

D. I. T. HOLDINGS LTD.

SUITE 102,
2922 BELLEVUE AVENUE,
WEST VANCOUVER, B.C.

TELEPHONE (604) 226-3715

SUPPLEMENTARY REPORT

ON

GEOLOGICAL, GEOCHEMICAL AND
MAGNETOMETER SURVEY

over part of the

SWEDE ZONE

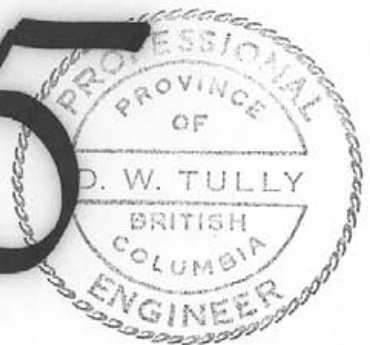
Swede Claims 4,6,9,11,41,42,49
New Westminster Mining Division
Hope, British Columbia

for

KELSO EXPLORATIONS LTD. (N.P.L.)
470 Granville Street
Vancouver 2, B.C.

2745

By



Donald W. Tully, P.Eng.

November 17, 1970

West Vancouver, B.C.

D. I. T. HOLDINGS LTD.

SUITE 102,
2222 BELLEVUE AVENUE,
WEST VANCOUVER, B. C.

TELEPHONE (604) 926-3715

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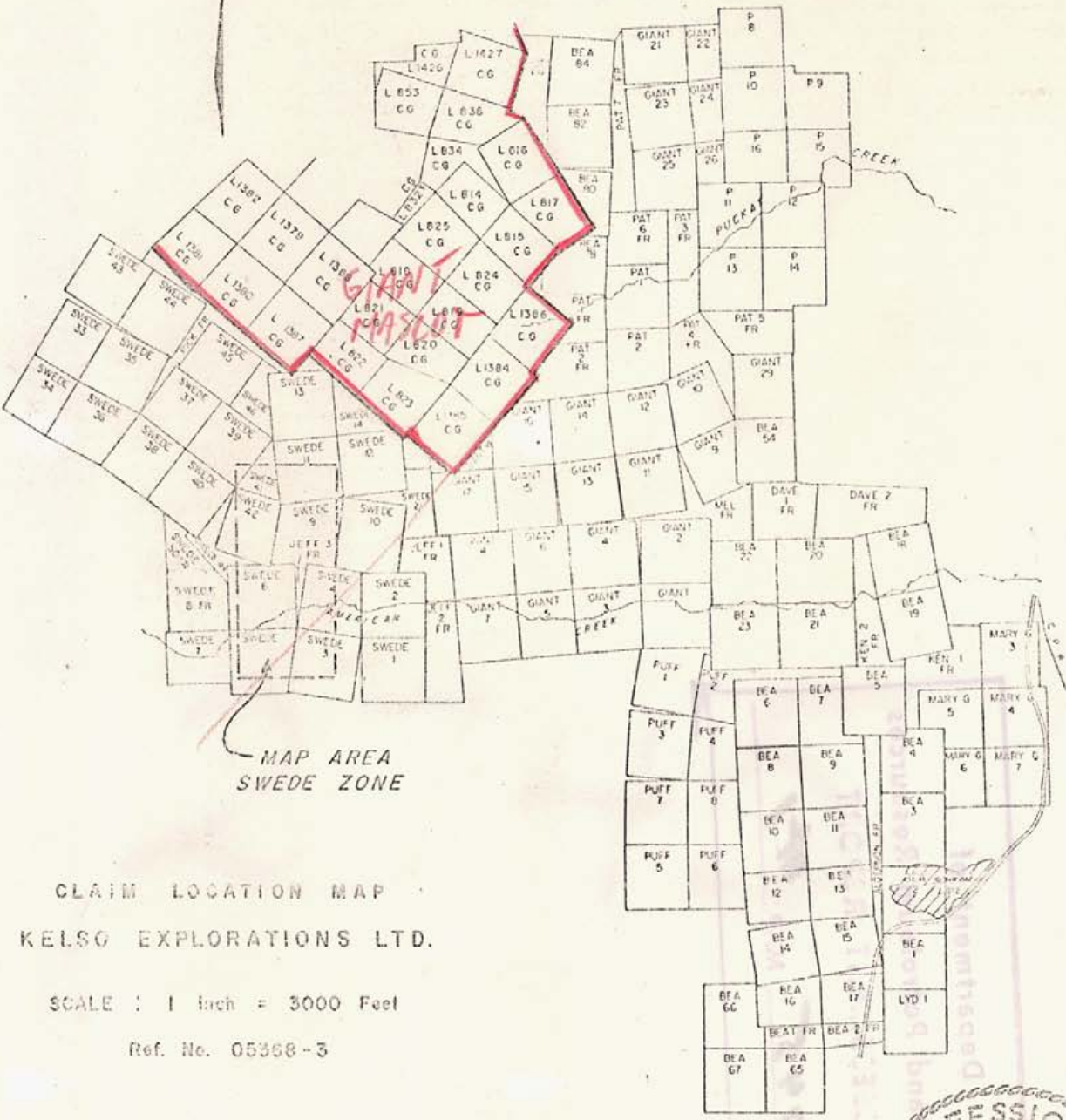
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MAPS

# 1 LOCATION.....	(Opposite page 2)
# 2 BASE MAP BULLDOZER TRENCHING (1"=100').....	(In Pocket)
# 3 GEOLOGICAL MAP (1"=100').....	(" ")
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# 5 MAGNETOMETER MAP (1"=100') CONTOURS.....	(" ")
# 6 MAGNETOMETER MAP (1"=100') READINGS.....	(" ")
# 7 G.S.C. MAP NO.	(" ")



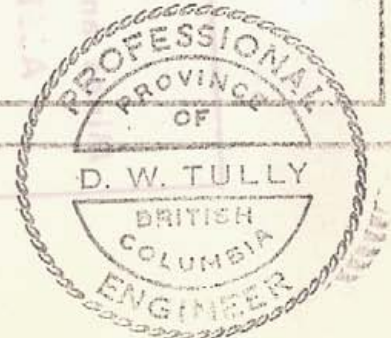
STUKAWHITS CREEK



CLAIM LOCATION MAP
KELSG EXPLORATIONS LTD.

SCALE : 1 inch = 3000 Feet
Ref. No. 05368-3

1 cm = 300m



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SUMMARY AND CONCLUSIONS

A total of 22,070 lineal feet of bulldozer trenching and geochemical soil samples have further outlined a nickel-copper anomaly on Swede claims 9 and 42 (Swede Zone) in the northwest part of the property some 3,500 feet south of Giant Mascot Mines property south boundary.

Pyroxenite and peridotite are the host rocks for finely divided pyrrhotite, chalcopyrite and pyrite. Pyrite occurs in hornblendite, hornblende-rich, diorite, gabbro and paragneissic garnet-rich host rocks.

Copper and nickel content of the soil ranges up to 580 and 570 parts per million respectively in a northeast trending anomaly flanking a moderate magnetic anomaly.

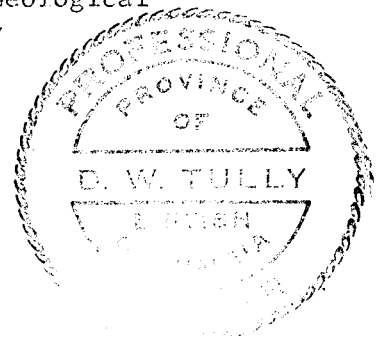
Diamond drill hole testing is recommended.

INTRODUCTION

This report is supplementary to an earlier geological and geochemical report by D.W. Tully dated June 12, 1970 filed on the Swede Zone.

REFERENCES - ASSESSMENT REPORTS

1. Self Potential and Electromagnetic Report on part of Swede Group, Hope, B.C., dated October 21, 1970, by L.W. Saleken
2. Geological Survey of Canada Paper 69-47 and Map 12-1969
3. Kelso Explorations Ltd.
Swede Zone Reconnaissance Geochemical and Geological Survey, Hope, B.C., dated June 12, 1970, by D.W. Tully



D. I. T. HOLDINGS LTD.

SUITE 102,
2222 CHELVEY AVENUE,
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LOCATION, ACCESS AND TOPOGRAPHY

The main anomalous zone occurs on Swede claim 42.

Four-wheel drive truck access is available via logging roads westward from the Trans-Canada highway.

The anomalous area occurs at elevation 2500-3000 on a 20-25 degree south-facing slope.

WORK PERFORMED

Trenching

A total of 22,070 lineal feet of bulldozer trenching was done by Catermole-Trethewey in this area to date during 1970. (See Base Map in Pocket)

Mapping

Transit survey of the trenched area provided base map control for geochemical soil sampling, geological mapping and magnetometer readings.

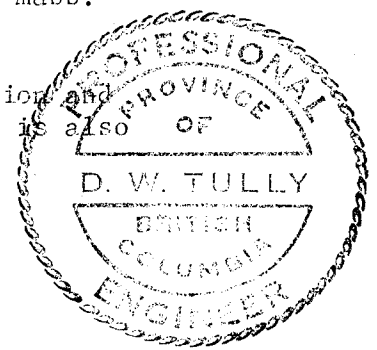
Geology

Intrusive rocks are pyroxenite small peridotite dykes, hornblendite, hornblende-rich diorite, gabbro and granodiorite. Granodiorite, diorite and gabbro phases tend to be gradational to each other. Rusty, oxidized and crumbly sheared zones are common in the pyroxenite.

Garnet rich paragneiss occurs on the south and east part of the map area.

Structurally the intrusives tend to occur in an arcuate shaped complex as a marginal facies of the main intrusive mass. The garnet paragneiss appears to be a roof-pendant.

Shearing is strongest in the north-south direction and dips predominantly west. South-east, north-west shearing is also common with north dips.



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Geochemical

235 geochemical soil samples were taken in the B soil horizon mostly along the banks of the bulldozer trenching.

Analyses were done by Crest Laboratories (B.C.) Ltd., 1068 Homer Street, Vancouver, B.C. using atomic absorption and hydrochloric-nitric acid extraction methods.

A nickel soil anomaly (Brown) 300 feet long and 50 feet wide was outlined in the northeast part of Swede claim 42 carrying over 400 parts per million. This nickel soil anomaly was north-east striking.

A northeast striking copper soil anomaly (Green) generally coincides with the nickel anomaly.

Magnetometer

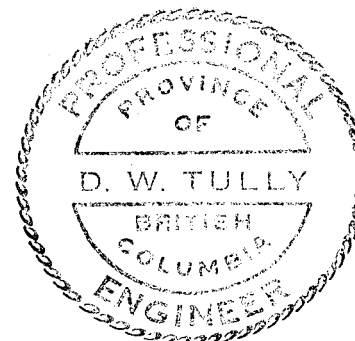
A small magnetic anomaly high of 300 gamma intensity occurs in the northeast part of Swede claim 42 roughly coincident with a pyroxenite-diorite contact and the above mentioned geochemical nickel and copper soil anomalies.

Magnetometer readings were corrected to base station for diurnal variations.

Plans showing individual station readings and contoured results accompany this report (in pocket).

Mineralization

Disseminated pyrrhotite in fine grains and blebs occurs chiefly in small peridotite dykes and fractures in pyroxenite. Scattered grains of chalcopyrite do appear occasionally. Pyrite in amounts usually less than one percent is the common sulphide mineral.



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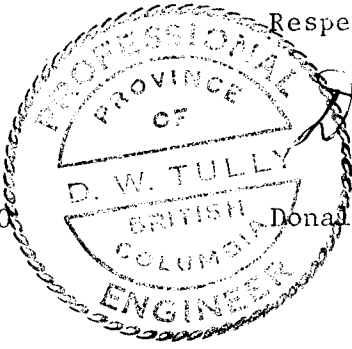
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WEST VANCOUVER, B. C.

TELEPHONE (604) 926-3715

RECOMMENDATION

A program of diamond drilling currently in progress is recommended to test the observed pyrrhotite-chalcopryrite mineralization and the geochemical nickel-copper soil anomaly.

Respectfully submitted,



Donald W. Tully

November 17, 1970

Donald W. Tully, P. Eng.

D. I. T. HOLDINGS LTD.

SUITE 102,
2222 BELLEVUE AVENUE,
WEST VANCOUVER, B. C.

TELEPHONE (604) 926-3715

CERTIFICATE

I, Donald William Tully, do hereby certify that:

1. I am a Consulting Geologist and Professional Engineer with offices at Suite 102 - 2222 Bellevue Avenue, West Vancouver, British Columbia.
2. I am a graduate of McGill University, 1943, with the Degree of Bachelor of Science.
3. I am a Registered Professional Engineer in the Provinces of British Columbia and Ontario.
4. I have practised my profession for twenty-five years.
5. I have no direct, indirect or contingent interest in the shares of Kelso Explorations Ltd. (N.P.L.) or the claims of Kelso Explorations Ltd. (N.P.L.) nor do I intend to receive any interest.
6. This report dated November 17, 1970, is based on personal examinations in the field on the Swede claims on August 7, 14, 19, October 7, 12 and November 5, 1970.

Dated at West Vancouver, British Columbia, this 17th day of November, 1970

Donald W. Tully

Donald W. Tully, P. Eng



CREST LABORATORIES (B.C.) LTD.

B.C. REGISTERED ASSAYERS
INDUSTRIAL and RESEARCH CHEMISTS

1068 HOMER STREET
VANCOUVER 3, B.C.

August 5, 1970

Kelso Explorations Ltd.
411 - 470 Granville Street
VANCOUVER, B.C.

Lab No. 294 G: Geochemical Analysis for Copper and Nickel:

Mesh Size: -80
Analytical Method: Atomic Absorption
Digestion Method: $\text{HClO}_4 - \text{HNO}_3$

Sample Number:	Copper ppm	Nickel ppm	Sample Number:	Copper ppm	Nickel ppm
0N 0E	32	48	6S 0E	20	32
2E	24	40	10E	40	44
4E	30	56	8S 0E	22	36
6E	56	108	2E	28	44
8E	42	80	4E	24	36
10E	18	40	6E	18	28
10E #1	44	96	8E	30	36
10E #2	34	108	10E	22	84
2W	16	40	2W	40	80
2S 0E	34	48	10S 0E	20	40
2N 0E	8	16	12S 0E	24	48
4G 0E	12	28	2E	22	36
4S 2E	48	52	4E	20	32
6E	50	60	6E	20	32
8E	34	36	8E	22	32
10E	22	20	10E	24	40
2W	20	24	2W	16	32
4N 0E	46	200	4W	26	44
2E	24	36	14S 0E	20	40
2W	38	52	16S 0E	16	36
4W	20	48	2E	20	32
6N	28	52	4E	64	88

Kelso Explorations Ltd.
Lot No. 294 G
August 6, 1970
Page 2...

Sample Number	Copper ppm	Nickel ppm	Sample Number	Copper ppm	Nickel ppm
16S 6E	38	60	24S 2E	18	32
8E	20	28	2W	16	32
10E	24	38	900	88	68
12E	42	34	901	44	60
2W	20	36	902	30	36
4W	30	36	903	16	20
18S 0E	20	40	904	16	24
20S 0E	16	32	905	26	52
2E	38	60	906	40	72
4E	30	44	907	20	56
2W	18	44	908	16	28
24S 0E	24	44	909	40	68
			910	38	40

Yours truly,

CREST LABORATORIES (B.C.) LTD.

Bruce Graham

Bruce Graham
Chemist

CREST LABORATORIES (B.C.) LTD.

B.C. REGISTERED ASSAYERS
GEOCHEMISTS

1068 HOMER STREET,
VANCOUVER 3, B.C.

August 27, 1970.

Kelso Explorations Ltd.
411 - 470 Granville Street
VANCOUVER, B.C.

Lot No. 322G: Geochemical Analysis for Copper and Nickel:

Mesh Size: -80
Analytical Method: Atomic Absorption
Digestion Method: HNO₃ + HClO₄

Sample No.:	Copper ppm	Nickel ppm	Sample No.:	Copper ppm	Nickel ppm	Sample No.:	Copper ppm	Nickel ppm
912	56	72	933	28	80	B1+50	44	108
913	34	40	934	76	32	B1+100	36	44
914	14	24	935	40	38	B2+00	36	52
915	28	24	936	64	40	B2+50	50	68
916	28	28	937	38	58	B2+100	44	176
917	30	28	938	52	50	B2+150	36	56
918	26	36	939	50	32	B2+200	32	56
919	26	28	W1+50	50	160	B3+00	38	72
920	26	28	W1+100	58	140	B3+50	36	72
921	32	26	W1+150	46	52	B3+100	40	40
922	40	56	W2	42	176	B3+150	52	92
923	42	60	W2+50	38	76	B4+00	32	72
924	50	64	W2+100	26	42	D1+00	38	66
925	46	60	W2+150	36	56	D1+50	20	44
926	40	50	W3	36	68	D1+100	28	72
927	42	52	W3+50	24	38	D1+150	34	56
928	58	96	W3+100	40	76	D2+00	52	84
929	44	48	BO+100	54	112	D2+50	42	72
930	32	40	BO+150	54	124	D2+100	28	54
931	36	42	BO+200	36	124	D3	30	72
932	68	86	B1+00	60	180	U1+50	30	72
						U1+100	30	56

RIPOSE

WATER

*Waste
Dotted*

Series 2000

Series 2000

Kelso Explorations Ltd.

Lot No. 322G

August 27, 1970.

Page 2...

Sample No.:	Copper ppm	Nickel ppm	Sample No.:	Copper ppm	Nickel ppm
U1+150	36	72	4N 5E	56	152
U2	24	48	4N 5.5E	48	296
U2+100	16	50	4N 6E	44	188
U3	40	80	4N 6.5E	44	136
U4	30	44	4N 7E	50	148
U5	54	60	4N 7.5E	68	288
U6	62	100	4N 8E	54	196
U7	24	48	4N 8.5E	88	300
ON 4.5E	24	44	4N 9E	44	128
ON 5E	30	40	4N 9.5E	50	100
ON 5.5E	42	92	4N 10E	52	76
ON 7E	54	74			
ON 7.5E	38	58			
ON 8.5E	38	60			
ON 9E	26	76			
4N 2.5E	26	50			
4N 3E	60	140			
4N 3.5E	76	124			
4N 4E	58	112			
4N 4.5E	52	104			

*500 ppm
200 ppm*

Yours truly,

CREST LABORATORIES (B.C.) LTD.,

Bruce Graham

Bruce Graham
Chemist

BG:mk

CREST LABORATORIES (B.C.) LTD.B.C. REGISTERED ASSAYERS
INDUSTRIAL and RESEARCH CHEMISTS1068 HOMER STREET
VANCOUVER 3, B.C.

October 1, 1970.

Kelso Explorations Ltd.
411 - 470 Granville Street
VANCOUVER, B.C.Lot No. 372 G: Geochemical Analysis for Copper & Nickel:Mesh Size: -80
Analytical Method: Atomic Absorption
Digestion Method: HClO₄ + HNO₃

Sample No.:	Copper PPM	Nickel PPM	Sample No.:	Copper PPM	Nickel PPM
S1	300	355	S11	50	65
S1A	140	165	S11A	55	145)
S2	140	165	S12	30	55
S2A	140	200	S12A	35	90
S3	40	47	S13	30	65
S3A	340	265	S14	50	50
S4	310	140	S15	40	75
S4A	200	105	S16	60	100)
S5	150	100	S17	65	95
S5A	180	160	S18	75	90
S6	30	25	S19	110	145)
S6A	50	67	S20	180	165
S7	40	60	S19A	165	140)
S7A	50	85	S20A	55	70
S8	40	35	S21	50	85
S8A	110	140)	S21A	65	50
S9	40	47	2-1	20	40
S9A	15	20	2-2	55	105
S10	40	27	2-3	30	35
S10A	50	80	2-4	30	115

Kelso Explorations Ltd.

Lot No. 379 G

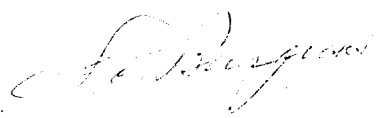
October 1, 1970.

Page 2...

Sample No.:	Copper PPM	Nickel PPM
R11A	255	235
R18	100	290
A-1	30	70
A-2	40	70
X-1	20	50
X-2	25	65
X-3	15	40
C-2	20	45

Yours truly,

CREST LABORATORIES (B.C.) LTD.,


Bruce Graham
Chemist

BG:mk

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B.C. REGISTERED ASSAYERS
INDUSTRIAL and RESEARCH CHEMISTS

1068 HOMER STREET
VANCOUVER 3, B.C.

October 8, 1970.

Kelso Exploration Ltd.
411 - 470 Granville Street
VANCOUVER, B.C.

Lot No. 386 G: Geochemical Analysis for Copper & Nickel:

Mesh Size: -80
Analytical Method: Atomic Absorption
Digestion Method: $\text{HNO}_3 + \text{HClO}_4$

Sample Number:	Copper ppm	Nickel ppm
R16 A	28	135
R17	18	45
R18 A	58	85

Yours truly,
CREST LABORATORIES (B.C.) LTD.,

Bruce Graham

Bruce Graham
Chemist

BG:mk

November 12, 1970

Kalsco Explorations Ltd.
411 - 470 Granville Street
VANCOUVER, B.C.

Lot No. 405 G: Geochemical Analysis for Copper and Nickel:

Mesh Size: -80
Analytical Method: Atomic Absorption
Digestion Method: $\text{HClO}_4 - \text{HNO}_3$

Sample Number:	Copper ppm	Nickel ppm
5E	70	132
6E	50	84
7E	148	80
8E	2	224
9E	76	88
10E	66	72
11E	48	54
12E	48	56

*To go on
geochem map.*

Yours truly,

CREST LABORATORIES (B.C.) LTD.

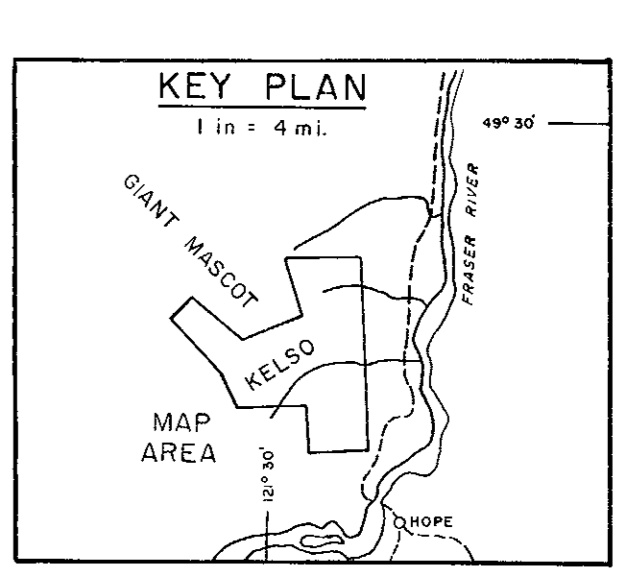
Bruce Graham

Bruce Graham
Chemist PROV. ASSAYER

BG/sab



- LEGEND**
- CREEK
 - LOGGING ROAD
 - BULLDOZER TRENCHING
 - TRANSIT AND CHAIN STATION
 - FORMER GRAVITY SURVEY STATION
 - AREA OF FORMER GRAVITY SURVEY
 - PREVIOUS MAGNETOMETER SURVEY STATION
 - AREA OF PREVIOUS MAGNETOMETER SURVEY
 - CLAIM POST



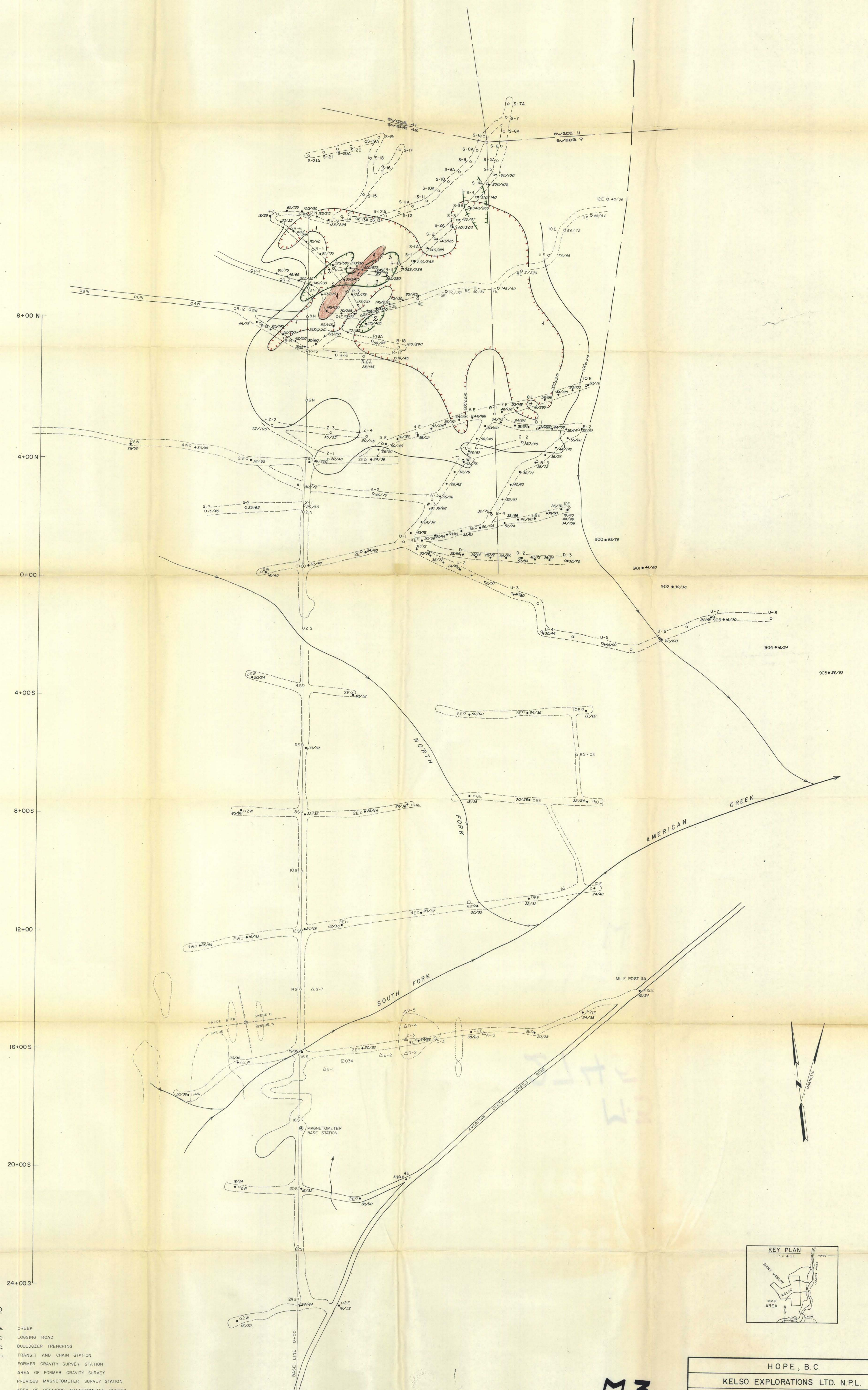
Continuation of
 Mines and Geotectonic Resources
 ACTS 117, 2390-17
 NO 2745

M-2
 2745

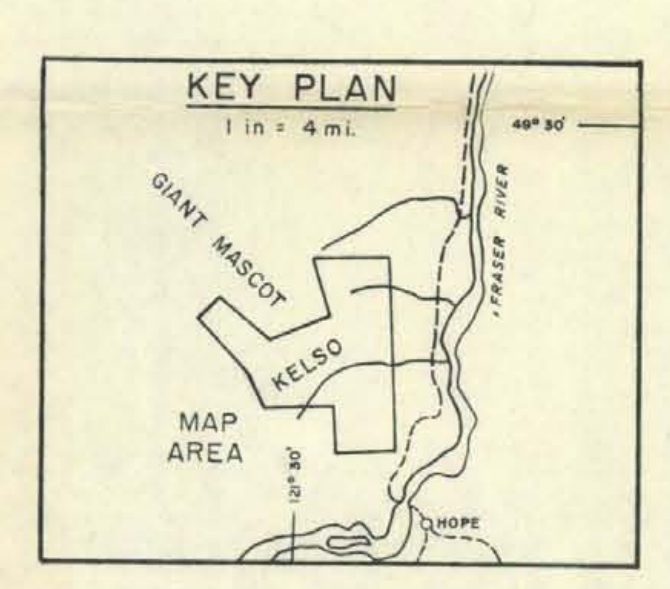
HOPE, B.C.	
KELSO EXPLORATIONS LTD. N.P.L.	
BASE MAP - BULLDOZER TRENCHING	
SCALE: 1"=100'	DATE: Nov 17/70

PROFESSIONAL ENGINEER
 DONALD W. TULLY, P. Eng.

HOPE, B.C.
 KELSO EXPLORATIONS LTD. N.P.L.
 1954



- LEGEND**
- CREEK
 - LOGGING ROAD
 - BULLDOZER TRENCHING
 - TRANSIT AND CHAIN STATION
 - FORMER GRAVITY SURVEY STATION
 - AREA OF FORMER GRAVITY SURVEY
 - PREVIOUS MAGNETOMETER SURVEY STATION
 - AREA OF PREVIOUS MAGNETOMETER SURVEY
 - CLAIM POST
 - GEOCHEMICAL SAMPLE LOCATION
 - COPPER/NICKEL IN PARTS PER MILLION

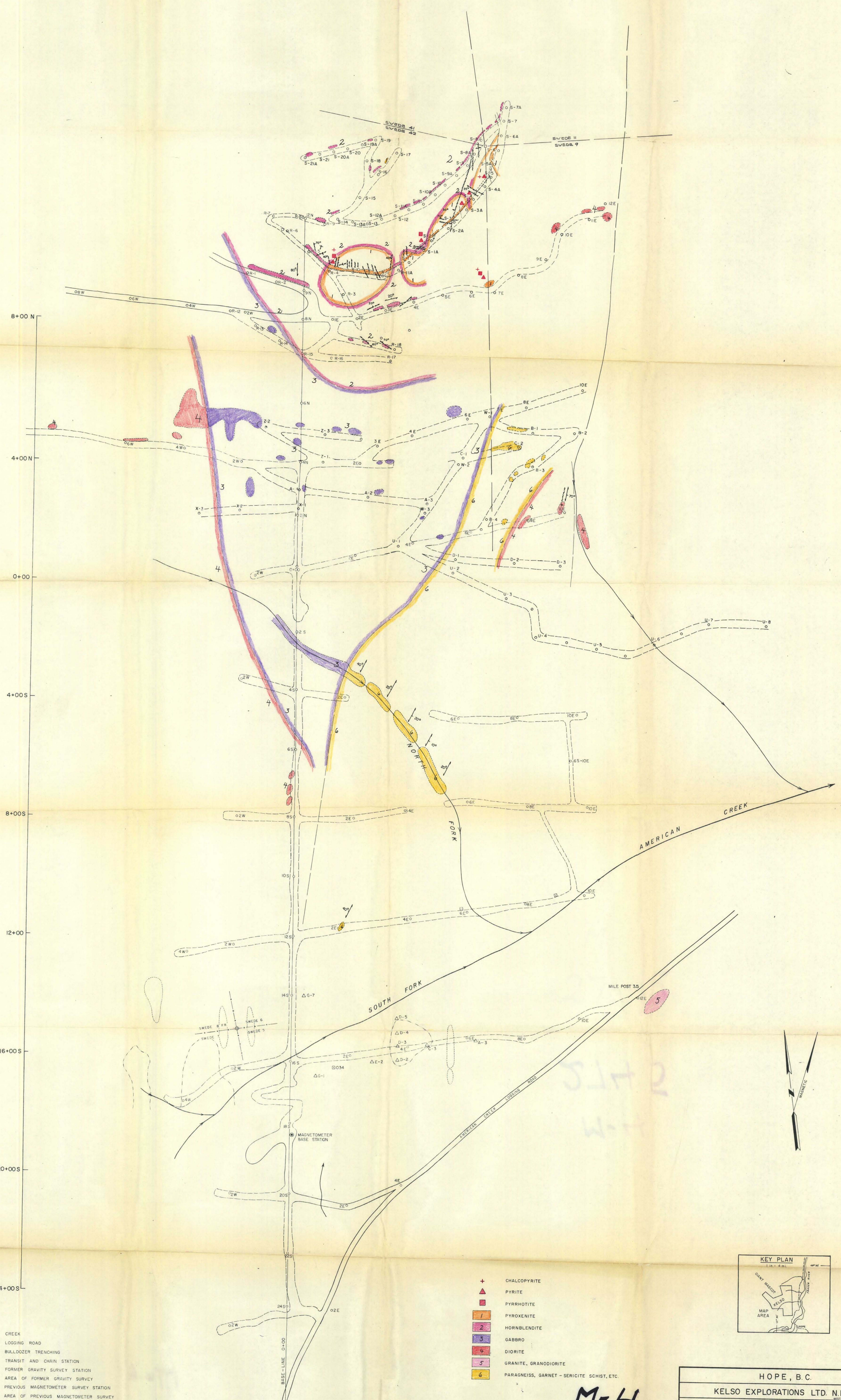


M-3
 2745

HOPE, B.C.	
KELSO EXPLORATIONS LTD. N.P.L.	
+400	1 NICKEL ANOMALY
+300	2 COPPER ANOMALY
SCALE: 1" = 100'	
DONALD W. TULLY, P.Eng.	



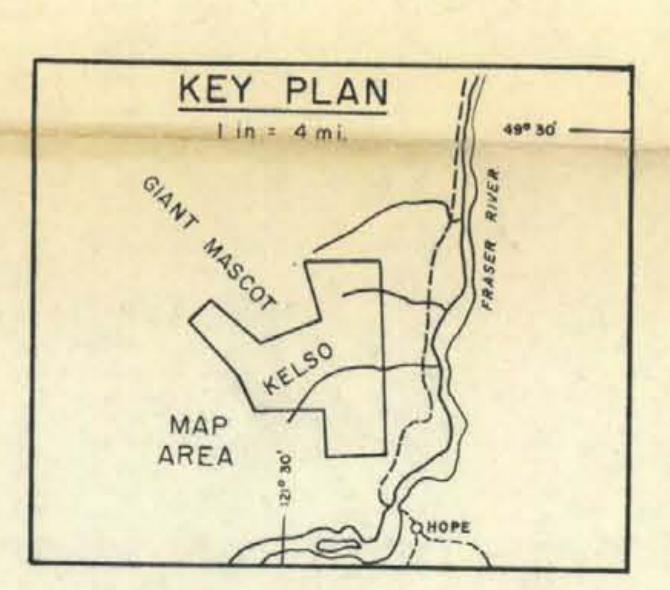
PROFESSIONAL ENGINEER
 DONALD W. TULLY, P. Eng.
 1911-1912



LEGEND

- CREEK
- LOGGING ROAD
- BULLDOZER TRENCHING
- TRANSIT AND CHAIN STATION
- FORMER GRAVITY SURVEY STATION
- AREA OF FORMER GRAVITY SURVEY
- PREVIOUS MAGNETOMETER SURVEY STATION
- AREA OF PREVIOUS MAGNETOMETER SURVEY
- CLAIM POST

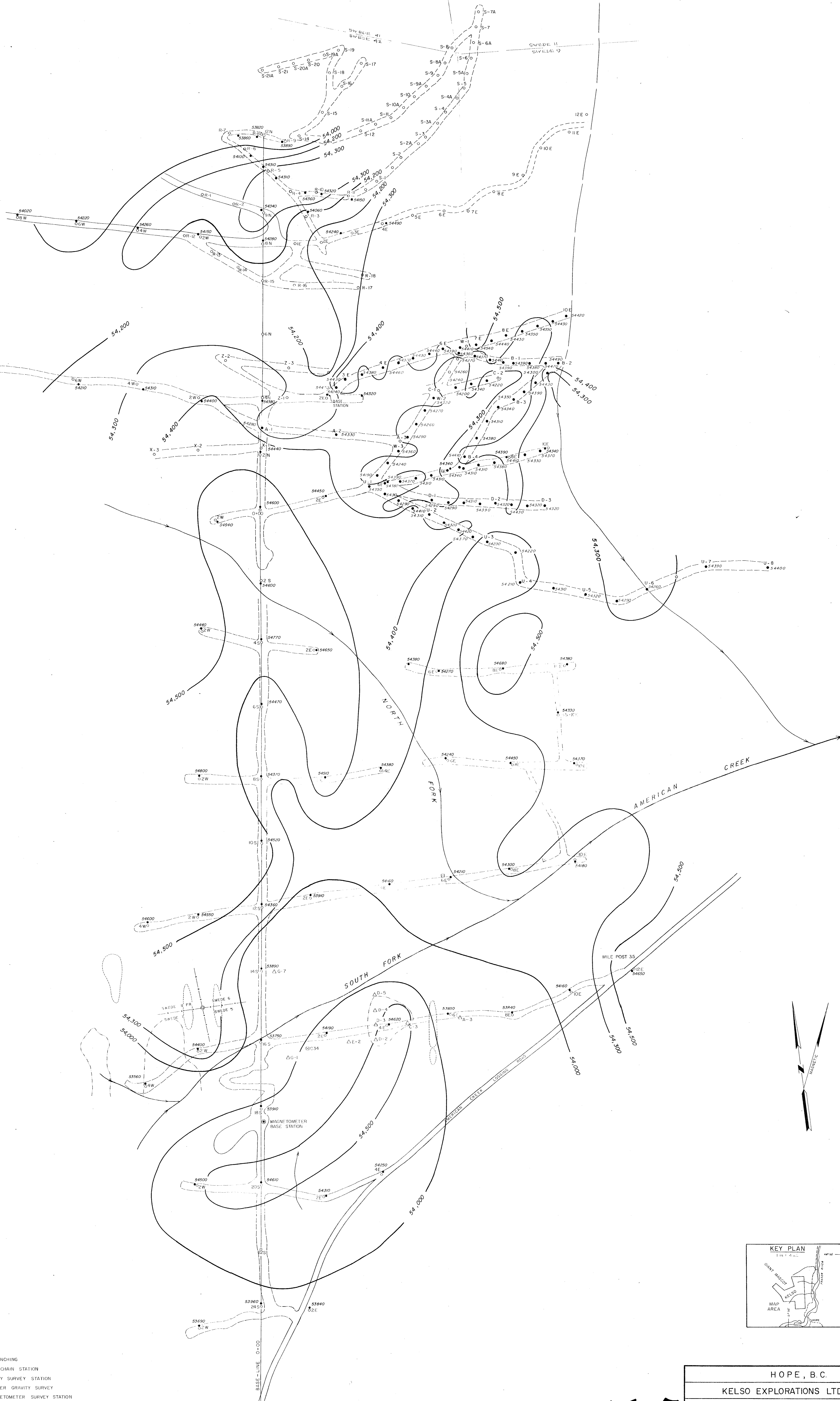
- CHALCOPYRITE
- PYRITE
- PYRRHOTITE
- HORNBLLENDE
- GABBRO
- DIORITE
- GRANITE, GRANODIORITE
- PARAGNEISS, GARNET - SERICITE SCHIST, ETC.



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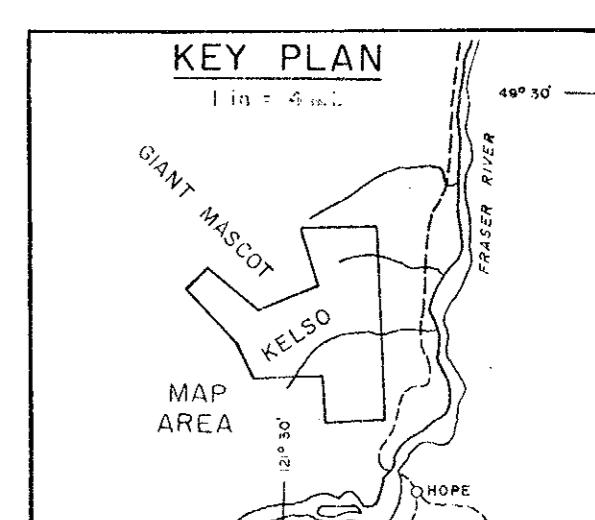
HOPE, B.C.	
KELSO EXPLORATIONS LTD. N.P.L.	
GEOLOGY	
SCALE: 1"=100'	DATE: Nov 17/76

8+00 N
4+00 N
0+00
4+00 S
8+00 S
12+00
16+00 S
20+00 S
24+00 S



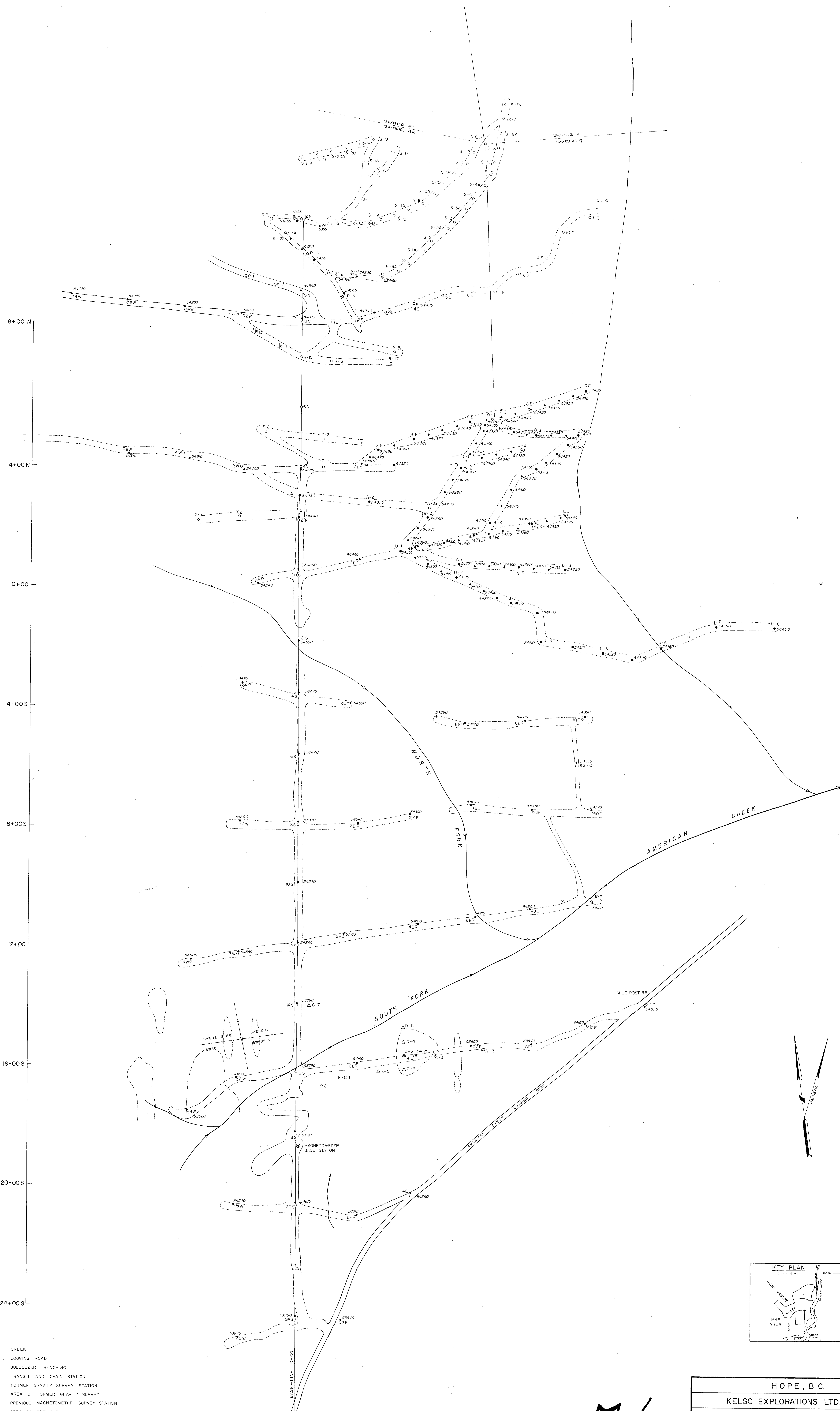
LEGEND

- CREEK
- LOGGING ROAD
- BULLDOZER TRENCHING
- TRANSFER AND CHAIN STATION
- FORMER GRAVITY SURVEY STATION
- AREA OF FORMER GRAVITY SURVEY
- PREVIOUS MAGNETOMETER SURVEY STATION
- AREA OF PREVIOUS MAGNETOMETER SURVEY
- CLAIM POST
- MAGNETOMETER READING JULY-AUGUST, 1970

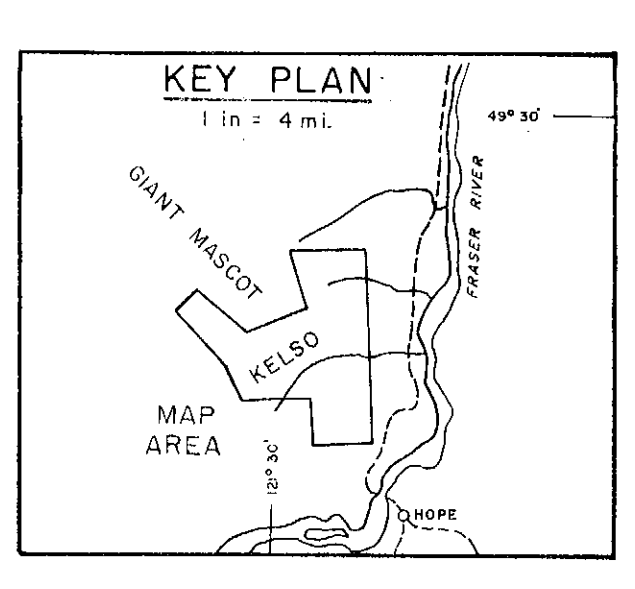


M-5
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HOPE, B.C.	
KELSO EXPLORATIONS LTD. N.P.L.	
MAGNETOMETER SURVEY	
SCALE: 1" = 100'	DATE: Nov 17/70

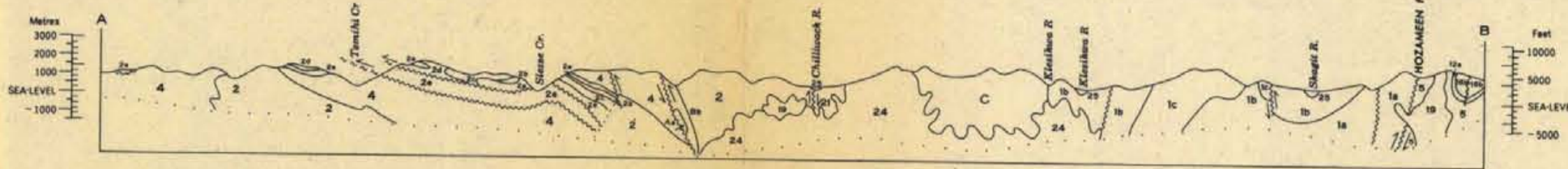


- LEGEND**
- CREEK
 - LOGGING ROAD
 - BULLDOZER TRENCHING
 - TRANSIT AND CHAIN STATION
 - FORMER GRAVITY SURVEY STATION
 - AREA OF FORMER GRAVITY SURVEY
 - PREVIOUS MAGNETOMETER SURVEY STATION
 - AREA OF PREVIOUS MAGNETOMETER SURVEY
 - CLAIM POST



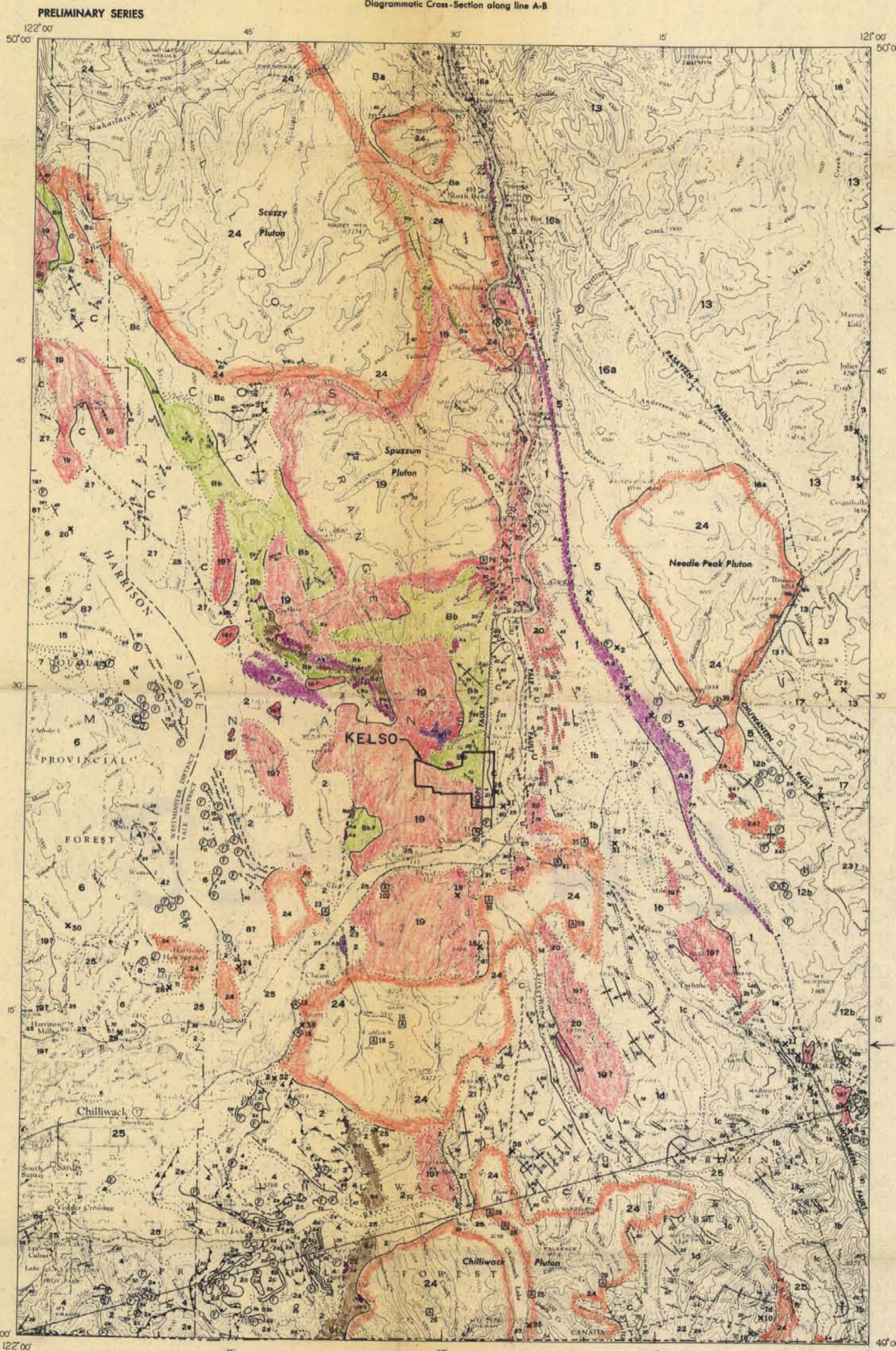
M-6
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HOPE, B.C.		
KELSO EXPLORATIONS LTD. N.P.L.		
MAGNETOMETER SURVEY		
SCALE: 1"=100' DONALD W. TULLY, P.Eng. DATE: 10/17/70		



LEGEND

- QUATERNARY**
PLEISTOCENE AND RECENT
25 Glacial, glaciofluvial and fluvial gravel, sand and clay, talus and slope-wash deposits
- TERTIARY**
MIOCENE AND EARLIER
24 Granodiorite, quartz diorite
- COQUHALLA GROUP**
23 Basalt, rhyolite, tuff, agglomerate, diorite
- 22 SKAGIT FORMATION: andesite, tuff, agglomerate
- CRETACEOUS AND/OR TERTIARY**
Eocene and Paleocene or uppermost Cretaceous
21 Conglomerate, sandstone
- EARLY TERTIARY AND/OR LATE CRETACEOUS**
20 Foliated granodiorite, quartz diorite
- CRETACEOUS**
UPPER CRETACEOUS OR (?) OLDER
19 Quartz diorite
- LOWER CRETACEOUS**
KINGSVALE GROUP
18 Basalt, andesite, agglomerate, tuff
- PASAYTEN GROUP
17 Sandstone, conglomerate, pelite
- JACKASS MOUNTAIN GROUP
16a, sandstone, pelite and conglomerate; 16b, sandstone, minor conglomerate
- 15 BROKENBACK HILL FORMATION: tuff, agglomerate, sandstone, pelite
- 14 PENINSULA FORMATION: sandstone, conglomerate
- JURASSIC AND/OR LOWER CRETACEOUS**
13 Foliated granodiorite
- JURASSIC**
UPPER JURASSIC
DEWDNEY CREEK GROUP
12 12a, sandstone, pelite; 12b, tuff, pelite
- 11 AGASSIZ PRAIRIE FORMATION: pelite, minor sandstone, tuff, limestone
- 10 KENT FORMATION: conglomerate
- MIDDLE JURASSIC
BILLHOOK CREEK FORMATION: tuff, sandstone
- 8 MYSTERIOUS CREEK FORMATION: pelite
- 7 ECHO ISLAND FORMATION: tuff, minor agglomerate, sandstone, pelite
- 6 HARRISON LAKE FORMATION: intermediate to acidic flow and pyroclastic rock
- LOWER AND MIDDLE JURASSIC**
LADNER GROUP
5 Pelite, volcanic sandstone
- TRIASSIC AND JURASSIC**
UPPER TRIASSIC, LOWER AND UPPER JURASSIC
4 CULTUS FORMATION: pelite, sandstone
- TRIASSIC**
UPPER TRIASSIC
NICOLA GROUP
3 Porphyritic andesite and basalt
- PENNSYLVANIAN AND PERMIAN**
CHILLIWACK GROUP
2 2a, basic volcanic rocks and pelites; 2b, pelite, siltstone, sandstone; 2c, Lower Pennsylvanian limestone; 2d, pelite, sandstone, conglomerate; 2e, Lower Permian limestone; 2f, basic volcanic flows, intermediate to acidic tuff and agglomerate
- DEVONIAN (?), CARBONIFEROUS (?) AND PERMIAN (?)**
HOZAMEEN GROUP
1 1, pelite, chert, basic volcanic rock, minor limestone; 1a, chert, basic volcanic rock; 1b, basic volcanic rock; 1c, chert, pelite; 1d, basic volcanic rock, chert, pelite; 1e, limestone
- ULTRAMAFIC ROCK**
Aa, serpentinite, serpentinized peridotite; includes some Upper Paleozoic volcanic rocks in broad belt northeast of Hope; Ab, pyroxenite; Ac, hornblende
- SCHIST, AMPHIBOLITE AND PHYLLITE**
Ba, graphitic and quartzose phyllite; Bb, schist, amphibolite; Bc, migmatitic equivalent of Bb; Bd, amphibolite, hornblende, quartz diorite; in southwestern part of map-area between Welch Peak and Slesse Mountain these rocks are complexly imbricated with Upper Paleozoic rocks and the area shown as Bd includes both
- C ONEISS



- Geological boundary (defined - approximate, assumed)
- Bedding (horizontal, inclined, vertical)
- Schistosity, gneissosity, foliation in granitic rocks (inclined, vertical)
- Zone of imbricated Paleozoic and Mesozoic rocks
- Fault (defined or approximate, assumed)
- Fault (solid circle indicates downthrow side)
- Thrust fault (tooth on upper plate; defined or approximate, assumed)
- Antiform
- Synform
- Antiform or synform (arrow indicates plunge)
- Fossil locality
- Locality where age has been determined in millions of years
 - Determination by Geological Survey of Canada
 - Determination by University of British Columbia
 - Determination by Bradsgard, Folinsbee, Lipson, 1961
 - Mineral occurrence (number refers to property listed in text)

92H/W

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HOPE
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