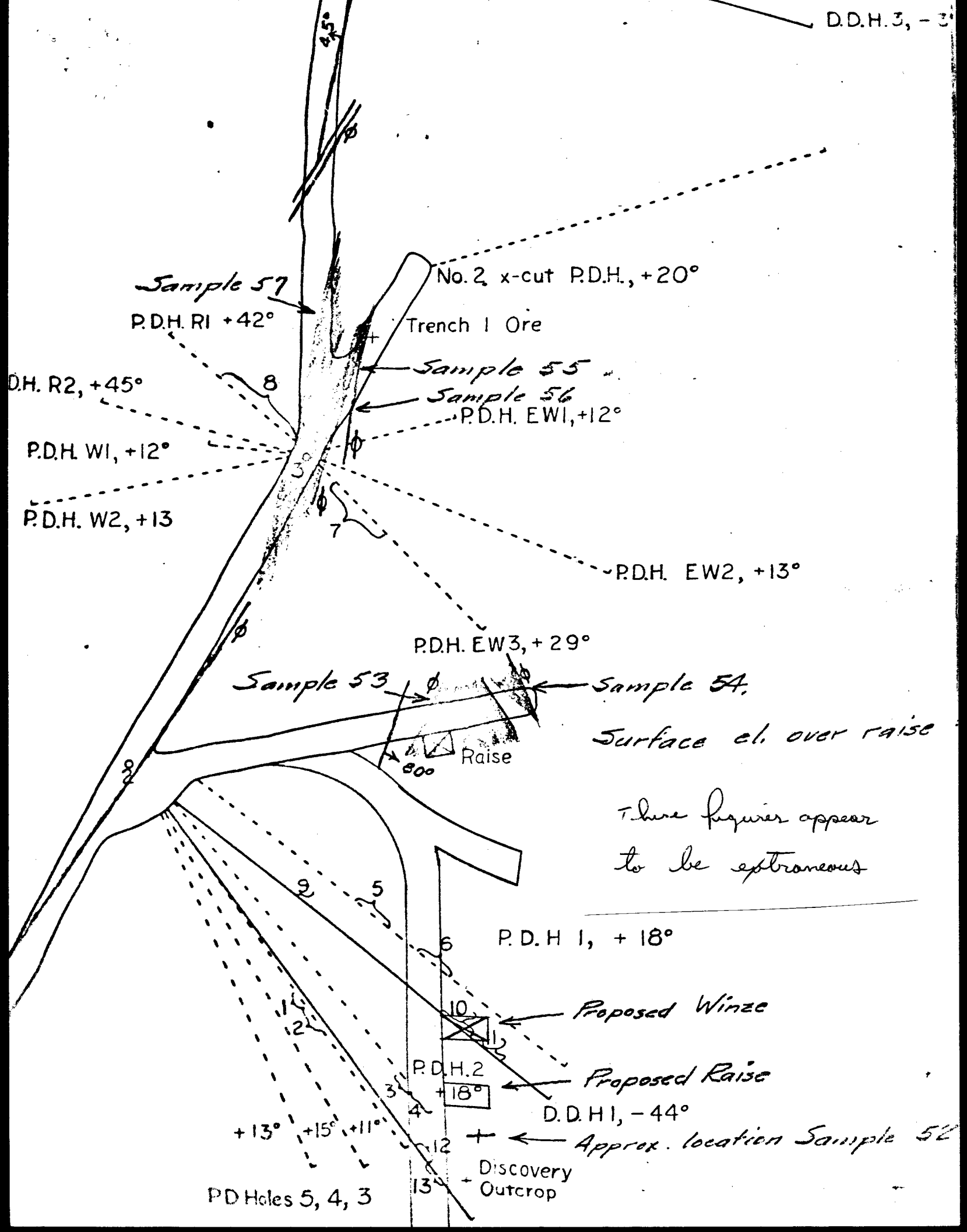
	"	20:1	.027
7	Float from divide between Peace River and Cub Creek	Raw	.007
	" "	7:1	.018

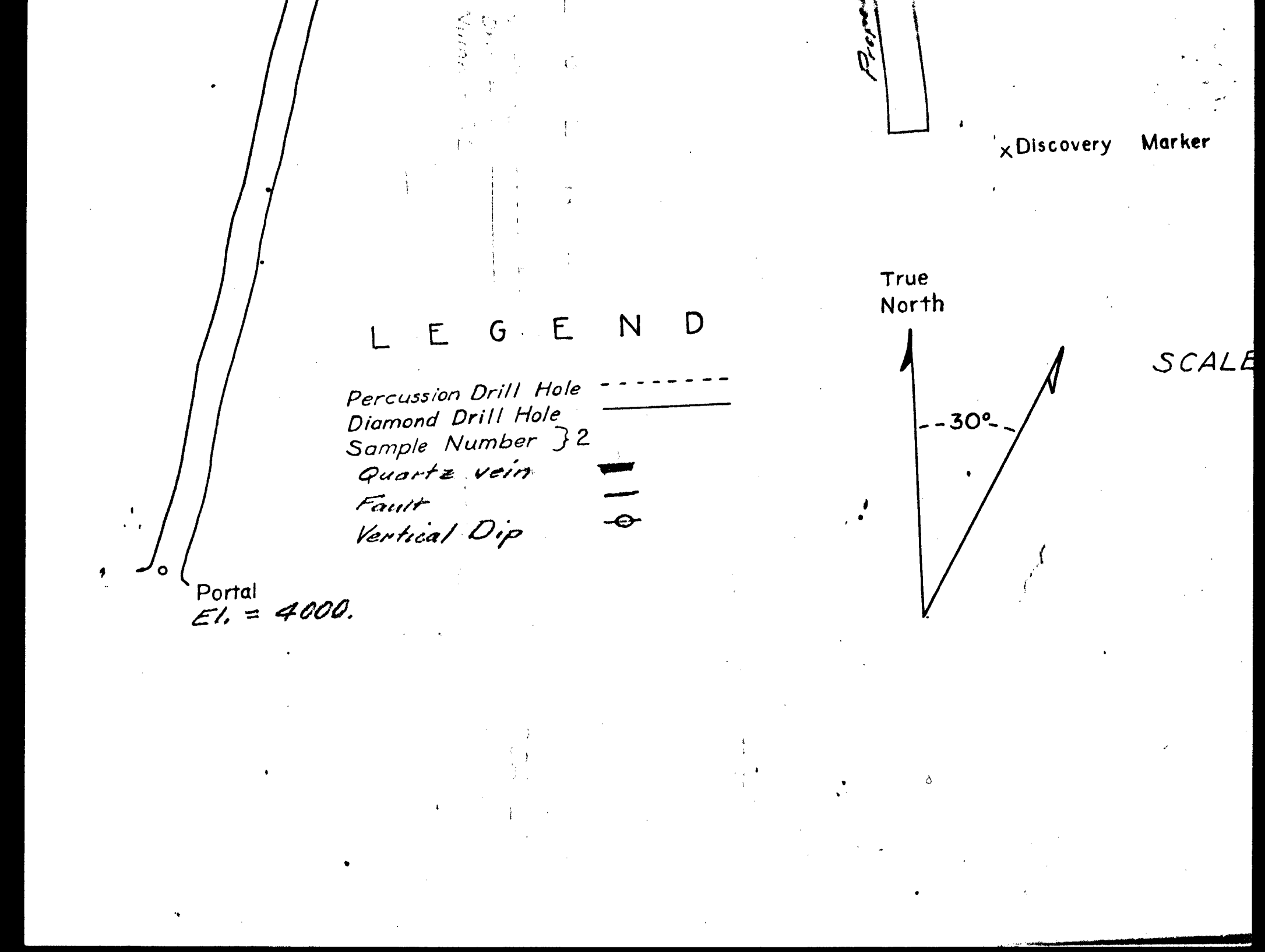
TABLE 2

PEACE RIVER URANIUM PROSPECT

ESTIMATED VOLUME PERCENT OF MINERALS PRESENT
IN IODIDE HEAVY FRACTION

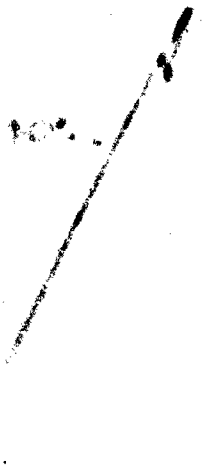
MINERALS	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 7
Magnetite	1	1	2	5	2	5
Ilmenite		2	3	2	1	5
Scheelite		Tr	Tr	Tr		
Pyrite	13	1		1		
Limonite	15					
Goethite	70	5		5	4	
Sphalerite	Tr					
Chalcopyrite	1					
Hematite			Tr	2		
Epidote		1	1			
Biotite						10
Hornblende	Tr	2	2	2	5	60
Spinel		77	86	75	85	10
Zircon		1	1	1	1	5
Sphene		10	5	5	2	3
Garnet	Tr	Tr	Tr	2	Tr	2


D.D.H. 3, -
45°
No. 2 x-cut P.D.H., +20°
Sample 57
P.D.H. R1 +42°
Trench 1 Ore
Sample 55
D.H. R2, +45°
8
Sample 56
P.D.H. EW1, +12°
P.D.H. W1, +12°
3
P.D.H. W2, +13
7
P.D.H. EW2, +13°
P.D.H. EW3, + 29°
Sample 53
Sample 54.
Surface el. over raise
Raise
800
There figures appear
to be extraneous
9
5
P. D. H 1, + 18°
6
10
Proposed Winze
11
12
P.D.H.2
+18°
Proposed Raise
3
4
D.D.H 1, -44°
+13°
+15°
+11°
12
Approx. location Sample 52
Discovery
Outcrop
13
PD Holes 5, 4, 3


Discovery Marker
LEGEND
Percussion Drill Hole
Diamond Drill Hole
Sample Number 2
Quartz vein
Fault
Vertical Dip
True North
30°
SCALE
Portal
El. = 4000.

DM. 2. - 45°

Discovery Marker



SCALE: 1" = 20'

KATHLEEN - [illegible]
Modern

Original map by [illegible]
Traced October, [illegible]
Engr. - Territory [illegible]

River. The coordinates of it are 65° 26' 22" North Latitude and 161° 5' West Longitude. The specific location of the Seward Peninsula in relation to the rest of Alaska is shown in Plate 1. The general location of the Prospect can be seen on Plate 2., The Seward Peninsula Vicinity Map.

PEACE RIVER URANIUM PROSPECT

SEWARD PENINSULA, ALASKA

After the United States Department of the Interior, Geological Survey had released Trace Elements Memorandum Report 355 for public inspection, the partnership of William Lunz and Elmer Straub became interested in the possibilities of finding a Uranium Lode deposit at the headwaters of the Peace River. The Memorandum Report 355 has since been republished as Geological Survey Ciruclar 250 and should be referred to in the study of this report.

The Peace River Uranium Prospect was visited at the request of the partnership of Lunz and Straub from July 7th through July 17th 1953. During the examination trenching was done with a bulldozer, test pits were dug by hand, float surveys were made in the area, samples were taken from the various trenches and pits, photographs were made and a plane table stadia survey was made. This map is Plate 3.

The Prospect is located in the eastern part of the Seward Peninsula at the headwater of the Peace River a tributary of the Koyuk River. The coordinates of it are 65° 26' 22" North Latitude and 161° 5' West Longitude. The specific location of the Seward Peninsula in relation to the rest of Alaska is shown in Plate 1. The general location of the Prospect can be seen on Plate 2., The Seward Peninsula Vicinity Map.

At the time of the examination the property consisted of two full size placer claims which were staked on April 29, 1953 and are recorded in Vol. 2?8, pages 255-6 in the Recording Book at Nome, Alaska.

The prospect is located with the Kognuk Mining District.

During the course of the examination a small airfield was Built about one mile from the prospect. The field was approximately 1,000 feet long. The nearest town, Haycokk, is about 15 miles by air; however, all the material used for the examination had to be hauled from Haycock by tractor a distance of some twenty miles.

The examination lasted for ten days and costed approximately two thousand dollars. The results from the work done did not indicate that there was any nearby source for the placer uranium, instead is appeared that the concentration of uranium occured as a product of the breakdown of the country rock of the area which is known to be quite radioactive. Tables 1 and 2 show the various characteristics of the samples collected and give a fair picture of the results obtained.

The general conclusion drawn from the work and the examination is that further prospecting at this time by private capital would be futile. Since no indications were found of a lode source and since the government has withdrawn the 90% participation in the Exploration Loan for Uranium Prospecting it is recommended that no further prospecting work be done until a clearer understanding of the Federal Governments position in Uranium Exploration is known.

Table 1.

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Table 2.

PEACE RIVER URANIUM PROSPECT

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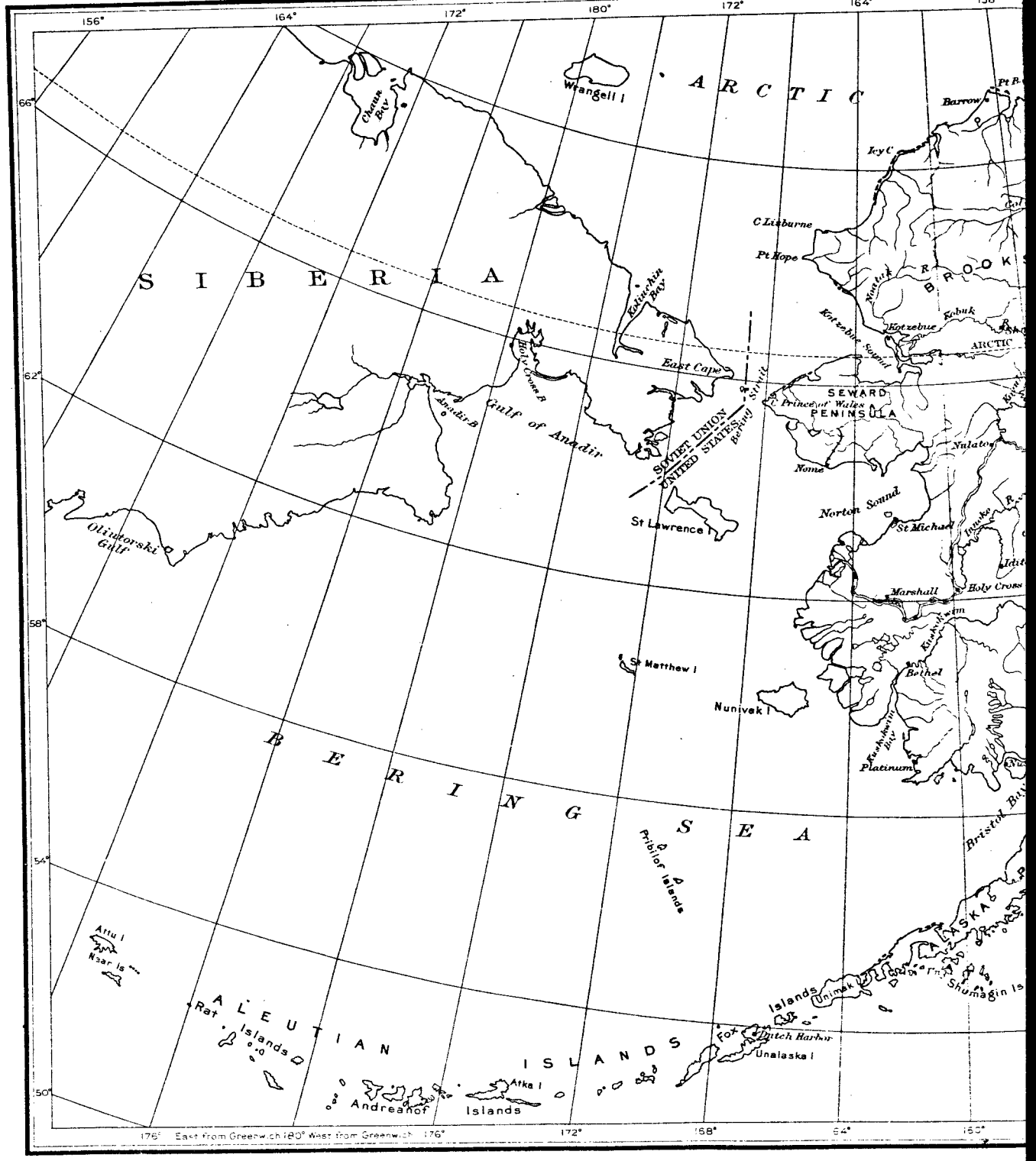
Pyrite	13	1		1		
Limonite	15					
Goethite	70	5		5	4	
Sphalerite	Tr					
Chalcopyrite	1					
Hematite			Tr	2		
Epidote		1	1			
Biotite						10
Hornblende	Tr	2	2	2	5	60
Spinel		77	86	75	85	10
Zircon		1	1	1	1	5
Sphene		10	5	5	2	3
Garnet	Tr	Tr	Tr	2	Tr	2

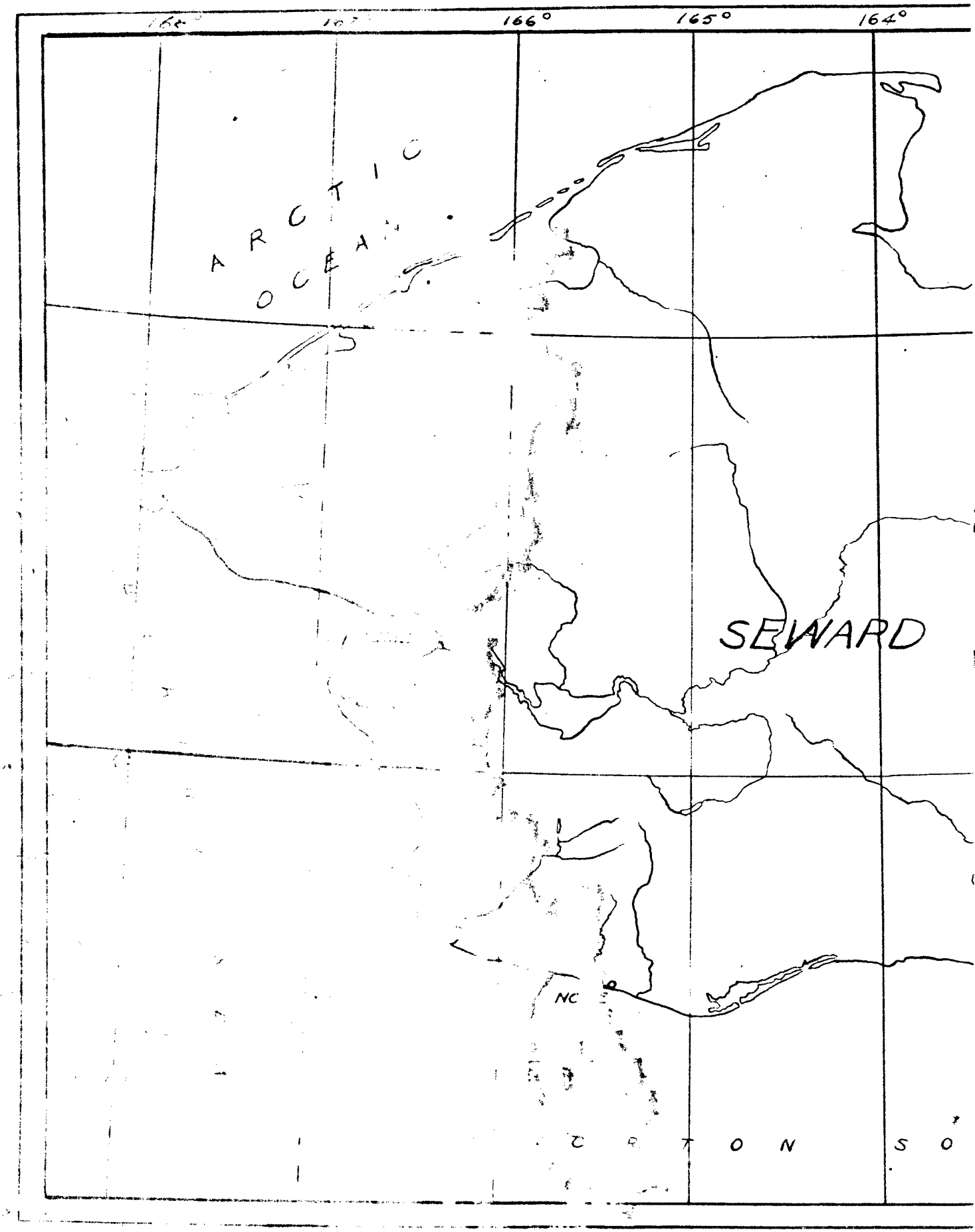
100 200 300 400 500 Miles

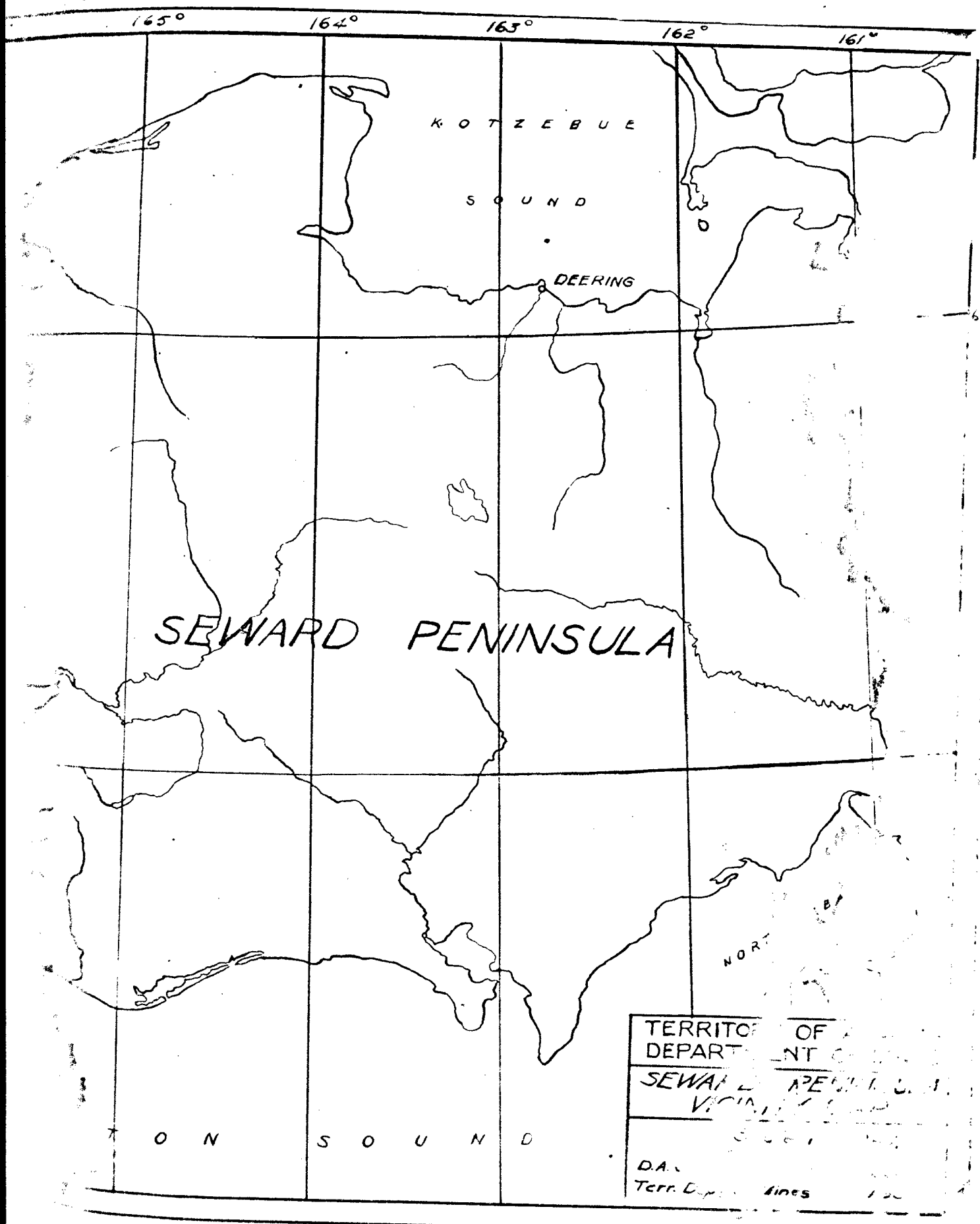
0 100 200 300 400 500 Kilometers

ALASKA, MAP C
Printed 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY




167°
166°
165°
164°
ARCTIC
OCEAN
SEWARD
NC


165°
164°
163°
162°
161°
KOTZEBUE
SOUND
DEERING
66
SEWARD PENINSULA
NORTON SOUND
TERRITORY OF
DEPARTMENT
SEWARD PENINSULA
VICINITY
D.A.
Terr. Dept. Lines

ESTIMATED VOLUME PERCENT OF MINERALS PRESENT IN IODIDE HEAVY FRACTION

MINERALS	Near trench 1	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 7	Sample 8
Magnetite		1	1	2	5	2	5	50
Ilmenite			2	3	2	1	5	3
Scheelite				Tr	Tr	Tr		1
Pyrite	10	13	1		1			Tr
Limonite	30	15						
Goethite	60	70	5		5	4		
Sphalerite		Tr						
Chalcopyrite		1						
Hematite	Tr			Tr	2			
Epidote			1	1				
Biotite							10	5
Hornblende		Tr	2	2	2	5	60	
Spinel			77	86	75	85	10	
Zircon			1	1	1	1	5	40
Sphene			10	5	5	2	3	
Garnet		Tr	Tr	Tr	2	Tr	2	Tr