LAND 82-160

ASSESSMENT REPORTS

MAP No. 105-K-5 TYPE OF WORK: Geophysical

REPORT FILED UNDER	Dynasty Explorations Limited
DATE PERFORMED	31 Aug - Sept 1970 DATE FILED: 27 Aug 71
LOCATION – LAT.	62° 25' N Location 20 miles
LONG.	133° 50' W NW of Far o
CLAIM Nos.	JEAN GRP 1 - 28 Tintina Project
WORK DONE BY	W. J. Roberts
WORK DONE FOR	Dynasty Explorations Limited
REMARKS	Property is overburden covered; bedrock is believed to be Unit 3 - graphite-sericite phyllites.
	A gravity survey was made - a single line of stations 100 feet apart, perpendicular to the long axis of an airborne mag anomaly.
	$1,464.98

GEOPHYSICAL REPORT ON

THE JEAN CLAIM GROUP

TINTINA PROJECT

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representing work to the amount of $1460.58

Anvil District
Yukon Territory

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

Commissioner of Yukon Territory

I hereby certify that the within instrument is a true and correct copy of the original of which it purports to be a copy and which was duly stored in the Office of the Mining Recorder at Whitehorse, Y.T.

this day of

19 under number

Dated at Whitehorse, Y.T. this

day of 19

Mining Recorder,
Whitehorse Mining District

Longitude: 133°50'W
Latitude : 62°25'N

N.T.S. 105-K-5

Field work done in the period
August 31st - September 30, 1971

By

WAYNE J. ROBERTS

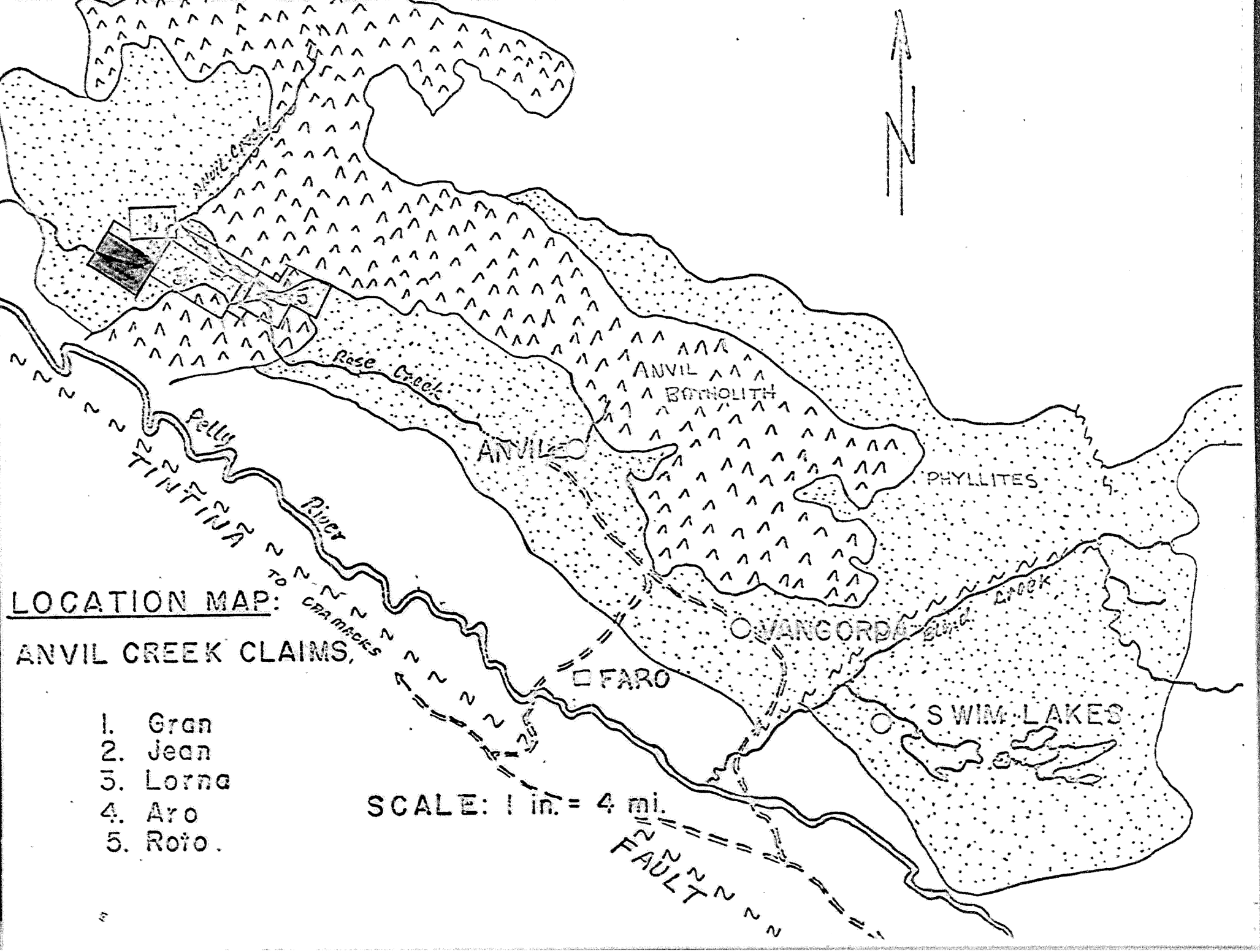
DYNASTY EXPLORATIONS LIMITED

February, 1971

TABLE OF CONTENTS

LIST OF CLAIMS

Name	Grant Number	Recording Date
JEAN 1-28	Y58803-Y58830	Sept. 14, 1970



LOCATION MAP:

ANVIL CREEK CLAIMS,

1. Gran
2. Jean
3. Lorna
4. Aro
5. Roto.

SCALE: 1 in. = 4 mi.

GEOPHYSICAL REPORT ON THE JEAN CLAIM GROUP TINTINA PROJECT

INTRODUCTION

Dynasty Explorations Limited undertook a program of outlining and delineating airborne magnetic and electromagnetic anomalies in the northwestern portion of the Anvil phyllite belt which contains three known replacement lead-zinc deposits. Several anomalies similar to ones caused by known deposits occur in an area of favourable stratigraphy and nearby granitic intrusives and were thought to warrant further investigation. A total of 208 claims were staked in five groups covering prominent anomalies.

The Jean 1-28 claims cover a weak westerly elongate aeromagnetic anomaly illustrated on the accompanying "Airborne Magnetometer Survey Map" . This three-quarter mile long anomaly occurs at the base of a ridge in the overburden covered Anvil Creek valley. Follow-up consisted of two gravity lines acorss the geophysical feature and geologic mapping in the surrounding area.

LOCATION AND ACCESS

The Jean Group borders the Lorna claims on the west and occurs along a southern portion of the Anvil Creek valley, approximately 20 miles northwest of Faro and 8 miles northwest of Rose Mountain. Access is by road to Faro or the Anvil Mine then by helicopter to the property.

REGIONAL GEOLOGY

The Anvil District lies along the northeast side of the Tintina Trench, a zone of major northwest transcurrent faulting, and occurs as a belt of metasediments of probable early Paleozoic age arched over a central core of Cretaceous granodiorite, the Anvil batholith. The structure being a double plunging anticline with a northwest trending fold axis slightly arched plunging both to the northwest and southeast. The phyllite belt, noted on the accompanying Location Map, consisting of quartz-mica schists, sericite schists, sericitic to graphitic phyllites and greenstone lenses is the host for the massive stratiform replacement sulphide deposits in the area. The degree of metamorphism tends to increase from the Swim Lakes area northwest to Anvil which may benoticed both in the change in metamorphic facies and variability of sulphide grain size within the deposits.

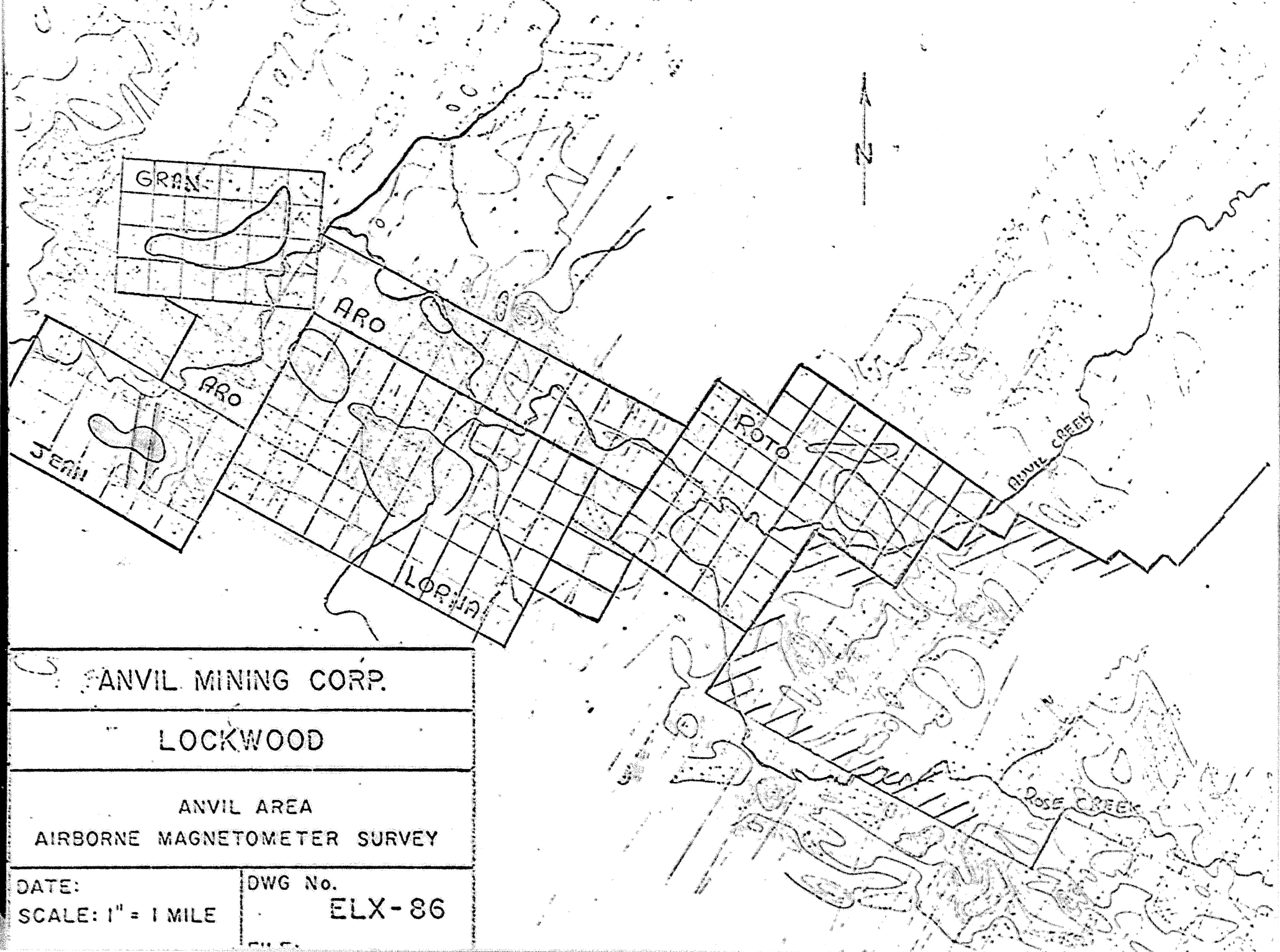
GEOLOGY

The Jean Claims are entirely covered by overburden consisting of glacial fluvial sands and gravels deposited by Anvil Creek. Bedrock is thought to be Unit Number 3, light to dark grey graphitic-sericitic phyllites with lenses of greenstone, interpreted from foliation and lineations in outcrop to the east and west of the claims. The Anvil Creek fault appears to underlie the eastern border of the claim group. On the ridge to the south, pyrrhotite with minor sphalerite and chalcopyrite was noted in a greenstone lens.

GEOPHYSICAL SURVEYS

Gravity Survey

The gravity survey, contracted by Overland Exploration Services, was conducted over the magnetic anomaly using a cut line roughly



ANVIL MINING CORP.

LOCKWOOD

ANVIL AREA
AIRBORNE MAGNETOMETER SURVEY

DATE:
SCALE: 1" = 1 MILE

DWG No.
ELX-86

FILE:

perpendicular to the elongation of the anomaly. The horizontal and vertical survey was conducted with a T-1A Theodolite to establish elevations. The gravity readings were taken with a Worden Master meter at every 100 ft. station along the line. Checks were made every two and one-half hours back to the base station for controlling diurnal drift. All field results were sent to Calgary head office for corrections and initial interpretation. All readings were corrected for diurnal tidal drift, Bouguer Free-Air-correction, latitude correction, and terrain correction. A density factor of 0.06 for a surface density of 2.65 was used in the interpretation. All resulting maps were then sent back to the field for further interpretation.

Since only a single line was surveyed, little of the regional trend was established, the accompanying "Bouguer Gravity Map" located in Appendix III has little meaning. There appears to be no evidence of any residual anomaly which could be equated to a massive sulphide body. The Bouguer Map indicates that the central portion of the line covers a mass with a slightly greater density than the surrounding rock to the north and south.

CONCLUSIONS AND RECOMMENDATIONS

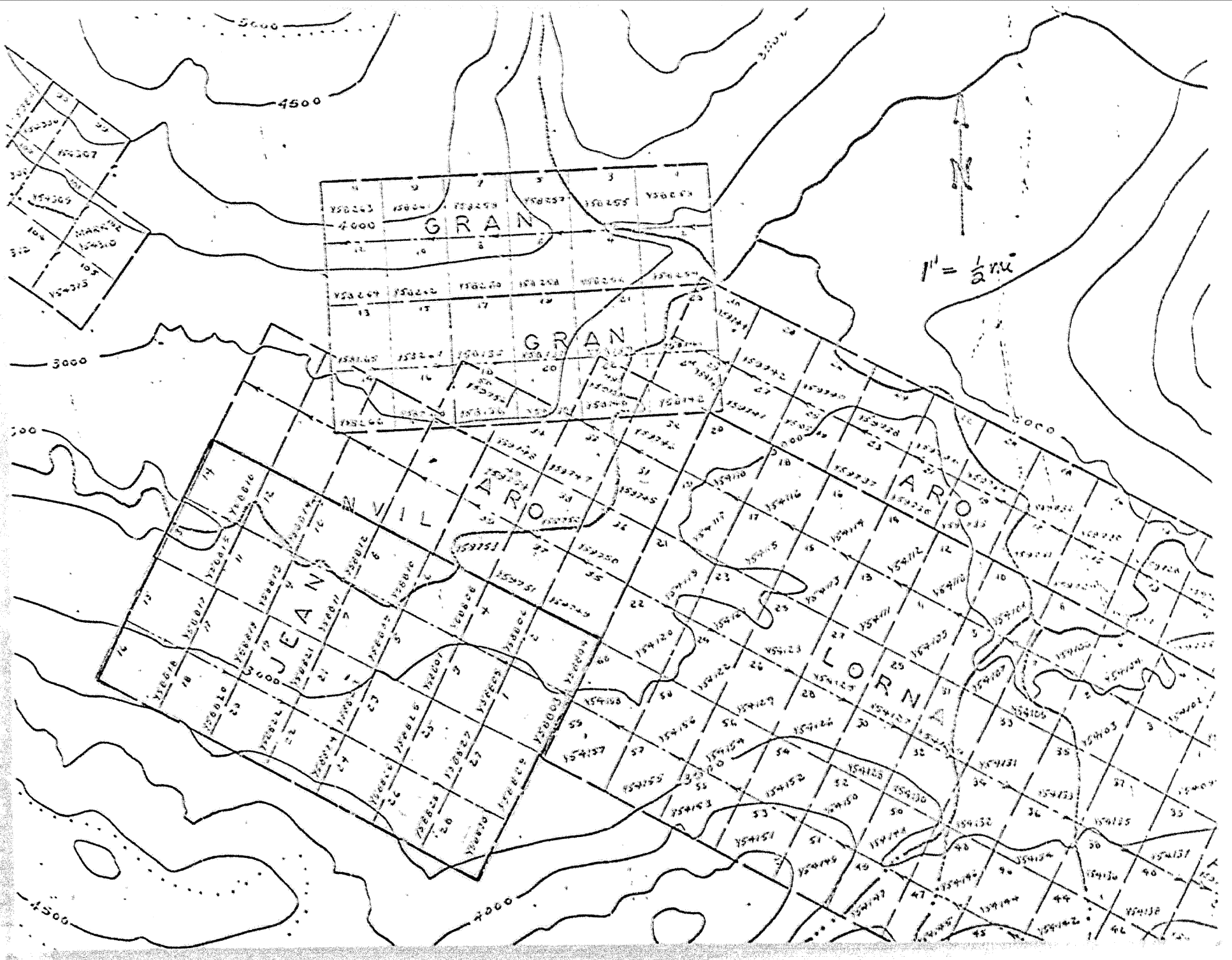
Presently, results from the gravity survey have indicated that the structure causing the aeromagnetic anomaly does not have a great enough density contrast to equal it to a massive sulphide body. It is thought that the aeromagnetic anomaly is caused by east-west trending slightly magnetic greenstone lens and that further conclusive evidence consist of an electro-magnetic survey.

Respectfully submitted,

W. J. Roberts,
Geologist

February, 1971,

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
R. E. GORDON DAVIS


GRAN
GRAN
JUAN
ARO
ARO
LORNA
N
1" = ½ mi
5000
4500
4000
3000

ATLAS EXPLORATIONS LIMITED

GEOLOGY MAP OF THE ANVIL CREEK AREA

N.T.S.		SCALE
105 K 5		1 in. = 1/2m.

DATE OF SURVEY: SEPT. 1970	PARTY-CHIEF: B. KARVINEN
DATE DRAFTED: 1970 - 71	DRAFTED BY: KARVINEN, DEAN
DATE REVISED	REVISED BY:
CHECKED BY:	FIGURE No:

10 BIOTITE GRANITE-QUARTZ MONZONITE PORPHYRITIC IN PLACES

8 MASSIVE META-BASALT, CHLORITE SCHIST, AMPHIBOLITE, CHL.-TALC-AMPHIBOLE ROCK

3 BLACK-GREY GRAPHITIC PHYLLITE; HORNFELSIC BANDED QTZ PHYLLITE

1 MICA-SERICITE-QUARTZ SCHIST, SOME STAUROLITE and GARNET

foliation F_1 — lineation L_1

foliation F_2 — lineation L_2

foliation F_3 — lineation L_3

ASSUMED FAULT

LIMIT OF MAPPING, OUTCROP

CONTACT

CLAIM BOUNDARYS

N

ANVIL CREEK

PELLY RIVER

GRAN

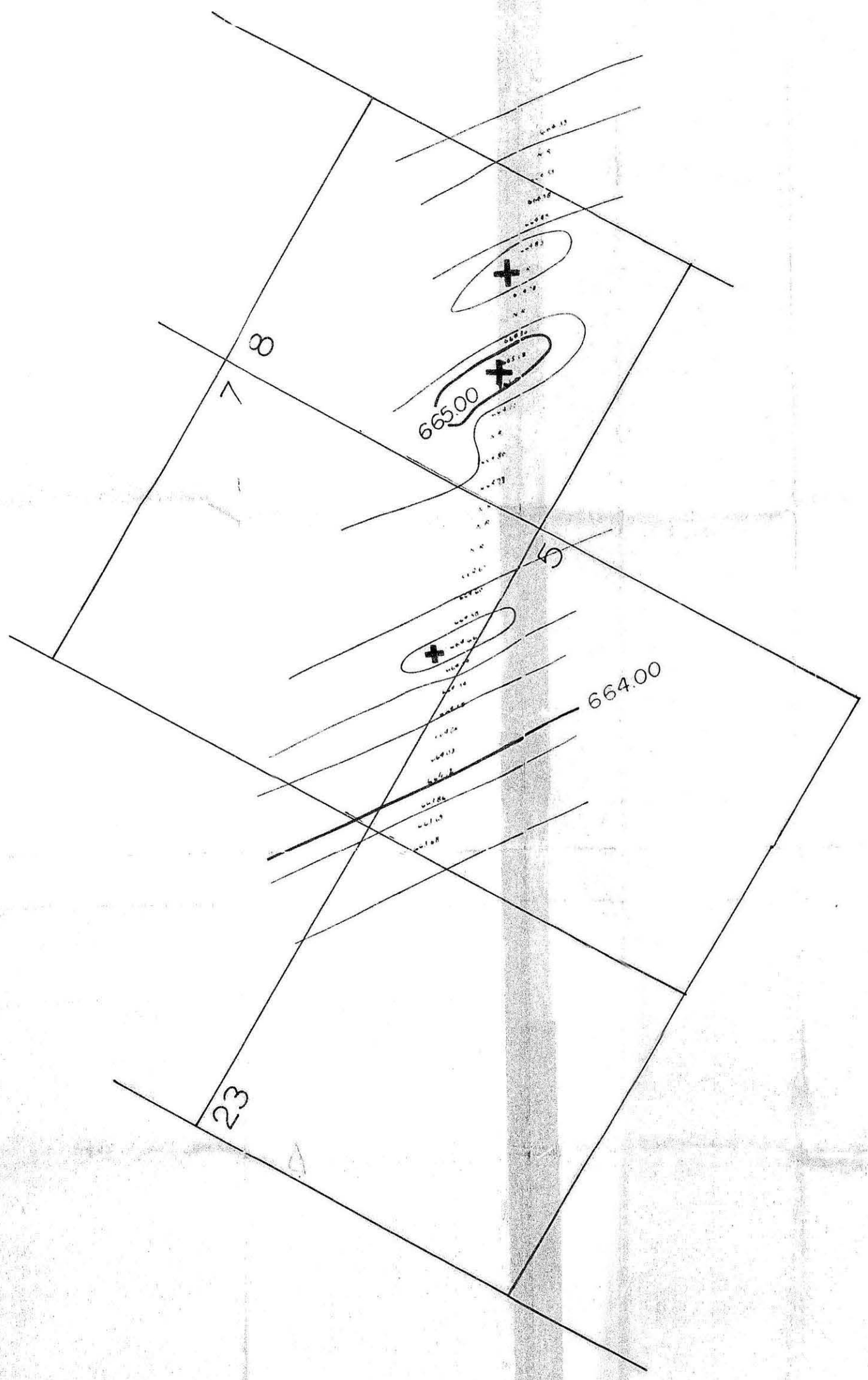
JEAN

LORNA

ARO

ROSE

ROTO



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OES

OVERLAND

EXPLORATION SERVICES LTD

FOR

ATLAS EXPLORATIONS LIMITED

JEAN CLAIM BLOCK

BOUGUER GRAVITY MAP

0.20 mgl

LIST OF PERSONNEL

Name	Position	Address
J. S. Brock	Vice-Pres. Exploration Geophysicist	Vancouver, B.C.
W. Karvinen	Geologist	Vancouver, B.C.
W. J. Roberts	Geologist	Vancouver, B.C.
P. Dean	Party Chief	Vancouver, B.C.
J. Etzel	Linecutter	Ross River, Y.T.
G. Schakoon	Linecutter	Ross River, Y.T.

Contractors

Overland Exploration Services	Calgary, Alberta
Trans North Turbo Air	Whitehorse, Y.T.