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Industrial Mining Investigations

Geochem: Gold - Silver - Lead

Hall Creek - Specimen Creek

E. L. 4/61

M. D. Edyvean

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INDUSTRIAL & MINING INVESTIGATIONS PTY. LIMITED

Suite 3709,  
Australia Square,  
SYDNEY, NSW 2000  
AUSTRALIA

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REPORT ON FIELD INVESTIGATIONS OF THE  
HALL CREEK-SPECIMEN CREEK AREA

EXPLORATION LICENCE 4/61

5 June 1980

By  
M. D. EDYVEAN, B. Sc.

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2. Statistical Evaluation - Stream Sediment Survey - Lead
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REPORT ON FIELD INVESTIGATIONS OF THE  
HALL CREEK-SPECIMEN CREEK AREA - EL4/61

A. INTRODUCTION

During the period 20th January to 23rd May 1980, field investigations were undertaken over the Hall Creek-Specimen Creek area, EL4/61, to check out the old workings at Specimen Reef (gold), and at McPhee Creek-Davis Creek (lead-silver). These investigations in the main involved a geochemical stream sediment survey of the general area.

B. LOCATION AND ACCESS (See Map 1)

The area of interest is situated due north of the Savage River Mine open cut, between grid lines 5406000 metres N and 5412000 metres N, and 349000 metres E and 353000 metres E. The Savage River pipeline road serves as an access route to the eastern margin of the area. Foot tracks were cut from this road into the Hall Creek, Specimen Creek and Davis Creek areas.

C. PHYSIOGRAPHY AND TOPOGRAPHY (See Map 1)

Relief is typical of the Savage River area, extremely rugged and difficult to traverse.

D. RAINFALL AND VEGETATION

Rainfall and vegetation are typical of the West Coast of Tasmania. In excess of 200 centimetres of rainfall is common to the area, relatively evenly distributed throughout the year. February and March are generally the most favourable months for field investigations.

Vegetation is, in the main, very thick, dense temperate rain forest, in some places practically impenetrable. Consequently, field progress is slow.

E. GEOLOGY (See Map 2)

The area with which this report deals is occupied by the Precambrian Whyte Schist Formation of Urquhart (1966), as

outlined in Geological Survey Bulletin No.48, The Magnetite Deposits of the Savage River-Rocky River area. The pelitic and psammitic assemblages are both present.

Tertiary gravels occur at the head of Specimen Creek. Along Specimen Creek and McPhee Creek, down to the junction of Davis Creek and Hall Creek, (see Map 1 for location) the predominant rock type is amphibolite with occasional pelitic chloritic schists. Sulphide mineralization (pyrite) and minor magnetite lenses are confined to those rock types.

Several metres up Davis Creek from the junction with Hall Creek, the grey psammitic assemblages of slates, quartzites, sandstones and mica-schists were intersected. This change in rock type also occurs approximately 200 metres downstream along Hall Creek, from the Davis Creek junction, and continues to the Savage River.

As work in this area was of a reconnaissance nature, and that good exposure and access was confined to the creek beds, determination of trends in the rock type was difficult. Away from the creek beds the rocks were very decomposed, making identification difficult.

F. OLD WORKINGS (See Map 1 for approximate location)

The two adits in the Specimen Creek area (representing entrances to the auriferous quartz reef workings) were located. No mineralization whatsoever was detected in the dumps, and the adits were too dangerous to explore. (See Map 8 for Gold Lease)

A silver-lead dump was located upstream from the Specimen Creek-McPhee Creek junction. No galena mineralization was observed in situ. Numerous workings occurred on the eastern bank of Davis Creek -- probably silver-lead -- but no mineralization was detected in these diggings. (See Map 8 for Silver-Lead leases)

G. GEOCHEMICAL SURVEY (Maps 3, 4, 5, 6 & 7)

(i) General

The stream sediment survey was carried out over an area of approximately 8 square kilometres. Fifty-two (52) samples

were collected from Hall Creek, Davis Creek, McPhee Creek and Specimen Creek. Due to the ruggedness of the terrain, it was not possible to collect samples from the Broderick Creek area (N.B. gap in sample locations between No.97 and No.137 as plotted on Map 3). The density of sampling is in excess of 6 samples per km<sup>2</sup>.

(ii) Collection and Preparation of Stream Sediments

Samples of wet stream sediments were collected from recent and active alluvium. Samples were collected at approximately 400 metre intervals. Location of samples was plotted on 1:40,000 scale aerial photographs and 1:50,000 "HORTON" topographic sheets in the field, and the samples dried and sieved at base as follows:-

- + 40 mesh - panned for gold
- 40 + 80 mesh - retained in sample bags
- 80 mesh - despatched to Tetchem Laboratories, Cairns, for analyses.

Once again, the lack of - 80 fraction material in the stream sediments was a problem, necessitating the collection of large initial samples in order to obtain sufficient - 80 material for gold (Au) determination.

(iii) Geochemical Analyses (Appendix A)

Stream sediments of - 80 fraction were analysed by A.A.S. for copper, lead, zinc and silver content. Gold determinations have not, as yet, been received. (On their arrival, an appendix will be added to this report.)

Generally, the accuracy of analyses would be  $\pm$  15%. The lowest limits of detection of various elements are as follows:

- Copper - 1 part per million
- Lead - 3 parts per million
- Zinc - 3 parts per million
- Silver - 0.5 parts per million

(iv) Statistical Evaluation of Analyses (Appendix A and Graphs 1, 2, 3)

Sample locations were plotted on part map of HORTON 1:50,000 topographic sheet (Map 3). Analyses were plotted on part map of 1:31680 scale compiled by J. Sheehan, for Mining Engineer at Savage River Mines (Maps 4, 5, 6, 7 of this report).

Silver results were so scarce that no statistical evaluation was undertaken for silver.

Analytical results for Cu, Pb and Zn were studied statistically using the Cumulative Frequency Method involving medians and quartiles. (Details of calculations are included in Appendix A)

A summary of the median value, standard deviation and lowest anomalous value for the various elements are given below:

<u>No. of Samples</u>	<u>Element</u>	<u>Median</u>	<u>Standard Deviation</u>	<u>Lowest Anomalous Value</u>
52	Copper	27.2*	17.7*	98.0*
52	Lead	27.0*	37.5*	69.0*
52	Zinc	49.0*	33.0*	181.0*

\* parts per million

(v) Conclusions on Stream Sediment Survey

Samples which are computed to be anomalous are listed below:

<u>Element</u>	<u>Anomalous Sample</u>
(Cu) Copper	No. 126 -- 102 ppm
(Pb) Lead	No. 106 -- 101 ppm
	No. 100 -- 409 ppm
	No. 99 -- 784 ppm
	No. 130 -- 900 ppm
(Zn) Zinc	No. 100 -- 218 ppm
	No. 130 -- 284 ppm
	No. 99 -- 345 ppm

The anomalous values for the three samples 99, 100 and 130, for both lead and zinc are significant. These samples also show some silver content. (See Map 7)

H. CONCLUSIONS

The anomalous copper value is of low rank and does not warrant further investigation.

However, the anomalous lead-zinc values of samples 99, 100 and 130 are significant and warrant a more detailed investigation of that area around the Specimen Creek-McPhee Creek

junction, (Samples 99 & 100 - anomalous Pb & Zn), and south-south west along the strike of the country rock to include the headwaters of the small creek that gave the high lead-zinc values for sample 130.

This investigation should be in the form of a detailed ground geological investigation in conjunction with a detailed geochemical soil sampling programme on a controlled grid. If need be, this should be followed up by some form of geophysical survey.

Also, in view of the anomalous lead-zinc values obtained, the old lead workings in the Davis Creek area, and in the vicinity of the Specimen Creek-McPhee Creek junction, should be investigated more thoroughly.

I. RECOMMENDATIONS FOR FUTURE EXPLORATION OF EL 4/61

Initially, as outlined above, the area of anomalous lead-zinc values should be thoroughly investigated.

This should be followed by continuing general field investigations to the north, to include Broderick and McAuliffe Creeks and the Little Donaldson River (see Map 1 for location).

It will be at least late September before weather conditions will be suitable for field work to re-commence. In the meantime, a detailed field programme for the 1980/81 field season will be planned and organised.

APPENDIX A

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1. GEOCHEMICAL ANALYSES
2. STATISTICAL EVALUATION AND CALCULATIONS  
-- COPPER, LEAD, ZINC

081010

## TETCHEM LABORATORIES PTY. LTD.

Phone 51 5518  
Telex: "Tetlab" AA484231 Ogden Street,  
Cairns

## CERTIFICATE OF ANALYSIS

No. 173/80

SHEET No. 1

INV. No.

Samples Submitted by INDUSTRIAL &amp; MINING INVESTIGATION PTY. LTD

Samples Received by Request No.

All results in p.p.m. unless otherwise indicated.

SAMPLE MARKINGS	Cu	Pb	Zn	Ag
IMI. 90	SAMPLE MISSING			
91	11	25	26	-
92	17	28	43	1
93	24	37	71	-
94	22	33	34	-
95	18	34	33	-
96	23	24	30	-
97	36	41	122	-
98	24	28	43	1
99	49	784	345	3
100	47	409	218	2
101	24	22	50	-
102	22	29	52	-
103	28	24	85	-
104	36	34	53	-
105	45	48	147	-
106	34	101	91	1
107	27	21	46	-
108	24	22	55	-
109	71	33	162	-
110	48	26	53	-
111	67	31	89	-
112	31	35	41	-
113	27	23	36	-
114	35	34	32	-
115	26	23	47	-
116	29	26	50	-
117	32	38	61	-
118	10	14	15	-
119	11	16	16	-
120	11	19	23	-
121	10	21	27	1
122	27	20	25	-
123	19	25	34	-
124	12	18	20	-
125	9	15	16	-
126	102	45	104	-
127	72	38	92	-
128	36	26	69	-
129	34	31	58	-
130	74	900	284	2
131	28	34	55	-
132	35	31	60	-
133	89	40	93	1
134	22	22	45	-
135	18	21	35	-
136	23	22	46	-
IMI. 137	20	26	48	-

FOR METHOD DETAILS, SEE PRICE LIST

CHIEF CHEMIST

DATE

29/4/1980

## REMARKS:

METHOD A: The sign - for Ag is less than 1

## ABBREVIATIONS:

bid—below limit of detection.

dwt—pennyweights troy per short ton of 2000 pounds.

lb—pounds per short ton.

oz—ounces troy per short ton of 2000 pounds.



**TETCHEM LABORATORIES PTY. LTD.**

Phone 51 5518  
Telex: "Tetlab" AA48423

1 Ogden Street,  
Cairns

**CERTIFICATE OF ANALYSIS**

No. 173/80

SHEET No. 2

INV. No.

Samples Submitted by INDUSTRIAL & MINING INVESTAGATIONS. PTY. LTD

Samples Received by ..... Request No. ....

All results in p.p.m. unless otherwise indicated.

AMPLE MARKINGS	Cu	Pb	Zn	Ag		
IMI. 138	24	28	53	-		SPECIMEN CK. ↑
139	20	23	47	-		
140	52	35	67	-		
141	24	22	43	-		
IMI. 142	77	30	77	-		
1000N/0	14	14	8	-		↓ Y ISROUSN PHAINS
100	11	15	9	-		
200	15	14	9	-		
300	14	16	11	-		
400	30	22	24	-		
1000N/500	13	13	9	-		
1100/0	11	12	8	-		
100	66	15	27	-		
200	36	16	25	-		
300	32	56	48	-		
400	28	47	39	-		
1100 /500	23	71	37	-		
1200/0	18	15	37	-		
100	25	204	82	-		
200	54	802	298	-		
300	56	857	292	2		
1200/400	163	31%	425	9		

CHIEF CHEMIST *[Signature]*

FOR METHOD DETAILS, SEE PRICE LIST

DATE 29/4/1980

REMARKS:

**ABBREVIATIONS:**

- bld—below limit of detection.
- dwt—pennyweights troy per short ton of 2000 pounds.
- lb—pounds per short ton.
- oz—ounces troy per short ton of 2000 pounds.

## APPENDIX A

Sheet 1 of 7

## STATISTICAL EVALUATION - COPPER

p.p.m.	9	10	11	12	17	18	19	20	22	23	24	26	27	28	29	31
Frequency	1	2	3	1	1	2	1	2	3	2	6	1	3	2	1	1
Cumulative Frequency	1	3	6	7	8	10	11	13	16	18	24	25	28	30	31	32
Cumulative %	1.9	5.75	11.5	13.5	15.4	19.2	21.2	25.0	30.8	34.6	46.2	48.0	53.8	57.7	59.6	61.5

p.p.m.	32	34	35	36	45	47	48	49	52	67	71	72	74	77	89	102
Frequency	1	2	2	3	1	1	1	1	1	1	1	1	1	1	1	1
Cumulative Frequency	33	35	37	40	41	42	43	44	45	46	47	48	49	50	51	52
Cumulative %	63.5	67.3	71.2	76.9	78.8	80.8	82.7	84.6	86.5	88.5	90.4	92.3	94.2	96.2	98.1	100

From Graph 1.

$Q_3$  = 75% Cumulative Frequency = 39.0 p.p.m.  
 $Me$  = 50% " " = 27.2 p.p.m.  
 $Q_1$  = 25% " " = 20.0 p.p.m.

- (i) Thus Standard Deviation at  $1.5 (Q_3 - Me)$   
 $= 1.5 (39.0 - 27.2)$   
 $= 1.5 \times 11.8$   
 $= 17.7 \text{ p.p.m.}$
- (ii) Normal Distribution  $= Me + \text{Standard Deviation}$   
 $= Me + 1.5 (Q_3 - Me)$   
 $= 27.2 + 17.7$   
 $= 44.9 \text{ p.p.m.}$
- (iii) Anomalous Value  $= Me + 4 \text{ Standard Deviations}$   
 $= Me + 6 (Q_3 - Me)$   
 $= 27.2 + 6 (11.8)$   
 $= 27.2 + 70.8$   
 $= 98 \text{ p.p.m.}$
- (iv) Anomalous Reading  $= 102 \text{ p.p.m.} - \text{Sample No. 126}$

Sheet 3 of 7

## STATISTICAL EVALUATION - LEAD

p.p.m.	14	15	16	18	19	20	21	22	23	24	25	26	28	29	30
Frequency	1	1	1	1	1	1	3	5	3	2	2	4	3	1	1
Cumulative Frequency	1	2	3	4	5	6	9	14	17	19	21	25	28	29	30
Cumulative %	1.9	3.8	5.75	7.7	9.6	11.5	17.3	26.9	32.7	36.5	40.4	48.0	53.8	55.8	57.7

p.p.m.	31	33	34	35	37	38	40	41	45	48	101	409	784	900
Frequency	3	2	4	2	1	2	1	1	1	1	1	1	1	1
Cumulative Frequency	33	35	39	41	42	44	45	46	47	48	49	50	51	52
Cumulative %	63.5	67.3	75.0	78.8	80.0	84.6	86.5	88.5	90.4	92.3	94.2	96.2	98.1	100

From Graph 2.

 $Q_3 = 34$  p.p.m.

Me = 27 p.p.m.

 $Q_1 = 22.4$  p.p.m.

- (i) Thus Standard Deviation at 1.5 ( $Q_3 - Me$ )  
= 1.5 (34 - 27)  
= 1.5 (7)  
= 10.5 p.p.m.
- (ii) Normal Distribution = Me + Standard Deviation  
= Me + 1.5 ( $Q_3 - Me$ )  
= 27.0 + 10.5  
= 37.5 p.p.m.
- (iii) Anomalous Value = Me + 4 Standard Deviation  
= Me + 6 ( $Q_3 - Me$ )  
= 27.0 + 6 (7)  
= 27.0 + 42  
= 69 p.p.m.
- (iv) Anomalous Readings = 101 p.p.m. - Sample No. 106  
= 409 p.p.m. - Sample No. 100  
= 784 p.p.m. - Sample No. 99  
= 900 p.p.m. - Sample No. 130

## STATISTICAL EVALUATION - ZINC

p.p.m.	15	16	20	23	25	26	27	30	32	33	34	35	36	41
Frequency	1	2	1	1	1	1	1	1	1	1	2	1	1	1
Cumulative Frequency	1	3	4	5	6	7	8	9	10	11	13	14	15	16
Cumulative %	1.9	5.75	7.7	9.6	11.5	13.5	15.4	17.3	19.2	21.2	25.0	26.9	28.8	30.8

p.p.m.	43	45	46	47	48	50	52	53	55	58	60	61	67	69
Frequency	3	1	2	2	1	2	1	3	2	1	1	1	1	1
Cumulative Frequency	19	20	22	24	25	27	28	31	33	34	35	36	37	38
Cumulative %	36.5	38.5	42.3	46.2	48.0	51.9	53.8	59.6	63.5	65.4	67.3	69.2	71.2	73.1

p.p.m.	71	77	85	89	91	92	93	104	122	147	162	218	284	345
Frequency	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cumulative Frequency	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Cumulative %	75.0	76.9	78.8	80.8	82.7	84.6	86.5	88.5	90.4	92.3	94.2	96.2	98.1	100

From Graph 3.

$$Q_3 = 71 \text{ p.p.m.}$$

$$Me = 49 \text{ p.p.m.}$$

$$Q_1 = 30,8 \text{ p.p.m.}$$

(i) Thus Standard Deviation at  $1.5 (Q_3 - Me)$

$$= 1.5 (71 - 49)$$

$$= 1.5 \times 22$$

$$= 33 \text{ p.p.m.}$$

(ii) Normal Distribution

$$= Me + \text{Standard Deviation}$$

$$= Me + 1.5 (Q_3 - Me)$$

$$= 49 + 33$$

$$= 82 \text{ p.p.m.}$$



APPENDIX B

80-1442

081019

RECEIVED	21 JUL 1980	Registrar
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SUPPLEMENTARY REPORT ON THE FIELD INVESTIGATIONS OF  
THE HALL CREEK-SPECIMEN CREEK AREA - EL4/61 - GOLD ANALYSES

*VT  
copy records  
& file report.*

A. INTRODUCTION

Gold analyses on the 52 stream sediment samples collected from the Hall Creek-Specimen Creek area have still not been received from the Tetchem Laboratories, Cairns. Numerous approaches to Tetchem to produce these results have been fruitless, and it is quite obvious that the samples have been lost.

Consequently, I arranged for the Tasmanian Department of Mines to assay the residual >80 micron fraction from the original samples for gold (Au) content.

B. RESULTS (Map 1 and Assay Sheet Attached)

Only three (3) samples registered Au values of any significance. Sample 111, taken from a small creek to the south of the old workings at Specimen Reef (See Section F, my report of 5 June 1980), assayed at 4.8g/tonne, i.e. 2.8dwt/short ton.

C. CONCLUSIONS

The value of 4.8g/tonne for sample 111 is encouraging and warrants a more detailed investigation of the area around the "old workings" of Specimen Reef. This investigation shall involve a thorough geological survey, a grid-controlled geochemical soil survey and, if possible, a re-opening and examination of the "old" adits. The purpose of these investigations would be to outline the best target area for placing a bore hole, beneath the old workings.

M. D. Edyvean

16 July 1980

M 1588

081020

## DEPARTMENT OF MINES—TASMANIA



TELEPHONES:  
 Metallurgical Research .. .. }  
 Laboratory .. .. } 44 2431-2  
 Mines Inspection .. .. } (2 lines)  
 Explosives & Inflammable Liquids }

LAUNCESTON OFFICES  
 287 WELLINGTON STREET  
 SOUTH LAUNCESTON 7250

11th June 1980

Industrial & Mining Investigations P/L  
 Suite 3709,  
 Australia Square,  
 Sydney 2000  
N.S.W.

13.00.00

c.c. Mr. M. Edyvean,  
 13 Blaydon Street,  
Launceston 7250

Reg. Nos 801397-448

Dear Sir,

Please find below results of samples submitted to this laboratory on the 2nd Jun'80 and stated to be from Specimen Ok and Hall Ck area. E.L. 4/61.

<u>Reg. Nos</u>	<u>Description</u>	<u>Au g/t</u>
801397	91	0.7
398	92	<0.3
399	93	<0.3
400	94	<0.3
401	95	<0.3
402	96	<0.3
403	97	<0.3
404	98	<0.3
405	99	<0.3
406	100	<0.3
407	101	<0.3
408	102	<0.3
409	103	<0.3
410	104	<0.3
411	105	<0.3
412	106	<0.3
413	107	<0.3
414	108	<0.3
415	109	<0.3
416	110	<0.3
417	111	4.8
418	112	<0.3
419	113	<0.3
420	114	<0.3
421	115	<0.3

<u>Reg. No.</u>	<u>Description</u>	<u>Au g/t</u>
801422	116	<0.3
423	117	<0.3
424	118	<0.3
425	119	<0.3
426	120	<0.3
427	121	<0.3
428	122	<0.3
429	123	<0.3
430	124	<0.3
431	125	<0.3
432	126	<0.3
433	127	<0.3
434	128	<0.3
435	129	<0.3
436	130	<0.3
437	131	<0.3
438	132	<0.3
439	133	<0.3
440	134	<0.3
441	135	<0.3
442	136	<0.3
443	137	<0.3
444	138	<0.3
445	139	<0.3
446	140	<0.3
447	141	<0.3
448	142	0.3

Yours faithfully,

  
 (H. K. Wellington)  
Chief Chemist & Metallurgist.

Analyses by *L. M. Gray*  
*J. L. Leith*

081022

REPORT NO. 80 - 801442

TASMANIA DEPARTMENT OF MINES  
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TITLE REPORT ON FIELD INVESTIGATIONS OF THE HALLS CREEK  
SPECIMEN CREEK AREA

AUTHOR (S) M. J. EDYVEAN

COMPANY INDUSTRIAL AND MINING INVESTIGATIONS

SUBJECT TERMS BASE METAL GEOCHEMISTRY. DATE 5-6-80  
N.B. SUP-16-7-80

Concepts STREAM-SEDIMENT SAMPLING

N.B. ALLUVIAL GOLD SAMPLING - ASSAY OF STREAM SEDIMENT  
SAMPLES

Other

LOCATION HALLS CREEK : SPECIMEN CREEK : (N. SAVAGE RIVER MINE)

Sheet Reference HORTON 1:50000 SHEET 7915-III  
(ARTHUR RIVER SW 1:100000)

Geographic

SUMMARY

52 stream sediment samples from 8 K<sup>2</sup>, analysed by  
A.A. for Cu, Ag, Pb + Zn (Au results pending) and  
significance of anomalies confirmed by graph.  
Anomalies for Pb + Zn.

NOTE - Supplementary RPT on Hall Creek - Specimen  
Creek Fieldwork (Gold Assays)

SUMMARY

52 > 80 micron samples assayed for Au  
at Lton Labs with only one rich  
sample identified related to old workings of  
Specimen Reef. (refer 80-2006.)

REPORT STRUCTURE

Volume:	1	2	3	4	5
Text	_____	_____	_____	_____	_____
Plans:	_____	_____	_____	_____	_____
Contents:	_____	_____	_____	_____	_____

REFERENCE

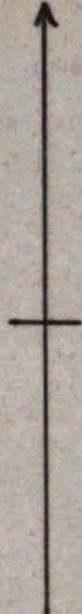




STREAM SEDIMENT SAMPLE LOCATION:- HALL CK. - SPECIMEN CK. AREA E.L.4/61.

E.L.4/61 BOUNDARY

N



54-10



1:50000

5 cm

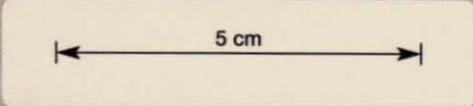
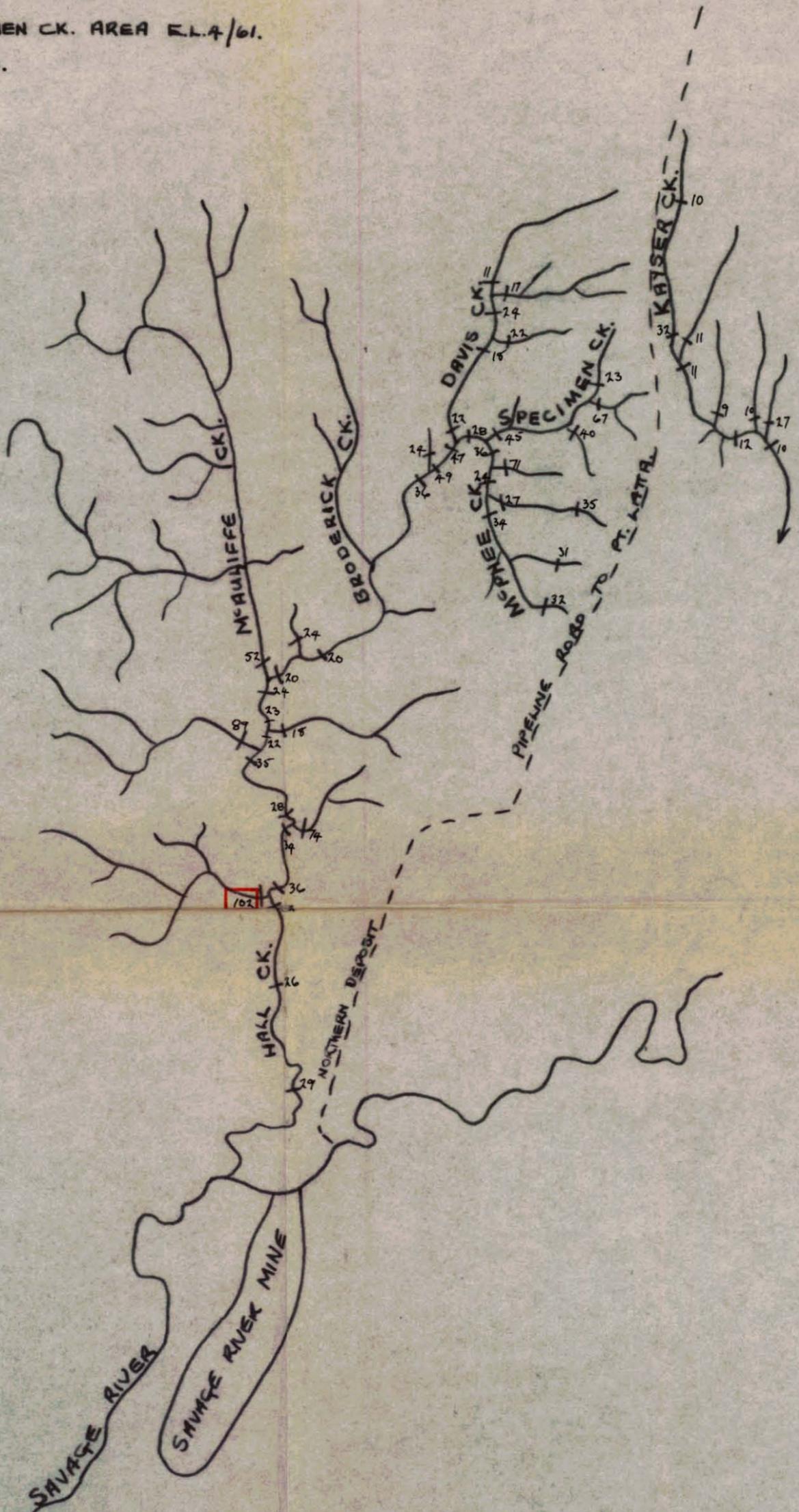
126 etc. ANOMALOUS SAMPLE.

M. E. DYVERN.

MAY 1980

GEOCHEMICAL SAMPLING PROGRAMME  
HALL CK. - SPECIMEN CK. AREA E.L.4/61.  
COPPER ANALYSES.

GRID NTH.



 ANOMALOUS READING.

SCALE: 1cm to 316.8 metres

M. EDYVEAN.  
MAY 1980.

081027

MAP 5

GEOCHEMICAL SAMPLING PROGRAMME  
HALL CK. - SPECIMEN CK. AREA E.L. 4/61.  
LEAD ANALYSES.

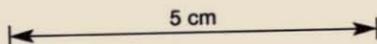
GRID NTH.



M. EDYVEAN  
MAY 1980.

 ANOMALOUS READING

SCALE: 1cm to 316.8 metres



MAP 6

GEOCHEMICAL SAMPLING PROGRAMME  
HALL CK. - SPECIMEN CK. AREA K.L.4/61.  
ZINC ANALYSES.

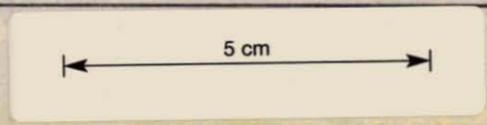
GRID NTH.



M. E. DYVERN  
MAY 1980.

 ANOMALOUS READING

SCALE: 1cm to 316.8 metres



081029

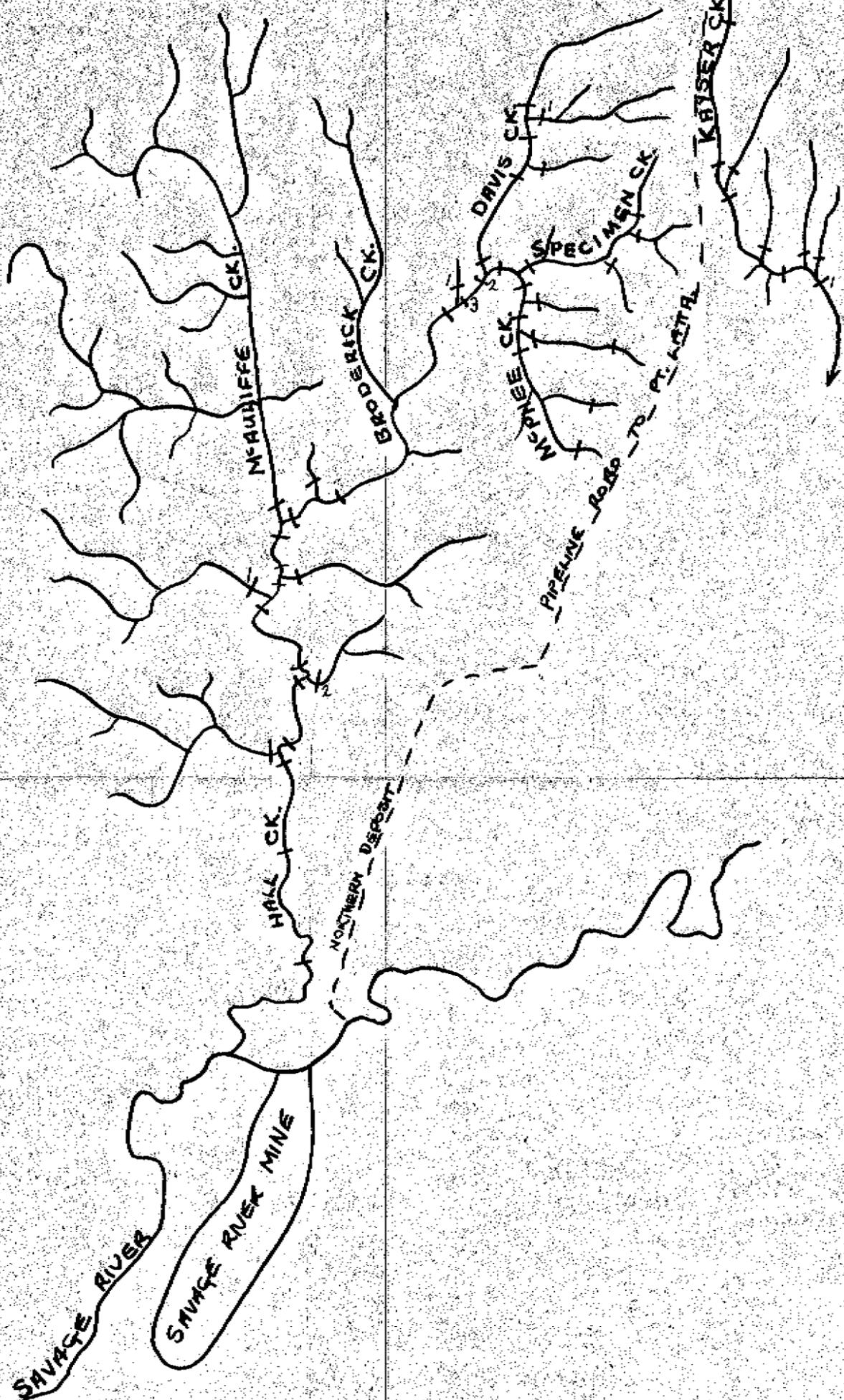
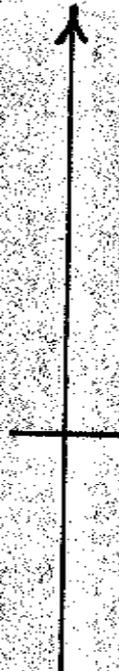
MAP 7(a)

GEOCHEMICAL SAMPLING PROGRAMME

HALL CK. - SPECIMEN CK. AREA E.L.4/61.

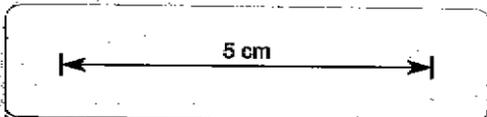
SILVER ANALYSES.

GRID NTH.



M. EDYVEAN  
MAY 1980.

SCALE: 1cm to 316.8 metres



GEOCHEMICAL SAMPLING PROGRAMME

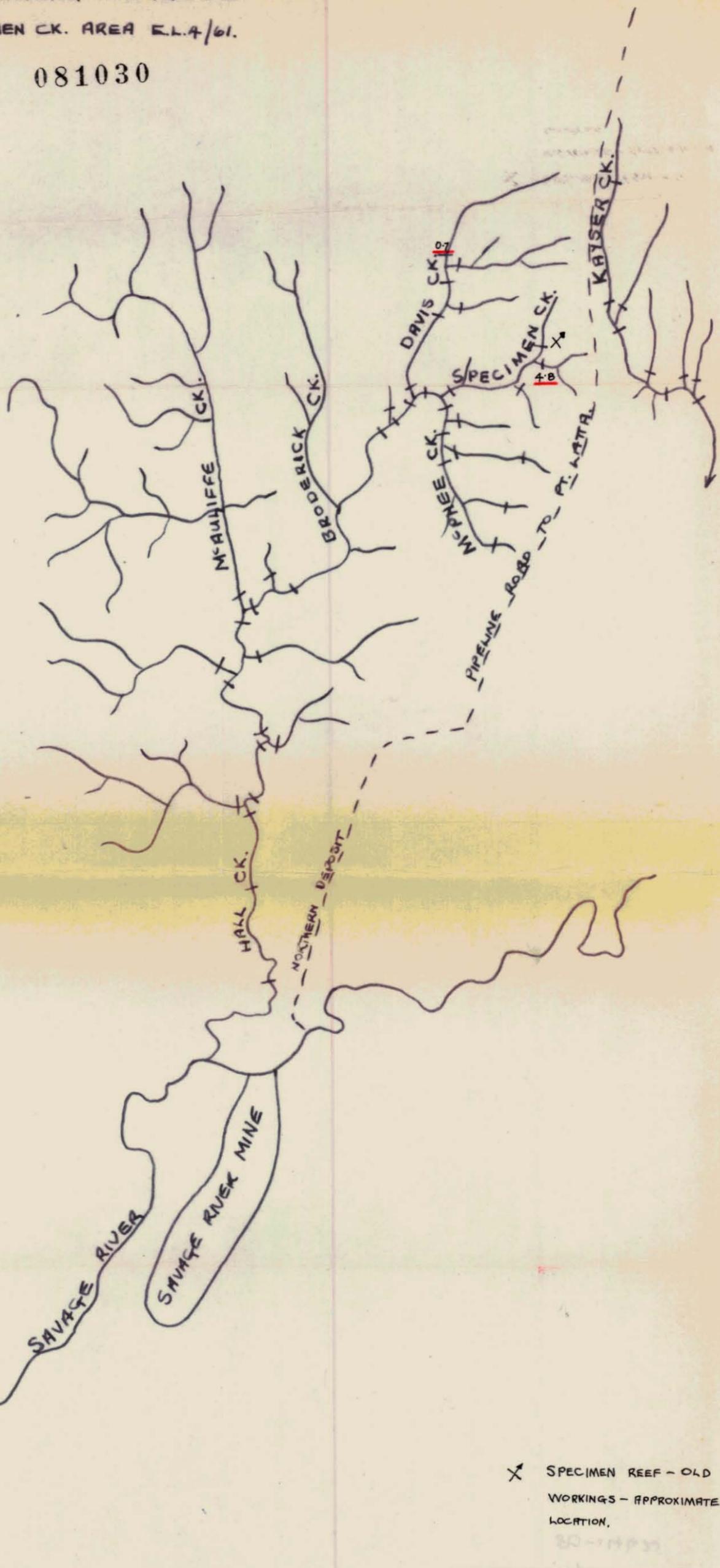
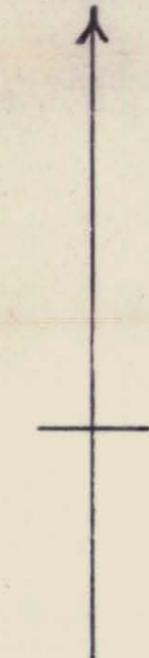
HALL CK. - SPECIMEN CK. AREA E.L. 4/61.

GOLD ANALYSES.

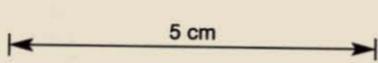
Map 7(b)

081030

GRID NTH.



X SPECIMEN REEF - OLD WORKINGS - APPROXIMATE LOCATION.



SCALE: 1 cm to 316.8 metres

M. EDYVERN.  
MAY 1980.

3623  
3746 OLD LEASE



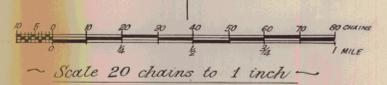
E.L. 4/61 381 S.K.M.  
INDUSTRIAL & MINING INVESTIGATIONS P/L  
23 2 80

E.L. 1/68 175 S.K.M.  
COMSTAFF P/L.  
30 6 80

AREA AVAILABLE UNDER SEC. 7 SHOWN

E.L. 26/78 1380 S.K.M.  
MT LYELL MG & RLY CO LTD  
GEMS. 23 5 80 B.D.Y.

E.L. 16/78 255 S.K.M.  
ABERFOYLE EXPL. PA  
20 4 80



LONG PLAINS

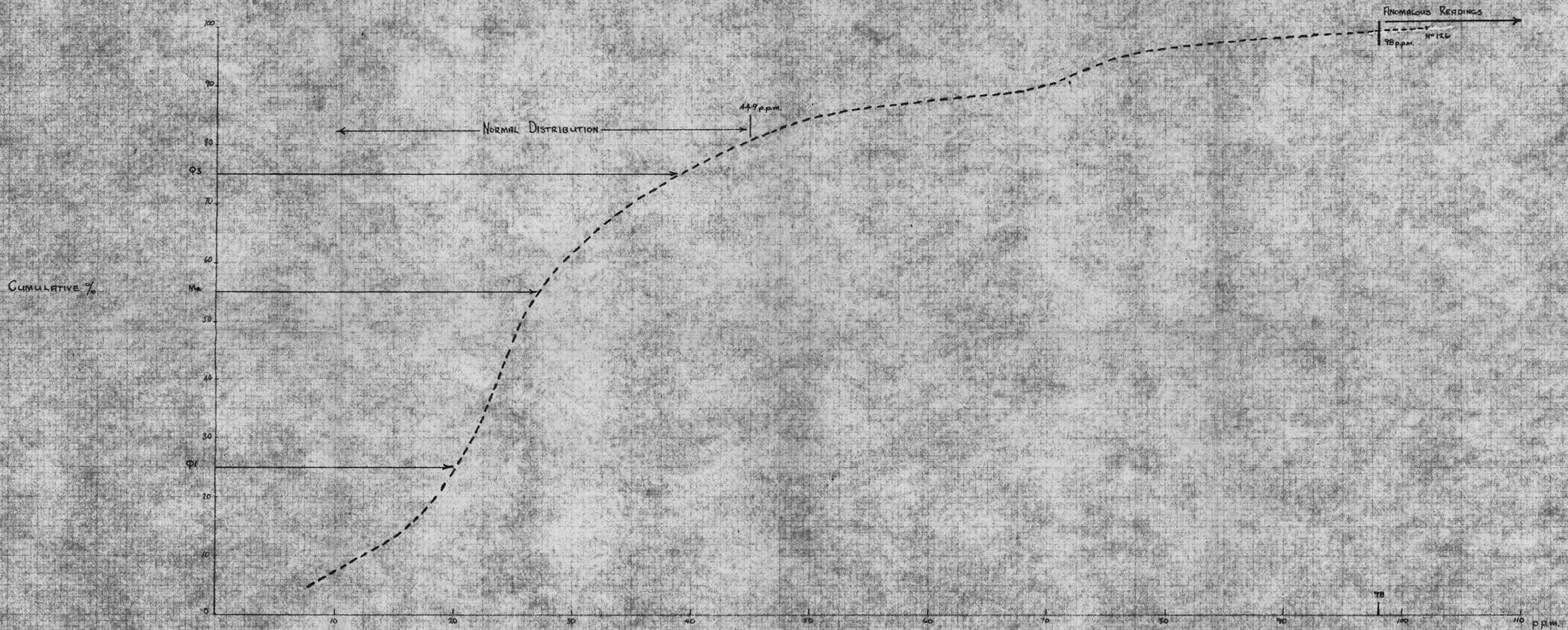
LONG PLAINS

FOR SECTIONS EAST AND ADJOINING SEE HEAZLEWOOD MINERAL CHART

FOR SECTIONS SOUTH AND ADJOINING SEE ROCKY RIVER MINERAL CHART

STATISTICAL EVALUATION - STREAM SEDIMENTS - COPPER ANALYSES

HALL CK. - SPECIMEN CK AREA - ELA/61

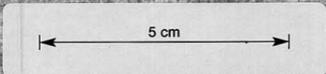


Q3 = 39 ppm

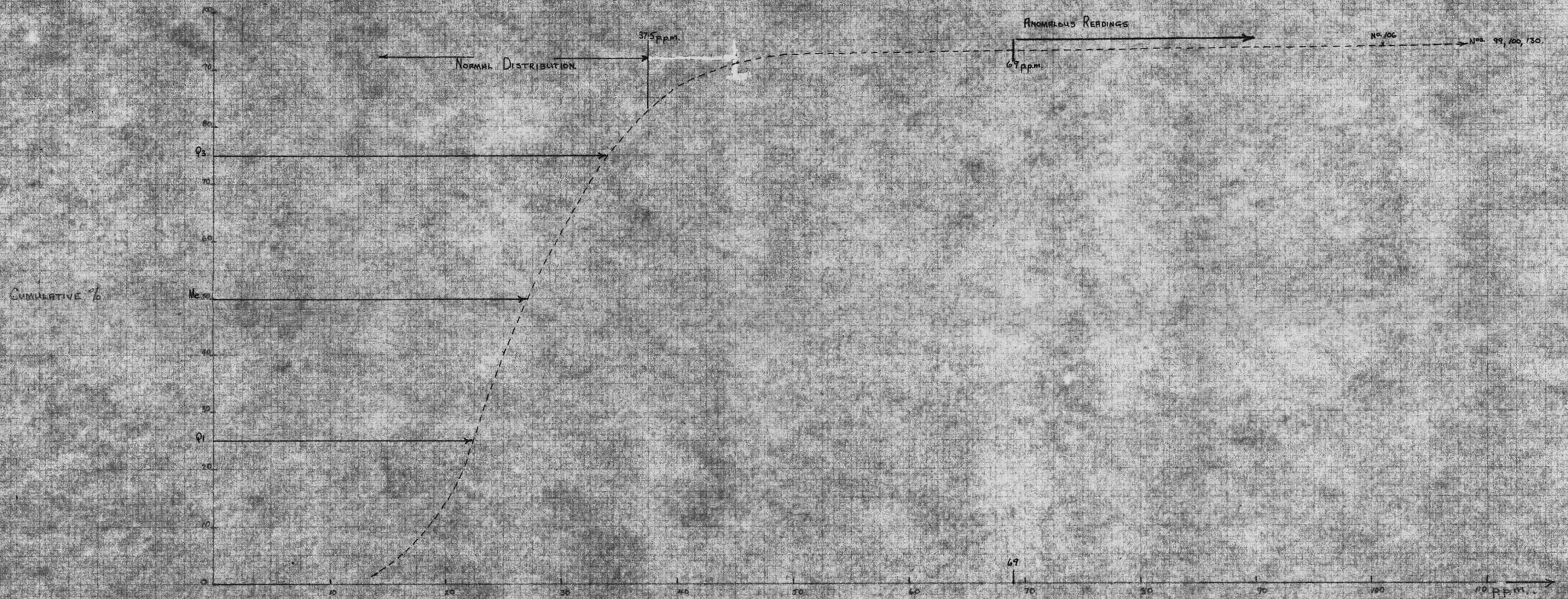
Me = 27.2 ppm

Q1 = 20 ppm

ANOMALOUS SAMPLE: N° 126 = 102 ppm



STATISTICAL EVALUATION: STREAM SEDIMENTS - LEAD ANALYSES  
 HALL CK - SPECIMEN CK AREA - EL4/G1.

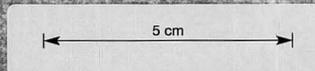


Q<sub>3</sub> = 37 p.p.m.

Me = 27 p.p.m.

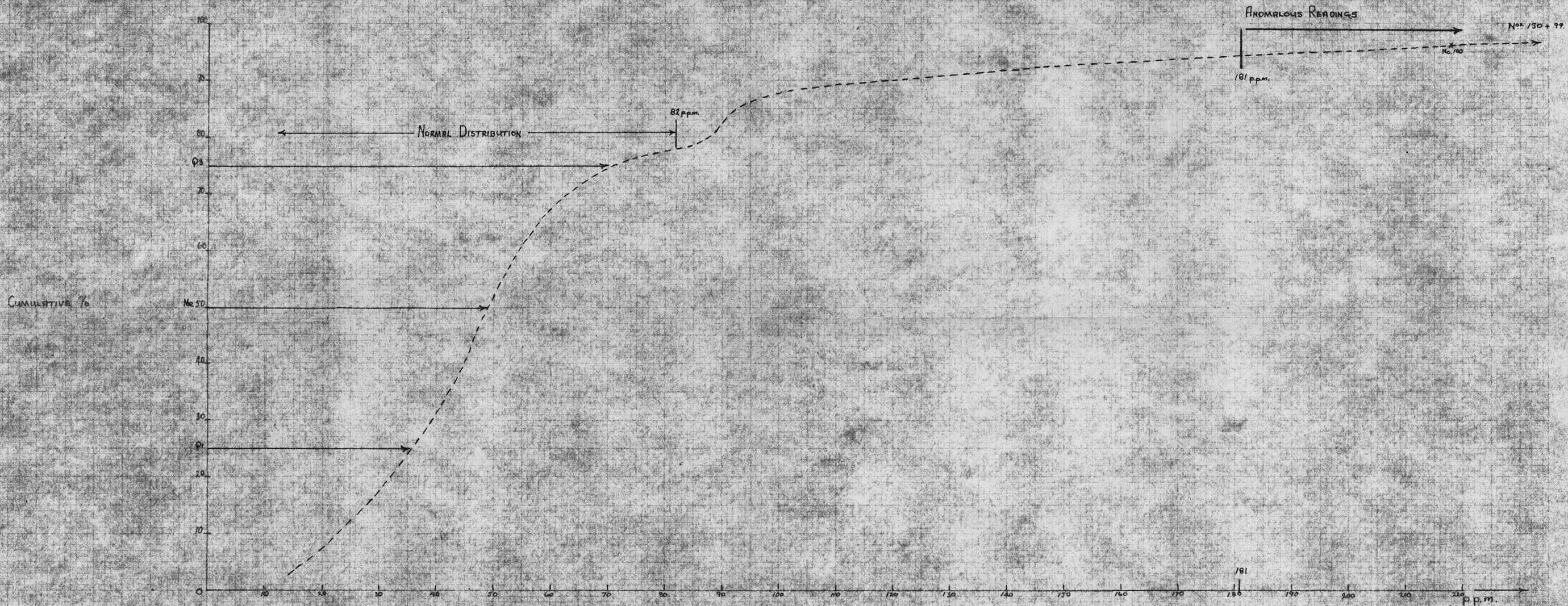
Q<sub>1</sub> = 22.4 p.p.m.

ANOMALOUS SAMPLES: Nos 106 = 101 p.p.m.  
 100 = 409 p.p.m.  
 99 = 784 p.p.m.  
 130 = 900 p.p.m.



STATISTICAL EVALUATION - STREAM SEGMENTS - ZINC ANALYSES

HALL CK - SPECIMEN CK, AREA - ELA/61



Q3 = 77 p.p.m.

Mc = 49 p.p.m.

Q1 = 30 p.p.m.

ANOMALOUS SAMPLES: Nos. 100 = 218 p.p.m.

100 = 204 p.p.m.

99 = 245 p.p.m.