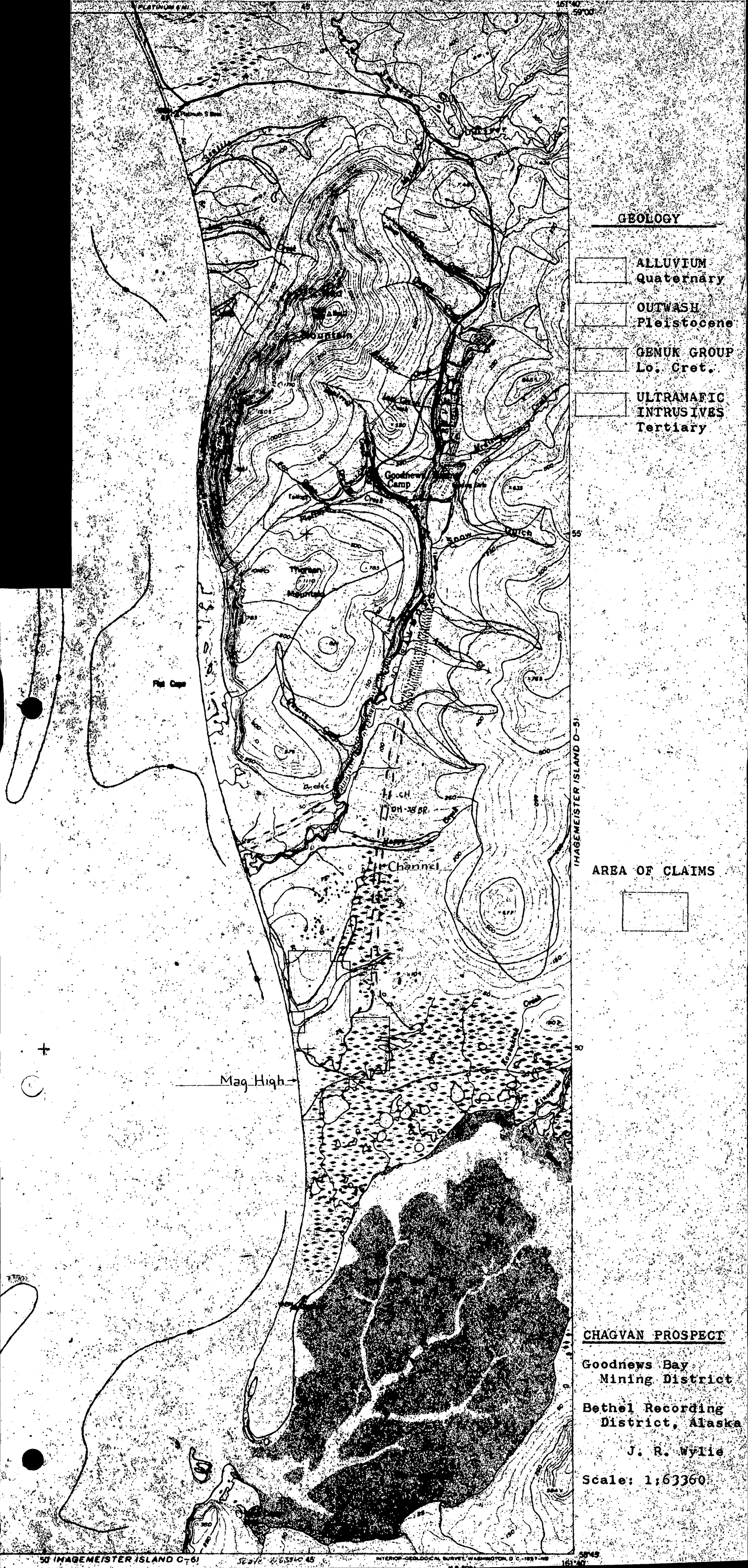


CHAGVAN PROSPECT

Goodnews Bay Mining District

Bethel Recording District, Alaska

J. R. Wylie

Scale: 1:63360

CHAGVAN PLATINUM PROSPECT

ESTIMATED COSTS EXPLORATION DRILL PROGRAM

November 14, 1966

1st SEASON

INSURANCE: workman's comp, liability	$ 400.
DRILL: Purchase used Fairbanks or equal	$2500.
Tools: Purchase used	1000.
Casing	1000.
TRACTOR: Purchase used	1500.
TRANSPORTATION: Equiptment 1 way, 6500#	3500.
FUEL: Standard Oil - Platinum	500.
SURVEY - ASSAY	500.
REPAIR EQUIPTMENT and tools, incl. trans.	1000.
PERSONNEL:	
Driller 40 days @ $30./day	1200.
Drill Helper 35 days @ $20./day	700.
Cook-Handyman 35 days @ $16./day	500.
TRANSPORTATION PERSONNEL:	1200.
CAMP: Field supplies	400.
FOOD: 35 days @ $14./day (4 perple)	500.
SUPERVISION: 2 months	1500.
MISCELLANEOUS:	2000.
TOTAL COST 1st SEASON:	$19900.

2nd SEASON

INSURANCE:	$ 800.
FUEL:	2000.
REPAIR EQUIPTMENT & TOOLS:	2500.
PERSONNEL:	
Driller 150 days @ $30./day	4500.
Drill Helper 150 days @ $20./day	3000.
Cook-Handyman 150 days @ $16./day	2400.
TRANSPORTATION PERSONNEL:	2000.
CAMP:	1500.
FOOD: 155 days @ $14./day	2100.
SUPERVISION: 7 months	5000.
MISCELLANEOUS:	2500.
TOTAL COST 2nd SEASON	$28500.

RECAP

1st SEASON: 1000' @ $19.90/foot	$19900.
2nd SEASON: 5000' @ $5.70/foot	28500.
TOTAL BOTH SEASONS: 6000' @ $8.05/foot	$48400.

CHAGVAN PLATINUM PROSPECT

ESTIMATED ECONOMICS

November 14, 1966

ITEM	DATA
OVERBURDEN	
Thickness of Overburden - feet	80
Area of Prospect (area within 1200 gammas) sq ft	11,900,000
V Volume of Overburden - cubic feet	952,000,000
cubic yards	35,259,000
PAY	
Thickness of Pay above bedrock - feet	10
Volume of Pay - cubic feet	119,000,000
cubic yards	4,407,000
Value of Pay - cubic yard	$6.75
TOTAL VALUE OF PAY	$29,746,000
Total thickness of material to be removed - feet	90
Total volume material to be removed - cubic yards	39,587,000
COSTS	
Cost to move material cents per yard	$.17
Total cost to move 39,587,000 yds	$6,729,000
Dredge:	1,000,000
Plant, Camp, Equiptment	500,000
Drill holes, 10,000' @ $6./ft	60,000
Cost Initial Drill Project 1000' @ $19.90/ft	20,000
TOTAL COSTS:	$8,309,000
NET VALUE PROSPECT:	$20,437,000

CHAGVAN PLATINUM PROSPECT

PLACER CLAIMS STAKED BY WYLIE ASSOCIATES

November 14, 1966

29 CLAIMS STAKED APRIL 24, 25, 1964
RECORDED APRIL 25, 1964
BETHEL RECORDING DISTRICT
BETHEL ALASKA

Discovery A	S Above	I-1 Above
B Below	T Above	J-1 Above
C Below	A-1 Above	S-1 Above
D Below	B-1 Above	A-5 Below
E Below	C-1 Above	B-5 Below
F Below	D-1 Above	C-5 Below
G Below	E-1 Above	D-5 Below
H. Below	F-1 Above	S-5 Below
I Below	G-1 Above	T-5 Below
J Below	H-1 Above	

6 CLAIMS STAKED AUGUST 15, 1966
RECORDED AUGUST 24, 1966
BETHEL RECORDING DISTRICT
BETHEL ALASKA

K Below	M Below	H-5 Below
L Below	N Below	K-5 Below

13 CLAIMS STAKED NOVEMBER 6, 1966
RECORDED NOVEMBER 8, 1966
BETHEL RECORDING DISTRICT
BETHEL, ALASKA

E-2	J-2	I-3
F-2	E-3	K-1
G-2	F-3	G-5 Below
H-2	G-3	
I-2	H-3	

MAGNETOMETER SURVEY

CHAGVAN PLATINUM PROSPECT

by: James R. Wylie

INTRODUCTION

Attached is a map and seven profile crossection plats containing 45 profiles for the ground magnetometer survey ran August 10-16, 1966 and November 2-7, 1966, on the Chagvan Platinum Prospect, Goodnews Mining District, Bethel Recording District, Alaska. Chagvan Bay is located approximately 500 miles southwest of Anchorage along the Kuskokwim Bay coast approximately 20 miles south of the townsite of Platinum.

Two men, using a handheld Sharpe Magnetometer, a Brunton Compass and tape for surveying, and a beach buggy, recorded 966 stations and 16.5 miles of profile during the August portion of the survey and 587 stations and 11.1 miles of profile in November totaling 1553 stations and 27.5 miles profile.

MAGNETOMETER

A Sharpe MF-100 handheld magnetometer having a 2 gamma sensitivity was used for the survey. Readings were taken directly in gammas. For all practical purposes, this instrument is temperature corrected and does not require north orientation to take a reading. The Sharpe is a vertical field, fluxgate type, transistorized, battery powered instrument weighing 9 pounds. On the mostsensitive scale, where the majority of readings were taken, a vertical orientation was absolutely necessary to assure an accurate and repeatable reading. Therefor the unit was leveled on a special plywood board, placed directly on the sand, tundra, marsh or snow and all readings were effectively taken just above ground.

PERSONNEL

Two men were required for the survey, one to read the instrument and record the data and the other to survey and tape 100' measurements for each station and also to carry the field gear.

MANNER OF DOING WORK

Base stations were established and observed several times daily during the entire survey. Base station #1 was set at 0 gammas (1000 gammas added later to entire survey so that all readings would be positive) and all readings were taken in relation to this point. Before and after running each profile, an observation was taken at one or more of the base stations and then the entire profile was corrected to the variation recorded at the base station. In general, little correction was required, and during one entire day no correction was required. It should be noted that the surveys were run during periods of minimum sunspot activity as forecast by the Coast and Geodetic Survey Magnetic Observatory in Fairbanks, Alaska.

Each profile was run in the same fashion. Initially a survey or line of direction was established with the Brunton Compass and intervals of 100' marked off. The survey man would measure and mark each 100' station followed by the recorder who took the readings and recorded those and miscalaneous data. Profiles, S, T, T-2, U, V, V-2, and W were run on a 200' spread. An average of 2 minutes was required to record each station. Maximum production was 310 stations in one day.

ANOMALLYS

Anomallys of greatest interest were located on profiles E-3, F-2, G-3, H-2, H-3, L, L-2, M, M-2, N, N-2 and Beach as indicated on the attached map. A channel like feature having two pods or sinks appears to connect with the north trending channel which the Goodnews Bay Mining Company has dredged to the north. The western portion of this anomally surrounds the GNBMC prospect drill hole drilled in approximately 1958 to a depth of 58'± bedrock. It is understood that no platinum values were recorded in this hole.

The complex high magnetic feature which is crossed on the above profiles, is thought to represent a low channel, possibly a stream cut which separates two shelf areas, one around the Lagoon and northward, the other to the south and east where readings of 500 to 800 gammas were noted.

Of interest also are sharp narrow low magnetic features on the Lagoon Profile and on the northern Beach Profile.

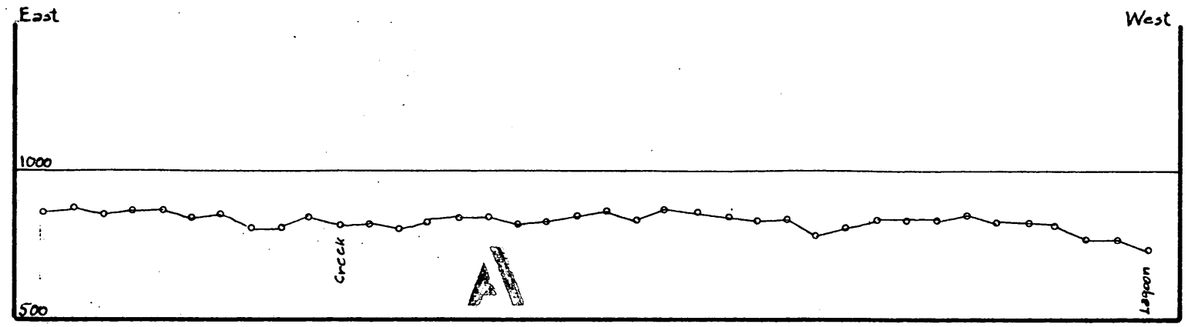
DREDGE PROFILE

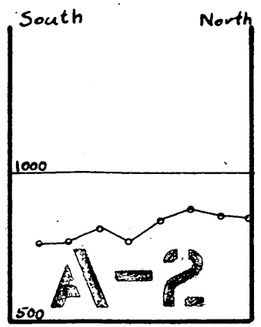
The magnetometer was run in a profile across the channel approximately 100' in front of the Goodnews Bay Mining Company dredge. Values ranged from 600 gammas where bedrock was thought to be less than 50' to 1000 gammas in the deepest part of the channel (70') with the placer platinum concentrate.

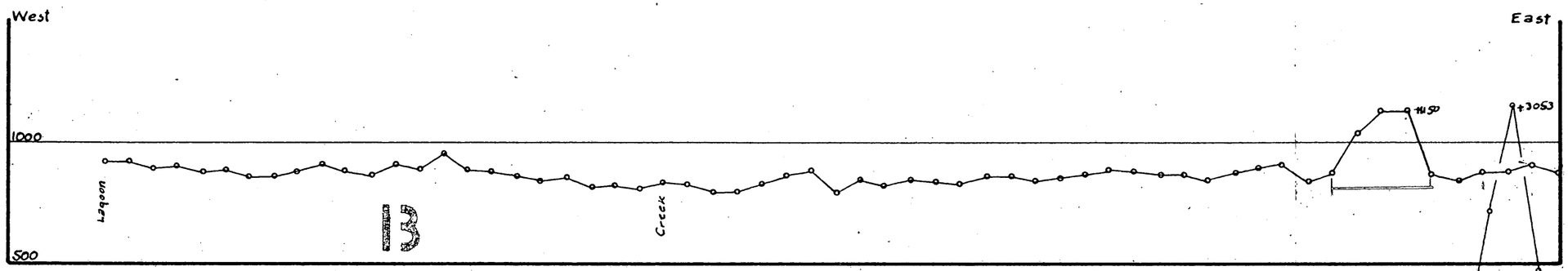
CONCLUSION

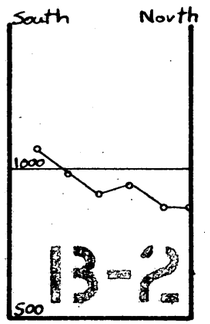
It is thought that the magnetometer is an efficient tool to determine depth estimates to bedrock. In this survey, the entire hill and Lagoon area appear to be a shelf, having a bedrock depth of 50' to 100'. Depth at the GNBMC prospect hole, established at 58'± indicates that the area south and east is thought to be less than 60' deep.

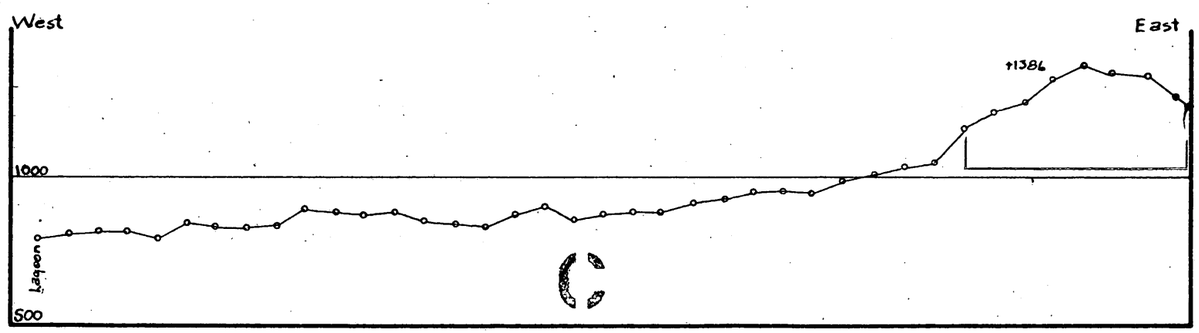
The channel area may be as deep as 90' to 100' and the extremely high magnetic values observed may indicate heavy mineral concentration.

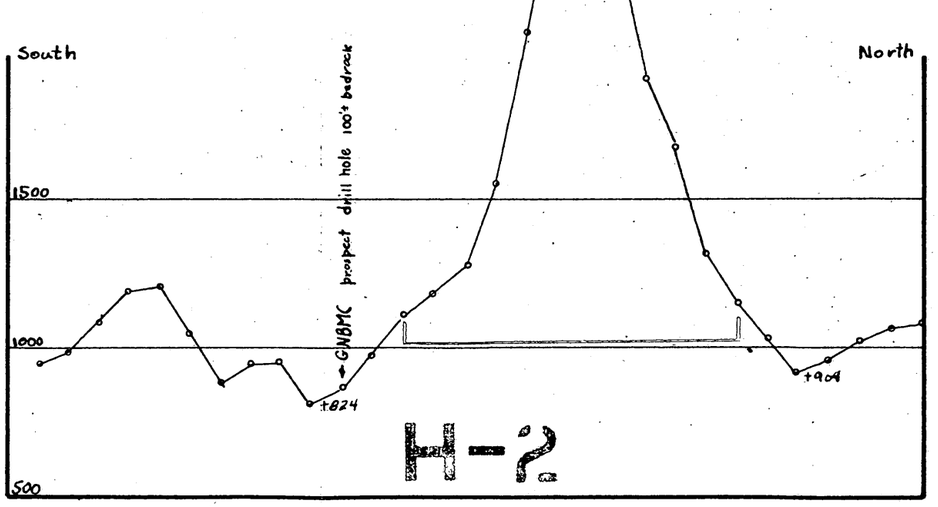


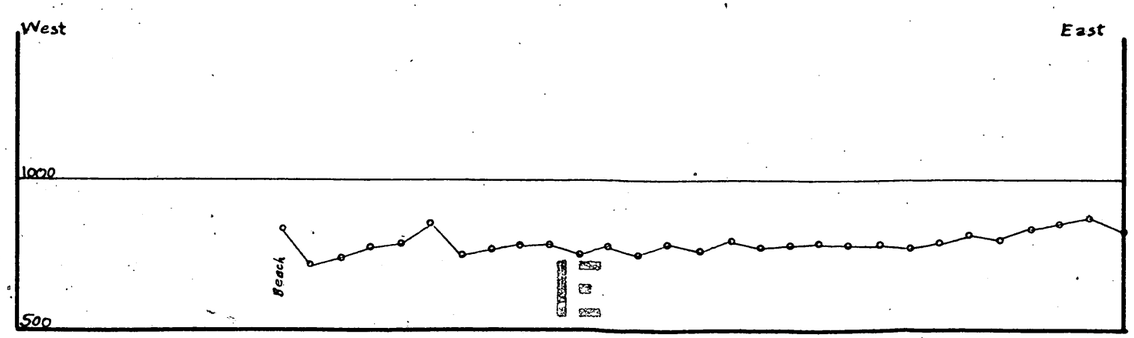


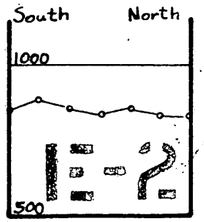








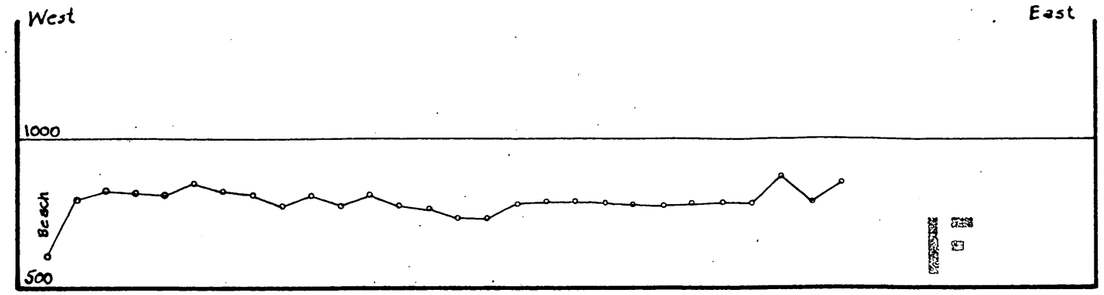


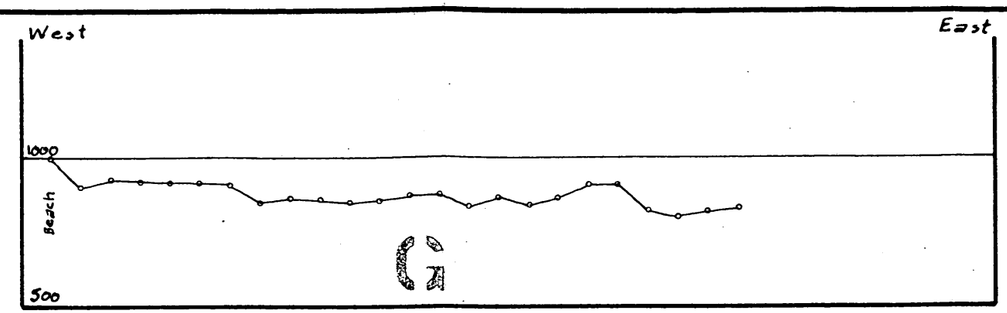


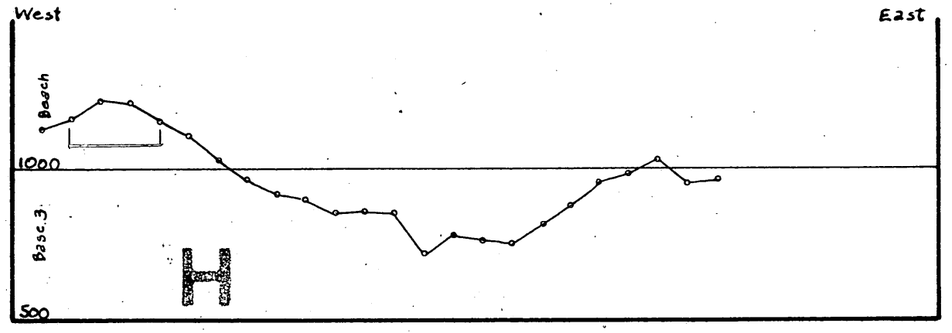
Magnetometer Survey
Chaqvan Prospect, Alaska
August 10-16, 1966

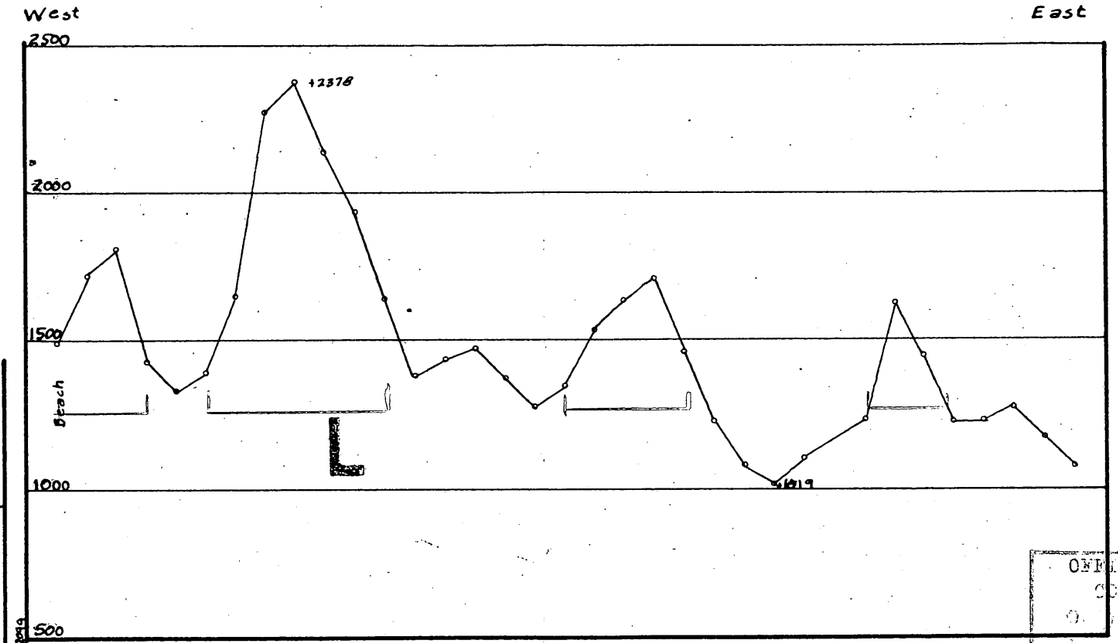
Scale: Vert. 1" = 500 gammas 8-23-66

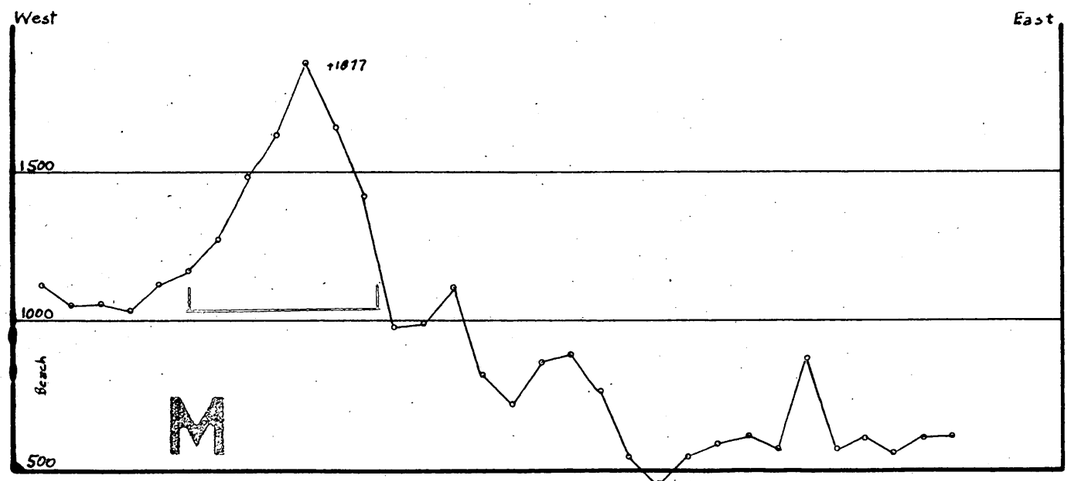
Hor. 1" = 500 feet J.R. Wylie

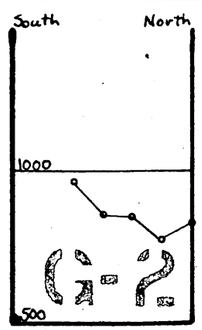


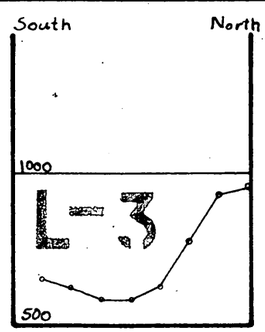


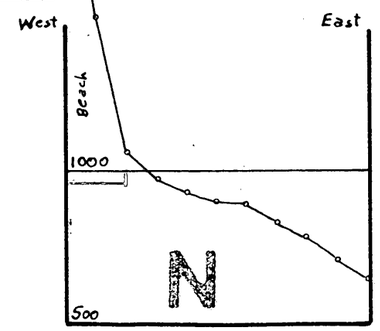


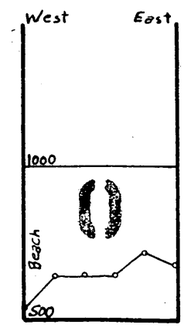


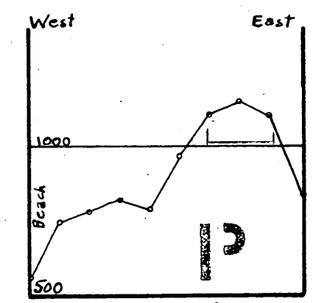










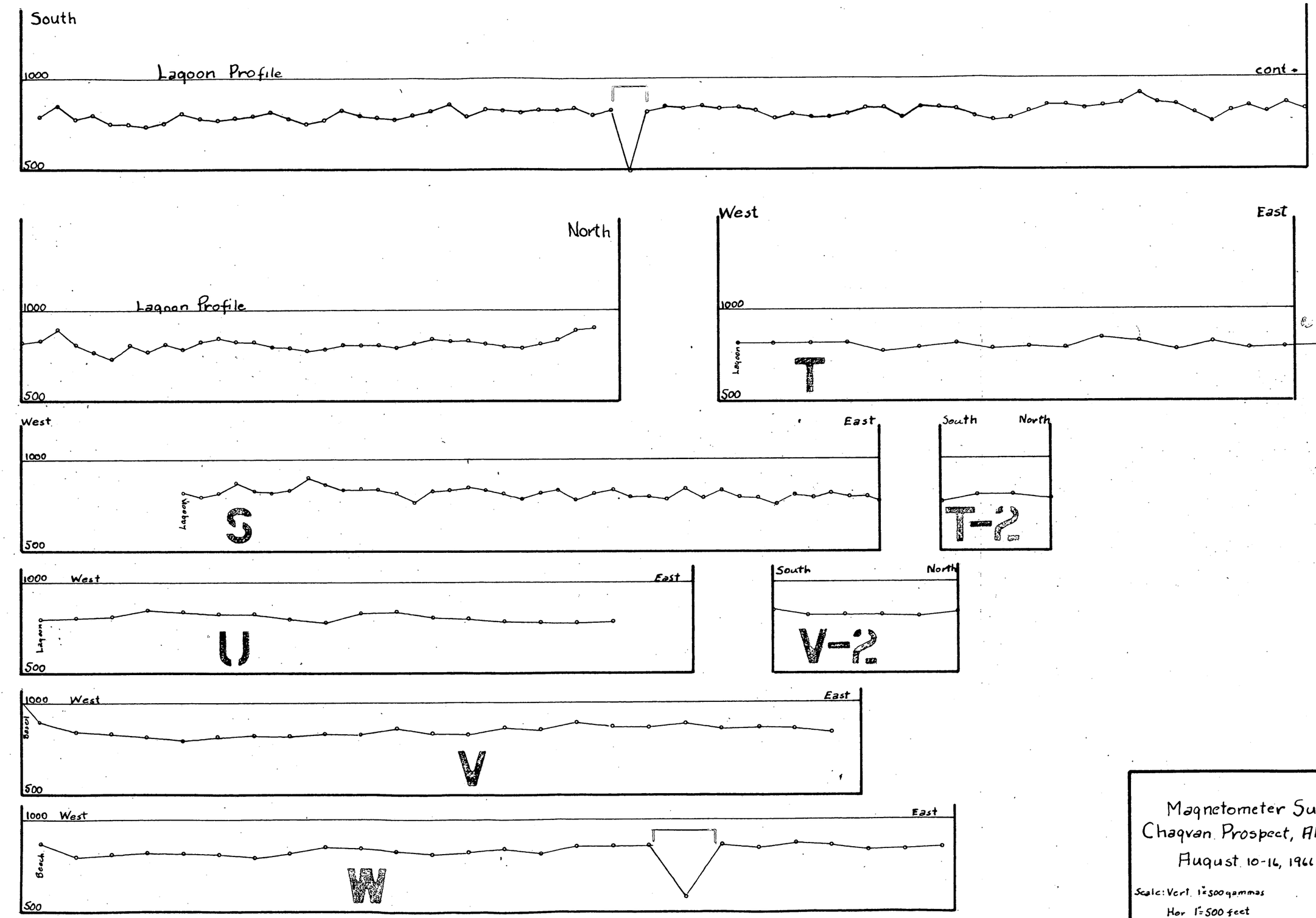


OFFICIAL COPY

Magnetometer Survey
Chaqvan Prospect, Alaska
August 10-16, 1966

Scale: Vert. 1" = 500 gammas 8-23-66

Hor. 1" = 500 feet J.R.Wylie



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8-23-66
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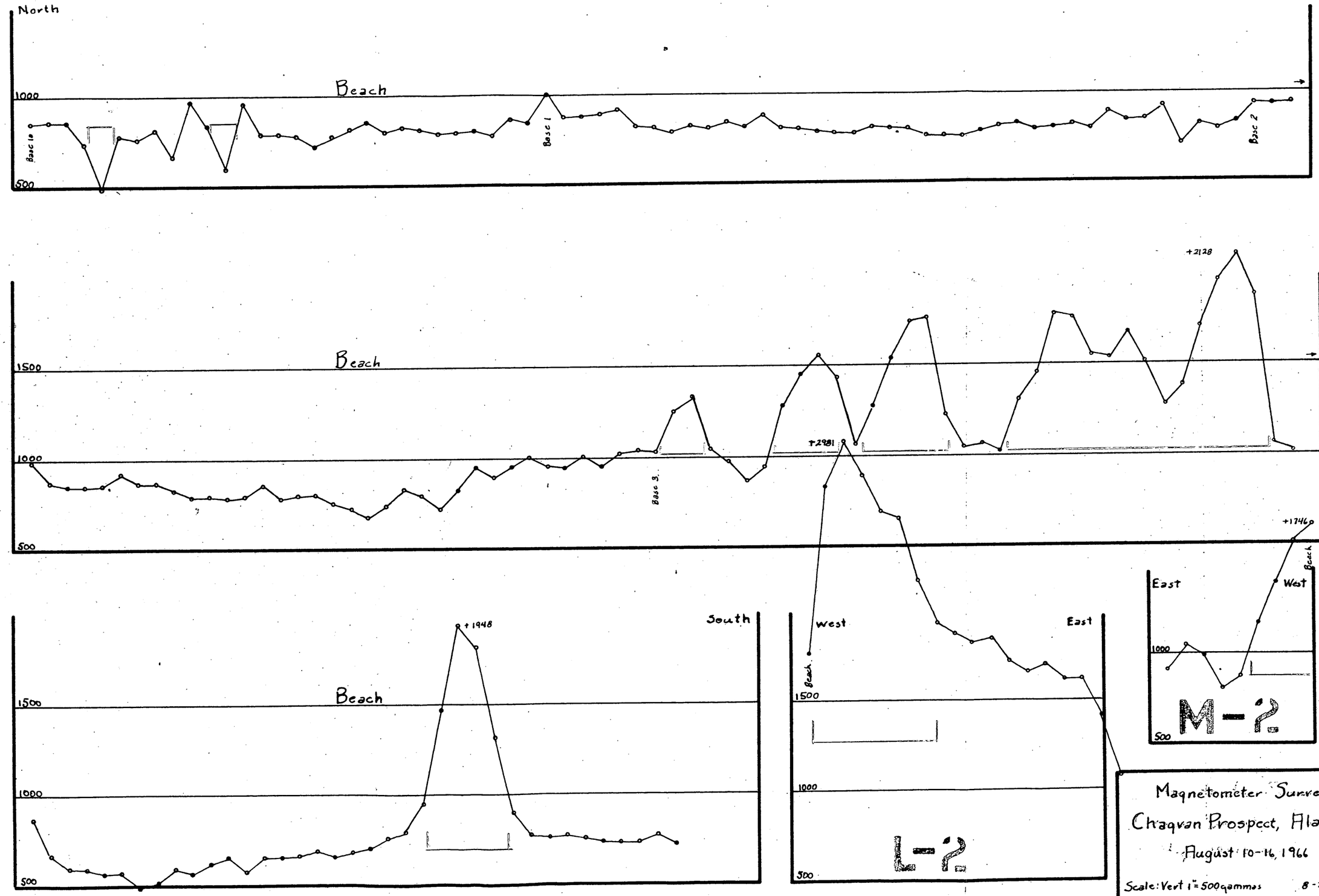

Magnetometer Survey
Chaqvan Prospect, Alaska
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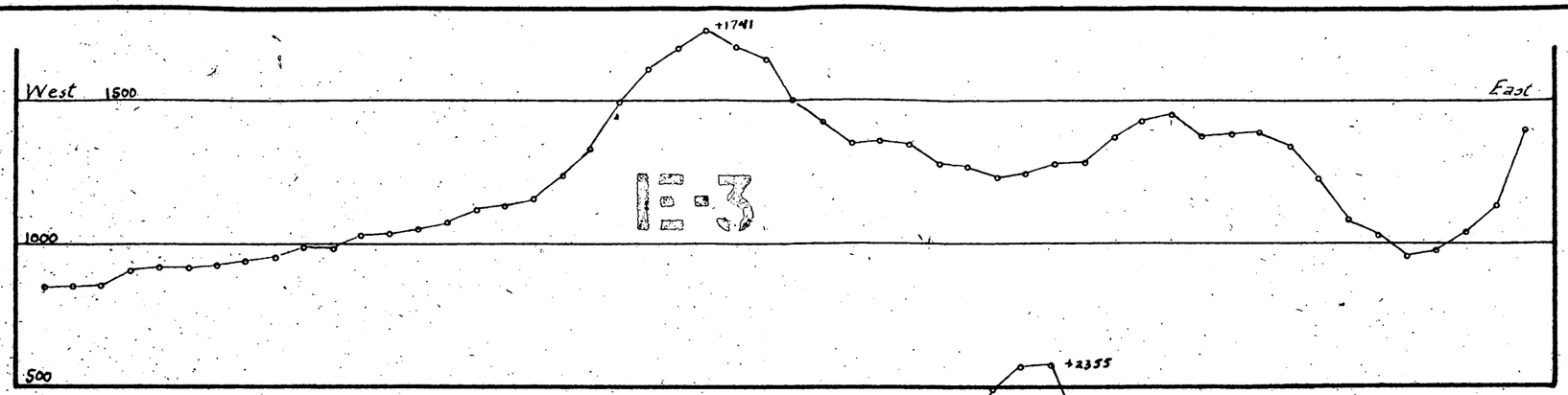
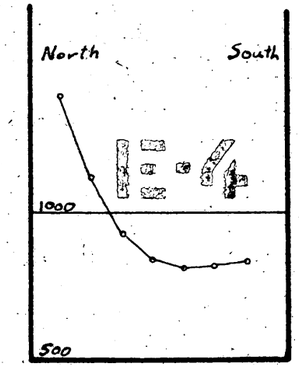
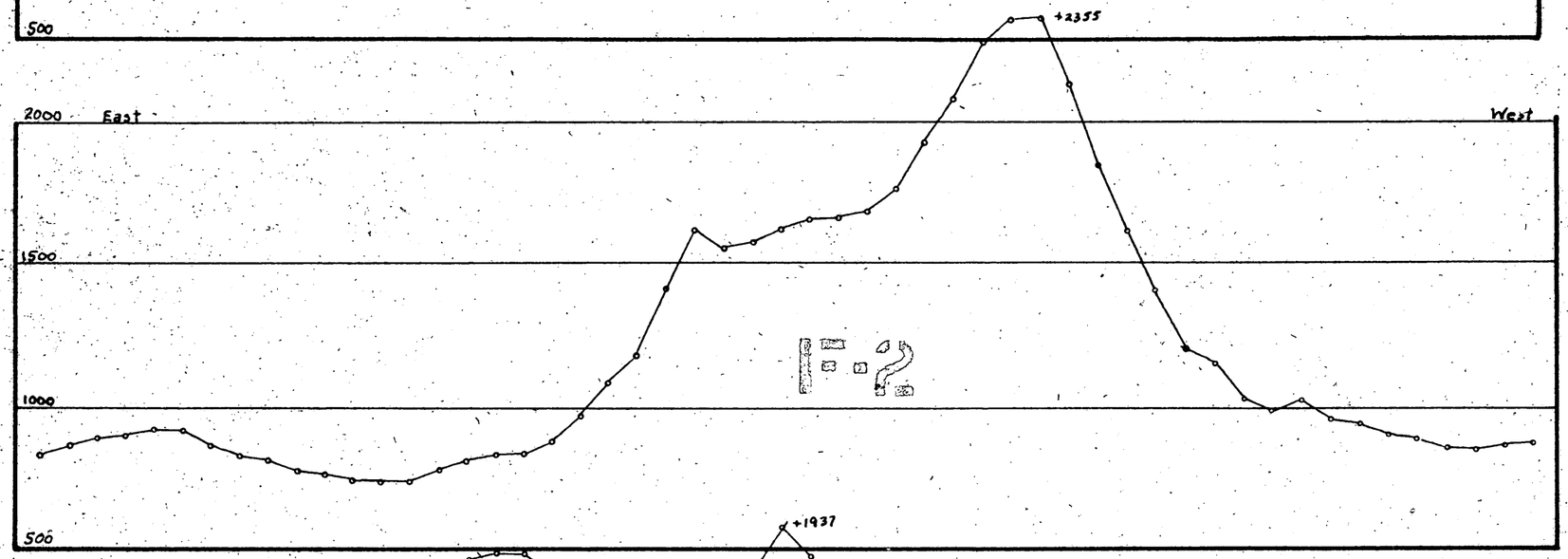
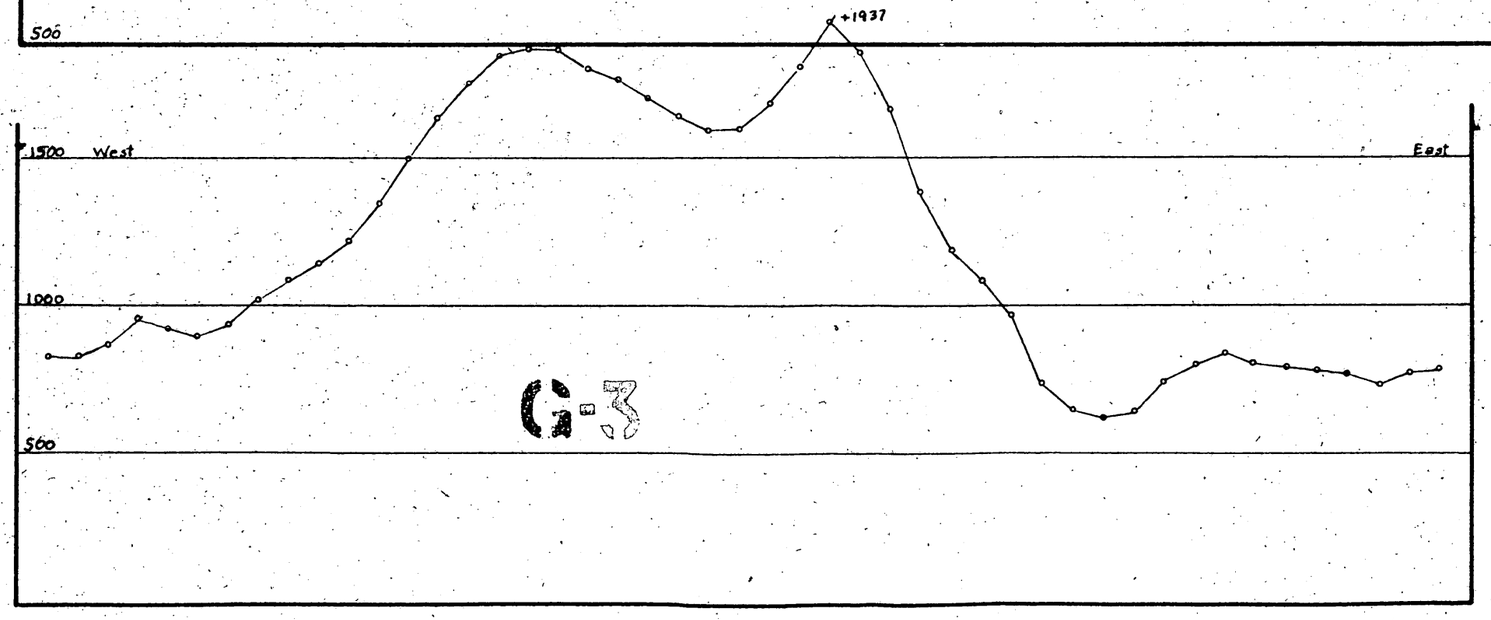
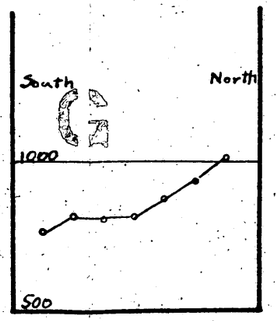






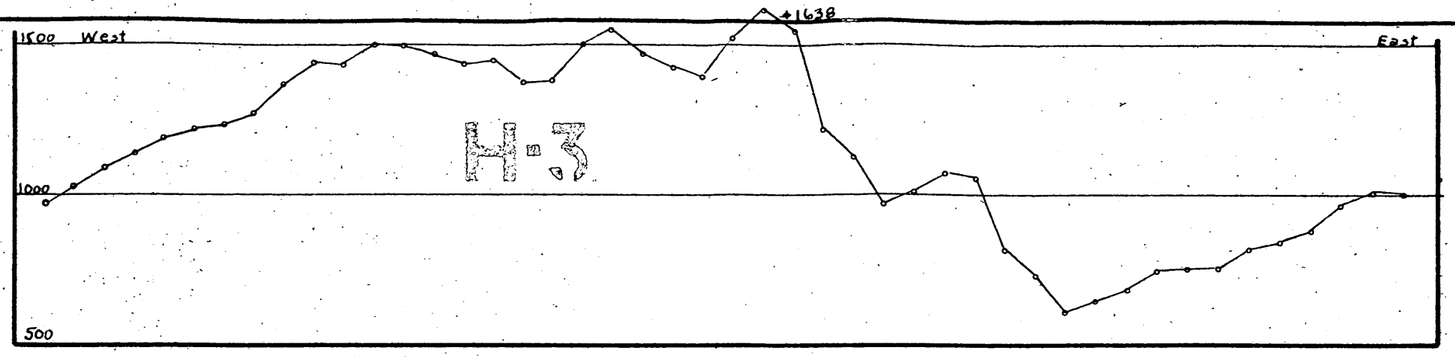


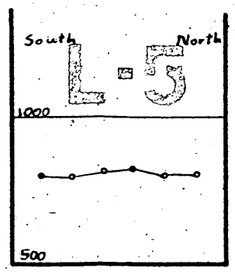


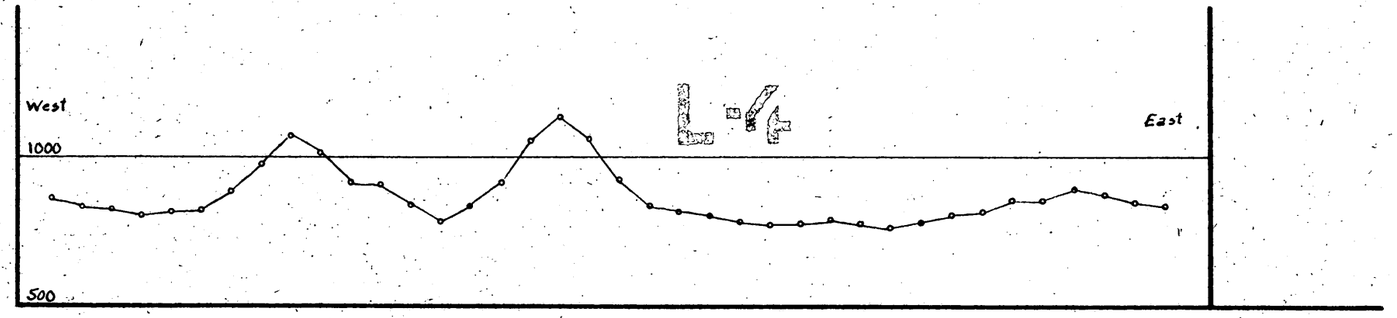
Magnetometer Survey
Chagvan Prospect, Alaska
November 2-7, 1966

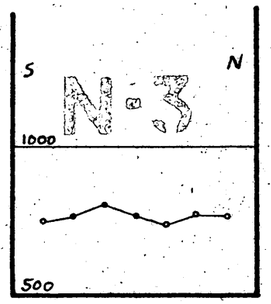
Scale: Vert 1" = 500 gammas 11-12-66

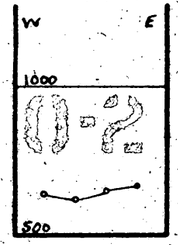
Hor. 1" = 500 feet J. R. Wylie

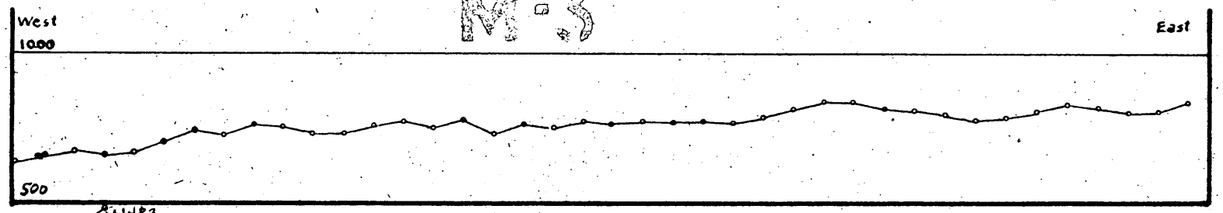


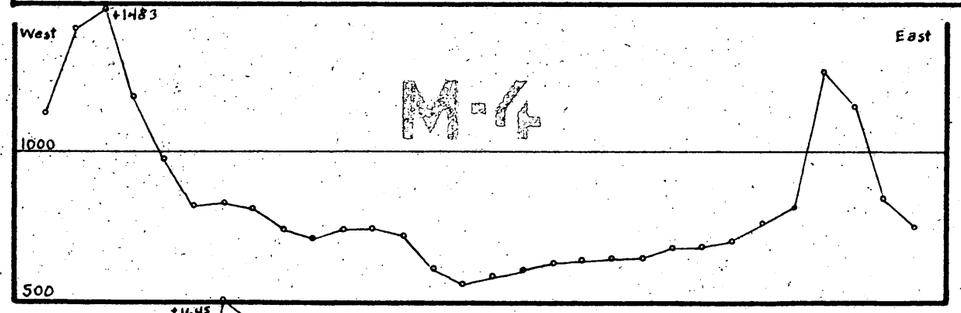


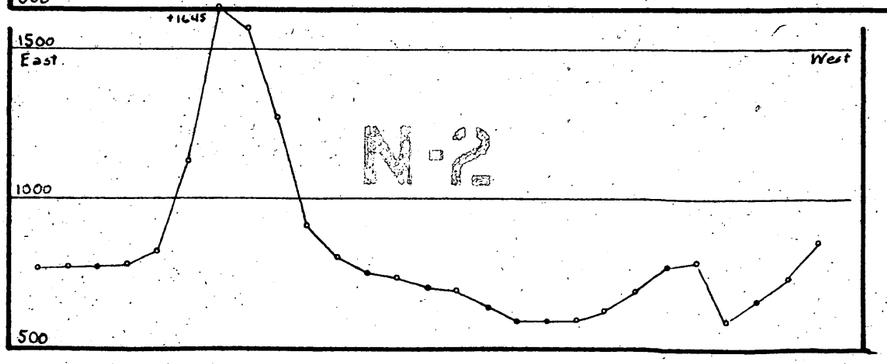








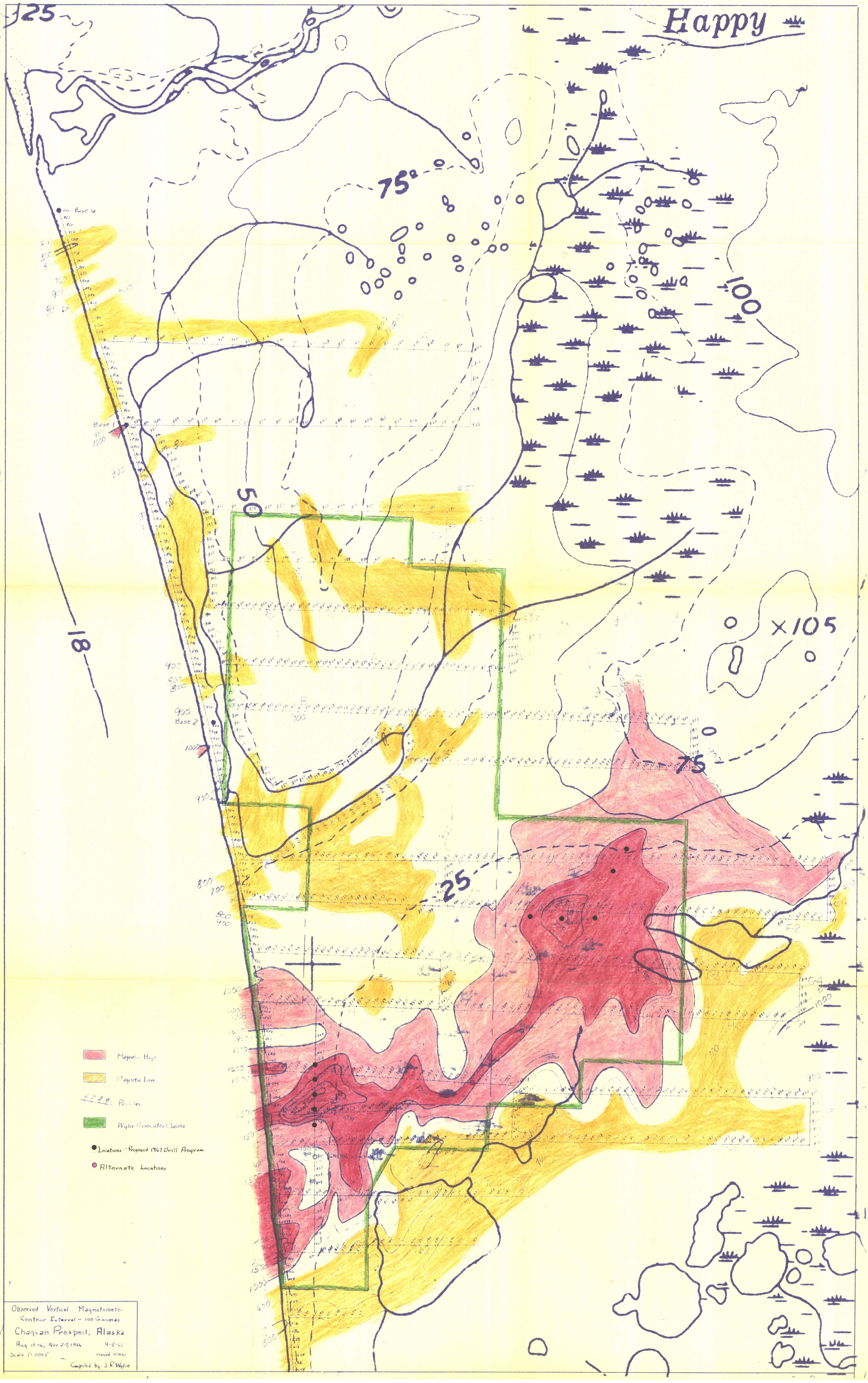


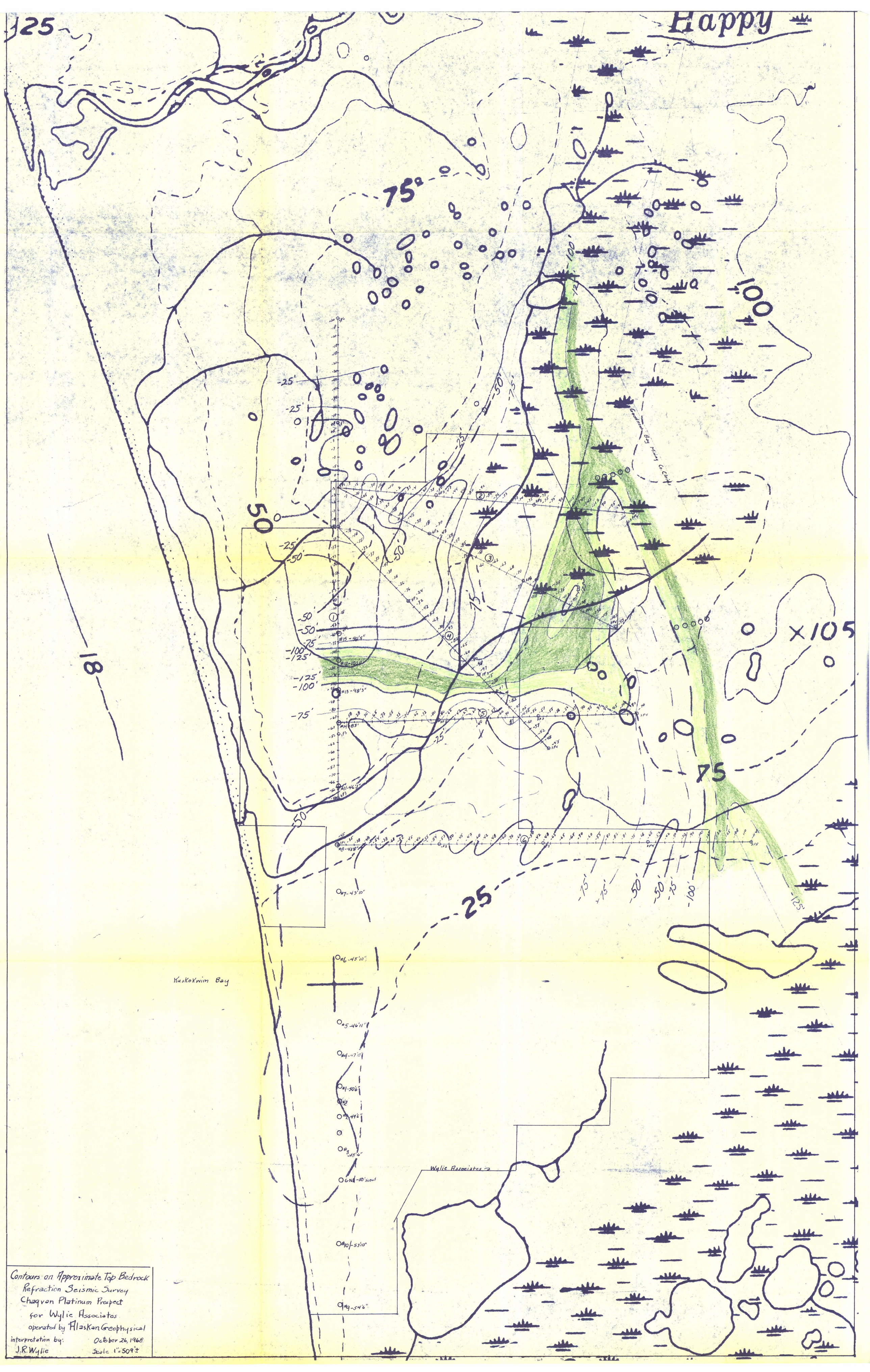


Magnetometer Survey
Chagvan Prospect, Alaska
November 2-7, 1966

Scale: Vert. 1" = 500 gammas 11-12-66

Hor 1" = 300 Feet J.R. Wylie


Happy
Base 1a
Base 1
Base 2
75°
50
25
18
100
105
Magnetic High
Magnetic Low
Profiles
Wylie Associates Claims
Locations - Proposed 1967 Drill Program
Alternate Locations
Observed Vertical Magnetometer
Contour Interval - 100 Gammas
Chagvan Prospect, Alaska
Aug 10-16; Nov 2-7, 1966
9-5-66
Scale 1" = 509.3'
revised 11-14-66
Compiled by: J.R. Wylie



Contours on Approximate Top Bedrock
Refraction Seismic Survey
Chaqvan Platinum Prospect
for Wylie Associates
operated by Alaskan Geophysical
interpretation by: October 26, 1968
J.R. Wylie Scale 1" = 50'±