GEOPHISICAL REPORT
"TONEY GROUP" — Anton Claim
located 2½ miles southwest of
Greenwood, B.C. 82E/2E
Greenwood Mining Division

M.J. YOUNG
July 30-Aug. 28/67
Option by Utah Construction & Mining Co.

106

GEOPHYSICAL REPORT

TONEY GROUP

MINERAL CLAIMS

GREENWOOD MINING DIVISION

BRITISH COLUMBIA

by

M. J. YOUNG (P. Eng.) GEOLOGIST

UTAH CONSTRUCTION & MINING CO.

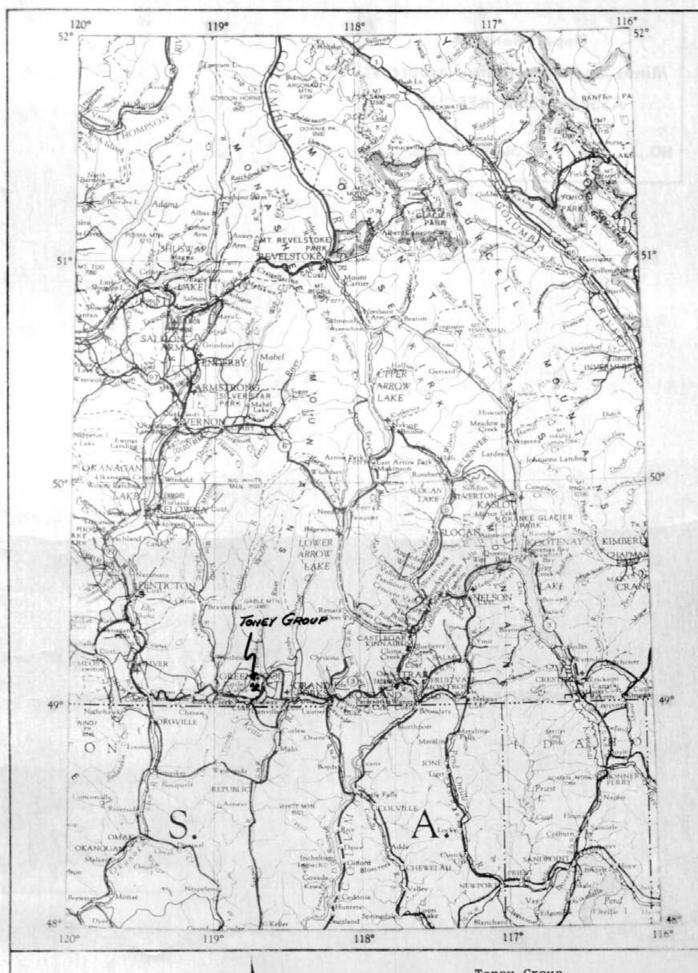
September 15, 1967

TABLE OF SONTENTS

Pag	ţe
1865 1968	L
troduction	2
ology _, ************************************	2
evious Work	Ż
esent Work	3
duced Polarization Results 3	}
sistivity Results	Ì
nclusion ************************************	
atement of Costs 5	5
atement of Qualifications (Ś

ILLUSTRATIONS

Index Map # /
Chargeability Contour Maps # 7 - // in pocket
Resistivity Contour Map # 2 - 6
Induced Polarization and Resistivity Profiles



SCALE: I INCH = 30 MILES

INDEX MAP

Toney Group Greenwood Mining Division

SUMMARY

Utah Construction & Mining Co., signed an option agreement with the owners of the Toney Group of claims in the Greenwood Mining Division on May 5, 1967.

A grid survey and induced polarization and resistivity surveys were completed during the period July 30 to August 28, 1967 by Utah Construction & Mining Co. personnel under the direction of a geologist.

A coincident induced polarization high and resistivity low on the Chum #1 claim is recommended for testing with a dismond drill hole.

INTRODUCTION

The Toney group of claims, consisting of Anton #1 to #8; Vendella #1 to #5; Pioneer #1 & 2 fractions; Toney fraction; Chum #1 and the Chum fraction; Eureka fraction; and the Vicki claim are located 2½ miles southwest of Greenwood, B.C. in the Greenwood Mining division.

An option to purchase agreement between

Kenneth G. Ewers of Okanagan Falls, B.C.; Ivan A. McKay of Greenwood, B.C.; Donald S. Bombini of Greenwood, B.C.; Arnold Bombini of Greenwood, B.C.; Samuel Bombini of Greenwood, B.C.;

And

Utah Construction & Mining Co., 718 - 510 West Hastings, Vencouver 2, B.C.

was signed on May 5, 1967

Utah Construction & Mining Co., worked on the Toney group from July 30, 1967 to August 28, 1967. During this period a grid was surveyed and induced polarization and resistivity surveys were conducted over the grid.

GEOLOGY

The western edge of the group is underlain by sharpstone conglomerate which appears to overlie massive white to grey quartzite or chert on the east. The chert is underlain with interbedded siltstone and greywacke containing irregular bands and blobs of the white to grey chert. Intrusive diorite underlies the northeastern and eastern part of the claim group.

The sediments in general strike northerly and dip steeply to the west.

PREVIOUS WORK

Skomac Mines Ltd., optioned a part of the Toney group in 1962 but there is no record of any work done on the group.

PRESENT WORK

Lines 400 feet spart, were surveyed, using chain and compass, and flagged with 100 foot stations marked out along the lines. An induced polarization and resistivity survey was run over 5.8 line miles of grid. This work was done during the period July 30 to August 28, 1967. A total of 15 working days were spent doing the geophysical surveys.

The surveys were done by a geophysical technician and 4 assistants under the direction of a geologist, all employees of Utah Construction & Mining Co.

The recording instrument is a pulse type, with a variable voltage of 300, 600 or 900 volts. Chargeability is measured in millivots/volt (mv/v) and resistivity in ohm-feet. Hewitt Enterprises of Salt Lake City, Utah, U.S.A. manufacture the equipment.

A Wenner electrode array with a 300 foot 'a' spacing was used. Better definition of anomalous areas was given by repeating the survey using the Wenner array with a 100 foot 'a' spacing. Depth of penetration is about equal to the 'a' spacing.

INDUCED POLARIZATION RESULTS

The chargeability background is about 20 mv/v for the Toney group.

Anomalies of 2 and 4 times background on the Chum fraction and Chum #1 claim respectively have been outlined.

The Chum #1 claim anomaly is underlain by white to grey chert near the chert-sharpstone contact. The chert has a rusty stain but no visible sulphides in the centre of the anomaly, but on its northern edge there is disseminated pyrite and also some in narrow seams. The outcrop, in the area of the Chum fraction anomaly, is also chert with no visible sulphides.

The chargeability buildup to about 2 times background on the Toney fraction and Anton #3 & #5 claims is thought to be due to disseminated and seamy pyrite in a hornblende diorite exposed in a surface cut at about 35 S on line 48E.

RESISTIVITY RESULTS

A resistivity low of 680 ohm-feet was obtained at 56+ 50 s. on line 12 E. This reading is part of a general resistivity low, very irregular in outline, about 1,400 feet long in a north-south direction and averages about 500 feet wide. This low is associated with chargeability high found on line 4 E, 8 E and 12 E, on the Chum #1 claim.

The high resistivities encountered on the east edge of the property probably are caused by the underlying hornblende diorite.

CONCLUSION

Rock outcrop in the vicinity of the chargeability(mv/v)high and resistivity (ohm-feet) now contains less than 12 visible sulphides. The chargeability high of 79 ms/v is thought to be a result of fairly high sulphide content. Therefore a drill hole is recommended to explore the anomalous area at depth.

M. J. Young, P. Eng. Senior Geologist.

STATEMENT OF COSTS

Salaries and Expenses				(Field Time Only)
(Expenses @ \$10.00 per man	day			
M. J. Young	10 days	@	\$45.00	\$450.00
J. Sorrel	15 days	@	33.00	495.00
V. Hardy	5 days	0	25.50	127.50
Colin Brennan	15 days	@	25.50	382.50
William Neeley	15 days	@	25.50	382.50
R. St. John	15 days	@	25.50	382.50
M. Bombini	10 days	@	25,50	250.50
			Total	\$2,470.50

STATEMENT OF QUALIFICATIONS

1) M. J. Young

Education:

B. Sc. Geology, University of British Columbia, 1961

Employment:

1952 - 57 Howe Sound Co. Sampler, Assistant Geologist

1958 -- 61 U. B. C.; Utah Construction & Mining Co. Summer employment

Assistant Geologist

1961 - present Utah Construction & Mining Co. Senior Geologist.

Professional Status:

Professional Engineer, British Columbia

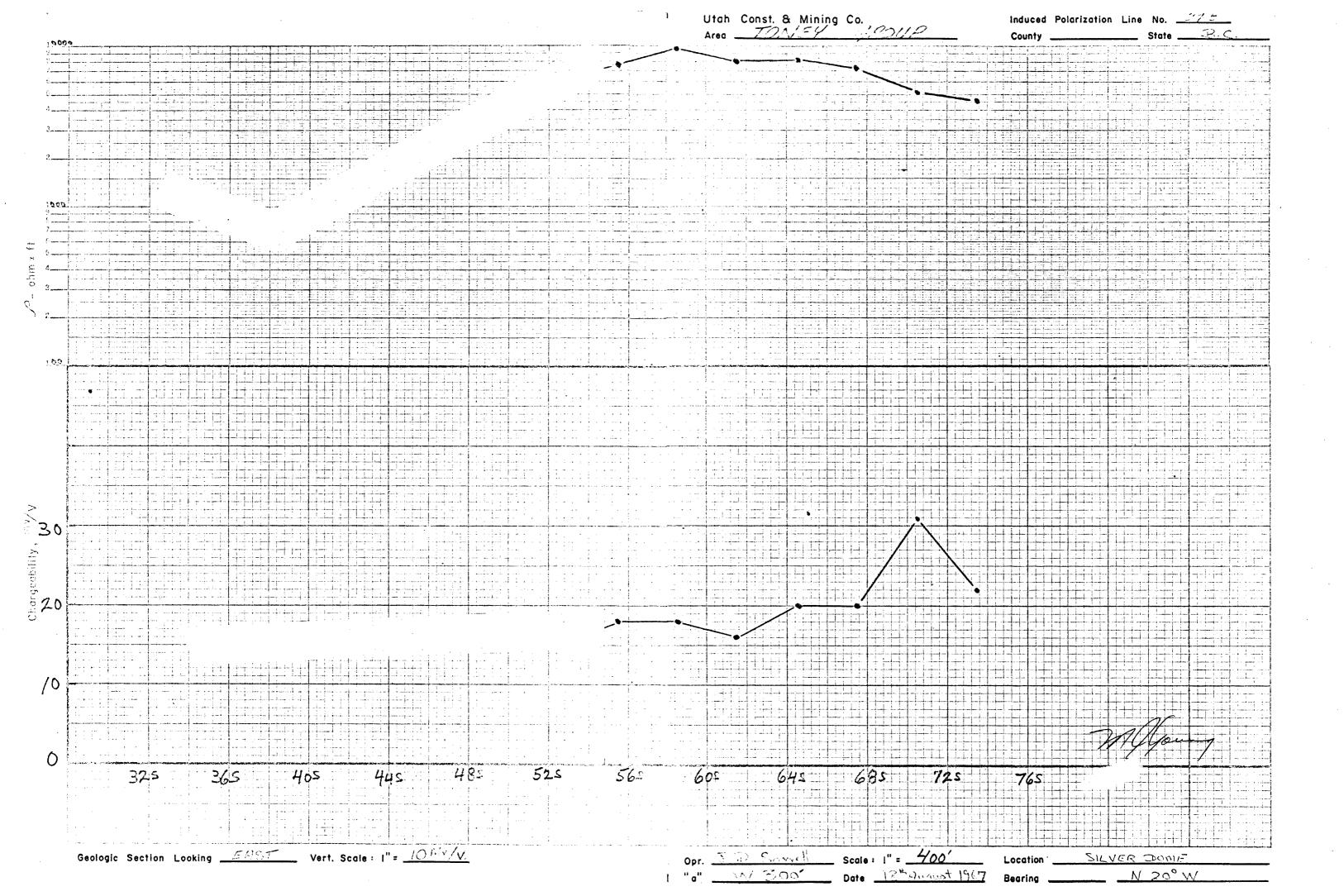
2) J. D. Sorrel

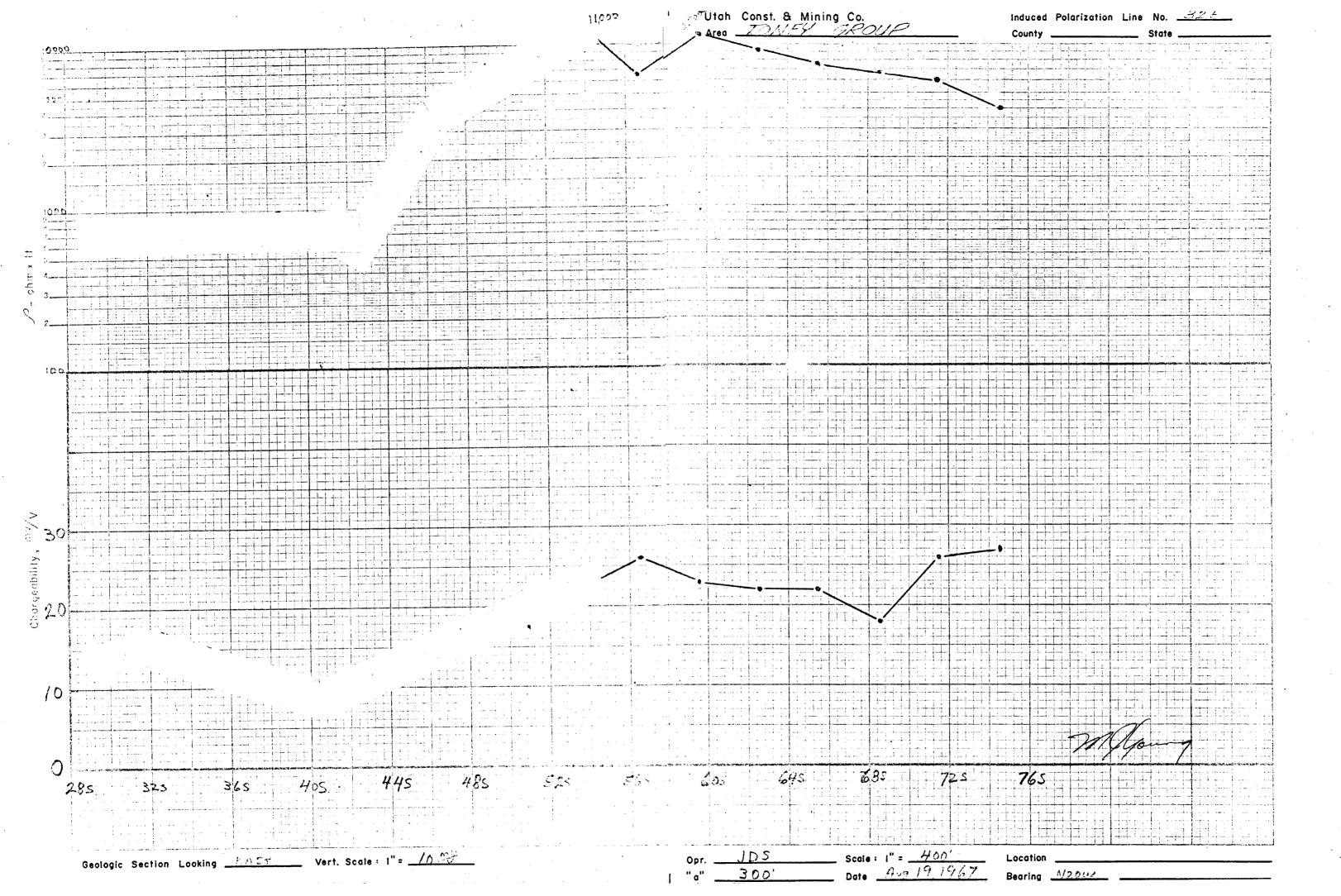
Education:

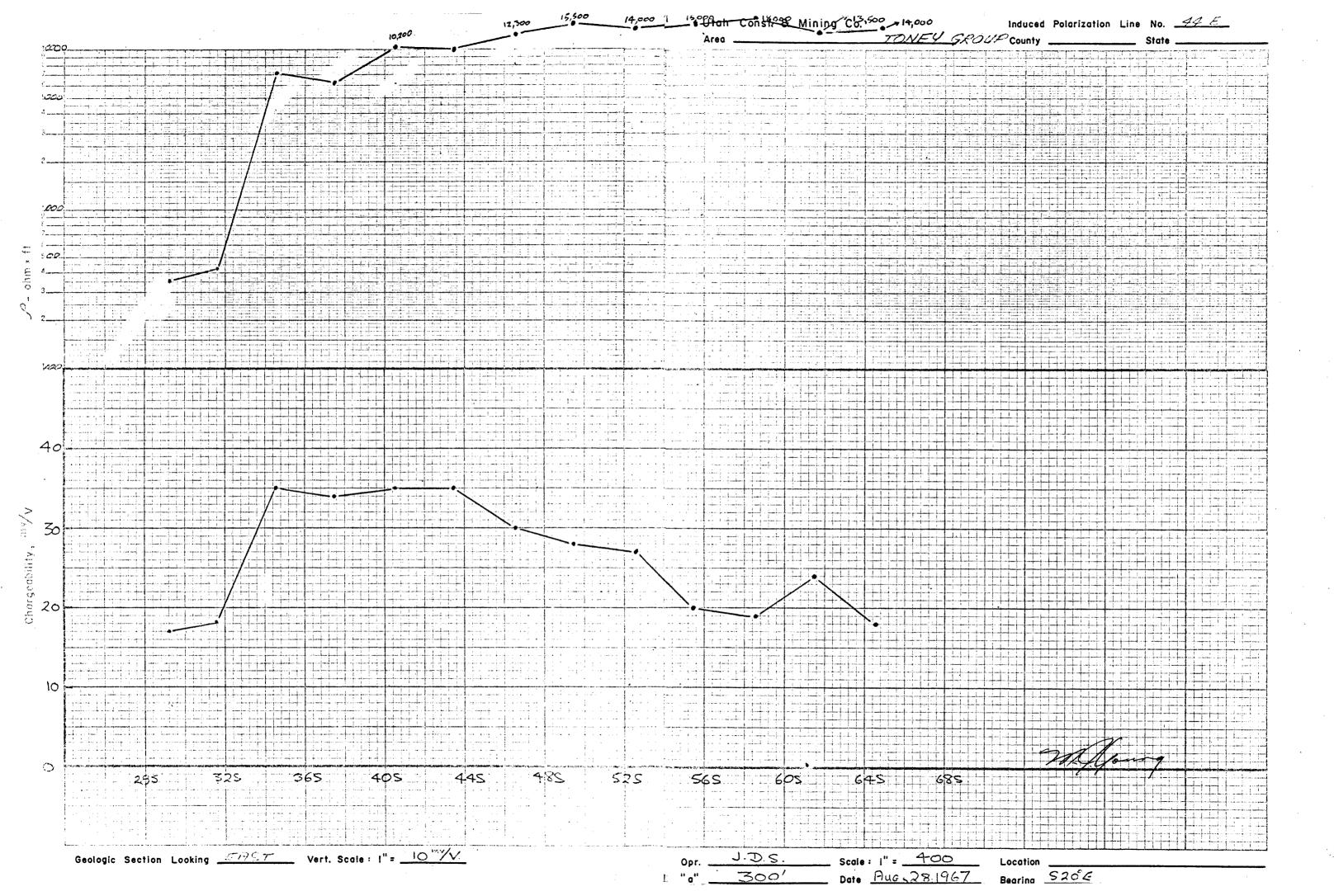
Graduated from High School, 1960

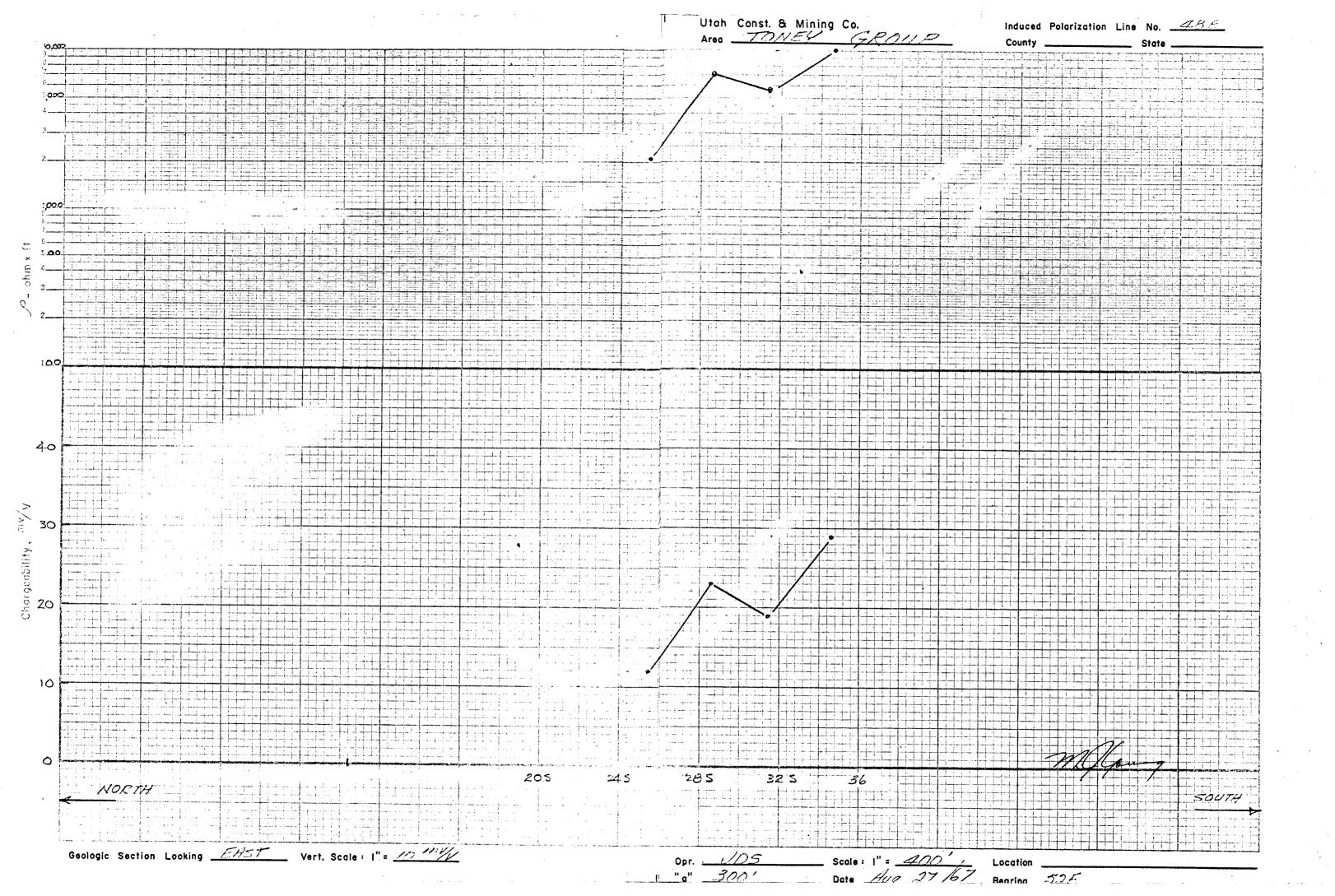
Employment:

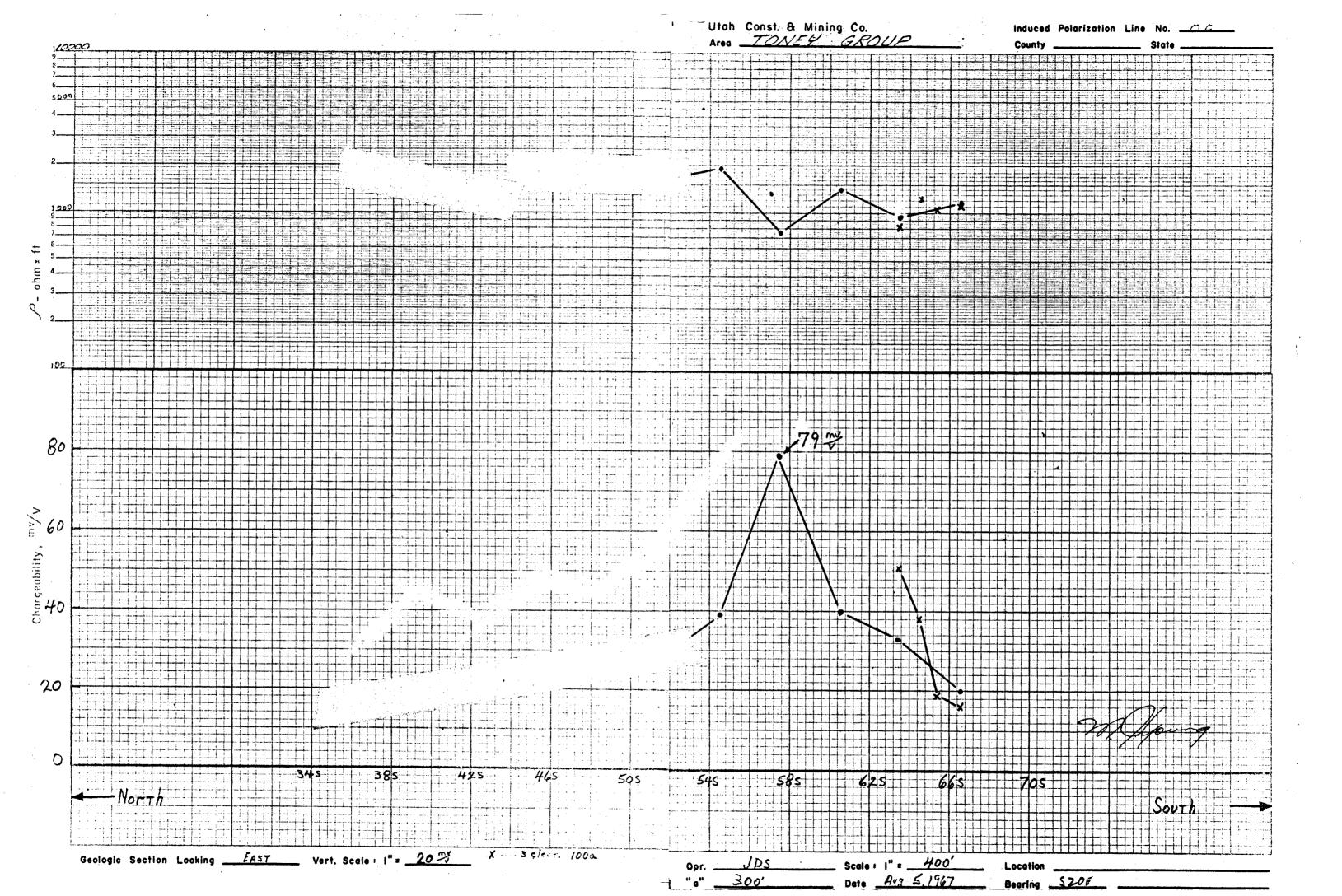
1961 - 1962	Minex Company, Pasadena, California Induced polarization & Magnetometer operator
1962 - 1963	Huntec Limited, Arizona Induced polarization operator
1963 - 1964	Horizon Land Corp., Arizona Draftsman
1964 - 1965	Stebbins Mineral Surveys, Arizona Induced polarization crew chief
1965 - 1966	Barringer Research Ltd., Arizona Induced polarization, electro-magnetometer operator
1966 - 1967	Utah Construction & Mining Co., Induced polarization, electro-magnetometer and magnetometer operator.

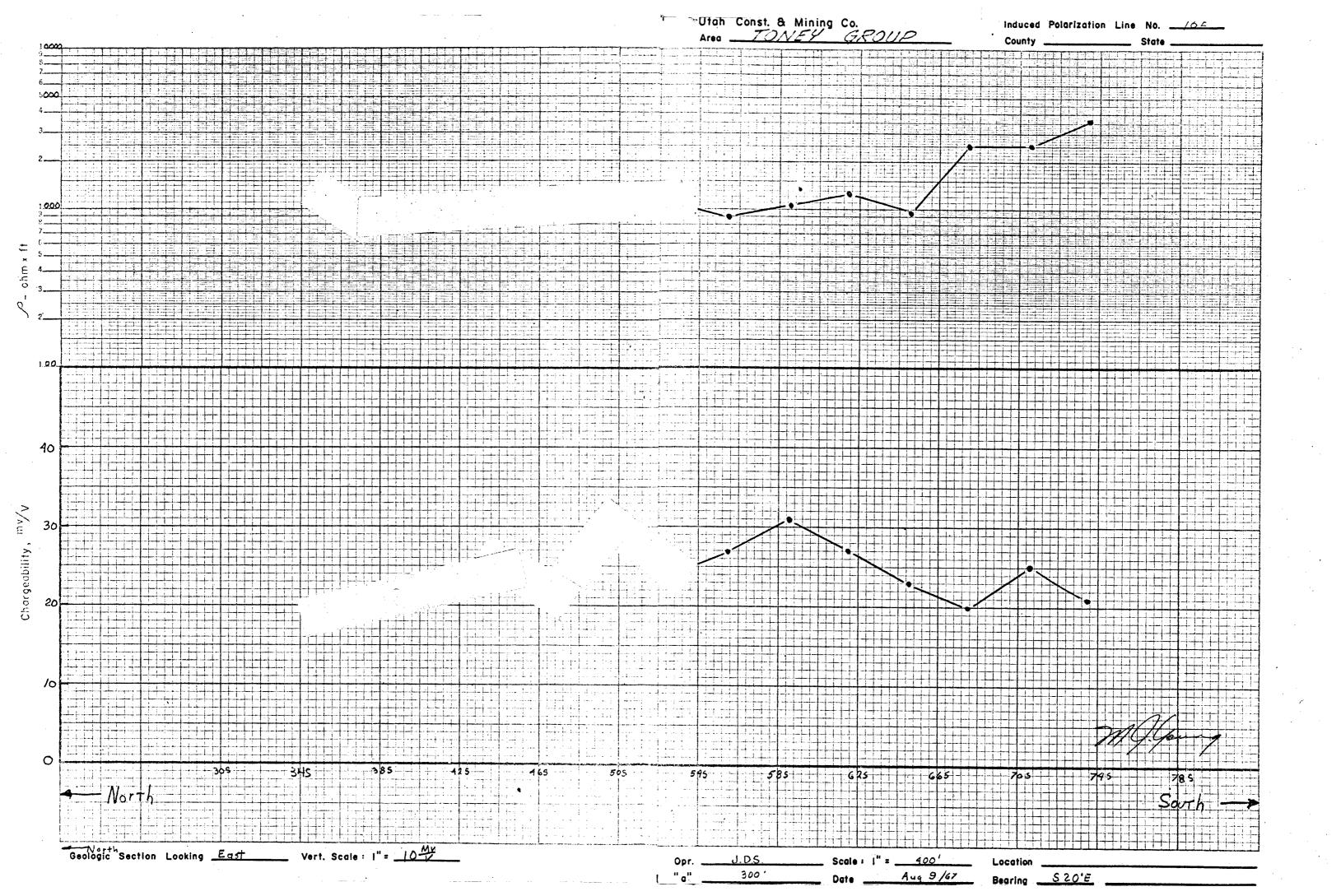


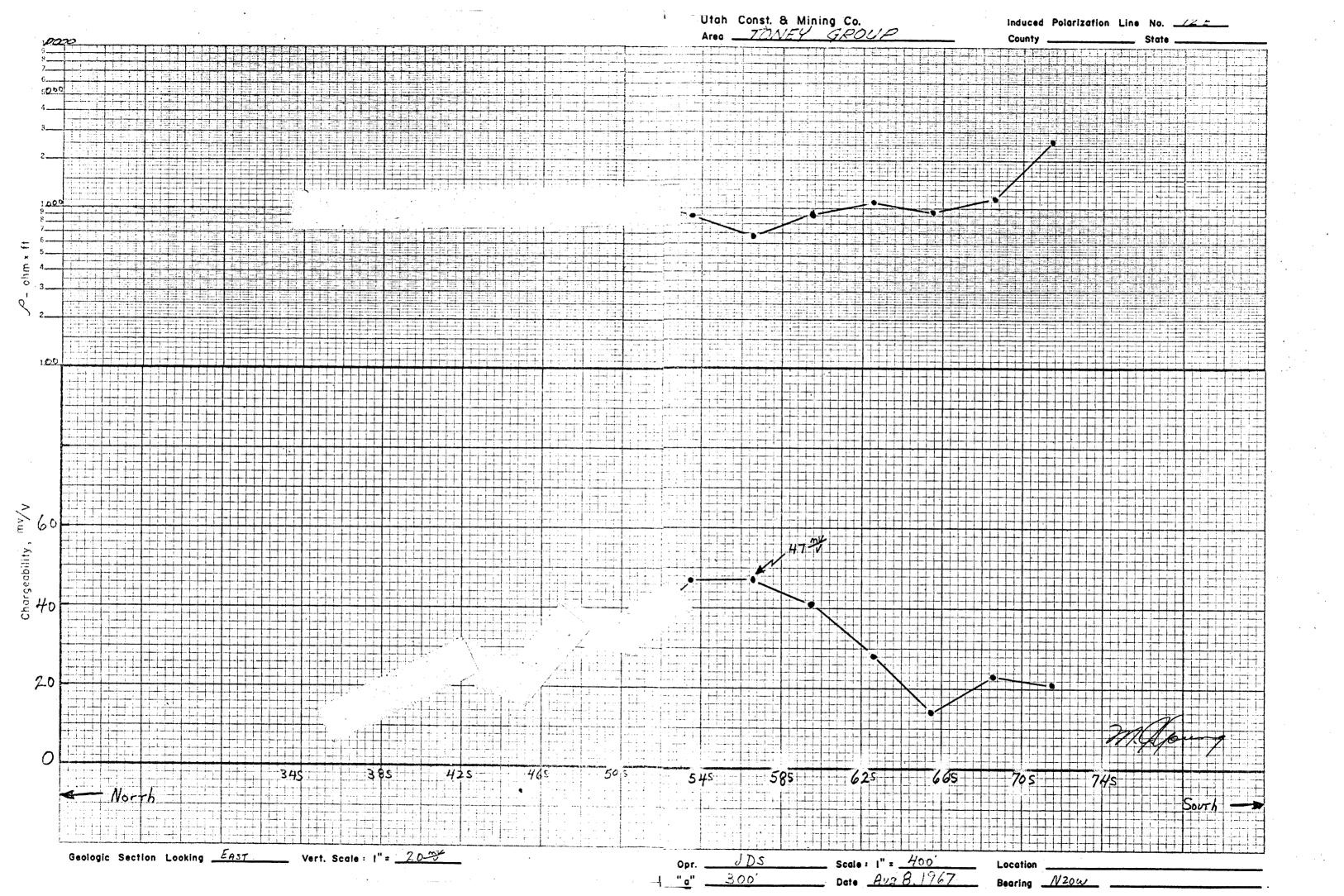


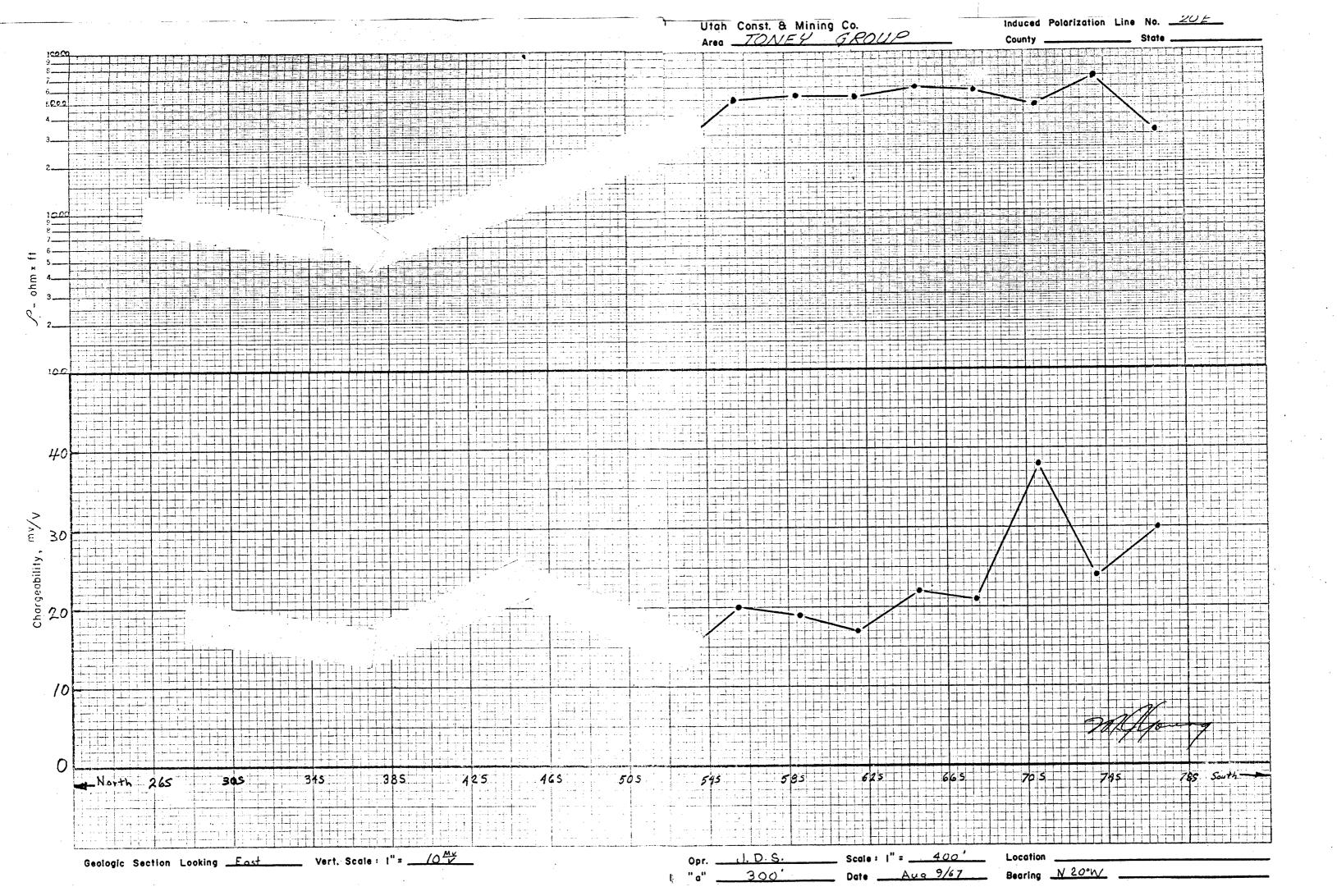


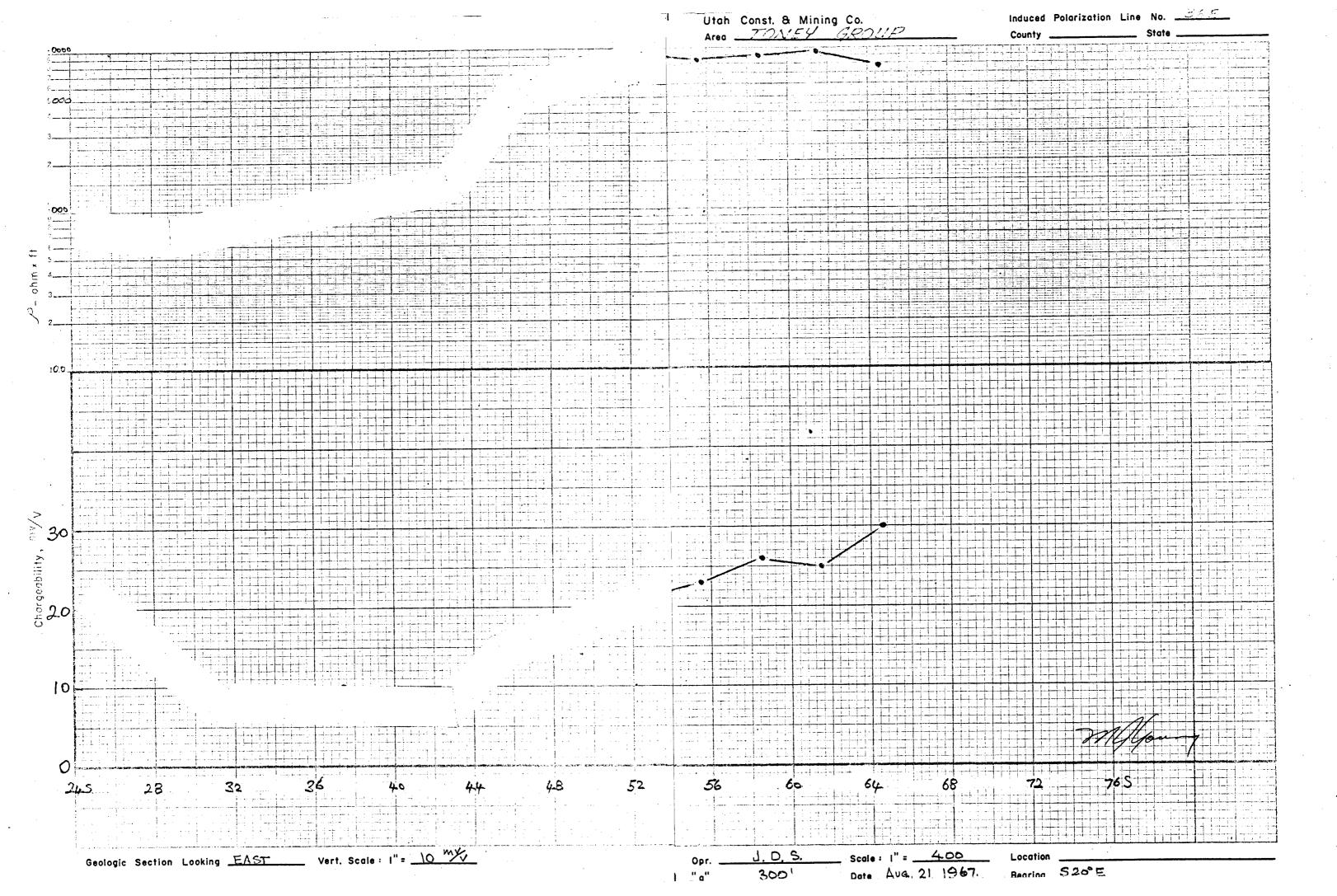


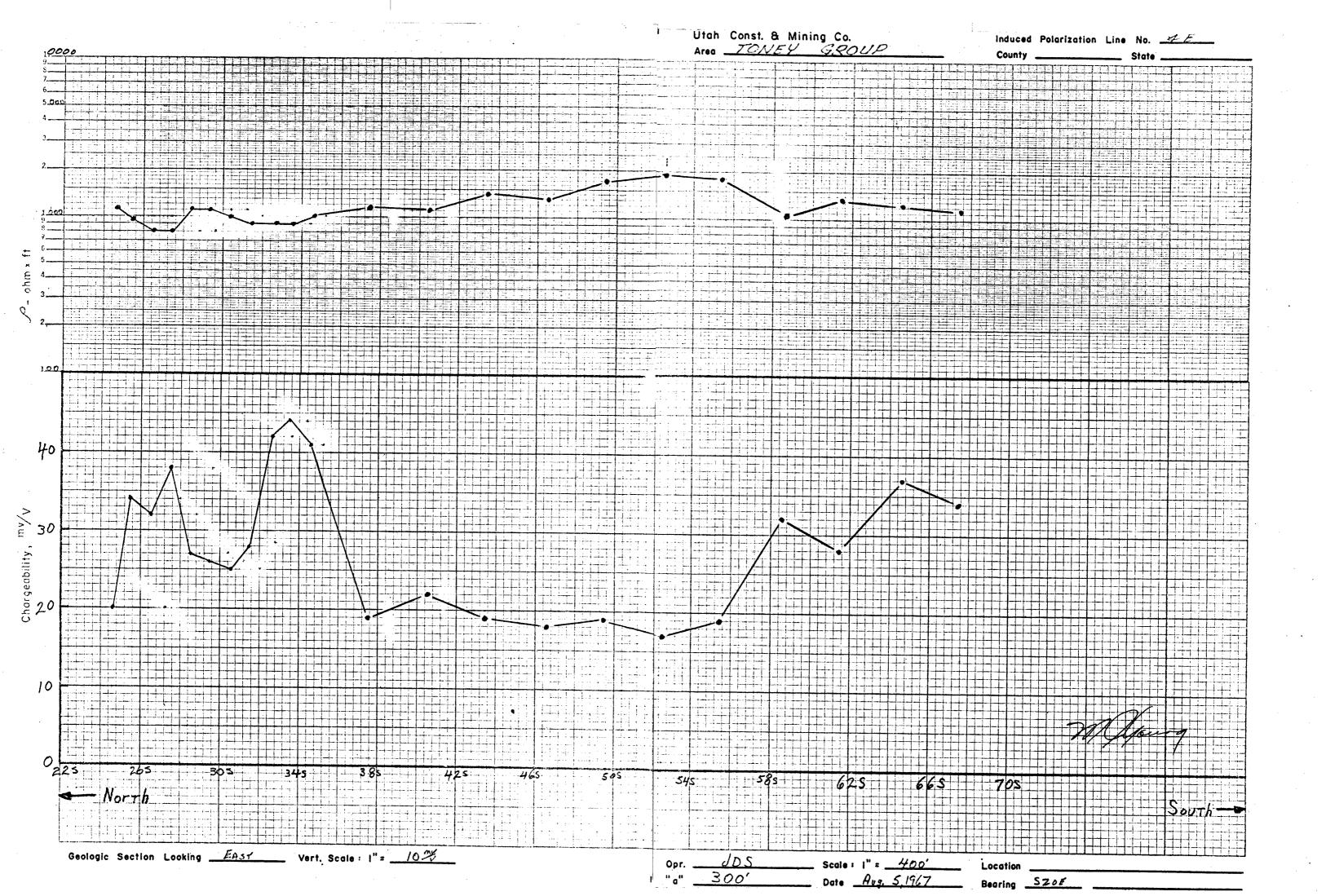


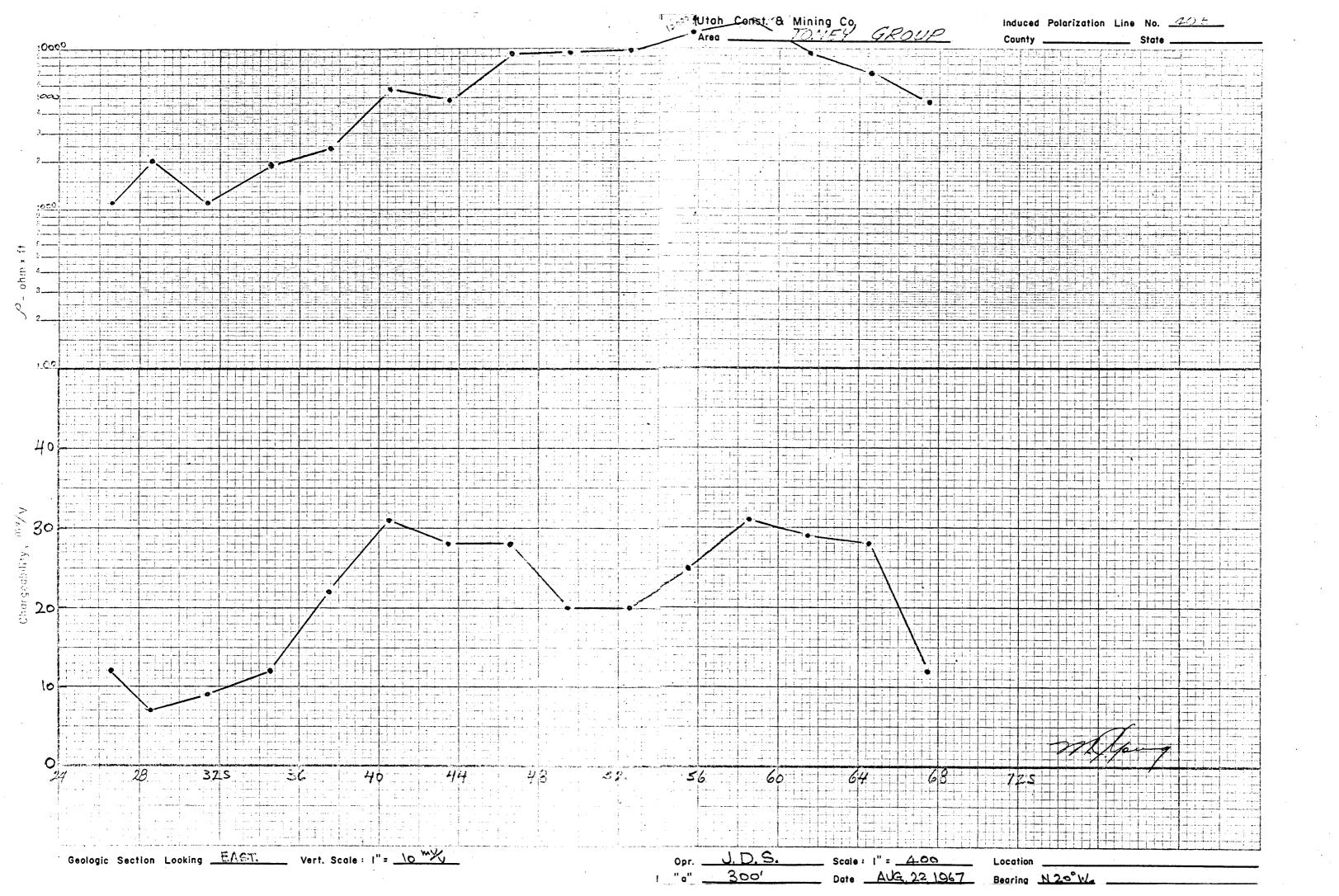


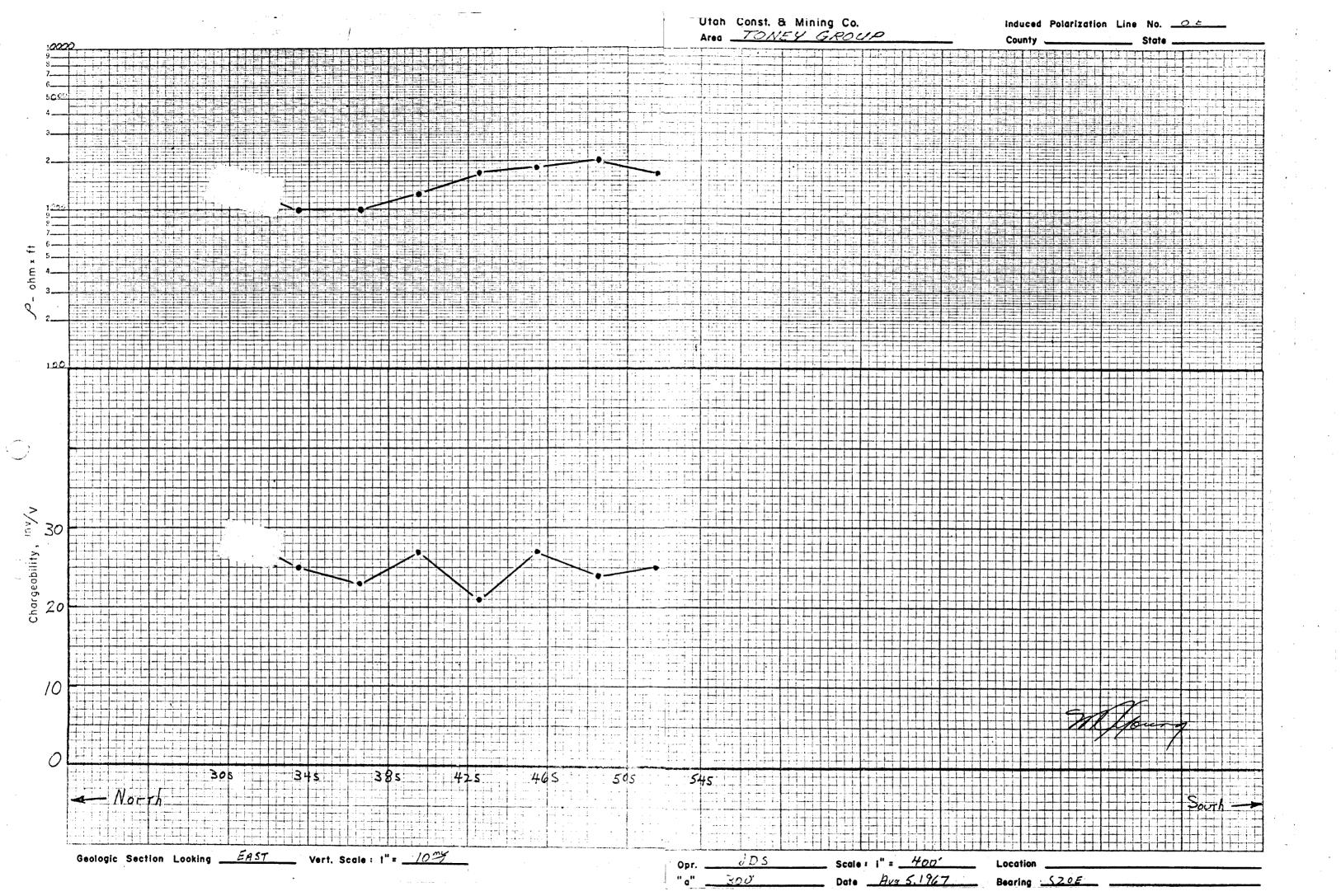




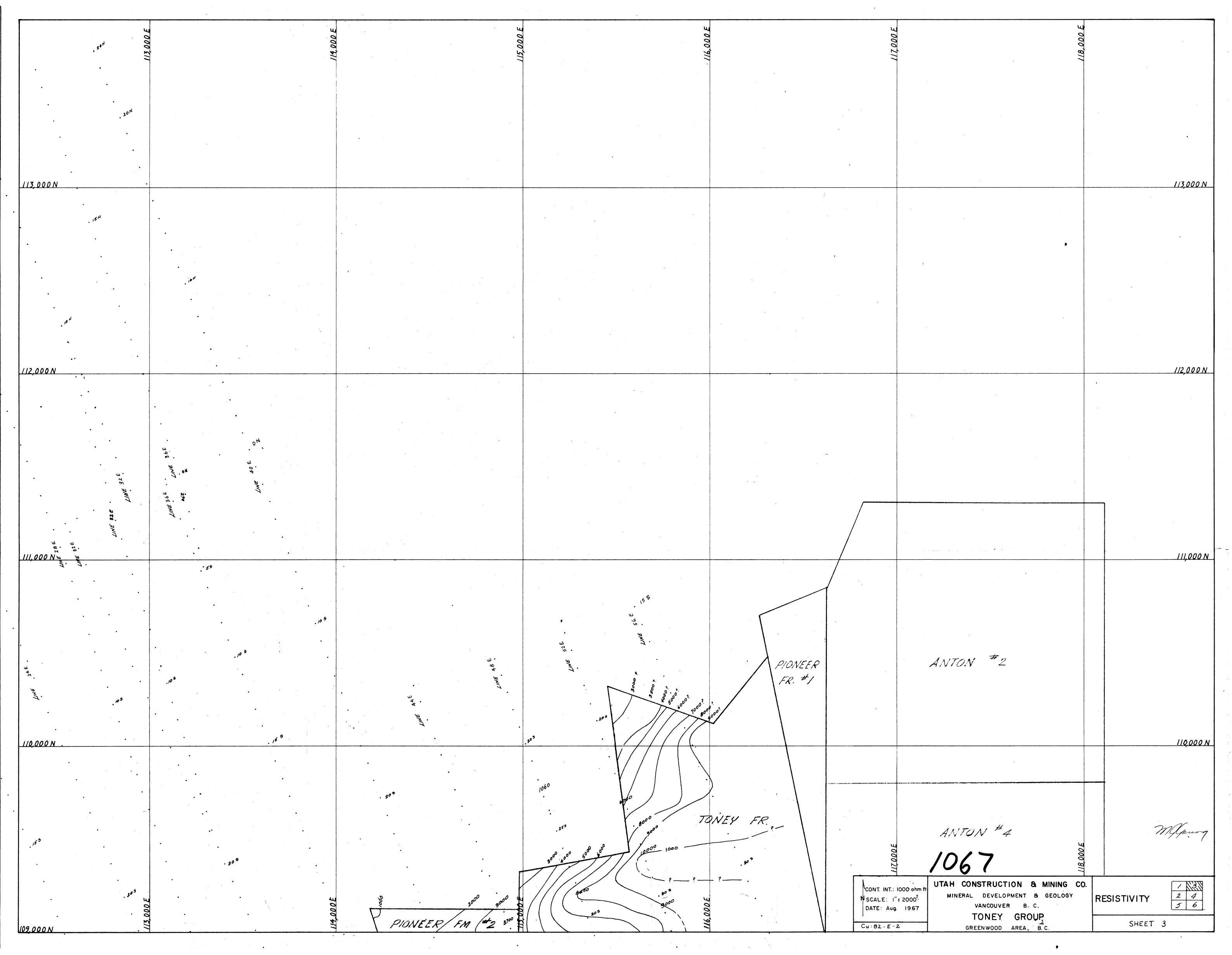


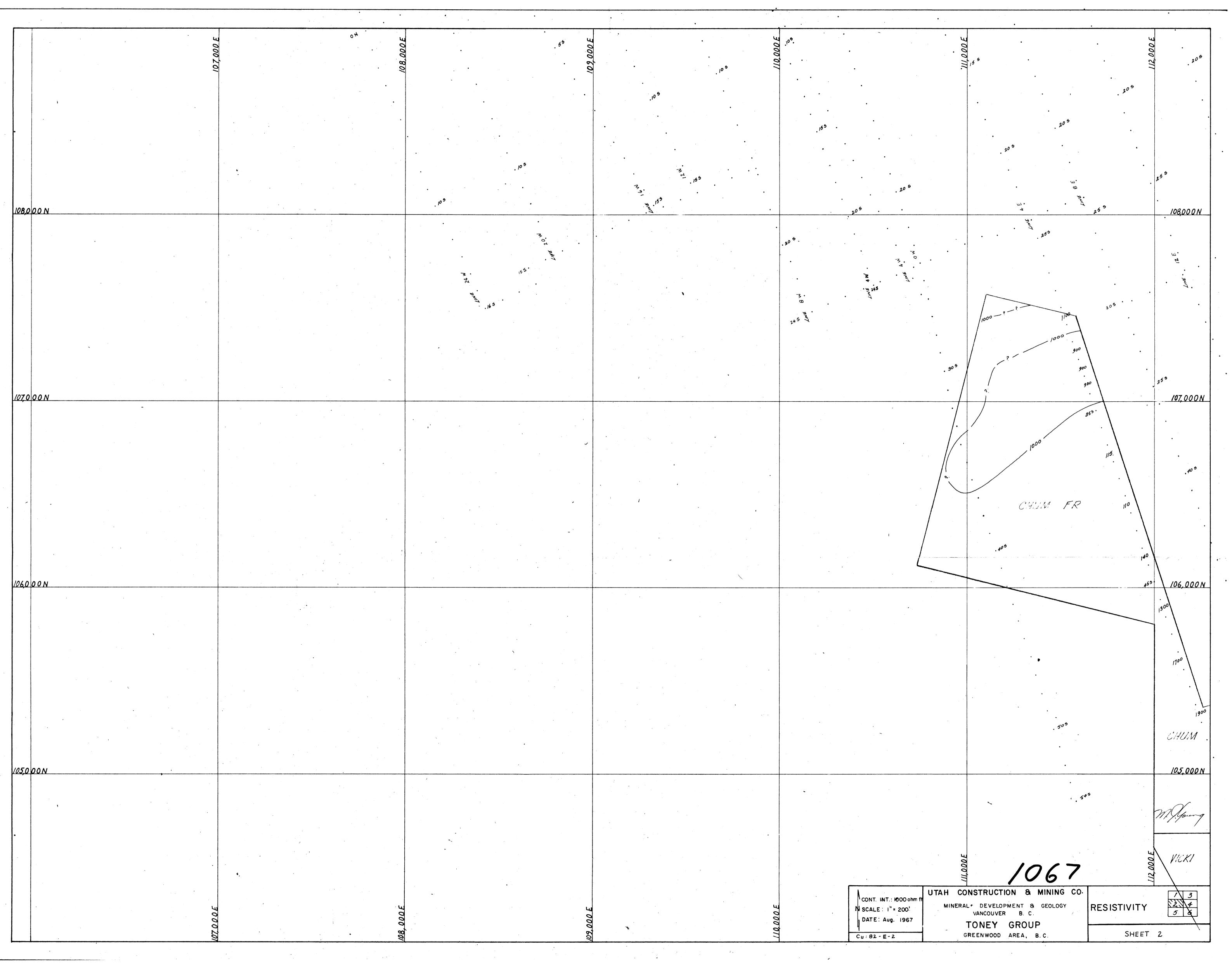


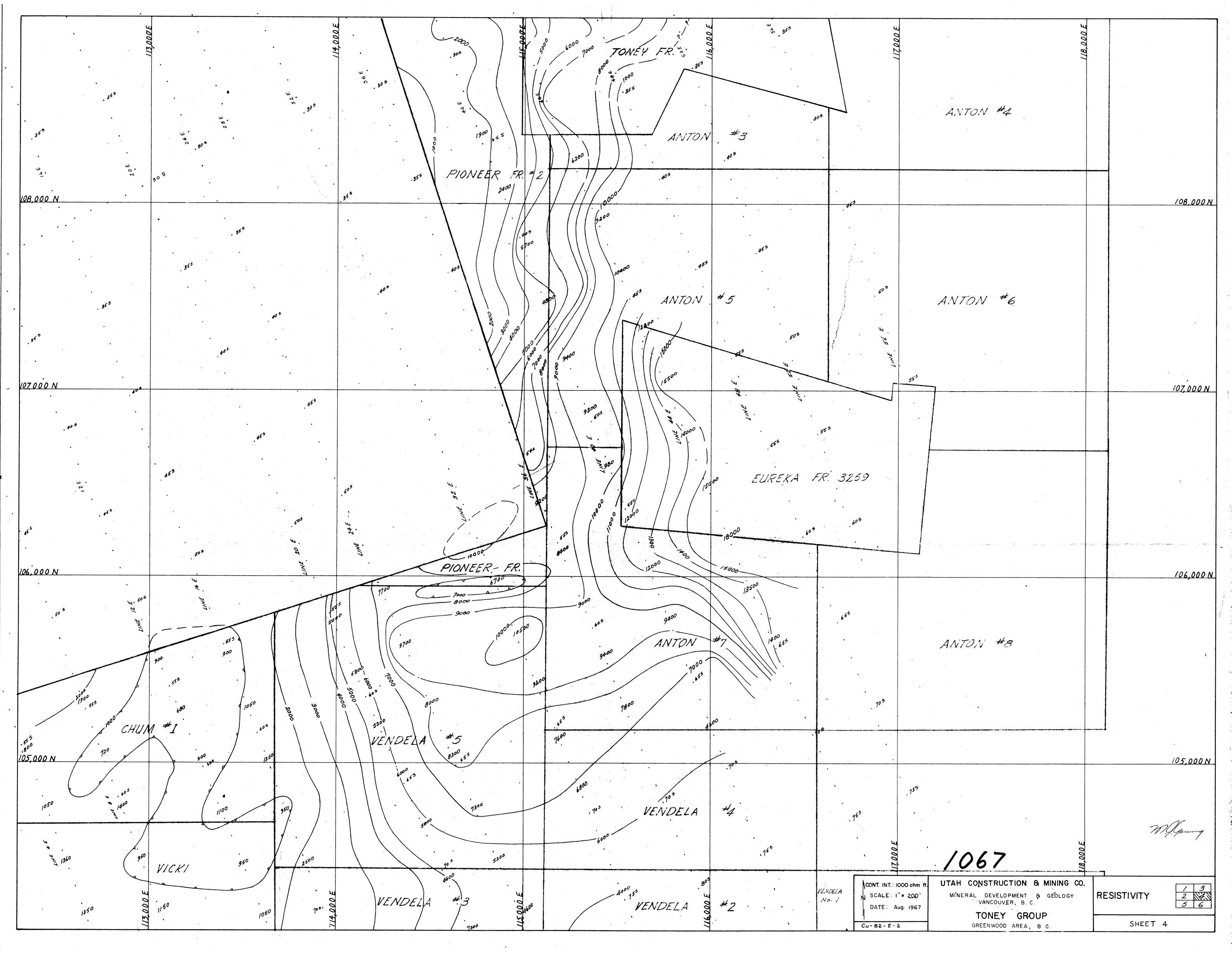




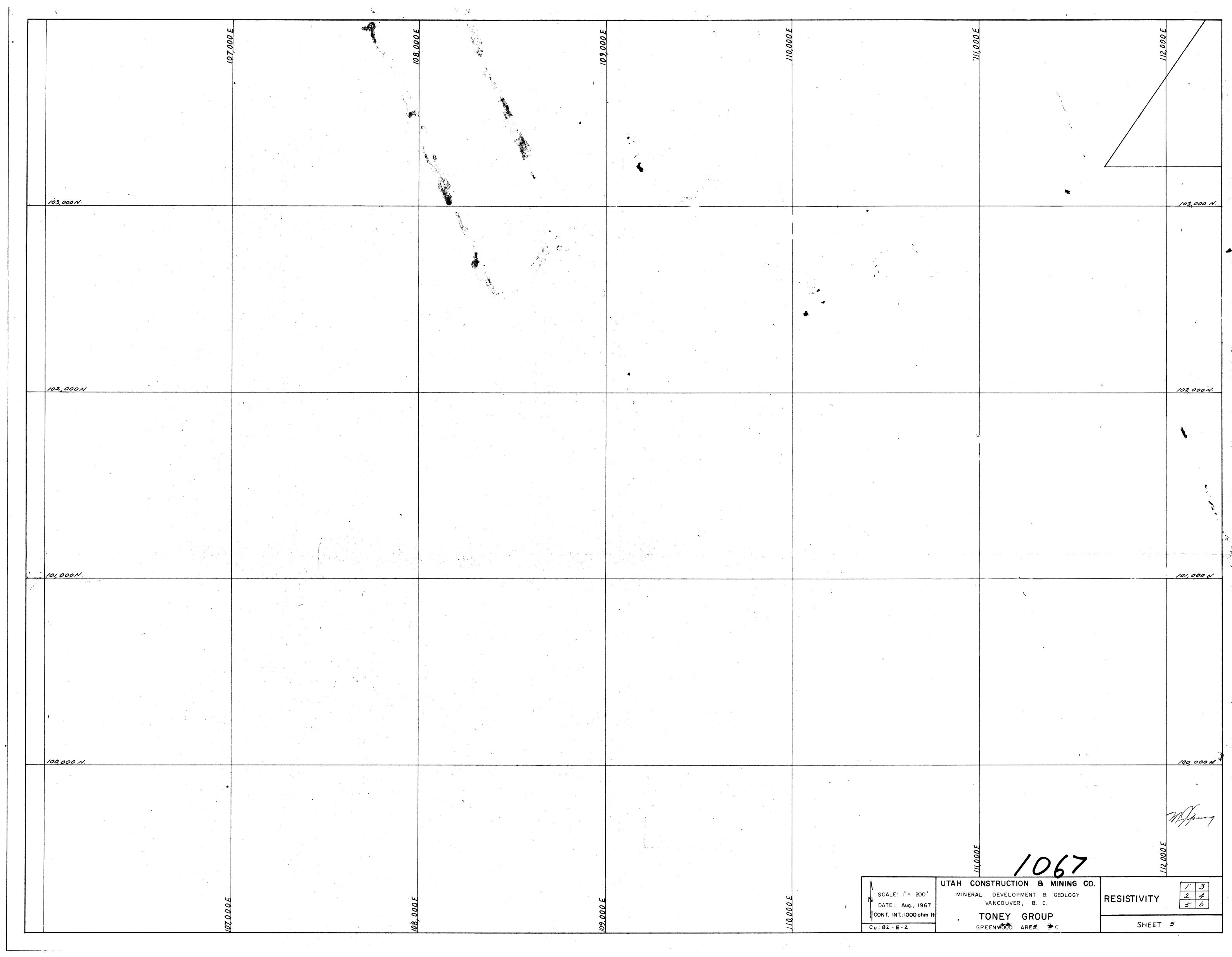
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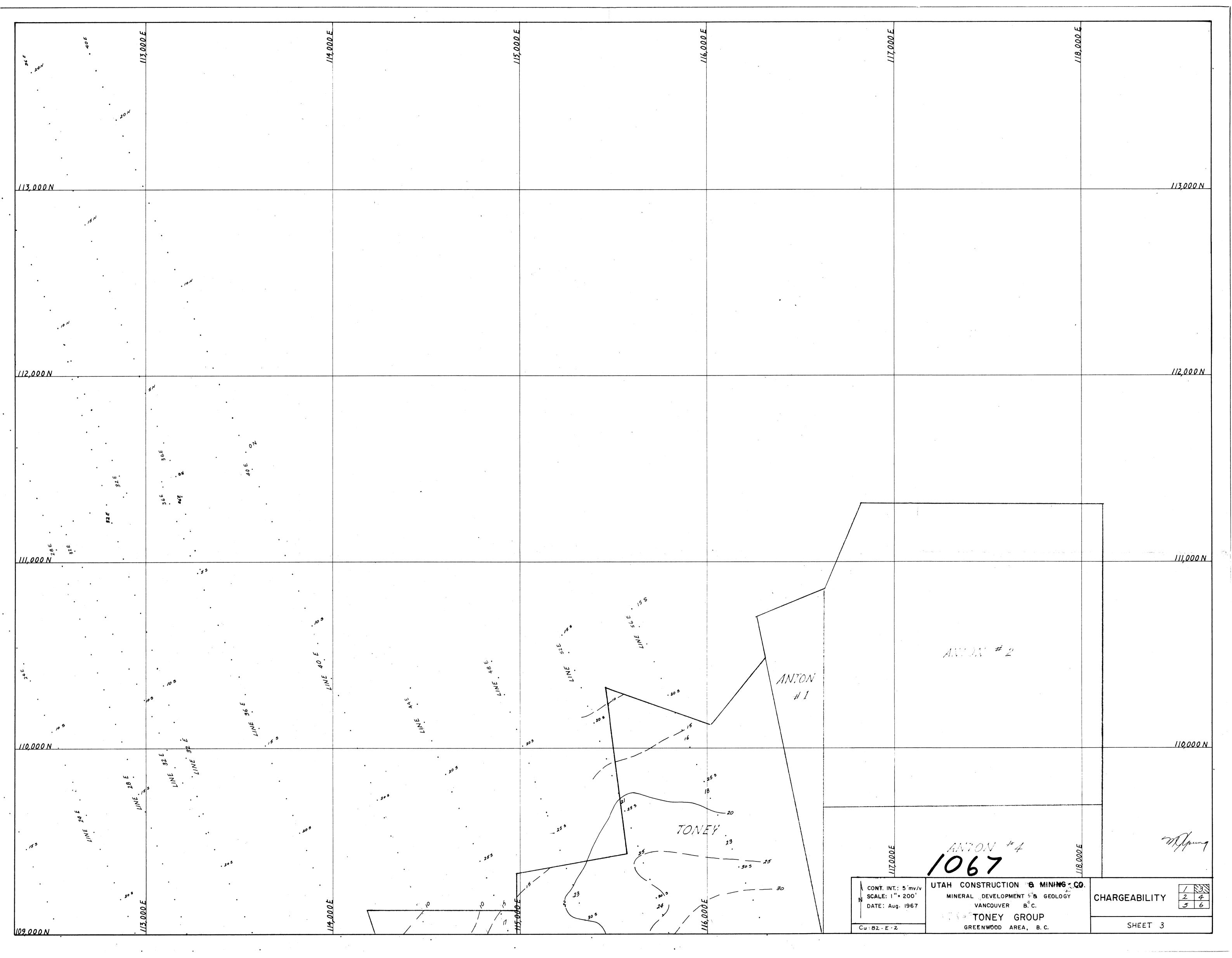


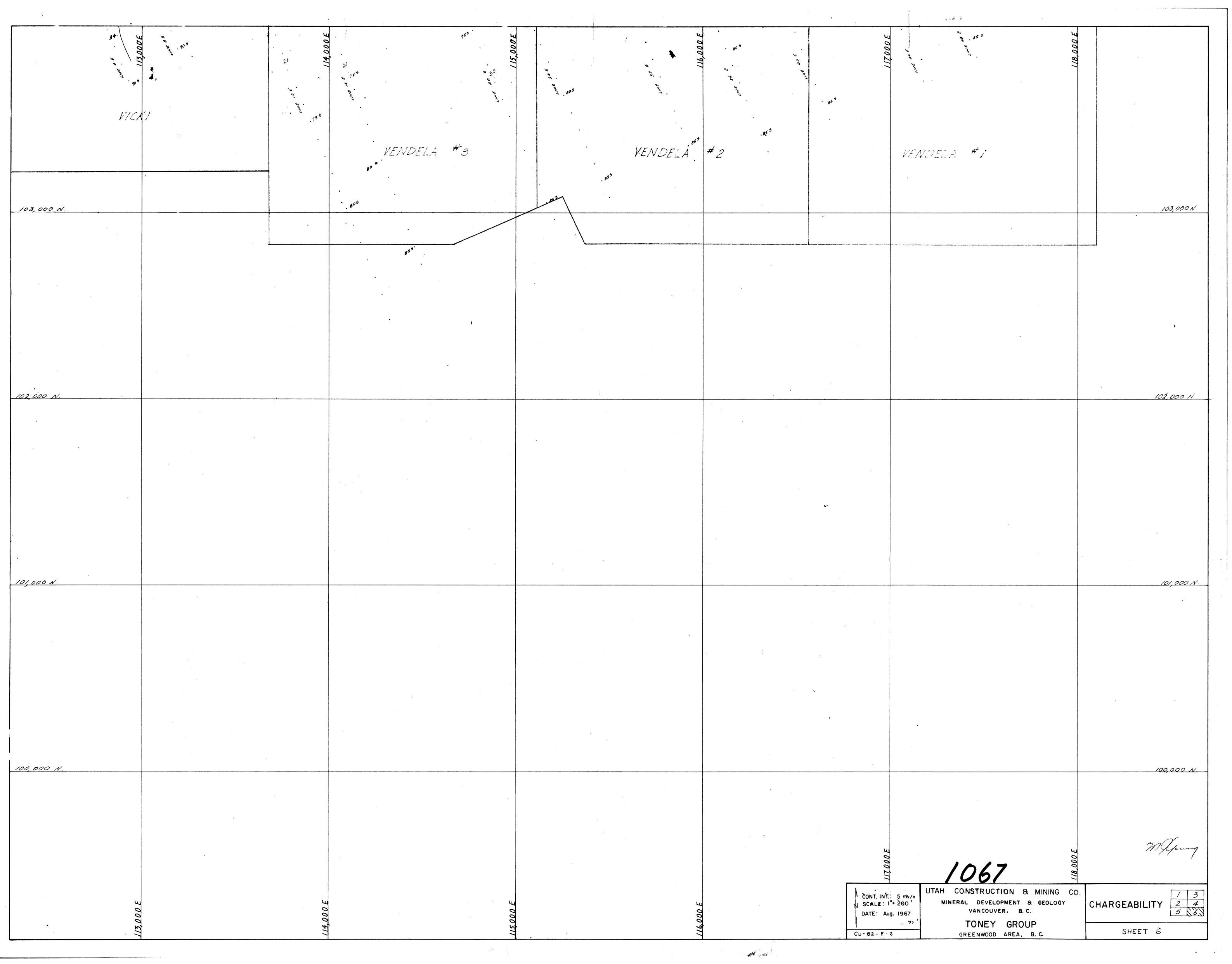




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