

50 1200 S.W.

REPORT OF
GEOCHEMICAL SOIL SAMPLING WORK

ON PAY CLAIMS - PAY 3-8

BY: B.R. SHARAN, P. ENG

Owner: Bethlehem Copper Corporation Ltd.

KAMLOOBS N.D.

NO. 7
12/15/64
12/17/64
NOV. 24/63

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A REPORT ON

GEOCHEMICAL SOIL SAMPLING SURVEY

ON

THE PAY GROUP OF MINERAL CLAIMS
(Situated, Kesloops 50° 120° SW)

BY

B.R. SHARAN, P. ENG.

FOR

BETHLEHEM COPPER CORPORATION LTD.
ASHCROFT, B.C.

SEPTEMBER - OCTOBER, 1967

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INTRODUCTION

A geochemical soil sampling survey was carried out in the Pay Group of Mineral Claims in September and October 1967, to make a preliminary evaluation of the area and to select areas for future intensive programme of exploration. Soil samples were taken on Mineral Claims - Pay 4, 5, 6, 7, and 8, and covered an area of approximately 170 acres.

A base line was cleared as shown on the Location Map. Lines running generally North-South were laid out every 400 feet on the base line. Soil samples were taken at 100 foot intervals along these lines. Holes were dug about 12 to 18 inches deep after removal of humus and samples were scooped along the pit wall. Individual samples consisted of two to three pounds of sample. The sample locations were tagged and marked in the field.

Map #1 in the Appendix shows the location of the Mineral Claims, base line, and the location of individual samples.

The samples were sent to Coast Eldridge Ltd., Vancouver, B.C. for assaying for copper and were tested by the 'Hot Extraction' method. A copy of the assay report is included in the Appendix.

This geochemical work was planned and executed by the following crew:-

B.R. Sharan, P. Eng.	Mining Engineer
R.J. Nethery	Geologist
J. Paulson	Draftsman
K. Owens	Contractor who supplied the crew for line cutting, and collected soil samples.

INTERPRETATION

Copper assays are reported in parts per million and are plotted on Map #2. 25 to 30 p.p.m. may be considered as the background reading for the area and any values above it as anomalous.

Two definite anomalies have been detected as shown on Map #2 in the Appendix. Anomaly #1 is stronger than the #2 Anomaly. A third anomaly might be developing to the West of #2 Anomaly, but no samples to the West are available to define its units. Some high assays on Line #20 could be caused by an underlying small mineralized fracture. Other scattered high values are of no importance.

The anomalies lie in a general North-South direction. This is the general trend of faulting and mineralization in the Bethlehem ore bodies and on other properties in the Highland Valley.

RECOMMENDATIONS

There is only a moderate amount of overburden in the general area of the property ranging from 10 to 15 feet. It is recommended that a trench be put in to check the #1 Anomaly. Location of this proposed trench is shown on Map #2.

Depending on the results of this initial trenching work another trench may be warranted to check the #2 Anomaly. It would also be reasonable in that case to cover the Northern part of the claim group with geochemical soil sampling.

STATEMENT OF QUALIFICATIONS

I received a Bachelor of Science degree in Mining Engineering in 1955 from The South Dakota School of Mines and Technology, Rapid City, South Dakota, U.S.A.

I am a member of the Association of Professional Engineers of British Columbia.



B.R. Sharan, P. Eng.

BRS:db



COAST ELDRIDGE

ENGINEERS & CHEMISTS LTD.

125 EAST 4TH AVE., VANCOUVER 10, B.C. TELEPHONE: 876-4111

REPORT OF: **Geochemical Analysis**
 AT: **Vancouver Laboratory**
 PROJECT: **Soil Samples**
 REPORTED TO: **Bathchem Copper Corporation Ltd.,
 P.O. Box 520,
 Ashcroft, B. C.**

FILE NO. **A.3-B.1-67-87577**
 DATE **November 7, 1967**
 REPORT NO.
 ORDER NO. **13734**

We have tested 223 samples of Soil submitted by you on October 24, 1967 and report as hereunder:

TEST PROCEDURE:

The samples were tested by the "Hot Extraction" method.

RESULTS:

<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
L1 - H1	40	L1 - H21	10
L1 - H2	40	L1 - H22	25
L1 - H3	40	L3 - H1	10
L1 - H4	20	L2 - H1	75
L1 - H5	25	L2 - H2	65
L1 - H6	40	L2 - H3	50
L1 - H7	50	L2 - H4	85
L1 - H8	25	L2 - H5	90
L1 - H9	15	L2 - H6	125
L1 - H10	5	L2 - H7	65
L1 - H11	10	L2 - H8	60
L1 - H12	20	L2 - H9	35
L1 - H13	20	L2 - H10	50
L1 - H14	10	L2 - H11	50
L1 - H15	10	L2 - H12	75
L1 - H16	15	L2 - H13	75
L1 - H17	25	L2 - H14	75
L1 - H18	15	L2 - H15	40
L1 - H19	15	L2 - H16	35
L1 - H20	10	L2 - H17	35

RESULTS (Cont'd)

<u>Sample No.</u>	<u>Conc. (ppm)</u>	<u>Sample No.</u>	<u>Conc. (ppm)</u>
12 - 16N	75	14 - 17N	30
12 - 16N	65	14 - 18N	40
12 - 20N	40	14 - 19N	285
12 - 21N	45	14 - 20N	190
12 - 22N	70	14 - 21N	50
12 - 23N	60	14 - 22N	60
12 - 24N	55	14 - 23N	160
17 - 7N	30	14 - 24N	25
17 - 8N	45	14 - 25N	70
17 - 9N	35	14 - 26N	90
17 - 14N	30	14 - 27N	75
17 - 15N	30	14 - 28N	180
17 - 16N	35	13 - 12	20
17 - 17N	30	13 - 13	10
17 - 21N	40	13 - 14	10
17 - 25N	50	13 - 15	15
17 - 11	50	13 - 16	30
17 - 16N	40	13 - 17	20
17 - 11N	60	13 - 18	15
17 - 17N	50	13 - 19	10
13 - 3N	20	13 - 110	5
13 - 5N	25	13 - 111	25
13 - 6N	40	13 - 112	70
13 - 8N	25	13 - 113	75
13 - 13N	30	13 - 114	40
13 - 17N1	25	13 - 115	25
13 - 17N	25	13 - 116	25
13 - 17N2	50	13 - 117	45
13 - 17N3	40	13 - 118	45
14 - 11	30	13 - 119	50
14 - 2N	40	13 - 120	70
14 - 3N	45	13 - 121	40
14 - 4N	40	13 - 122	35
14 - 5N	75	13 - 124	30
14 - 6N	40	13 - 123	20
14 - 7N	50	13 - 23N	50
14 - 8N	75	13 - 24N	50
14 - 9N	185	15 - 13N	40
14 - 10N	75	15 - 11	50
14 - 11N	25	15 - 12	50
14 - 12N	35	15 - 13	60
14 - 13N	45	15 - 14	50
14 - 14N	75	15 - 15	40
14 - 15N	90	15 - 16	50
14 - 16N	25	15 - 17	50

RESULTS (Cont'd)

<u>Sample No.</u>	<u>Concn. (ppm)</u>	<u>Sample No.</u>	<u>Concn. (ppm)</u>
L5 - N3	70	L6 - N19	25
L5 - N9	35	L6 - N20	45
L5 - N10	40	L6 - N21	85
L5 - N11	50	L6 - N22	120
L5 - N12	30	L6 - N23	40
L5 - N14	100	L6 - N24	75
L5 - N15	30	L6 - N25	85
L5 - N16	40	L6 - N26	55
L5 - N17	40	L6 - N27	30
L5 - N18	20	L6 - N28	55
L5 - N19	30	L6 - N29	20
L5 - N20	35	L6 - N30	25
L5 - N21	35	L6 - N31	65
L5 - N22	25	L6 - N32	75
L5 - N23	35	L7 - 4N	15
L5 - N24	35	L7 - 5N	10
L5 - N25	25	L7 - 6N	25
L5 - N26	35	L7 - 12N	15
L5 - N27	30	L7 - 13N	10
L5 - N28	30	L7 - 15N	15
L5 - N29	30	L7 - 20N	15
L5 - N30	45	L7 - 22N	20
L6 - N1	25	L7 - 23N	25
L6 - N2	35	L7 - 24N	35
L6 - N3	60	L7 - 26N	25
L6 - N4	45	L82 - N1	30
L6 - N5	120	L82 - N2	30
L6 - N6	20	L82 - N3	20
L6 - N7	25	L82 - N4	15
L6 - N8	20	No Number	20
L6 - N9	35	48 N1	10
L6 - N10	25	48 N3	40
L6 - N11	30	48 N4	20
L6 - N12	25	48 N5	40
L6 - N13	25	48 N6	15
L6 - N14	40	48 N7	25
L6 - N15	65	48 N8	20
L6 - N16	20	48 N9	65
L6 - N17	40	48 N10	15
L6 - N18	25	48 N11	20

November 7, 1967

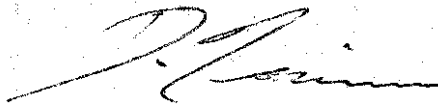
RESULTS (Cont'd)

<u>Sample No.</u>	<u>Concn. (ppm)</u>	<u>Sample No.</u>	<u>Concn. (ppm)</u>
L3 - 1N	35	L3 - 12N	5
L3 - 2N	50	L3 - 14N	30
L3 - 7N	25	L3 - 15N	15
L3 - 9N	10	L3 - 16N	10
L3 - 10N	15	L3 - 18N	10
L3 - 11N	15	L7 - 2N	10
		L7 - 3N	10

REMARKS:

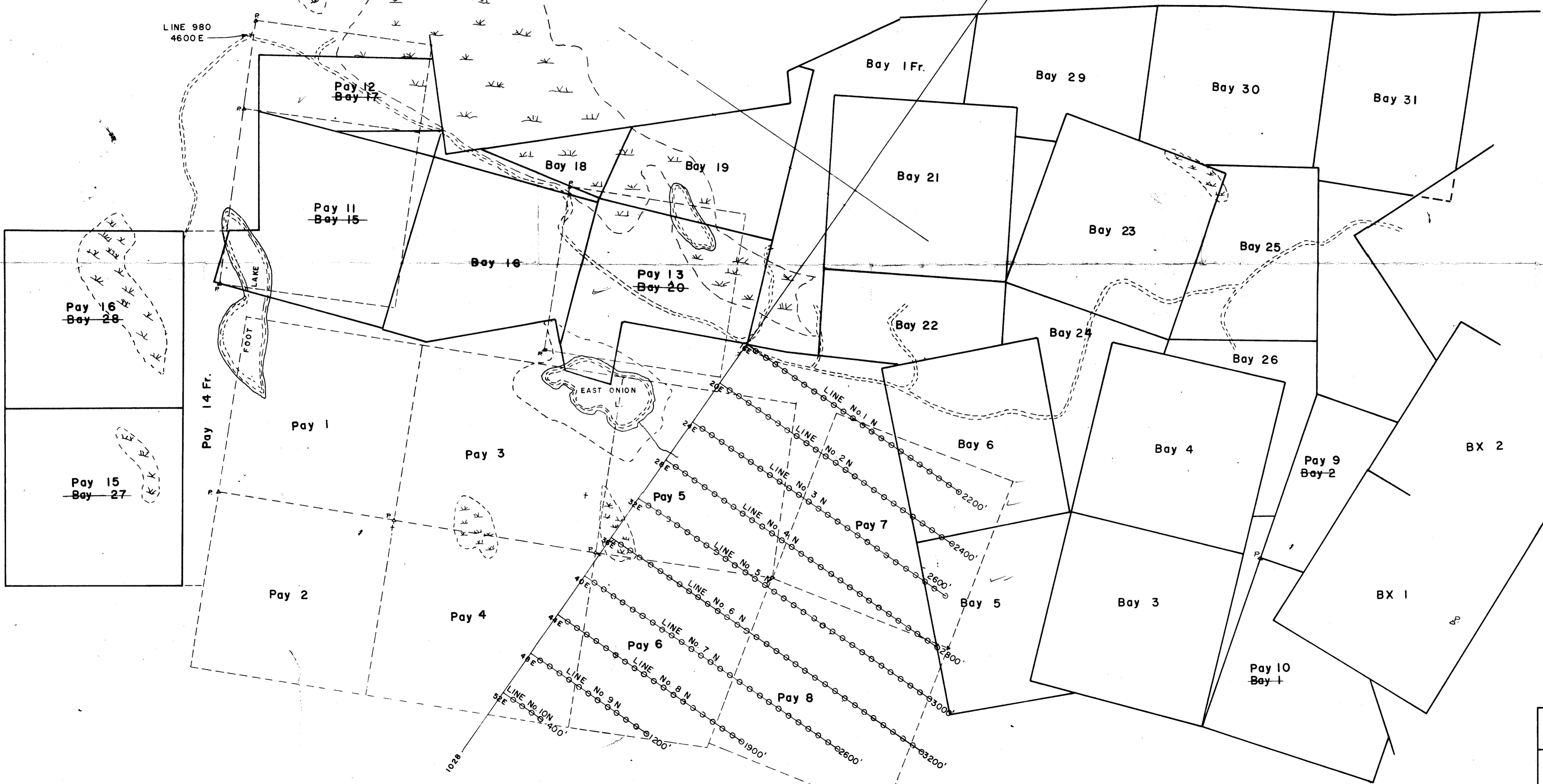
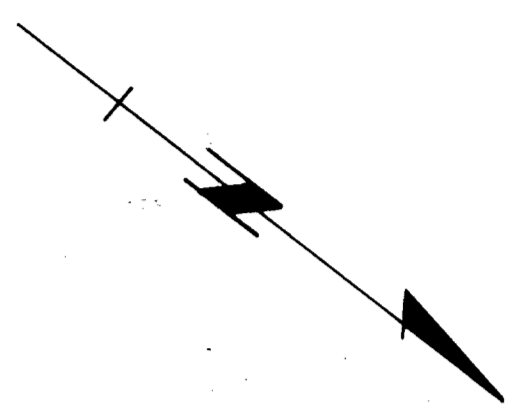
There were two samples labelled L3 - 17N; we processed both, labelling one with the suffix "A". There was also one sample in the L52 series with no number.

COAST ELDRIDGE



D. Thomas,
PROVINCIAL ASSAYER

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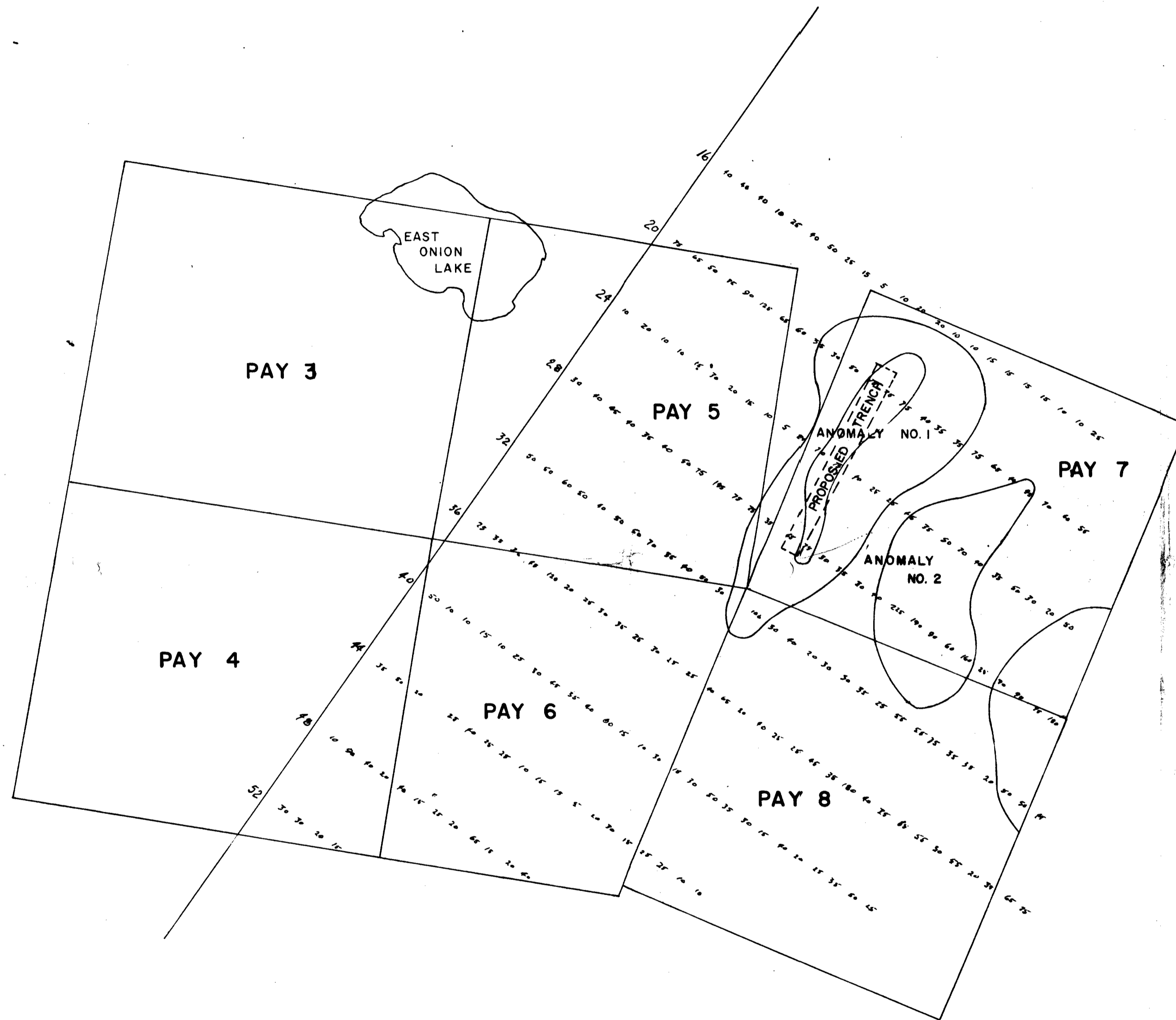


Department of
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LOCATION MAP OF BAY CLAIMS
HIGHLAND VALLEY B. C.

SCALE: 1" = 500'	DATE: OCT. 67	DWN. BY: G.R.D.	CHECKED:	MAP NO: 1
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Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 1112 MAP 1

1112				
MAP of PAY CLAIM GROUP SHOWING GEO CHEMICAL ANOMALIES				
REVISED	DWN. BY	DATE	SCALE	MAP
		NOV. 67	1" = 400'	2