

MAP NO.: ASSESSMENT REPORT X
115 G 5 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092744
MINING DISTRICT: Whitehorse
TYPE OF WORK: Geochemical, geophysical

REPORT FILED UNDER: Lodestar Explorations Incorporated

DATE PERFORMED: 14-19 June, 1989

DATE FILED: 5 September, 1989

LOCATION: LAT.: 61°29'N
LONG.: 139°43'W

AREA: Donjek River

VALUE \$: 5600.00

CLAIM NAME & NO.: MISSY 1-28 (YA97660-87)

WORK DONE BY: G.S. Davidson

WORK DONE FOR: Lodestar Explorations Incorporated

DATE TO GOOD STANDING:

REMARKS: #85 DONJEK

The MISSY claims cover aeromagnetic anomalies on the east side of the Donjek River flats south of Arch Creek. 15 rock samples collected in 1989 and analysed for Pt, Pd, Au, Cu, Ni and Cr returned low values. A strong northwest-trending magnetic high coincides with anomalous Pt-Pd-Au soil values from a previous survey.

092744

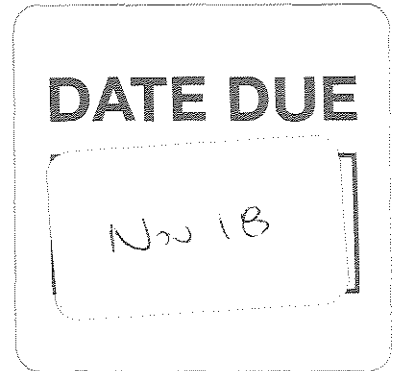
of basement and (top of)
the Geological Survey of
Canada (GSC) Yukon District
as follows: (1) The
report is the result of
a field visit to the
claims on the

ASSESSMENT REPORT

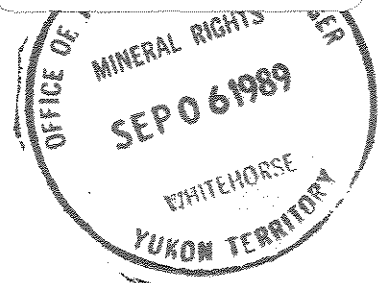
on the

Regional Manager, Exploration and
Geological Services for
Yukon District

MISSY 1-28 MINERAL CLAIMS
(YA97660-YA97687)
Whitehorse Mining District
NTS 115 G-5
Lat. 61 29'N Long. 139 43'W



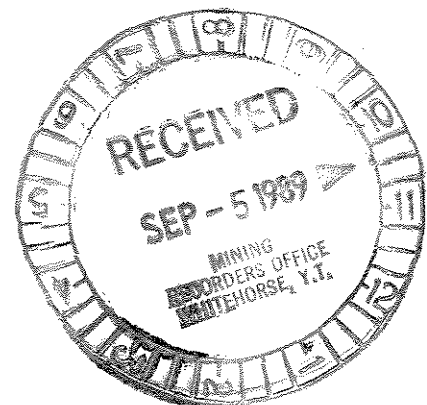
For: LODESTAR EXPLORATIONS INC.
19-4078 Fourth Ave.
Whitehorse, Yukon



By

G.S. DAVIDSON, P. Geol.

September, 1989



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 5600.00.

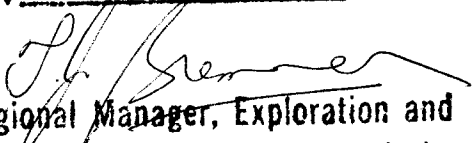
for 
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.



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APPENDIX-Certificate of Analysis

INTRODUCTION

The MISSY claims cover aeromagnetic anomalies located on the east side of the Donjek River flats, south of Arch Creek. The property is underlain by Skolai Group sedimentary rocks, Upper Triassic gabbro and Nikolai Greenstone. The nearby Wellgreen deposit, a large tonnage low grade nickel, copper and platinum group element orebody, is hosted by similar geology.

This report describes prospecting, grid development and a magnetometer survey performed on the east side of the claim block by B. Harris and the writer. The work was undertaken from June 14-19, 1989.

LOCATION AND ACCESS

The MISSY claims are located 15 km south of the Alaska Highway's Donjek River bridge and 60 km northwest of Destruction Bay in the western Yukon Territory. The property is accessible by a gravel road which runs along the east side of the Donjek River to Arch Creek. This road is only passable to trucks during dry weather.

PHYSIOGRAPHY, CLIMATE, VEGETATION

The claims lie on the east side of the wide Donjek River valley. They cover the eastern expanse of large gravel flats cut by braided stream channels of the Donjek River. They also cover the low lying east bank of the river which features poplar and spruce forest. Elevations range from 750 to 950 m a.s.l..

The Donjek River flats are noted for dust storms and dust devils created by strong winds blowing off the Donjek, Spring and Steele Glaciers.

The Donjek River area has a northern interior climate with long cold winters and low annual precipitation. At the elevations encountered on the property exploration is possible on a year round basis.

Yukon Territory
Area: 478,034 sq. km.
Population: 25,000
Capital: Whitehorse

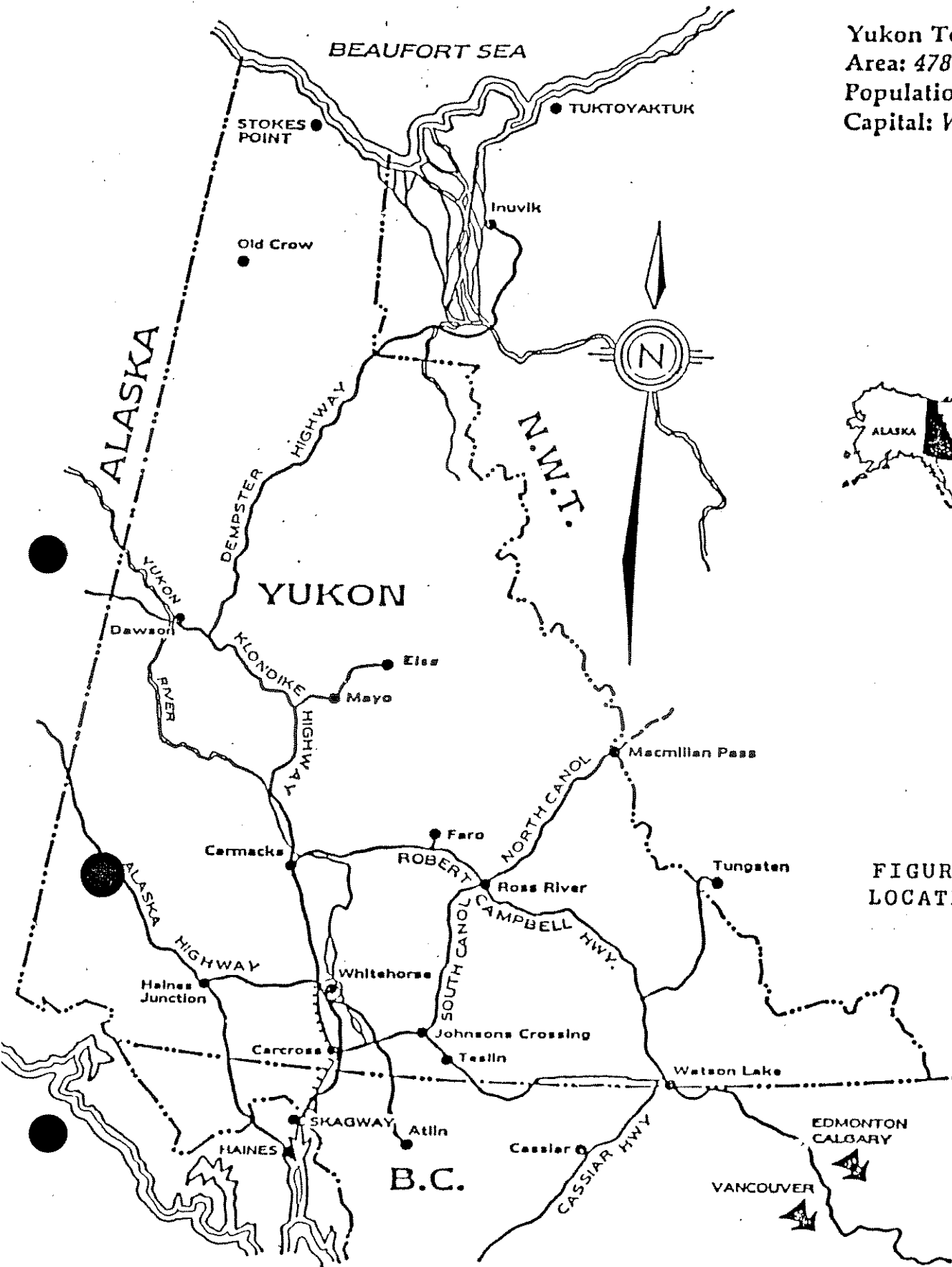


FIGURE 1
LOCATION MAP

PROPERTY

The property consists of 28 contiguous mineral claims registered with the district mining recorder in Whitehorse. The claims are held by Lodestar Explorations Inc. under the terms of an option agreement with Harjay Exploration Ltd.. A renewal period to June 19, 1991 has been requested for the MISSY 1-28 claims (YA97660-YA97687). The claim plan is shown in Figure 2.

HISTORY

The region was first explored in the early 1900's by prospectors looking for the sources of placer copper on the upper White River. The Canyon City native copper deposit was discovered in 1905. Limited development work uncovered several large tabular masses of native copper. In the early days a network of trails were established linking the gold fields in central Alaska to Whitehorse and coastal Alaska. Many miners and prospectors travelled through the district en route to the various gold finds. Miners have been active on most of the streams in the Kluane area, since the turn of the century.

In the 1950's, the Kluane Ranges were intensely explored for copper-nickel mineralization. Two deposits, Wellgreen and Canalask, were discovered and developed. Hudson Bay Mining and Smelting Company mined the higher grade Wellgreen deposit from 1972-1973. It contained a reported tonnage of 728,000 tons grading 2.05% nickel, 1.42% copper, 0.073% cobalt, 0.038oz/ton platinum, 0.027 oz/ton palladium and 0.005oz/ton gold. At the Canalask property an orebody with reserves of 550,000 tons assaying 1.68% nickel and 0.04% copper was outlined by surface diamond drilling and underground exploration, however no mining took place.

In the area of the MISSY claims, preliminary magnetometer and soil geochemical surveys were completed in 1988. Moderately anomalous values in Pt-Pd-Au were recorded in soil samples collected along the claim line.

The rise in the price of platinum group minerals in 1986-1987 prompted a surge of exploration throughout the Kluane Ranges. Resource companies active in the district include All-North Resources Ltd., Chevron Minerals Ltd., Pak-Man Resources Inc. and Silverquest Resources Ltd..

DONJEK RIVER
FLATS

JEK

MUS

ARCH CREEK

1	2	15	16
YA97660	YA97661	YA97674	YA97675
3	4	17	18
YA97662	YA97663	YA97676	YA97677
5	6	19	20
YA97664	YA97665	YA97678	YA97679
7	8	21	22
YA97666	YA97667	YA97680	YA97681
9	10	23	24
YA97668	YA97669	YA97682	YA97683
11	12	25	26
		MISSY	
YA97670	YA97671	YA97684	YA97685
13	14	27	28
YA97672	YA97673	YA97686	YA97687

PC

4500
4000
3500
3000

LODESTAR EXPLORATIONS INC.

CLAIM PLAN

DONJEK RIVER, YUKON TERRITORY

N.T.S. 115 G-5	TECH: G.D.	DATE: JULY 89
SCALE: 1:30,000	DRAUGHTING: G.D.	FIGURE: 2

REGIONAL GEOLOGY

The Donjek River area southwest of the Shakwak Valley is underlain by Carboniferous to Permian, and Triassic sedimentary and volcanic units intruded by granitic and mafic bodies of Cretaceous and Triassic age. The Shakwak Valley is part of the Denali Fault system, the structural division between the Coast Plutonic Belt and Wrangell Terrane in the southwestern Yukon. The geology of the district was released in Open File #B29 by the G.S.C.. Figure 3 shows the regional geology.

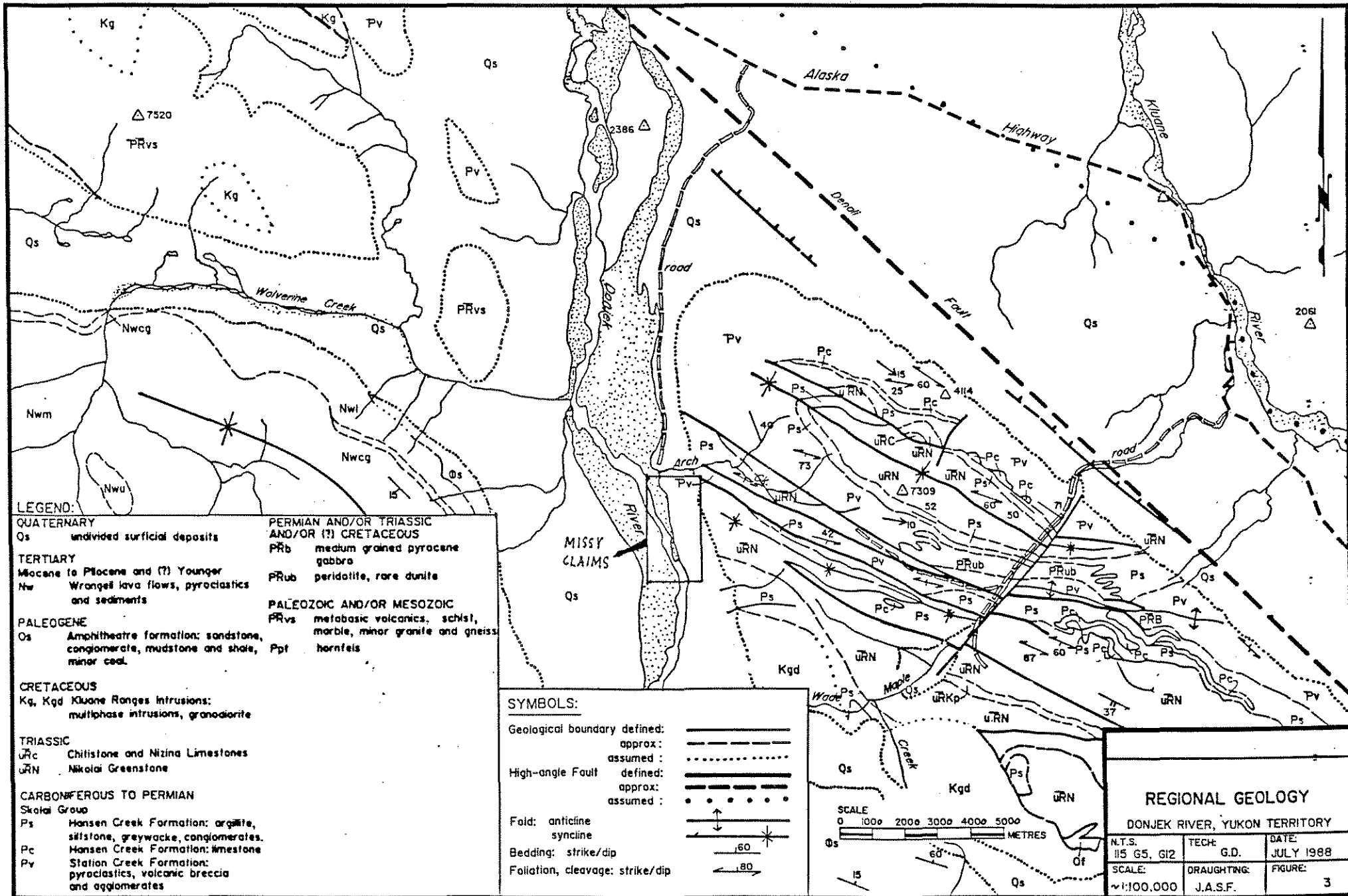
In the Kluane Ranges the most widespread group is the Carboniferous to Permian Skolai Group. It consists of two formations; the Station Creek Formation composed of green cherty tuffs and volcanic breccia, and the Hansen Creek Formation composed of argillite, siltstone, greywacke, conglomerate and limestone. Skolai Group strata strike NW-SE and contain variable amounts of chlorite, pyrite and base metal sulphides.

Triassic Nickolai greenstone also occurs extensively in the Kluane Ranges. It consists of fine to medium grained mafic flows which weather a dark green or purple colour.

The Kluane Ranges Ultramafic Belt, sills and elongated bodies of peridotite and gabbro of Triassic age, occur in rocks of the Skolai Group. The gabbros, serpentized peridotites and enclosing rocks host nickel and copper mineralization which contain low grade PGE metals.

The older layered sequences are cut by the Cretaceous Kluane Range Intrusions. They consist of multiphase intrusions of granite and granodiorite.

A .5-2 m wide layer of volcanic ash underlies the ground cover throughout district.



EXPLORATION PROGRAM

In June, 1989 the writer and B. Harris performed a magnetometer survey on 9.5 km of flag line grid and prospected the claim area. Figure 4 shows the grid location. The magnetometer survey utilized a Geonics model proton magnetometer. Total field readings were taken at 25 m intervals and corrected for diurnal fluctuation of the earth's magnetic field. The contoured readings are shown in Figure 6.

PROPERTY GEOLOGY

Outcrop on the property is restricted to a narrow canyon at the north end of the claims. Layered conglomerates, sandstone, shales and siltstone are well exposed in the canyon. The sediments are variably silicified and pyritized. Magnetic pyrrhotite occurs in some conglomerate beds. The sediments strike 130 and have a near vertical dip. Local brecciation of the layered rocks occurs around andesite and dacite dykes.

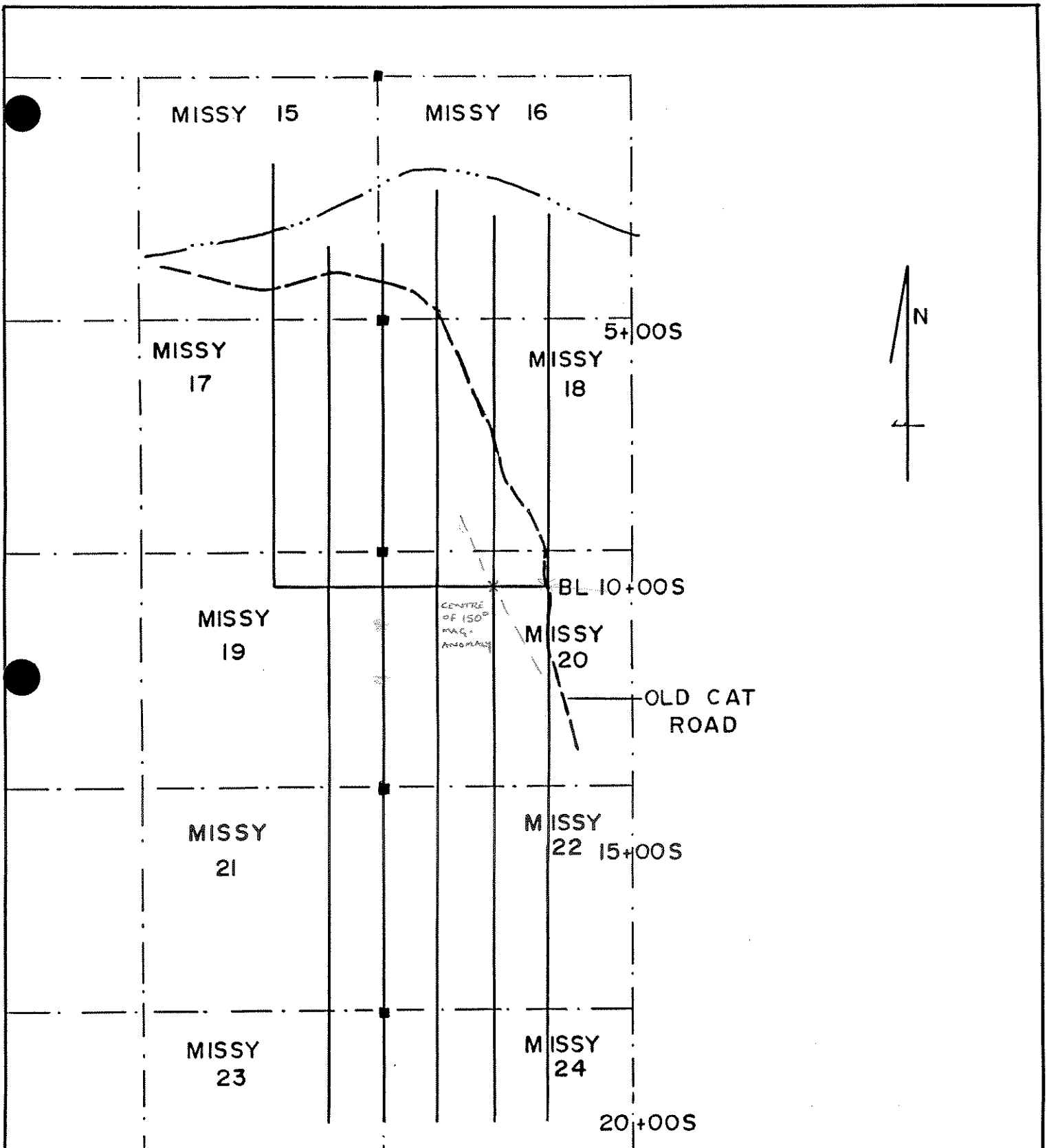
A gabbroic sill outcrops at the northeast end of the canyon near the claim boundary. The sill widens to the east before disappearing under overburden. Footwall and hangingwall rocks are brecciated, silicified and contain pyrite and pyrrhotite. The gabbro also contains minor pyrrhotite.

Fifteen rock samples were collected in the canyon and geochemically analyzed for Pt-Pd-Au-Cu-Ni-Cr. Table 1 lists the sample values and descriptions. Figure 5 shows the sample locations. The Geochemical Lab Report is presented in the appendix.

MAGNETOMETER SURVEY

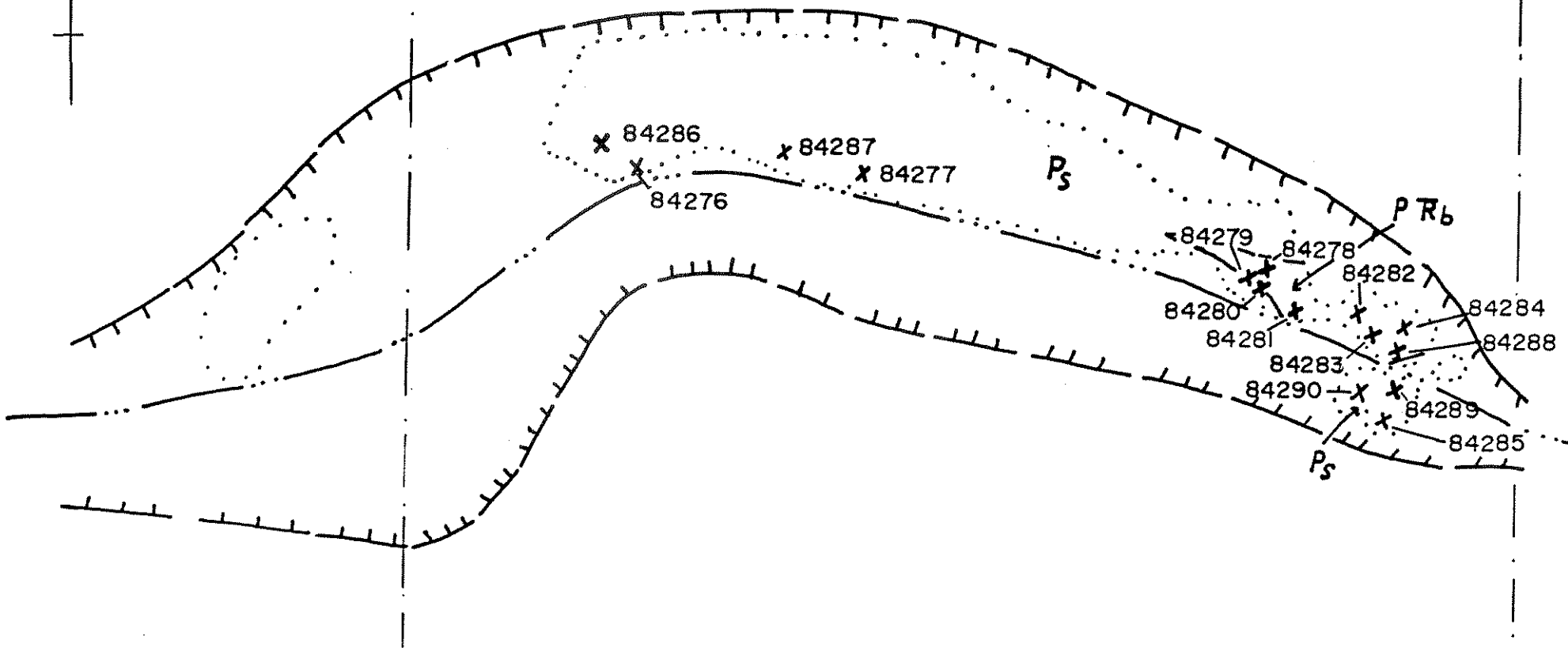
The magnetometer survey results are shown in Figure 6. The total magnetic field in the survey area varies from 57,059 to 59,902 gammas. The survey plan is contoured at 500 gamma intervals.

A strong linear magnetic high, coincident with the strike of the sedimentary rocks in the canyon, trends across the survey area at 150 deg.. This anomaly may outline a stratabound pyrrhotite or magnetite rich body in the sedimentary sequence. The magnetic high correlates moderately with anomalous Pt-Pd-Au soil values outlined in 1988.



LODESTAR EXPLORATIONS INC.		
PROPERTY PLAN		
N.T.S. 115 G-5	TECH. G.D.	DATE. JULY 89
SCALE 1:10,000	DRAUGHTING G.D.	FIGURE 4

MISSY 16



LODESTAR EXPLORATIONS INC.		
SAMPLE LOCATIONS MISSY CLAIMS		
NTS 115 G-5	TECH. G.D.	DATE.
SCALE 1:2,500	DRAUGHTING G.D.	FIG. 5

TABLE 1
ROCK SAMPLE VALUES AND DESCRIPTIONS

SAMPLE NUMBER	TYPE	DESCRIPTION	Au ppb	Pt ppb	Pd ppb	Cu ppm	Ni ppm
84276	grab	chert-pebble cong. 2% py+po	<5	<15	4	33	10
84277	grab	andesite dyke, minor po	<5	<15	<2	65	250
84278	grab	gabbro sill, calcite viens	<5	<15	2	108	25
84279	grab	dacite dyke	<5	20	<2	34	15
84280	grab	shaley siltstone	<5	<15	2	47	32
84281	grab	grey chert, po	<5	<15	<2	22	19
84282	grab	chloritic gabbro	<5	<15	2	83	44
84283	grab	siliceous fine gr. gabbro, py+po	5	25	25	100	44
84284	grab	same as above	<5	<15	2	108	41
84285	grab	grey chert, 2% py	<5	15	2	18	26
84286	grab	andesite dyke, qtz.- carb. viens	<5	<15	<2	18	15
84287	grab	chert-pebble cong. 2% py	<5	<15	<2	21	14
84288	grab	siliceous gabbro 1% py+po	7	<15	15	102	23
84289	grab	limestone, minor py+po	<5	15	10	68	52
84290	grab	shaley siltstone	<5	<15	<2	27	16

DISCUSSION AND RECOMMENDATIONS

The magnetometer survey has outlined a strong magnetic high which is somewhat coincident with anomalous Pt-Pd-Au soil values. The cause of the anomaly is unclear due to deep overburden in the survey area, however the magnetic trend is parallel to the local strike. This very interesting anomaly warrants detailed follow-up exploration.

Rock samples collected in the canyon returned low to background values in precious and base metals. However, none of these samples were taken in the magnetically anomalous area.

An exploration program designed to further define and expose the magnetic anomaly should include grid extension, detailed VLF and magnetometer surveys, trenching and geological supervision. The following program is proposed:

Geological mapping and supervision	\$ 4,500
Grid construction	5,000
VLF and magnetometer surveys	3,500
Trenching	10,000
Assays	1,000
Camp and support	3,500
Transportation	3,000
Report and assessment	2,500
Contingency	2,500
TOTAL	\$35,500

CERTIFICATE

I, GRAHAM DAVIDSON, of the City of Whitehorse, in the Yukon Territory, HEREBY CERTIFY:

1. That I am a consulting geologist and that I performed the work program described in this report.
2. That I am a graduate of the University of Western Ontario (H.B.Sc., Geology, 1981).
3. That I am registered as a Professional Geologist by the Association of Professional Engineers, Geologists and Geophysicists of Alberta (#42038).
4. That I have been engaged in mineral exploration on a full and part time basis for nine years in the Yukon, Northwest Territories and British Columbia.

SIGNED at Whitehorse, Yukon this 22nd day of August, 1989.


G.S. DAVIDSON, P.Geol.

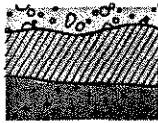
REFERENCES

Antoniuk, T., 1967: Report on the Micro Nickel Project

Campbell, S.W., 1976: Open File 1976-10, Nickel-Copper Sulphide Deposits in the Kluane Ranges, Y.T.

Open File #829, 1984: G.S.C., Geology of the 115 G Map Sheet

Hulbert, L.J. et. al., 1988: Geological Environments of the Platinum Group Elements



REPORT: V89-03527.0 (PARTIAL)

REFERENCE INFO:

CLIENT: MR. GRAHAM DAVIDSON
 PROJECT: MISSY CLAIMS

SUBMITTED BY: G. DAVIDSON
 DATE PRINTED: 5-JUL-89

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	PT PLATINUM	15	15 PPB	FIRE-ASSAY	
2	PD PALLADIUM	15	2 PPB	FIRE-ASSAY	
3	AU GOLD - FIRE ASSAY	15	5 PPB	FIRE-ASSAY	
4	CU COPPER	15	1 PPM	HNO3-HCL HOT EXTR	ATOMIC ABSORPTION
5	NI NICKEL	15	2 PPM	HNO3-HCL HOT EXTR	ATOMIC ABSORPTION

RESULTS TO FOLLOW FOR: CR

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	15	2 -150	15	CRUSH,PULVERIZE -150	15

REPORT COPIES TO: MR. GRAHAM DAVIDSON

INVOICE TO: MR. GRAHAM DAVIDSON

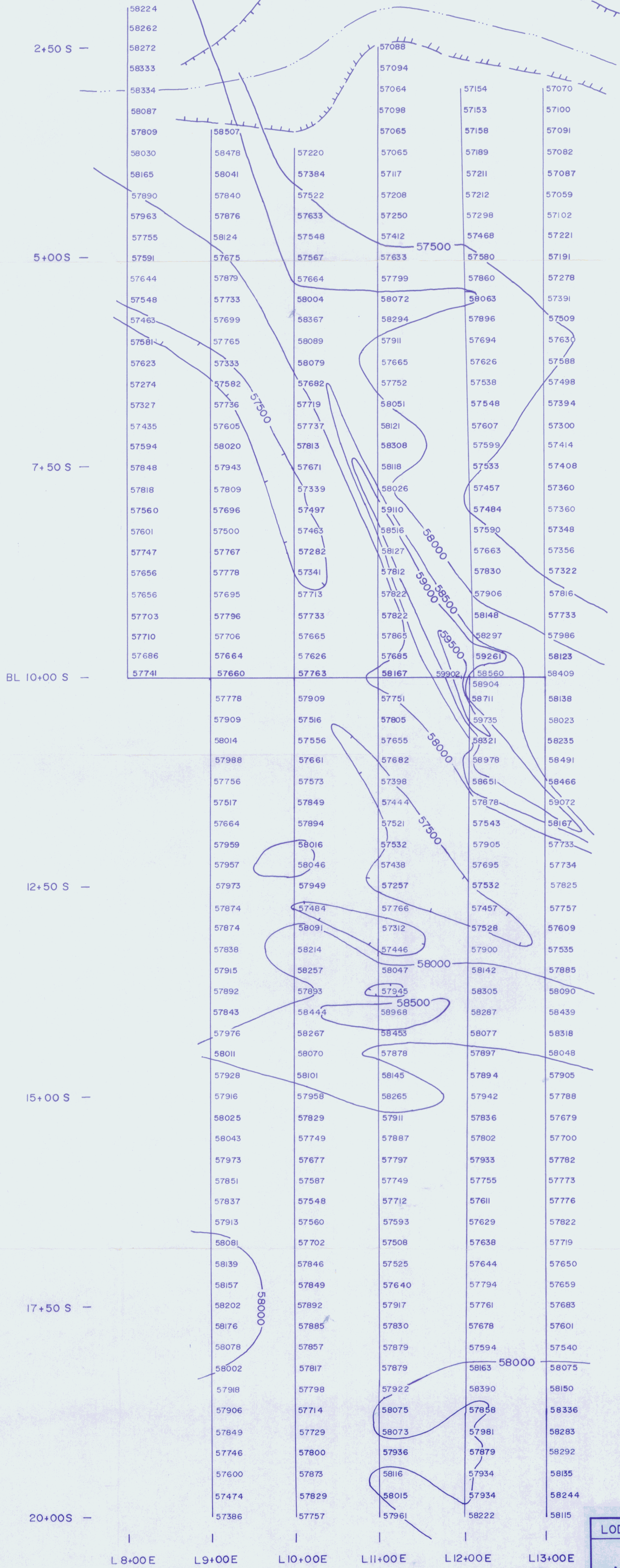


DATE PRINTED: 5-JUL-89

REPORT: V89-03527.0

PROJECT: MISSY CLAIMS PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	PT PPB	PD PPB	AU PFB	CU PPM	NI PPM
R2 84276		<15	4	<5	33	10
R2 84277		<15	<2	<5	65	250
R2 84278		<15	2	<5	108	25
R2 84279		20	<2	<5	34	15
R2 84280		<15	2	<5	47	32
R2 84281		<15	<2	<5	22	19
R2 84282		<15	2	<5	83	44
R2 84283		25	25	5	100	44
R2 84284		<15	2	<5	108	41
R2 84285		15	2	<5	18	26
R2 84286		<15	<2	<5	18	15
R2 84287		<15	<2	<5	21	14
R2 84288		<15	15	7	102	23
R2 84289		15	10	<5	68	52
R2 84290		<15	<2	<5	27	16



092744

(136)

LODESTAR EXPLORATIONS INC.		
MISSY CLAIMS		
MAGNETOMETER SURVEY		
DONJEK RIVER, YUKON TERRITORY		
N.T.S.: 1:5 G-5	TECH: G.D.	DATE: JULY, 89
SCALE: 1:2,500	DRAUGHTING: G.D.	FIGURE: 6

