83-#821 ~ 11646
12/84

ASSESSMENT REPORT

ON THE

SOIL SAMPLING

AND

GEOLOGIC MAPPING

PROGRAMMES

ON THE

ANTON PROPERTY

HILLS, B. C.

LATITUDE: 50° 5' N

LONGITUDE: 117° 25' W

NTS: 82K/3 and 82K/4

FOR

OWNER: ALEX STREBCHUK

OPERATOR: SHANNON CREEK RESOURCES CORP.

December 14, 1983

D. W. Rennie, P. Eng.

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SUMMARY

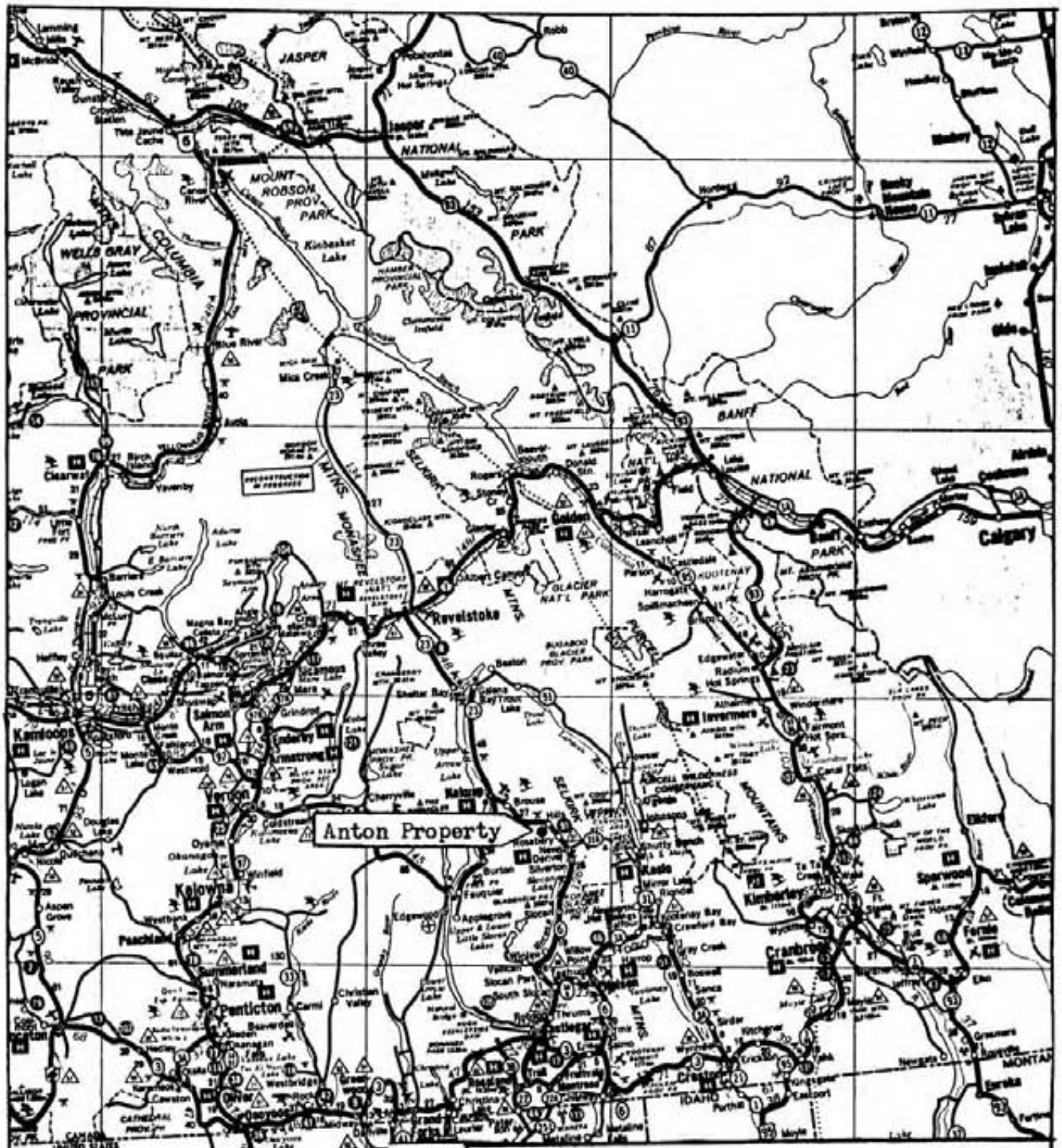
Shannon Creek Resources Corp. personnel have carried out detail soil sampling and geologic mapping around a silver geochemical anomaly on the Anton 2 claim near Hills, B. C. The purpose of this work was to provide information to facilitate planning of a diamond drilling programme. A geologic map was made of the showing and a total of 168 soil samples taken. The geochemical sampling did not delineate any new trends or extensions to known anomalies.

INTRODUCTION

The Anton Property, at Hills, B. C., is located in an area that had, for many years, been the target of extensive mineral exploration and mining activity. The silver-lead-zinc deposits of the Slocan region have been worked for almost one hundred years and produced, in their peak years, over 200,000 tons of ore annually (Cairnes, 1934). Most recently, due to the gold discovery at Tillicum Mountain, located 16 km. southwest of the property, exploration activity in this area has undergone a marked increase.

Geochemical soil sampling on these claims, conducted by Cyprus Anvil Mining Corporation, outlined many areas with high concentrations of copper, molybdenum, zinc and silver in the soil. Trenching and a small amount of diamond drilling on one of these zones has resulted in the discovery of a silver showing on the Anton 2 claim.

In order to more fully define the extent of this showing, and to guide future diamond drilling programmes, detailed geochemical sampling was conducted. A total of 168 samples were taken and analyzed for gold, silver, lead, zinc and copper. In addition to this sampling, detailed geologic mapping was carried out over the trenches and rock outcrops in the vicinity of the anomaly.



P. J. (PEC) SANTOS, P.Eng.
Consulting Geologist

INDEX MAP

Figure 1

LOCATION AND ACCESS

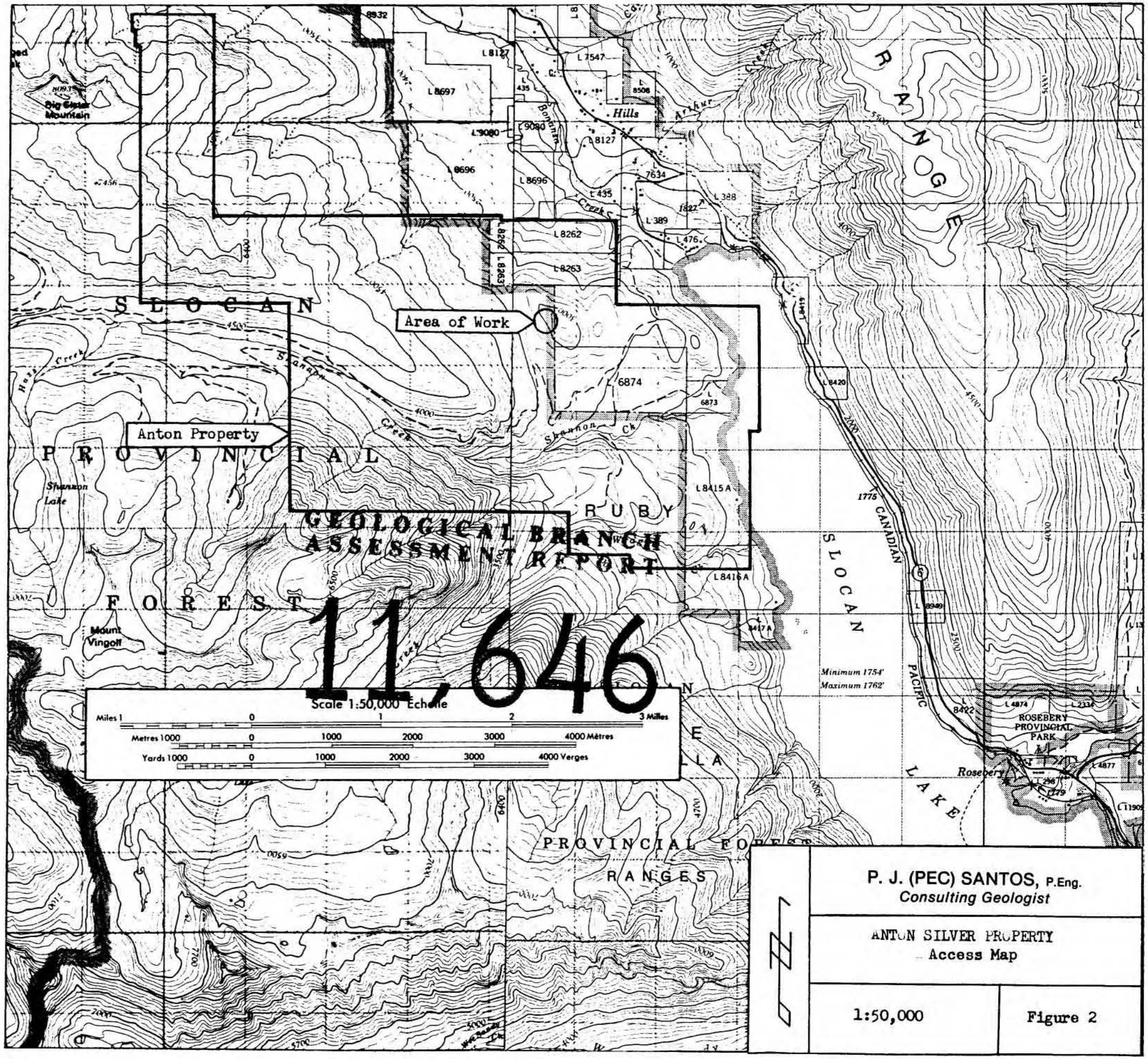
The Anton Property is located in the Slocan Mining Division, at latitude 50°, 5' N., and longitude 117°, 25' W. (see Figure 1). The property is on the boundary of NTS map sheets 82K/3 and 82K/4, on the northwest corner of Slocan Lake (Figure 2).

Access to the claims is gained by a good gravel logging road which leaves Highway 6 at Hills, B. C. (Figure 2). The more remote areas of the property can be reached on foot via skid trails and cat-roads. Hills is an unincorporated settlement located 30 km. south of Nakusp, B. C.

The topography in this area is quite rugged with slopes in the order of 30 to 45 degrees and elevations ranging from 550 metres to over 1800 metres.

CLAIMS

The claims are located in the Slocan Mining Division on Mineral Titles Reference maps M82K/3W and M82K/4E (Figure 3). They are all Modified Grid claims belonging to Alex Strebchuk of Hills, B. C. Pertinent claims data are listed below.



P. J. (PEC) SANTOS, P.Eng.
Consulting Geologist

ANTON SILVER PROPERTY
Access Map

1:50,000 | Figure 2

M82K/3 & M82K/4

GOLD CREEK 2
3241 (10)

SKI 1
2979(8)

RUGGED PK.

AIR 1
2981(8)

BIG SISTER MTN.

GOLD STAR 1
3242 (10)

GOLD STAR 2
3243(10)

NORTH 2

NORTH 1

Bonanza Hills

COUGAR 1
2967(8)

BONANZA
2936(7)

NORTH
1947(5)

SKI 2
2980(8)

AIR 2
2982(8)

ANTON 4
937(9)

Area of Work

ANTON
935(9)

ANTON 2
935 (9)

ANTON 1
934 (9)

Shannon

Anton Property

MOLY 1
41(7)

MOLY 4
225(9)

ANTON 6
939(9)

ANTON 5
938 (10)

MALY 5
702(6)

MALY 5
702(6)

ANTON 3
936(9)

BOBBIE 1
2032 (7)

WESTEND
3076

VICTOR 1
2075(8)

JB 4
3039(9)

JB 11
3204(10)

Scale 1:50,000 Échelle

Miles 1 0 1 2 3 Milles

Metres 1000 0 1000 2000 3000 4000 Mètres

Yards 1000 0 1000 2000 3000 4000 Verges

JB 5
3040 (9)

JB 9
3202(10)

JB 12
3205 (10)

JB 8
3201(10.

PAT
2858(4)

MIKE
2859(4)

GOOSE
2869(5)

AU1 2983(8) AU3 2985(8) AU5 2987(8) AU7 2989(8) AU9 2991(8) AU11 2993(8) AU13 2995(8) AU15 2997(8)

AU2 2984(8) AU4 2986(8) AU6 2988(8) AU8 2990(8) AU10 2992(8) AU12 2994(8) AU14 2996(8) AU16 2998(8)

RUZA 3316(10)

SNOW-SLIDE 3
3036 (8)

SNOWSLIDE 2
2972 (8)

Anton Silver

Rim Rock (A_1, A_2)

P. J. (PEC) SANTOS, P.Eng.
Consulting Geologist

ANTON SILVER PROPERTY
Claim Map

1:50,000

Figure 3

Claim Name	No. of Units	Record No.	Recording Date	Date Due
Anton 1	9	934	Sept. 29, 1978	Sept. 29, 1985
Anton 2	10	935	Sept. 29, 1978	Sept. 29, 1985
Anton 3	8	936	Sept. 29, 1978	Sept. 29, 1988
Anton 4	8	937	Sept. 29, 1978	Sept. 29, 1989
Anton 5	16	938	Sept. 29, 1978	Sept. 29, 1987
Anton 6	20	939	Sept. 29, 1978	Sept. 29, 1989
Moly 1	2	41	July 4, 1975	July 4, 1991
Moly 4	2	225	Sept. 22, 1976	Sept. 22, 1990
Moly 6	1	2029	July 7, 1980	July 7, 1991
Moly 7	1	2030	July 7, 1980	July 7, 1991
Moly 8	1	2031	July 7, 1980	July 7, 1991
Maly 5	9	702	June 27, 1978	June 27, 1991
North	6	1947	May 27, 1980	May 27, 1986
North 1	14	3605	May 4, 1983	May 4, 1984 *
North 2	14	3606	May 4, 1983	May 4, 1984 *
Bobbie 1	12	2032	July 8, 1980	July 8, 1986

* Expiry date before present work has been applied.

The above information has been verified in the Mining Recorder's Office and has been checked against the most recent Assessment Work Sheets issued by the Ministry of Mines.

HISTORY

The Anton Property was first staked as a molybdenum prospect in the mid-to-late 1970's by Alex Strebchuk and Cominco Ltd. Cominco carried out a series of traverses across the property in order to collect soil and rock samples for geochemical analysis. This programme met with only limited success and the property was dropped by Cominco.

Cyprus Anvil Mining Corporation then optioned the property and, in 1980, carried out a programme of line-cutting, geochemical soil sampling and geologic mapping. This work resulted in the discovery of a number of areas with anomalously high amounts of copper, molybdenum, zinc and silver in the soil. Four holes were drilled the following year to test some of these anomalies for molybdenum occurrences. Due to the corporate reorganization of Cyprus Anvil, the project was terminated and the property option dropped.

Most recently, the claims were optioned to Shannon Creek Resources Corp.

REGIONAL GEOLOGY

The Anton claims lie in a belt of Mesozoic to Upper Paleozoic eugeosynclinal rocks bounded on the east by the Kootenay Arc and on the west by the Monashee Complex (Hyndman, 1968) (Figure 4). The entire assemblage, exclusive of the Monashee Complex, comprises the Selkirk Allocthon. The Selkirk Allocthon is a tectonic package of rocks which has been overthrust from the west onto the Monashee mantling gneisses (Read and Brown, 1981; Brown and Murphy, 1982).

All the rocks described above have been intruded by a succession of alkalic to calc-alkalic batholiths ranging in age from Middle Jurassic to Tertiary (Read and Brown, 1981; Hyndman, 1968; Little, 1960).

Sedimentary and volcanic rocks in the area consist of augite basalts, andesites and greenstones of the Rossland Group; meta-sediments of the Milford Series; and Slocan Group andesite and dacite tuffs and flows, argillites, shales, phyllites and slates (Hyndman, 1968; Little, 1960). The intrusive units consist of stocks and plugs of quartz monzonite and granodiorite, as well as subsidiary lamprophyre, aplite and pegmatite dikes and sills (Hyndman, 1968; Pigage, 1980).

LEGEND

QUATERNARY

23	Unconsolidated sediments

CRETACEOUS and/or JURASSIC

19	Goat Canyon – Halifax Creek Stock
18	Snowslide and Wragge Creek Stocks
17	Ruby Range Stock
16 A | 16 B	A. Mountain Meadow Pluton
15	Kuskanax Batholith
14 A	South Wragge Creek Stock
12	Rossland Group – greenstone

L. JURASSIC and TRIASSIC

11	Andesite to dacite tuffs and flows
10 A | 10 B	Pelitic to silty phyllites slates

TRIASSIC and EARLIER

9	Amphibole – metavolcanic rocks
7	Undivided metamorphic rocks

SHANNON CREEK PROPERTY
(Shannon Creek Resources Corp.)

MILLIE MACK (David Minerals Ltd.)

TILLICUM (La Teko / Esperanza)

RUBY RANGE

Token from Hyndman, D. W., (1969), G.S.C. Bulletin 161

P. J. (PEC) SANTOS, P.Eng.
Consulting Geologist

GEOLOGIC MAP
SHANNON CREEK AREA

SCALE: 1:63,360
1" = 1 MILE

Figure 4

Emplacement of plutons has resulted in extensive deformation and metamorphism of the non-intrusive rocks (Pigage, 1980).

PROPERTY GEOLOGY (Please see Figure 10)

The survey area is underlain by carbonaceous graphitic shales, slates and phyllites of the Slocan Series. These rocks are typically black or dark grey, fine-grained and extensively sheared and shattered. The general strike of the bedding is 130° with moderate northeasterly dips.

In the trenches, there is a band of rusty weathering light grey altered limestone. This unit has been fractured and intruded by narrow quartz-pyrite veinlets and it is here that values of gold and silver have been obtained. Samples of the limestone and quartz have yielded assays between 7.38 and 0.19 ounces silver and 0.005 and 0.001 ounces gold per ton.

The limestone is very massive with no trace of bedding although the alteration does appear to follow bedding planes. Narrow zones of unaltered material are common near the periphery of the limestone. Sericite is a common alteration mineral as is fine-grained disseminated pyrite. The limestone has the appearance of a fine-grained felsic dike, but is calcareous, and is, therefore, not an intrusive.

Quartz veins occur along joints, shear zones and bedding planes in both the shale and limestone but are especially prevalent in the limestone. They are small, never more than 40 cm. thick, and form irregular pods up to 1 or 2 metres in length. Shearing of some, but not all, of the veins indicates that shearing both pre- and post-dates the introduction of the quartz.

Sulphide minerals in these veins are medium- to coarse-grained pyrite with minor fine-grained chalcopyrite and rare occurences of galena and sphalerite. Coarse-grained pyrite cubes occur throughout the shales and phyllites.

The quartz veins occur both parallel and at angles to the bedding of the sediments. Some of the veins which do not parallel the bedding appear to have formed along conjugate joint sets. Preliminary stereo-net studies conducted by the writer indicate that these joints formed while the country-rock was in compression with the direction of principle stress perpendicular to bedding. Compression caused by the accumulation of over-lying sediments could result in the development of the stress field necessary to cause this type of fracturing. Subsequent intrusion of the Wragge Creek Stock would result in the deposition of silica and sulphides along zones of weakness such as bedding planes, shear zones and the aforementioned joints.

GEOCHEMISTRY

Cyprus Anvil Mining Corporation conducted an extensive geochemical sampling programme over the Anton Property in the summer of 1980. A total of 1780 soil samples were collected and analyzed for molybdenum, copper, lead, and silver. This sampling outlined many areas with high concentrations of metals in the soil.

One of these areas is located near the northern boundary of the Anton 2 claim (see Figures 2 and 3). High values were obtained for silver, copper and molybdenum and trenching has uncovered the showing described in an earlier section of this report.

In order to more fully define the extent of the anomaly, a total of 168 detail soil samples were taken. This work was conducted by Shannon Creek Resources Corp. personnel between October 27 and October 29, 1983. The samples were taken at 25-metre intervals along eight irregularly spaced lines (Figures 5, 6, 7, 8 and 9). Where possible, the B-horizon of the soil was sampled, usually at depths ranging from 10 to 25 cm. These samples were then sent to Acme Analytical Laboratories, in Vancouver, where they were analysed via the atomic absorption method for gold, silver, lead, zinc and copper (see Appendix I).

The assay results were then collated by computer and means, standard deviations and histograms generated for each element except gold (see Appendix II). Probability plots were made for copper, silver, lead and zinc, also. Gold was not included in the statistical analyses because the values obtained for this element were uniformly low.

The data for the three base metals appear to have slightly skewed log-normal distributions. There is little evidence to suggest that anomalously high values exist within the sample data and it is not possible to select threshold values for any of these elements.

The silver data display a much more skewed histogram than the base metals and there is some evidence of a bimodal distribution. The anomalous population, if it exists at all, is small, however, and extra caution must be used in interpretation of the data. A value of 1.2 ppm silver has been chosen by the writer to represent the threshold between anomalous and background metal concentrations.

The geochemical results obtained in this survey confirm the existence of the anomaly. On Figure 8, the outline of Cyprus Anvil's silver geochemical anomaly is shown and can be compared to this year's data.

NORTH 1
3605 (5)

NORTH
1947 (5)

ANTON 2
935 (9)

LEGEND

SOIL SAMPLE (All results in ppm except gold which is in ppb)

1990 SOIL SAMPLES

CLAIM LINE

ROAD

12+50E
13+00E
14+00E
14+50E
17+50E
18+00E
19+50E
20+50E

19+00N
18+00N
17+00N
16+00N
15+00N
20+00N

950
750

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,646

To accompany assessment report entitled, "Geological and Geochemical Work on the Anton Property" by D. W. Rennie, P.Eng.

ANGINEL RESOURCES LTD.

SHANNON CREEK RESOURCES CORP.

GEOCHEMICAL RESULTS FOR COPPER

SCALE: 1:5000

DRAWN BY: DWR

FIGURE 5

NORTH 1
9605(5)

NORTH
1947(5)

ANTON 2
935(9)

LEGEND

SOIL SAMPLE (all results in ppm except gold which is in ppb)

1980 SOIL SAMPLES

CLAIM LINE

ROAD

12+50E
13+00E
14+00E
14+50E
17+50E
18+00E
19+50E
20+50E

19+00N
18+00N
17+00N
16+00N
15+00N
20+00N

086
056
001
050
006

750

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,646

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SHANNON CREEK RESOURCES CORP.

GEOCHEMICAL RESULTS FOR LEAD

SCALE: 1:5000

DRAWN BY: DWR

FIGURE 6

NORTH 1
3605(5)

NORTH
1947(5)

ANTON 2
935(9)

LEGEND

- SOIL SAMPLE (soil results in ppm except gold which is in ppb)
- 1980 SOIL SAMPLES
- CLAIM LINE
- ROAD

12+50E
13+00E
14+00E
14+50E
17+50E
18+00E
19+50E
20+50E

19+00N
17+00N
15+00N
20+00N
18+00N
16+00N

271 267 297 94 134 246 286 139 158 184 231 236 168 219 169 110 138 219 170 200 286
277 260 121 138 214 203 162 133 155 204 195 177 325 155 147 258 247 290 141 148 128
58 160 147 107 67 32 22 92 143 67 121 109 160 204 296 232 254 130 79 170 189
173 77 115 121 99 292 139 188 47 165 71 187 154 91 158 114 82 85 176 154 143
184 190 151 197 152 137 182 146 191 190 107 212 227 159 259 173 199 181 158 138 225
143 110 136 95 75 175 210 145 186 191 196 184 205 208 230 208 162 190 92 149 203
140 210 161 86 242 185 149 137 122 183 241 205 191 189 258 258 211 195 191 192 178
224 207 313 181 120 189 110 191 193 172 104 254 210 163 260 109 141 191 170 113 150

750

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ASSESSMENT REPORT

11,646

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SHANNON CREEK RESOURCES CORP.

GEOCHEMICAL RESULTS FOR ZINC

SCALE: 1:5000
DRAWN BY: DWR

FIGURE 7

NORTH 1
3605(5)

NORTH
1947(5)

ANTON 2
935(9)

LEGEND

SOIL SAMPLE (all results in ppm except gold which is in ppb)

1980 SOIL SAMPLES

CLAIM LINE

ROAD

12+50E
13+00EA
14+00EA
14+50E
17+50E
18+00EA
19+50E
20+50E

19+00N
18+00N
17+00N
16+00N
15+00N
20+00N

Area enlarged in Figure 10

Greater than 1.2 ppm silver in soils

950
750

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,676

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GEOCHEMICAL RESULTS FOR SILVER

SCALE: 1:5000
DRAWN BY: DWR

FIGURE 8

To accompany assessment report entitled, "Geological and Geochemical Work on the Anton Property" by D. W. Rennie, P.Eng.

NORTH 1
3605(5)

NORTH
1947(5)

ANTON 2
935(9)

LEGEND

SOIL SAMPLE (All results in ppm except gold which is in ppb)

1980 SOIL SAMPLES

CLAIM LINE

ROAD

12+50E
13+00E A
14+00E A
14+50E
17+50E
18+00E A
19+50E
20+50E

19+00N
17+00N
15+00N
18+00N
20+00N
16+00N

001
001
001
006
006
055
055

750

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,646

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GEOCHEMICAL RESULTS FOR GOLD

SCALE: 1:5000

DRAWN BY: DWR

FIGURE 9

Extensions to known anomalies are not evident in the detail sampling. The "main" anomaly, which has been trenched, was detected on line 17+50E and appears to stop there. Along strike, to the southeast, on line 19+50E, an anomaly is evident and may represent the same zone.

Line 13+00EA traverses one of Cyprus Anvil's anomalies but the zone was not detected. The reason for this apparent discrepancy is not known.

CONCLUSIONS

1.) The geochemical anomaly discovered by Cyprus Anvil Mining Corporation on the north side of the Anton 2 claim has been confirmed by detail geochemical soil sampling. However, no extensions to known anomalies are evident.

2.) The anomaly is due to sulphide mineralization which occurs in stockworks of quartz veins in and around an altered limestone bed. The sulphide minerals consist of medium- to coarse-grained pyrite with minor fine-grained chalcopyrite and rare occurrences of galena and sphalerite.

STATEMENT OF COSTS

Dates of Work:

D. Rennie	-	October 27 - 28, 1983 November 23 - 24, 1983 December 7, 13, 1983
T. Strebchuck	-	October 27 - 29, 1983
S. Strebchuck	-	October 27 - 29, 1983

Wages:

Geologist	6 days @ $210/day	$1260.00	
Samplers	6 man days @ $100/day	600.00	
		$1860.00	$1860.00

Accommodation (Geologist):

2 days @ $44.91/day		89.82

Vehicles (two 4x4 pick-ups):

2 days @ $55	$110.00	
4 days @ $35	140.00	
	$250.00	250.00

Analyses:

168 samples @ $7.90/sample	$1327.20	
freight	25.50	
	$1352.70	1352.70

Miscellaneous:

Equipment & Supplies	$120.00	
Typing & Photocopies	130.00	
	$250.00	250.00
TOTAL		$3802.52

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4.) DUNCAN, I. J. and PARRISH, R. R., 1979, "Geochronology and Sr Isotope Geochemistry of the Nelson Batholith: a Post-Tectonic Intrusive Complex in Southeast British Columbia", Geological Society of America Abstracts With Program, Cordilleran Section annual meeting, p. 76.

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17.) SANTOS, P. J., 1981, "Report on the Shale-Hosted Mineralization in the Summit Lake Area, Slocan Mining Division, B. C.", unpublished report to Cominco Ltd.

18.) SANTOS, P. J. and RENNIE, D. W., 1983, "Report on the Anton Silver Project", unpublished report to Shannon Creek Resources Corp.

19.) SIMPSON, J. G., 1980, "Geochemical Soil Sampling on the Anton 1, 2, 3, 4, 5, 6, Moly 1, 4, 6, 7, 8, Maly 5, North 1, Bobbie 1 and Victor 1 Claims", unpublished report to Cyprus Anvil Mining Corporation, 15 pp.

STATEMENT OF QUALIFICATIONS

I, David W. Rennie, hereby certify:

1.) That I am a geological engineer residing at 313-505 Second Street, Nelson, B. C.

2.) That I am a registered Professional Engineer in the Province of British Columbia (1982).

3.) That I am a graduate of the University of British Columbia and hold a Bachelor of Applied Science degree in Geological Engineering (1979).

4.) That I have practiced my profession continuously since graduation.

5.) That I do not own, nor do I expect to receive, any interest, direct or indirect, in the Anton Property or in Shannon Creek Resources Corp.

6.) That I, personally, carried out this work at the request of the directors of Shannon Creek Resources Corp.

D. W. Rennie, P. Eng.

APPENDIX I

SOIL GEOCHEMICAL DATA

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH:253-3158 TELEX:04-53124

DATE RECEIVED NOV 8 1983

DATE REPORTS MAILED Nov 14/83

AA GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B.
AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.
SAMPLE TYPE - SOIL

ASSAYER _____ DEAN TOYE, CERTIFIED B.C. ASSAYER

P.J. SANTOS FILE # 83-2878 PROJECT # SHANNON

SAMPLE	CU ppm	PB ppm	ZN ppm	AG ppm	Au* ppb
19+25N 12+50E	41	20	271	.3	5
19N 12+50E	20	20	267	.6	5
18+75N 12+50E	41	22	297	.5	5
18+50N 12+50E	100	33	94	1.3	5
18+25N 12+50E	45	22	134	.9	5
18N 12+50E	29	22	246	.3	5
17+75N 12+50E	19	21	286	.2	5
17+50N 12+50E	14	14	139	.2	5
17+25N 12+50E	16	13	158	.6	5
17N 12+50E	34	14	184	.4	5
16+75N 12+50E	30	19	231	.6	5
16+50N 12+50E	13	16	236	.6	5
16+25N 12+50E	12	18	168	.5	5
16N 12+50E	18	14	219	.8	10
15+75N 12+50E	22	20	169	.5	5
15+50N 12+50E	31	18	110	.2	5
15+25N 12+50E	20	20	138	.6	5
15N 12+50E	41	40	219	.6	5
14+75N 12+50E	17	20	170	.4	5
14+50N 12+50E	65	26	200	.5	5
14+25N 12+50E	30	33	286	.8	5
19+25N 13EA	17	15	277	.9	5
19N 13EA	26	17	260	.7	5
18+75N 13EA	26	43	121	.8	5
18+50N 13EA	46	41	138	.6	5
18+25N 13EA	25	27	214	.4	5
18N 13EA	9	32	203	.2	5
17+75N 13EA	9	17	162	.5	5
17+50N 13EA	20	32	153	.2	5
17+25N 13EA	32	27	155	.3	5
17N 13EA	21	32	204	.6	5
16+75N 13EA	12	22	195	.5	5
16+50N 13EA	47	18	177	.9	5
16+25N 13EA	24	21	325	.7	5
16N 13EA	26	12	155	.2	5
15+75N 13EA	22	15	147	.3	20
15+50N 13EA	23	19	258	.6	5
STD A-1/AU 0.5	30	40	182	.3	510

SAMPLE	CU ppm	PB ppm	ZN ppm	AG ppm	Au* ppb
15+25N 13EA	125	32	247	2.0	5
15N 13EA	31	21	290	.4	5
14+75N 13EA	37	18	141	.5	5
14+50N 13EA	75	16	148	.3	5
14+25N 13EA	54	16	128	.2	5
19+25N 14EA	21	6	58	.2	5
19N 14EA	29	20	160	.9	5
18+75N 14EA	19	25	147	.4	5
18+50N 14EA	37	17	107	.6	5
18+25N 14EA	15	24	67	.4	5
18N 14EA	13	31	32	.6	5
17+75N 14EA	25	14	22	.6	5
17+50N 14EA	29	21	92	.2	5
17+25N 14EA	56	20	145	.7	5
17N 14EA	79	26	67	2.1	5
16+75N 14EA	42	16	121	1.0	20
16+50N 14EA	54	28	109	.4	5
16+25N 14EA	29	15	160	.6	5
16N 14EA	35	15	204	.1	5
15+75N 14EA	26	16	296	.9	5
15+50N 14EA	24	26	232	.5	5
15+25N 14EA	24	18	254	.6	5
15N 14EA	22	24	130	.3	5
14+75N 14EA	12	12	79	.3	5
14+50N 14EA	20	16	170	.5	5
14+25N 14EA	16	20	189	.5	5
19+25N 14+50E	13	17	173	1.8	5
19N 14+50E	12	12	77	.5	5
18+75N 14+50E	26	16	115	.5	5
18+50N 14+50E	18	17	121	.4	5
18+25N 14+50E	12	20	99	.5	5
18N 14+50E	11	12	292	.5	5
17+75N 14+50E	10	20	139	.8	5
17+50N 14+50E	16	27	188	.6	5
17+25N 14+50E	6	22	47	.2	5
17N 14+50E	23	17	165	.6	5
16+75N 14+50E	33	147	71	.2	5
STD A-1/AU 0.5	29	39	180	.3	490

SAMPLE	CU ppm	PB ppm	ZN ppm	AG ppm	Au* ppb
16+50N 14+50E	25	13	187	.4	5
16+25N 14+50E	22	17	154	.8	5
16N 14+50E	10	13	91	.3	10
15+75N 14+50E	24	32	158	.6	5
15+50N 14+50E	68	12	114	.3	5
15+25N 14+50E	23	10	82	.3	5
15N 14+50E	28	14	95	.1	5
14+75N 14+50E	17	15	176	1.0	5
14+50N 14+50E	32	11	154	.4	5
14+25N 14+50E	33	11	143	.5	5
20N XL17+50E	17	10	184	.1	5
19+75N XL17+50E	16	9	190	.5	5
19+50N XL17+50E	22	7	151	.1	5
19+25N XL17+50E	15	10	197	.7	5
19N XL17+50E	14	8	152	.5	5
18+75N XL17+50E	8	12	137	.3	5
18+50N XL17+50E	25	9	182	1.9	5
18+25N XL17+50E	11	11	146	.3	5
18N XL17+50E	17	11	191	1.4	5
17+75N XL17+50E	12	12	190	.2	5
17+50N XL17+50E	21	11	107	.1	5
17+25N XL17+50E	10	14	212	.1	5
17N XL17+50E	16	127	221	.2	5
16+75N XL17+50E	19	19	159	.1	5
16+50N XL17+50E	20	21	259	.4	5
16+25N XL17+50E	18	14	173	.2	10
16N XL17+50E	14	22	199	.2	5
15+75N XL17+50E	36	14	181	.3	5
15+50N XL17+50E	28	10	158	.2	5
15+25N XL17+50E	44	12	138	.2	10
15N XL17+50E	31	15	225	.6	5
20N XL18EA	22	11	143	.3	10
19+75N XL18EA	24	7	110	.1	5
19+50N XL18EA	38	6	136	.1	5
19+25N XL18EA	12	9	95	.2	5
19N XL18EA	31	10	75	.1	5
18+75N XL18EA	10	14	175	.9	5
STD A-1/AU 0.5	30	39	187	.3	530

SAMPLE	CU ppm	PB ppm	ZN ppm	AG ppm	Au* ppb
18+50N XL18EA	13	15	210	.9	5
18+25N XL18EA	23	10	145	.3	5
18N XL18EA	9	14	186	1.0	5
17+75N XL18EA	11	14	191	.9	5
17+50N XL18EA	10	10	196	.3	5
17+25N XL18EA	21	16	184	.7	5
17N XL18EA	25	17	205	.4	5
16+75N XL18EA	19	21	208	.5	5
16+50N XL18EA	21	20	230	.6	10
16+25N XL18EA	46	19	208	.2	5
16N XL18EA	18	19	162	.5	5
15+75N XL18EA	14	17	190	.5	5
15+50N XL18EA	16	11	92	.3	5
15+25N XL18EA	19	12	143	.2	5
15N XL18EA	23	15	203	.2	5
20N XL19+50E	9	12	140	.5	5
19+75N XL19+50E	10	18	210	.1	5
19+50N XL19+50E	23	10	161	.2	5
19+25N XL19+50E	26	11	86	.1	5
19N XL19+50E	22	15	242	.8	5
18+75N XL19+50E	8	14	185	.6	10
18+50N XL19+50E	15	10	149	.3	5
18+25N XL19+50E	9	16	157	.5	5
18N XL19+50E	15	9	122	.1	5
17+75N XL19+50E	12	18	183	1.4	5
17+50N XL19+50E	17	16	241	.5	5
17+25N XL19+50E	13	10	205	.7	5
17N XL19+50E	22	11	131	.3	20
16+75N XL19+50E	16	17	189	.6	5
16+50N XL19+50E	21	12	258	.2	5
16+25N XL19+50E	10	22	258	.2	5
16N XL19+50E	21	16	211	.5	5
15+75N XL19+50E	63	24	195	.7	5
15+50N XL19+50E	18	21	191	.3	5
15+25N XL19+50E	18	11	142	.1	5
15N XL19+50E	18	12	178	.2	5
STD A-1/AU 0.5	30	40	181	.3	485

SAMPLE	CU ppm	PB ppm	ZN ppm	AG ppm	Au* ppb
20N XL20+50E	10	16	224	.3	5
19+75N XL20+50E	13	11	207	.1	5
19+50N XL20+50E	45	15	313	.5	5
19+25N XL20+50E	22	10	181	.3	5
19N XL20+50E	15	10	120	.1	5
18+75N XL20+50E	11	14	189	.8	5
18+50N XL20+50E	17	23	110	.1	5
18+25N XL20+50E	17	12	191	.3	5
18N XL20+50E	11	13	133	.4	5
17+75N XL20+50E	21	13	172	.4	5
17+50N XL20+50E	23	6	104	.7	5
17+25N XL20+50E	35	14	254	.7	5
17N XL20+50E	16	11	210	.1	5
16+75N XL20+50E	13	15	163	.3	5
16+50N XL20+50E	13	19	260	.3	5
16+25N XL20+50E	39	15	109	.5	5
16N XL20+50E	17	15	141	.4	5
15+75N XL20+50E	60	25	191	1.1	5
15+50N XL20+50E	25	15	170	.6	5
15+25N XL20+50E	11	23	113	.1	5
15N XL20+50E	33	15	150	.1	10
STD A-1/AU 0.5	30	38	184	.3	530

APPENDIX II

STATISTICAL ANALYSES

SHANNON CREEK Project
Mean and standard deviation for COPPER

Mean value= 24.533
Standard deviation= 16.510
Number of samples= 169

SHANNON CREEK Project
Mean and standard deviation for LEAD

Mean value= 18.361
Standard deviation= 14.680
Number of samples= 169

SHANNON CREEK Project
Mean and standard deviation for ZINC

Mean value= 169.089
Standard deviation= 59.618
Number of samples= 169

SHANNON CREEK Project
Mean and standard deviation for SILVER

Mean value= 0.484
Standard deviation= 0.353
Number of samples= 169

SHANNON CREEK Project
Mean and standard deviation for Log Cu

Mean value= 1.316
Standard deviation= 0.233
Number of samples= 169

SHANNON CREEK Project
Mean and standard deviation for Log Pb

Mean value= 1.204
Standard deviation= 0.192
Number of samples= 169

SHANNON CREEK Project
Mean and standard deviation for Log Zn

Mean value= 2.190
Standard deviation= 0.177
Number of samples= 169

SHANNON CREEK Project
Mean and standard deviation for Log Ag

Mean value= -0.415
Standard deviation= 0.312
Number of samples= 169

Histogram for log copper - SHANNON CREEK PROJECT

CELL	FREQ	
2.10- 2.00	2	**
2.00- 1.90	1	*
1.90- 1.80	4	****
1.80- 1.70	4	****
1.70- 1.60	10	**********
1.60- 1.50	13	*************
1.50- 1.40	24	************************
1.40- 1.30	34	**********************************
1.30- 1.20	29	*****************************
1.20- 1.10	17	*****************
1.10- 1.00	22	**********************
1.00- .90	7	*******
.90- .80	0	
.80- .70	1	*

Histogram for log zinc - SHANNON CREEK PROJECT

CELL	FREQ	
2.51- 2.42	11	***********
2.42- 2.32	27	***************************
2.32- 2.23	48	**
2.23- 2.13	42	**
2.13- 2.04	18	******************
2.04- 1.94	10	**********
1.94- 1.85	6	******
1.85- 1.75	3	***
1.75- 1.66	1	*
1.66- 1.56	0	
1.56- 1.47	1	*
1.47- 1.37	0	
1.37- 1.28	1	*

Histogram for log lead - SHANNON CREEK PROJECT

CELL	FREQ	
2.17- 2.08	2	**
2.08- 1.98	0	
1.98- 1.89	0	
1.89- 1.79	0	
1.79- 1.70	0	
1.70- 1.60	3	***
1.60- 1.51	7	*******
1.51- 1.41	8	********
1.41- 1.32	21	**********************
1.32- 1.22	34	**********************************
1.22- 1.13	41	***
1.13- 1.03	30	******************************
1.03- .94	16	****************
.94- .84	3	***
.84- .75	3	

Histogram for log silver - SHANNON CREEK PROJECT

CELL	FREQ	
.32- .22	4	****
.22- .12	2	**
.12- .02	2	**
.02- -.08	12	************
-.08- -.18	16	****************
-.18- -.28	22	**********************
-.28- -.38	26	**************************
-.38- -.48	15	***************
-.48- -.58	25	*************************
-.58- -.68	0	
-.68- -.78	25	*************************
-.78- -.88	0	
-.88- -.98	0	
-.98- -1.08	20	********************

HISTOGRAM FOR ELEMENT log Cu
PROJECT: Shannon Creek
OPERATOR: DWR DATE Nov 29/83

CELL		NO. OF SAMPLES	CUM. FR. %
2.10 -	2.00	2	1.18
2.00 -	1.90	1	1.78
1.90 -	1.80	4	4.14
1.80 -	1.70	4	6.51
1.70 -	1.60	10	12.43
1.60 -	1.50	13	20.12
1.50 -	1.40	24	34.32
1.40 -	1.30	34	54.44
1.30 -	1.20	29	71.60
1.20 -	1.10	17	81.66
1.10 -	1.00	22	94.67
1.00 -	0.90	7	98.82
0.90 -	0.80	0	98.82
0.80 -	0.70	1	99.41

HISTOGRAM FOR ELEMENT log Zn
PROJECT: Shannon Creek
OPERATOR: DWR DATE Nov 29/83

CELL		NO. OF SAMPLES	CUM. FR. %
2.51 -	2.42	11	6.51
2.42 -	2.32	27	22.49
2.32 -	2.23	48	50.89
2.23 -	2.13	42	75.74
2.13 -	2.04	18	86.39
2.04 -	1.94	10	92.31
1.94 -	1.85	6	95.86
1.85 -	1.75	3	97.63
1.75 -	1.66	1	98.22
1.66 -	1.56	0	98.22
1.56 -	1.47	1	98.82
1.47 -	1.37	0	98.82
1.37 -	1.28	1	99.41

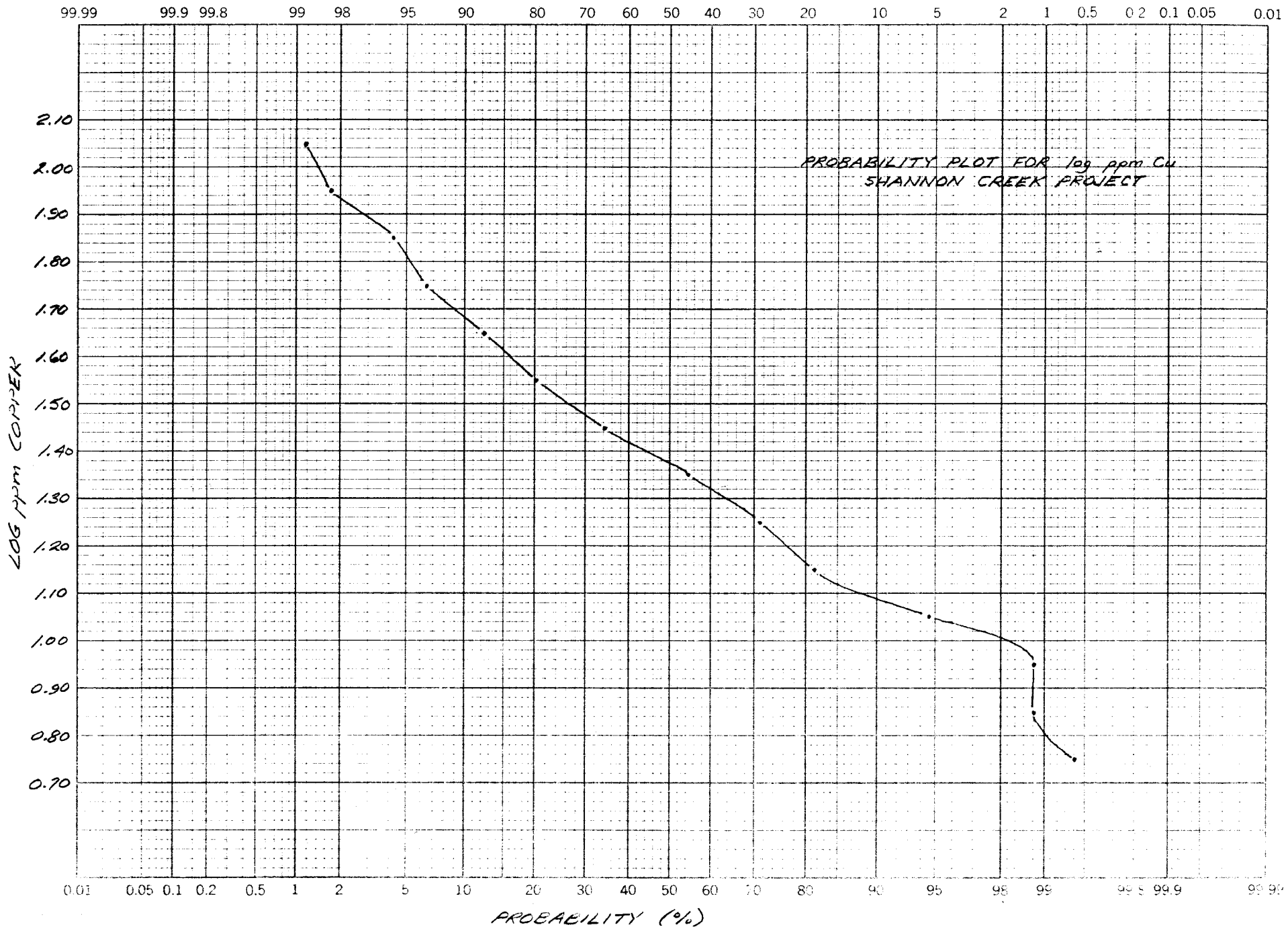
HISTOGRAM FOR ELEMENT log Pb
PROJECT: Shannon Creek
OPERATOR: DWR DATE Nov 29/83

CELL		NO. OF SAMPLES	CUM. FR. %
2.17 -	2.07	2	1.18
2.07 -	1.98	0	1.18
1.98 -	1.88	0	1.18
1.88 -	1.79	0	1.18
1.79 -	1.69	0	1.18
1.69 -	1.60	3	2.96
1.60 -	1.50	7	7.10
1.50 -	1.41	8	11.83
1.41 -	1.31	21	24.26
1.31 -	1.22	34	44.38
1.22 -	1.12	41	68.64
1.12 -	1.03	30	86.39
1.03 -	0.93	16	95.86
0.93 -	0.84	3	97.63
0.84 -	0.74	3	99.41

HISTOGRAM FOR ELEMENT log Ag
PROJECT: Shannon Creek
OPERATOR: DWR DATE Nov 29/83

CELL		NO. OF SAMPLES	CUM. FR. %
0.32 -	0.22	4	2.37
0.22 -	0.12	2	3.55
0.12 -	0.02	2	4.73
0.02 -	-0.08	12	11.83
-0.08 -	-0.18	16	21.30
-0.18 -	-0.28	22	34.32
-0.28 -	-0.38	26	49.70
-0.38 -	-0.48	15	58.58
-0.48 -	-0.58	25	73.37
-0.58 -	-0.68	0	73.37
-0.68 -	-0.78	25	88.17
-0.78 -	-0.88	0	88.17
-0.88 -	-0.98	0	88.17
-0.98 -	-1.08	20	100.00

46 8000

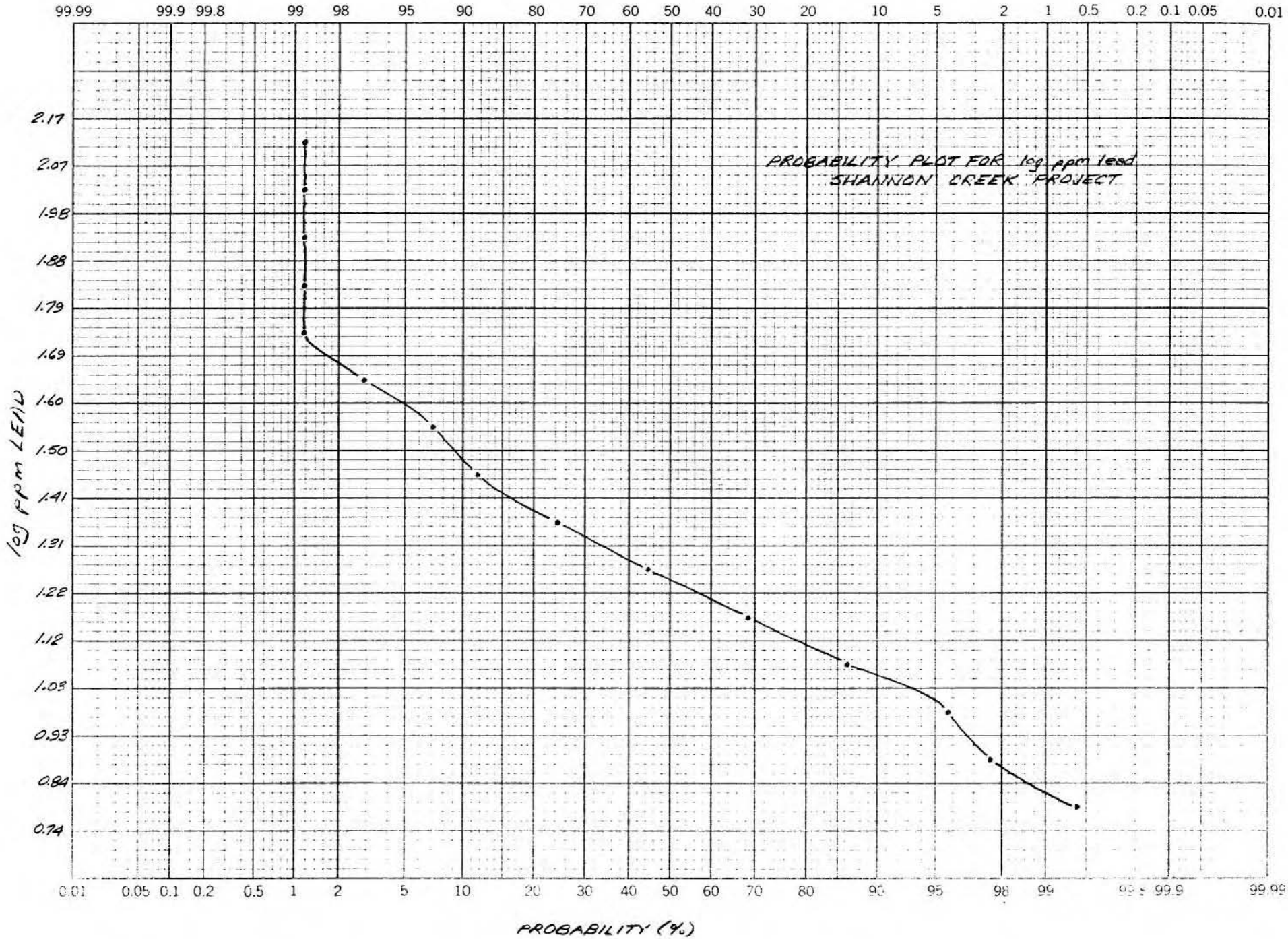


K+E PROBABILITY X 90 DIVISIONS
KEUFFEL & ESSER CO MADE IN U.S.A.

46 8000

K&E PROBABILITY X 90 DIVISIONS
KEUFFEL & ESSER CO MADE IN U.S.A.

46 8000



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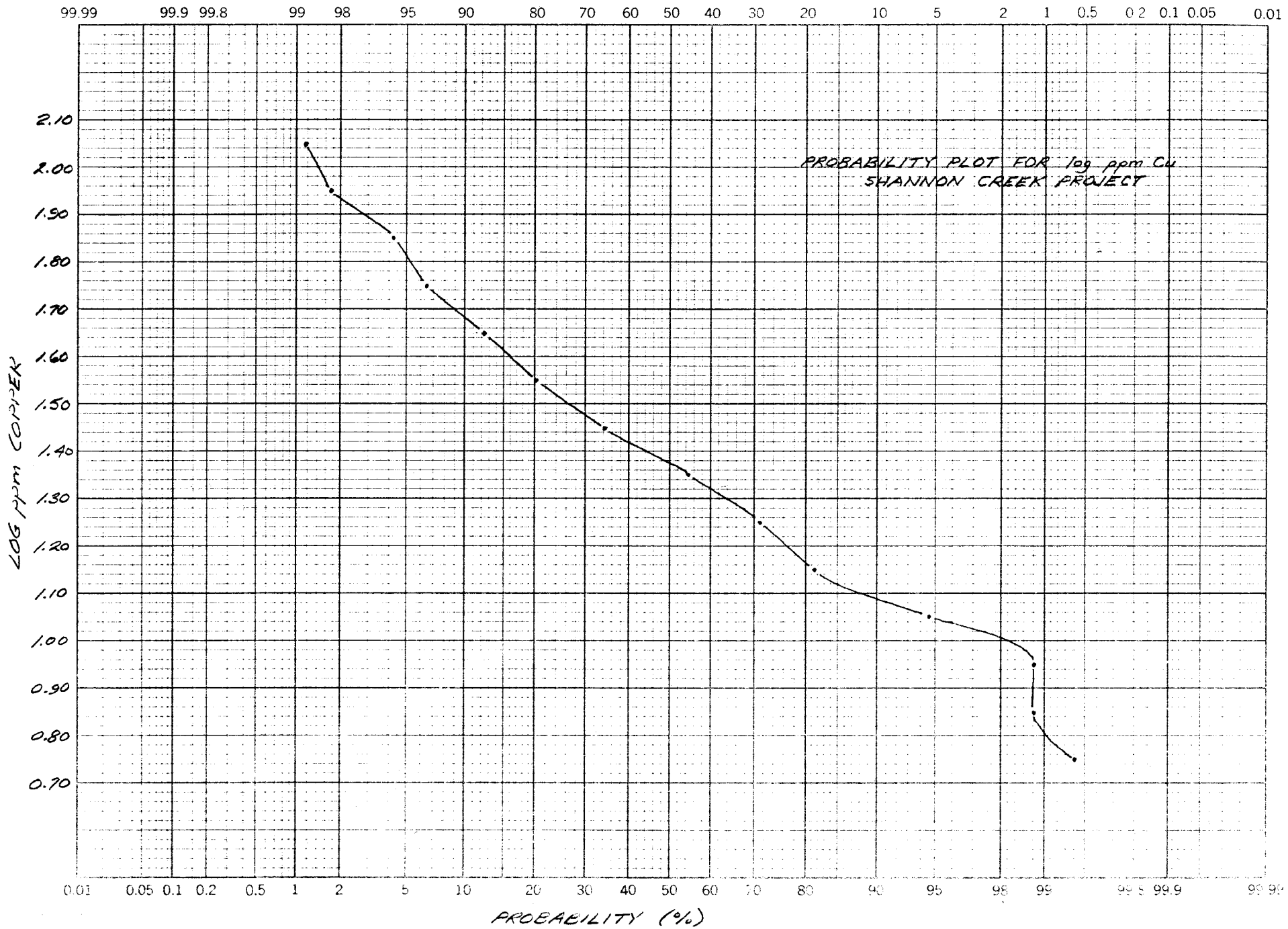

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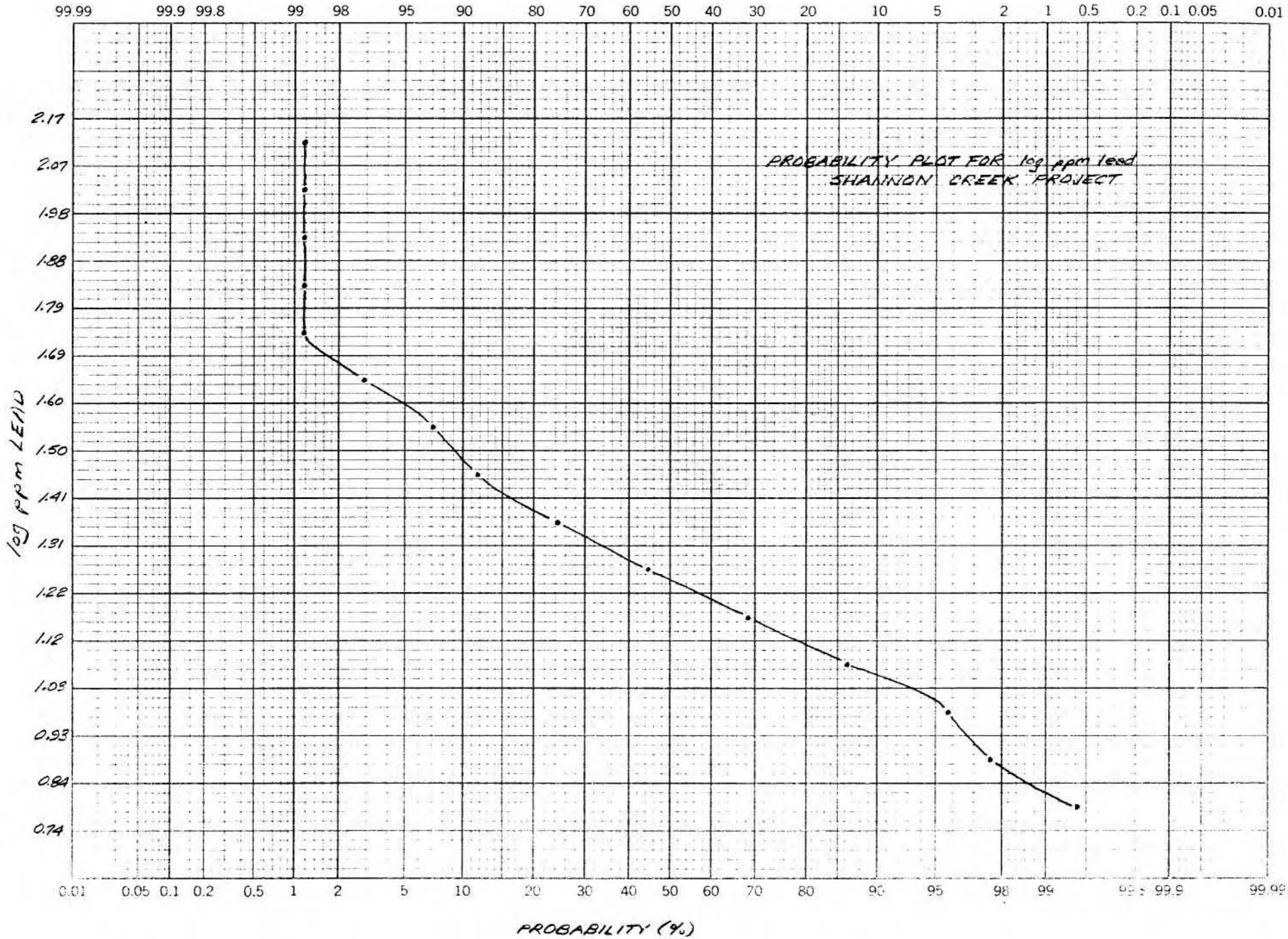

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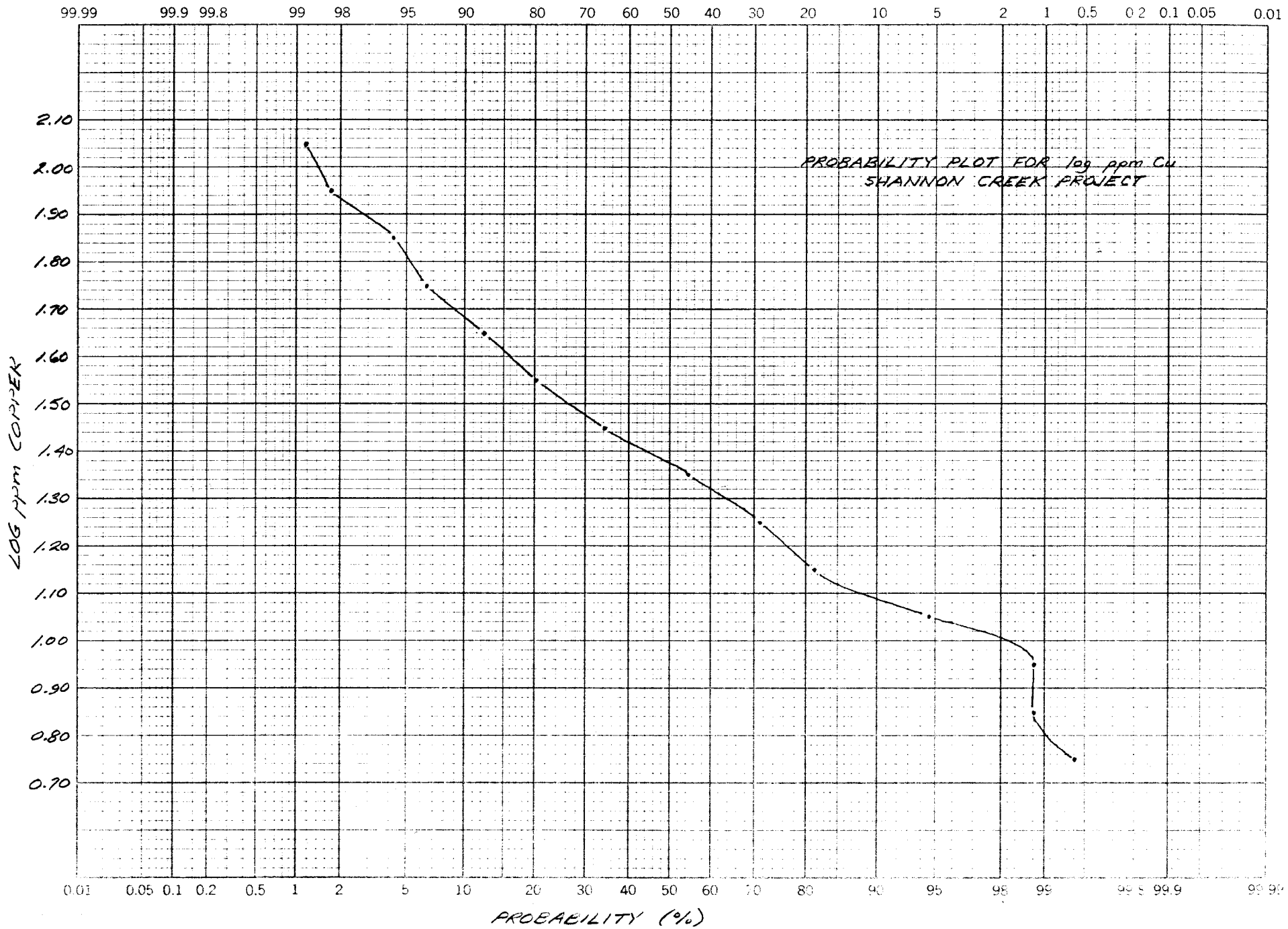

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46 8000

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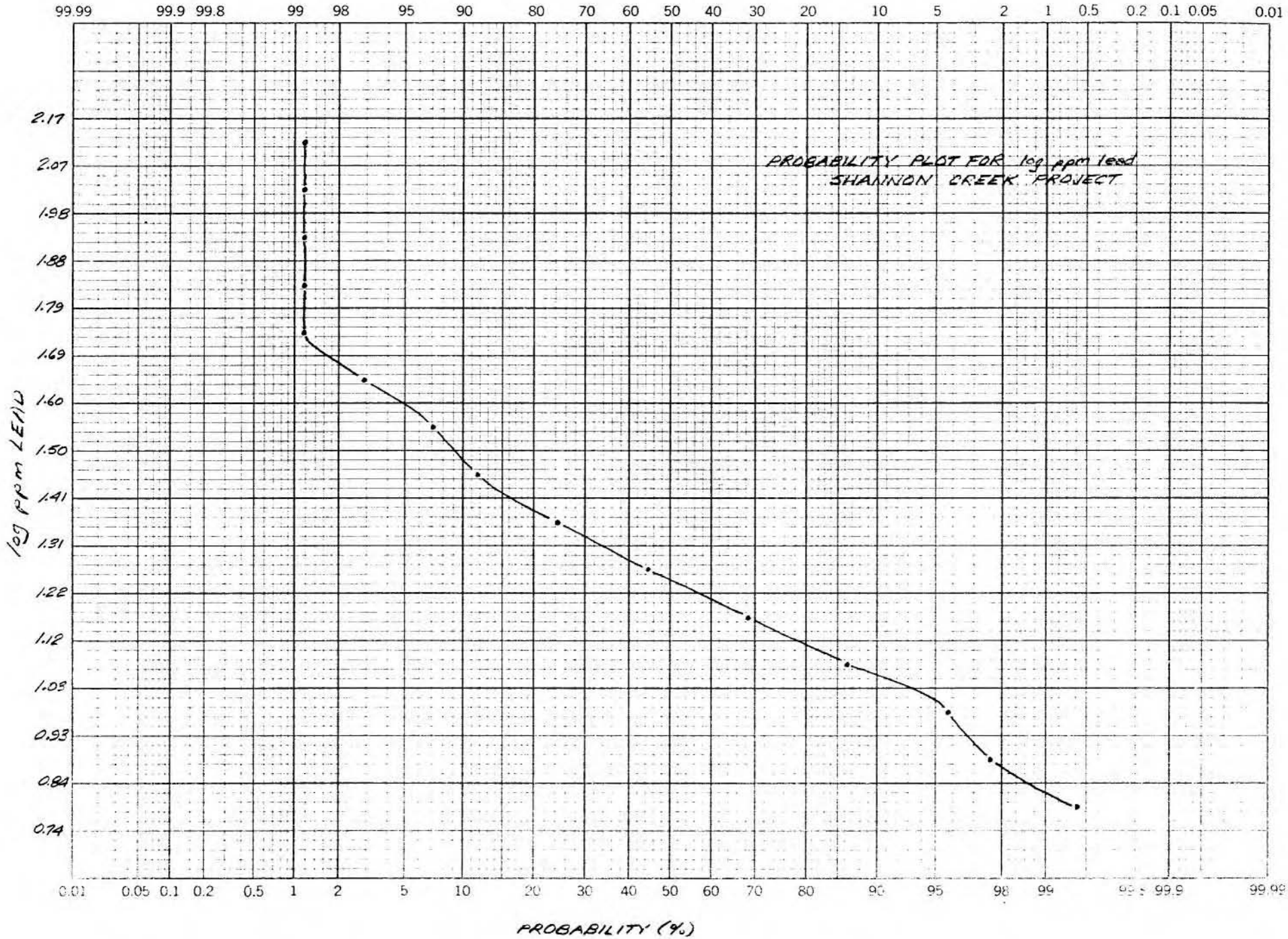

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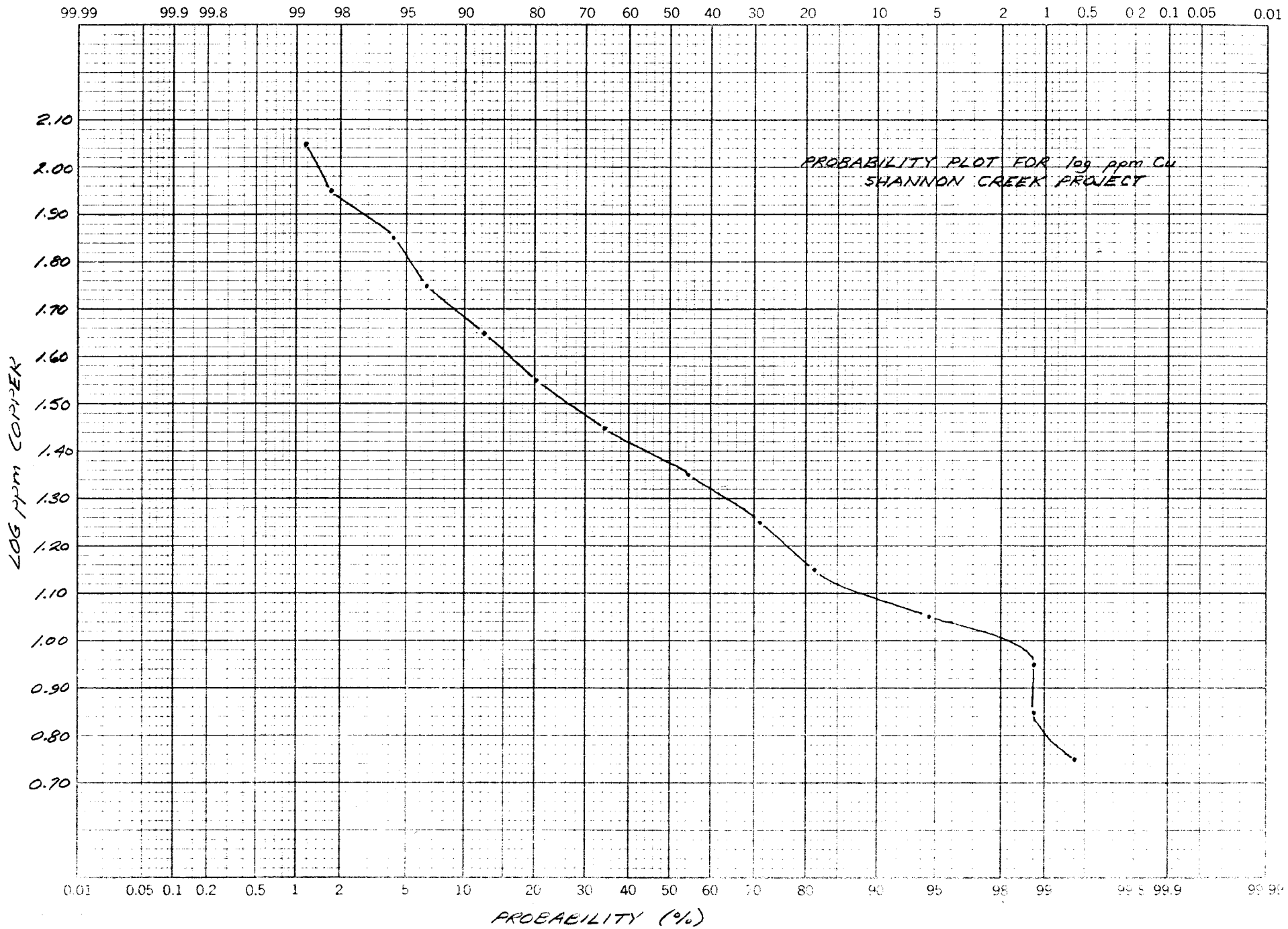

K+E PROBABILITY X 90 DIVISIONS
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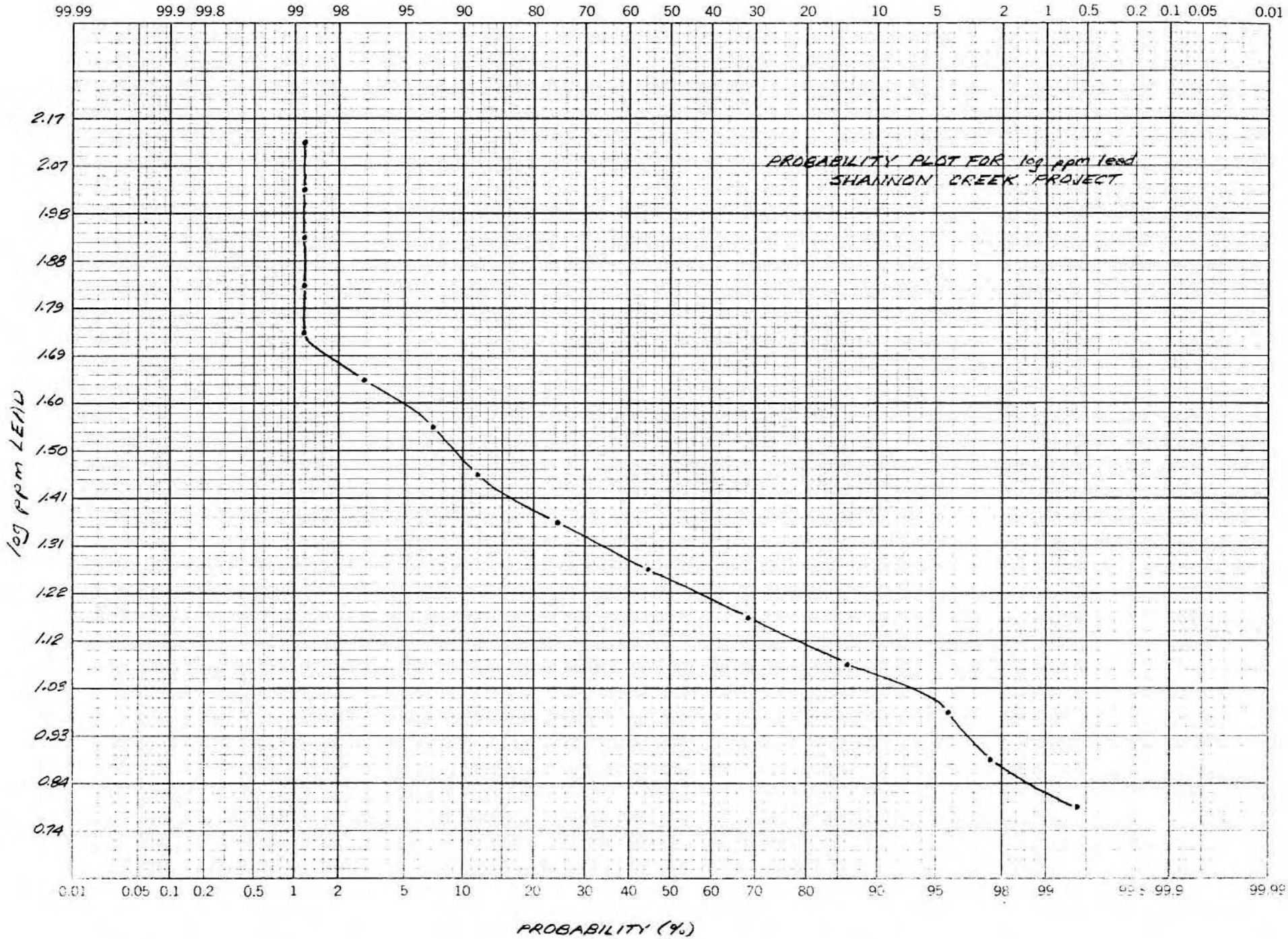
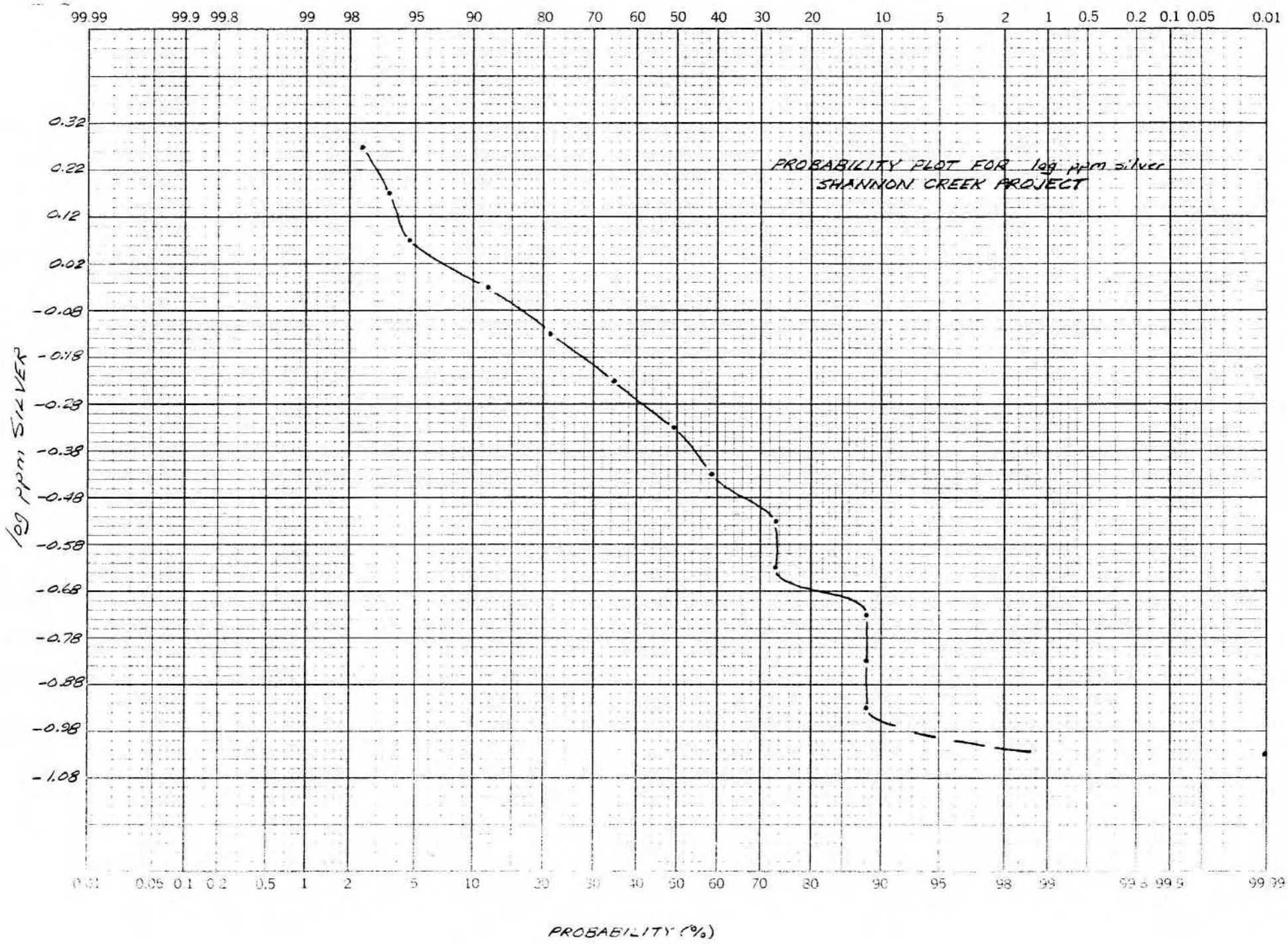
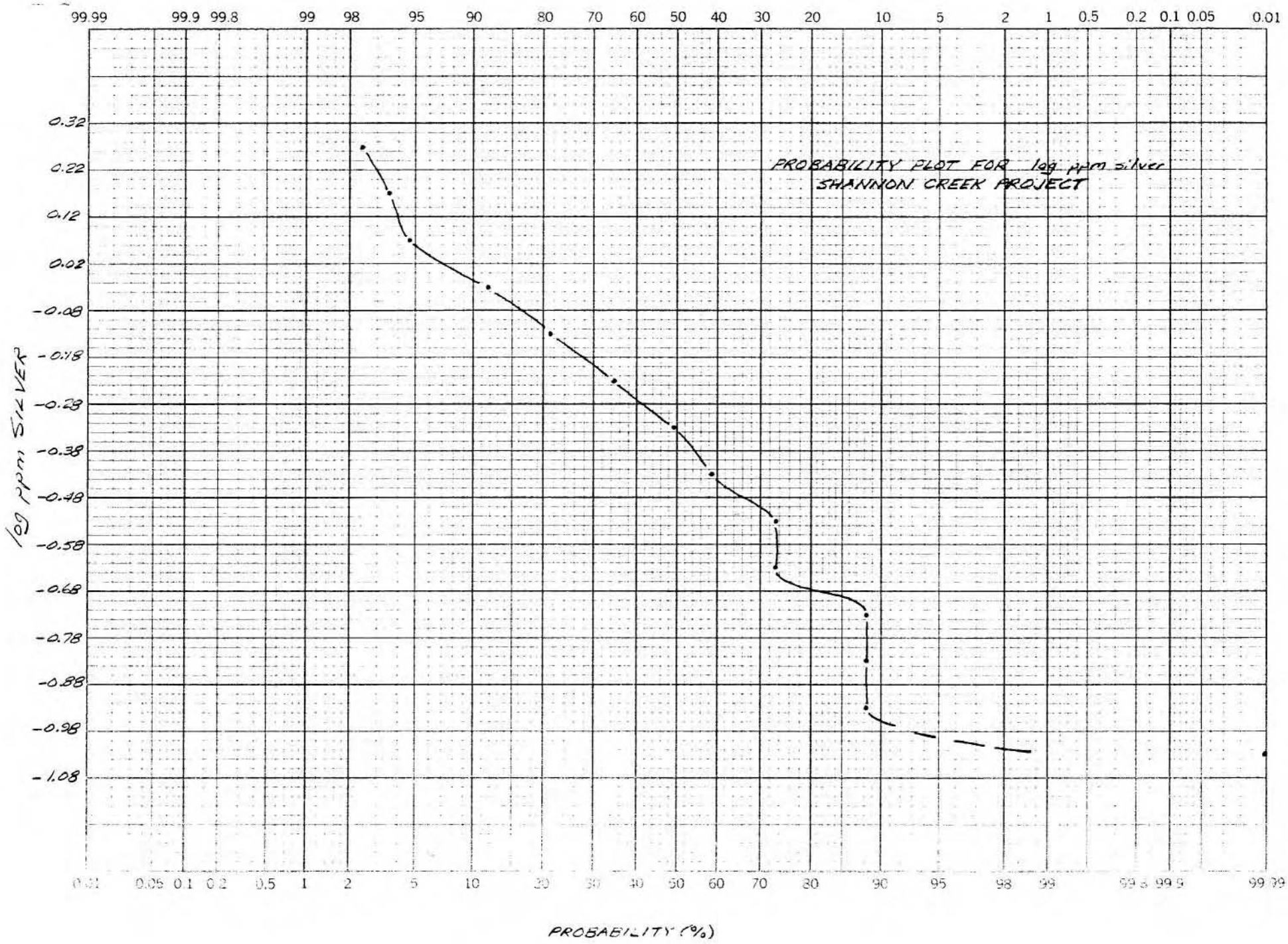



PROBABILITY PLOT FOR log ppm silver
SHANNON CREEK PROJECT
log ppm SILVER
0.32
0.22
0.12
0.02
-0.08
-0.18
-0.28
-0.38
-0.48
-0.58
-0.68
-0.78
-0.88
-0.98
-1.08
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY (%)


PROBABILITY PLOT FOR log ppm silver
SHANNON CREEK PROJECT
log ppm SILVER
0.32
0.22
0.12
0.02
-0.08
-0.18
-0.28
-0.38
-0.48
-0.58
-0.68
-0.78
-0.88
-0.98
-1.08
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY (%)

TO MAIN ROAD

Quartz vein. 1½' thick. Much slickensiding in wall rocks. Pyrite in veinlets and disseminations

Coarse-grained pyrite in quartz vein.

Black to dark grey medium- and fine-grained thin-bedded siltstone and phyllite. Contains coarse-grained pyrite cubes. Often calcareous.

Siltstone & phyllite.

Much quartz veining

APPROX BOUNDARY OF STRIPPED AREA

N

LEGEND

- STRIKE AND DIP (BEDDING, QUARTZ VEIN)
- FAULT (DIP SHOWN)
- OUTCROP
- TRENCH OUTLINE
- ALTERATION ZONE - rusty weathering, light grey calcareous alteration. Quartz, sericite and pyrite are common. Rock is massive, fine-grained and very tough.

0 5 10 15 20 25 m

ANGINEL RESOURCES LTD.	
SHANNON CREEK RESOURCES CORP.	
DATE: DEC/83	DETAIL GEOLOGY ANTON 2 CLAIM (Compass and tape traverse)
DRAWN BY: DWR	
	SCALE: 1:250 FIGURE #5

To accompany assessment report entitled "Geochemical Sampling and Geological Mapping Programmes on the Anton Property", by D. W. Ronnie, P. Eng.