

TITAN PROJECT

005638

Area B-2, Leo No's 4 and 6, Soil Sampling Grid

Reasons for Present Investigations:

The Gerlitzki vein fault system which has been shown to carry a narrow ore zone composed mainly of sphalerite has been traced by a resistivity survey towards the northeast to a point where it is predicted to intersect the top of the Hector - Calumet Quartzite. A resistivity survey in June, 1963, employing a closer line spacing, confirmed the trends revealed by the previous survey. Of added interest is the apparent existence of a northwest cross-fault which seems to have displaced (in the usual righthanded direction) the northeast continuation of the structure by some 600 feet.

In view of the favourable geological setting, it was decided to cover the area with a reconnaissance type of soil sampling grid employing a 50-foot sample interval on three cut lines 400 feet apart.

Results:

Corrections have been applied to the mercury detector results, and the profile of these corrected results bear little resemblance to those drawn from the uncorrected results (see accompanying map). The results were reduced on the basis of the degree of smoke staining of the filter in the air pump after the heating of each sample. The datum of 50 scale divisions (25 ppb) was chosen because this has been found to be the background of completely inorganic "B" and "G" horizon samples over the Galena Hill Properties in general. Local background is approximately 70 scale divisions.

The profiles indicate a mercury source increasing slightly in strength towards the northeast near the southeastern ends of lines 26 and 30. The peak on line 30 occurs approximately 40 feet northwest of the trend of low resistivity readings. The significance of the peak on line 34 is not fully understood, but it probably bears some relation to the apparent cross-fault whose location on the map is only approximate. The dotted and dashed line represents the predicted location of the top of the south-dipping Hector-Calumet Quartzite, one of the most favourable host rocks in this district.

Conclusions and Recommendations:

The soil sampling grid has confirmed the presence of a mercury source along the northeastern extension of the Gerlitzki vein in an area thought to be especially favourable for one formation.

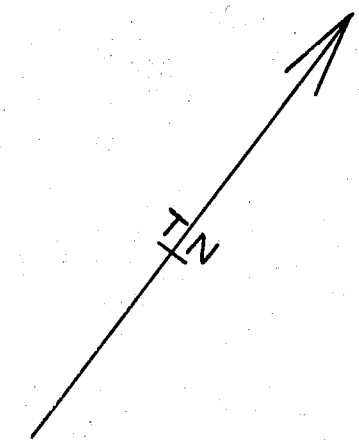
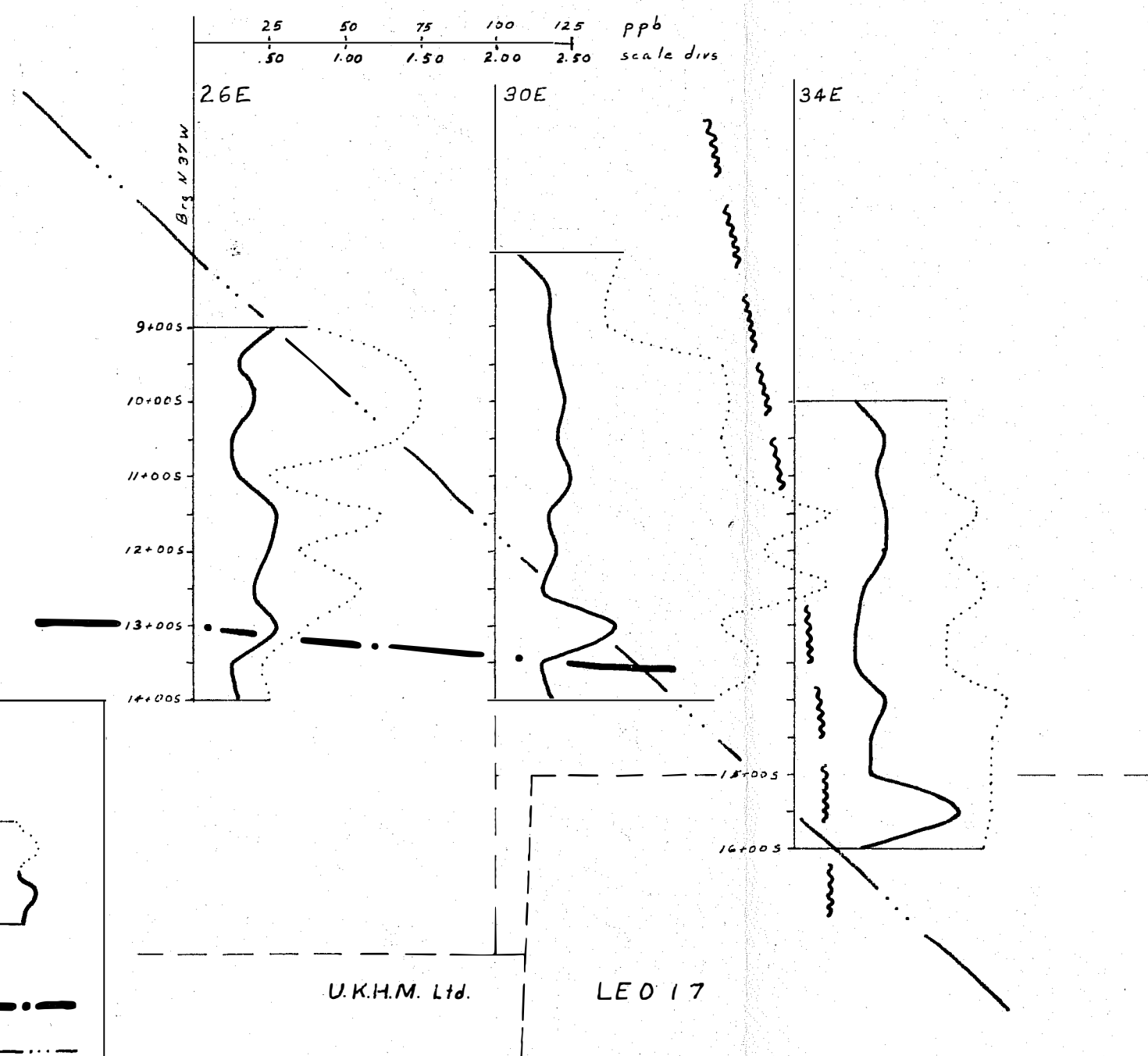
It is recommended that additional soil sampling be carried out over lines 31, 32 and 33 from 12+00 southeast to 16+00 at a sample interval of 20 feet. Sampling on line 30 should also be extended 200 feet to the south.

David L. Seymour:d
Vancouver, B.C.
October 10, 1963.

AREA B-2

							Average
26E / 9+00 S	med sybm	.55	0			.75	.75
9+50	gy blk	.30	2	1.50	1.35	.75	1.40
10+00	med gy	.40	2			1.50	1.50
10+50	med gy	.25	2	1.40		1.25	1.35
11+00	red brn	.30	0			.50	.50
11+50	med sy	.55	1+	1.25		1.30	1.25
12+00	med sybm	.50	0			.70	.70
12+50	med sy	.40	1			1.10	1.10
13+00	med sybm	.55	0			.75	.75
13+50	buff brn	.25	0			.45	.45
14+00	med brn	.30	0			.50	.50
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;"> Subtract 0.2 1.1 2.7 3.1 1.9 </div> <div style="border-top: 1px solid black; width: 100%;"></div> </div>							
30E / 8+00 S	med gy	.15	(for loss) 1			.85	.85
8+50	med gy	.55	0			.75	.75
9+00	med gy	.55	0			.75	.75
9+50	gy blk	.40	2			1.50	1.50
10+00	gy blk	.45	2			1.55	1.55
10+50	gy blk	.40	2			1.50	1.50
11+00	gy blk	.50	2	1.30		1.80	1.60
11+50	med gy blk	.35	3			2.25	2.25
12+00	gy blk	.40	2-3			1.80	1.80
12+50	med gy	.30	3			2.20	2.20
13+00	med gy	.80	1	1.55		1.50	1.50
13+50	gy blk	.30	2-3			1.75	1.75
14+00	dk sy	.35	2			1.45	1.45
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;"> 1 - Subtract 0.2 2 - " 0.4 3 - " 0.8 </div> <div style="border-top: 1px solid black; width: 100%;"></div> </div>							
34E / 10+00 S	dk sy		2-3	1.00		.75	1.00
10+50 S	dk sybm		.60 / 2	1.00		.75	1.00
10+00 S	dk brn	.55	2			.95	.95
11+50 S	gy brn	.60	2-3			1.20	1.20
12+00	gy brn	.60	2			1.00	1.00
12+50	gy brn	.45	3			1.25	1.25
13+00	dk med sybm	.40	2-3			1.00	1.00
13+50	dk gy	.40	2-3			1.00	1.00
14+00	gy brn	.60	3			1.40	1.40
14+50	gy brn	.50	3			1.30	1.30
15+00	gy brn	.50	3			1.30	1.30
15+50	gy brn	1.10	1	1.45		1.15	1.30
16+00	gy brn	.45	3			1.25	1.25

LEO 4 | LEO 6



Scale
1" = 200'

SILVER TITAN PROJECT
MAYO, YUKON

AREA B-2 ~ LEO 4 & 6

SOIL SAMPLE GRID
LOCATION

and

MERCURY DETECTOR PROFILES

Legend

Hg Profile	
unadjusted	
adjusted for smoke	
Resistivity information	
Possible vein zone	
Bedding	
Cross fault	
Claim boundary	

Sampled by	TS f HB
Analyzed by	DLS
Compiled by	DLS f MOH
Drafted by	MOH
Date	October 10, 1963