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WERNECKE JOINT VENTURE

GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT

PIKE 1-51 AND 55-108 CLAIMS

(YA42090-YA42096; Y97523-Y97529; YA42097-YA42114;
YA62439-YA62485; YA62533-YA62557; YA62916)

JANUARY, 1982

Claim Sheets 106D/16 and 106E/1

Latitude 65°00'N; Longitude 134°26'W

D. Eaton, B.A., B.Sc.

Work done from June 1, 1981 to August 23, 1981

090969

This report has been examined by the Geological Evaluation Unit under Section 53 of Yukon Quartz Mining Act and is considered as representation work to the amount of $ 34,085

P Wilkinson

for Regional Mining Recorder and Geological Services for Commissioner of Yukon Territory.

INDIAN AND NORTHERN AFFAIRS

TRANSMITTAL FORM

Y.R. File No.

S.M.R. File No.

Date Fwd. 3 Feb 82

FROM Mining Recorder at MAYO

TO Supervising Mining Recorder at Whitehorse, Y.T.

Office of the Regional Manager
FEB 4 1982
YUKON TERR.

FOR ACTION ARE:

- ☐ NEW APPL'N for PLACER LEASE to PROSPECT: Name:
- ☐ RENEWAL APPL'N PLACER LEASE to PROSPECT: Name: Lease No.
- ☐ AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name. Lease No.
- ☐ ASSIGNMENT of PLACER LEASE No.
  From: To:
- ☐ GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT.
  Owner:
- ☐ DIAMOND DRILL LOGS
  Claims: Claim sheet no.
- ☒ QUARTZ ASSESSMENT REPORT
  Claims: ~~PIKE 1-51 & 55-108~~ 1-7, 15-51, 55-108
  Claim sheet no. 106 D-16 & 106 E-1
  Type of report: GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL REPORT
  Submitted by: D. EATON, BA. FOR ARCHER, CATHRO & ASSOC. L
  Cls. work performed on: PIKE GROUP
  $ Req. for ren. application #34,085.00

Signature

Date Rec.

REPLY ACTION:

090969

Signature

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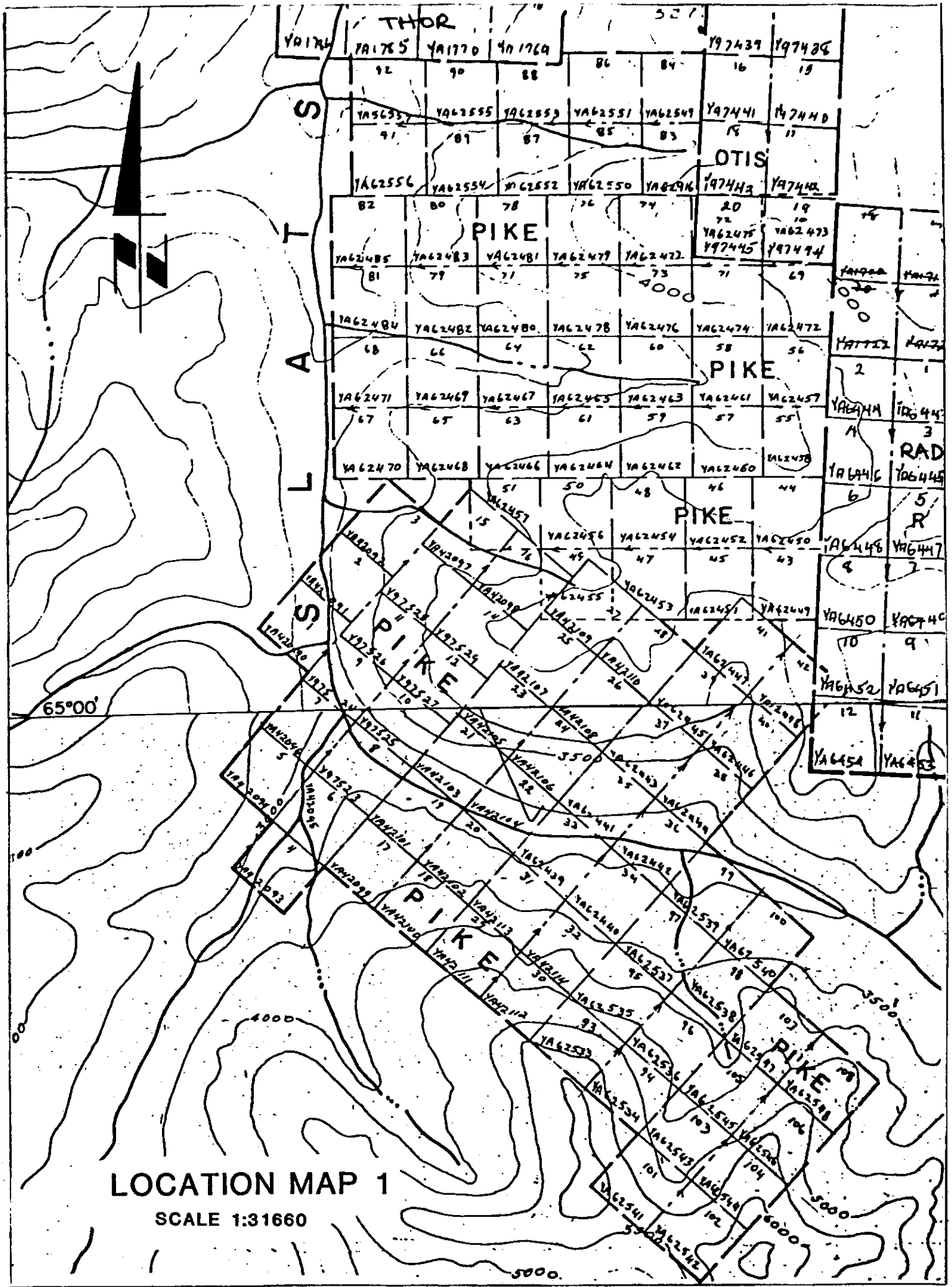
INTRODUCTION

The Pike 1-14 claims were staked by Wernecke Joint Venture (Chevron Canada Limited and Aquitaine Company of Canada Ltd.) to cover brannerite occurrences in hydrothermally-altered metasediments adjacent to a breccia body. Geochemical and radiometric surveys conducted in 1975 outlined weak to moderate uranium, copper, gold and molybdenum soil anomalies but failed to locate significant zones of mineralization. The claims were transferred to Eldorado Nuclear Ltd. in 1976 under terms of an Eldorado-WJV option agreement but were returned to WJV in 1977 without receiving work. The Pike 1-7 claims, which were peripheral to the main area of interest, were allowed to expire in 1978. In 1980, a short program of prospecting and hand trenching discovered widespread, weak to strongly anomalous gold values in the altered metasediments and resulted in expansion of the property from 7 to 32 claims.

The 1981 WJV exploration program consisted of staking an additional 73 claims (which included restaking the Pike 1-7 claims) to cover gold anomalies found during reanalysis of old sample splits; geological mapping, prospecting and extensive contour-controlled geochemical and radiometric surveys over most of the claim block; and widely-spaced, reconnaissance chip sampling and hand trenching in specific areas of interest. The work was done from the WJV base camp at Bear River between June 1 and August 23 and required 106 mandays and 32.7 hours of helicopter support. Appendix I lists personnel who performed the work, their addresses and the dates of their employment.



LOCATION MAP 1

SCALE 1:31660

PROPERTY, LOCATION AND ACCESS

The Pike property consists of 105 contiguous mineral claims recorded in the names of Archer, Cathro & Associates Limited and Archer, Cathro & Associates (1981) Limited. The claims are shown on Location Map 1 on the following page and are registered in the Mayo Mining District as follows:

Claim Name	Grant Numbers	Expiry Date
Pike 1-7	YA42090-YA42096	8 February, 1985
Pike 8-14	Y97523-Y97529	27 March, 1982
Pike 15-32	YA42097-YA42114	8 February, 1985
Pike 33-51	YA62439-YA62457	8 June, 1982
Pike 55-82	YA62458-YA62485	8 June, 1982
Pike 83	YA62916	2 July, 1982
Pike 84-92	YA62549-YA62557	22 June, 1982
Pike 93-108	YA62533-YA62548	19 June, 1982

The property is located at latitude 65°00'N and longitude 134°26'W, straddling the boundary between NTS claim sheets 106D/16 and 106E/1. The closest lake suitable for float-equipped, fixed-wing aircraft is Kiwi Lake 25 km to the northwest, while the closest bush airstrip is on the Bear River, 21 km to the southeast. Access in 1981 was by helicopter from the WJV base camp at Bear River.

GEOLOGY

The property covers a series of V-shaped valleys separated by steep ridges and drained by west-flowing tributaries of Slats Creek, a north-flowing tributary of the Bonnet Plume River. Both the tributary valleys and the main Slats Creek

valley are linear suggesting that streams may follow major faults. Elevations range from 900 m in the bottom of Slats Creek to a maximum of 1500 m along ridges. Erosion rates are rapid, thus outcrop is only abundant near ridge tops and in recent creek cuts while the hillsides are largely obscured by long, steep talus slopes. Vegetation includes buckbrush and scattered black spruce on the lower slopes with lichens and moss above 1100 m.

Figure WJV81 E1 in Pocket A illustrates property geology which consists of several fault blocks of lower Proterozoic metasediments cut by Unit Hb heterolithic breccia bodies. The metasediments belong to the Fairchild Lake, Quartet and Gillespie Lake Groups and include Unit Hcs_2 pale green phyllites which are unconformably overlain by Unit Hs black argillites and siltstones interbedded with narrow quartzite horizons, and Unit Hc orange weathering, stromatolitic dolomites.

The Unit Hs argillites exhibit extensive hydrothermal alteration ranging from 2-10 mm bleached and hematized envelopes around open or carbonate-quartz-feldspar filled fractures to 75 m wide zones of intense chloritization, hematization, carbonatization and sericitization around the larger breccia bodies. Vuggy and occasionally brecciated, milky to slightly smoky quartz veins and a few tan to red barite veins ranging up to 20 cm in width occur peripheral to breccia bodies, while massive, milky quartz veins up to 3 m in width are developed in fault zones. Although a few of these larger quartz veins can be

traced more than 500 m their attitudes are difficult to determine due to talus cover.

Breccia bodies often occur at intersections of major faults and are normally heterolithic, although homolithic breccias are developed on the margins of some heterolithic bodies. The heterolithic breccias consist of 70 to 80 per cent variously altered, subrounded to rounded fragments in a matrix made up of fine comminuted rock fragments cemented with carbonate and hematite plus minor chlorite and chalcopyrite. A 2 m wide zone of tabular heterolithic breccia exposed on a ridge top near the centre of the property contains only rounded, and often shattered fragments averaging 1 cm in diameter which suggests that they were subjected to gas streaming. Homolithic breccias are comprised of 90 to 95 per cent uniformly altered, angular fragments in a carbonate and hematite matrix, and are probably crackle breccias as they exhibit sharp contacts with the heterolithic breccias and gradational contacts with the wallrocks.

The major fault set on the property is related to the Richardson Fault Array and consists of north-trending, steeply dipping faults which are interconnected and occasionally offset by east-trending steeply dipping structures. Although the exact sense of motion on the faults is not known, many offsets are large as they juxtapose strata which are a few hundred metres apart in the stratigraphic section. In general the rocks to the north and east of the faults are older than those to the south and west. Other structures include an east striking, south-dipping normal fault of uncertain, but post-Helikian, age; poorly exposed east trending, north-dipping, low angle thrust faults probably related to the Cretaceous Laramide Orogeny; and a north-striking, west-dipping structure which offsets faults belonging to most other systems. There is abundant evidence of deformation in the metasediments including slaty cleavage in Unit Hcs2 and weak cleavage in Unit Hsa. However, the lack of outcrop and

abundance of major faults makes recognition of fold axis difficult. At least one stage of deformation must have occurred after the breccia bodies were in place as the tabular body exhibiting evidence for gas streaming has a subhorizontal orientation and has probably been rotated from vertical.

MINERALIZATION

Uranium, copper, cobalt and gold mineralization have all been observed on the property, but no specific zones approaching economic dimensions have been identified.

Brannerite crystals are widely scattered across the property, usually occurring in quartz veins or open fractures surrounded by hematized and bleached alteration halos. Where observed in outcrop the veins and fractures have north or east trends and steep dips, probably related to faults belonging to the Richardson Fault Array. Minor pitchblende, yellow uranium secondary oxides and native gold are found with some brannerite occurrences.

In 1975, a five pound sub-rounded boulder of red stained barite containing about 20 per cent brannerite, minor pitchblende and abundant disseminated gold was found in coarse talus on the lower hillside. A portion of the boulder exhibiting no visible gold and approximately 10 per cent brannerite assayed 4.66 per cent U_3O_8, 0.57 per cent ThO_2, 0.05 per cent rare earth elements and 1.5 oz/ton gold. In 1980, a 5 m wide float train containing about 0.01 per cent highly radioactive vuggy quartz vein fragments was discovered 100 m further southwest as illustrated on Figure WJV81 E1. This float can be traced over 150 m downhill and consists of up to 20 cm in diameter, angular quartz vein fragments containing coarse brannerite crystals up to 3 cm wide with minor yellow uranium oxides and often native gold. Grab samples of the mineralized

float have returned values ranging from 0.014 oz/ton gold with 0.005 per cent U308 to 347.36 oz/ton gold with 6.57 per cent U308; while intermixed similar but unmineralized quartz float returns only 10 to 40 ppb gold and traces of uranium. Many of the mineralized float fragments also contain white feldspar crystals and a purple micaceous mineral which may be lepidolite. Specific uranium minerals were not identified in eight other radioactive grab samples from various parts of the property which included chlorite breccia, hematized metasediment, and massive hematite which produced assays ranging from 0.022 per cent to 0.236 per cent U308 and 40 to 500 ppb gold.

Elsewhere on the property, anomalous gold concentrations have been obtained from non-radioactive specimens, particularly those exhibiting quartz-carbonate-albite veins with hematized, sericitized and bleached alteration halos. In 1980, grab samples of altered argillite returned values ranging from 1 ppb to 5762 ppb gold, while gold assays of grab samples of unaltered argillite did not exceed 30 ppb and averaged 15 ppb. Although intensely altered argillites containing disseminated chalcopyrite return the highest gold values their presence does not ensure high values.

Chalcopyrite, with associated malachite staining is found in many parts of the property but rarely in concentrations exceeding 0.5 per cent copper. It occurs in a number of geological environments including disseminations in breccia bodies and in narrow quartz-carbonate veins but is most abundant in fracture zones on the margins of breccia bodies and on shear zones associated with large faults.

Other minerals occurring on the property are: cobaltite and its oxide erythrite which are found in east-west trending shear zones near the south end of the claim block; specular hematite which is disseminated throughout the breccia matrix and forms massive pods, up to 3 m by 10 m, along breccia margins;

and pyrite which is commonly disseminated in weak carbonate veins and their associated alteration envelopes and locally comprises up to 10 per cent of intensely chloritized zones within the breccia bodies.

GEOCHEMISTRY AND RADIOMETRICS

General

Geochemical and radiometric surveys were conducted over 70 per cent of the property, while the remaining 30 per cent and areas peripheral to the claims were explored by reconnaissance prospecting and sampling traverses. Approximately 35 km of contour- and topofil-controlled survey lines were done at 152 m (500 ft) intervals from picketed and slope-corrected base line and tie-lines and an additional 2.5 km were done at 76 m (250 ft) intervals in areas of interest. Soil and fine talus samples were taken every 50 m along the countour lines and 100 m along reconnaissance lines, and all sample locations were marked by either a picket or flagging. Radioactivity was recorded at waist height over each sample site using a Scintrex BGS-1S scintillometer and was continuously monitored between sites so that in-between anomalous readings could also be recorded.

All samples were sent to Chemex Labs of North Vancouver, B.C., and the analytical techniques used are discussed in Appendix II. Every second sample from the contour lines and a few of the reconnaissance samples were analyzed for copper, uranium, molybdenum, silver, lead, cobalt, arsenic and bismuth in order to evaluate their potential as gold pathfinders.

Results

Figures WJV81 E1 to E9 in Pockets A to I/J illustrates gold, copper, uranium, molybdenum, silver, bismuth, arsenic, lead and cobalt results respectively, while Figure WJV81 E10 in Pocket K shows contoured radiometric readings and the location of radioactive occurrences discovered during prospecting traverses. The range, mean and standard deviation of each element is tabulated below, and Probability Plot 1 on the following page illustrates the distribution of gold values.

Metal	Maximum	Minimum	Mean	Standard Deviation
Au (ppb)	1200	<1	17.3	61.0
Ag (ppm)	1.5	0.1	0.2	0.2
U (ppm)	21	0.5	3.3	2.9
Cu (ppm)	8200	1	125.3	526.8
Mo (ppm)	28	1	1.7	2.3
Pb (ppm)	154	1	7.7	11.8
Co (ppm)	275	3	29.7	27.9
As (ppm)	345	2	11.6	20.3
Bi (ppm)	4.0	0.1	0.4	0.5

Table 3a: Range, Mean, and Standard Deviation for Pike property soil samples

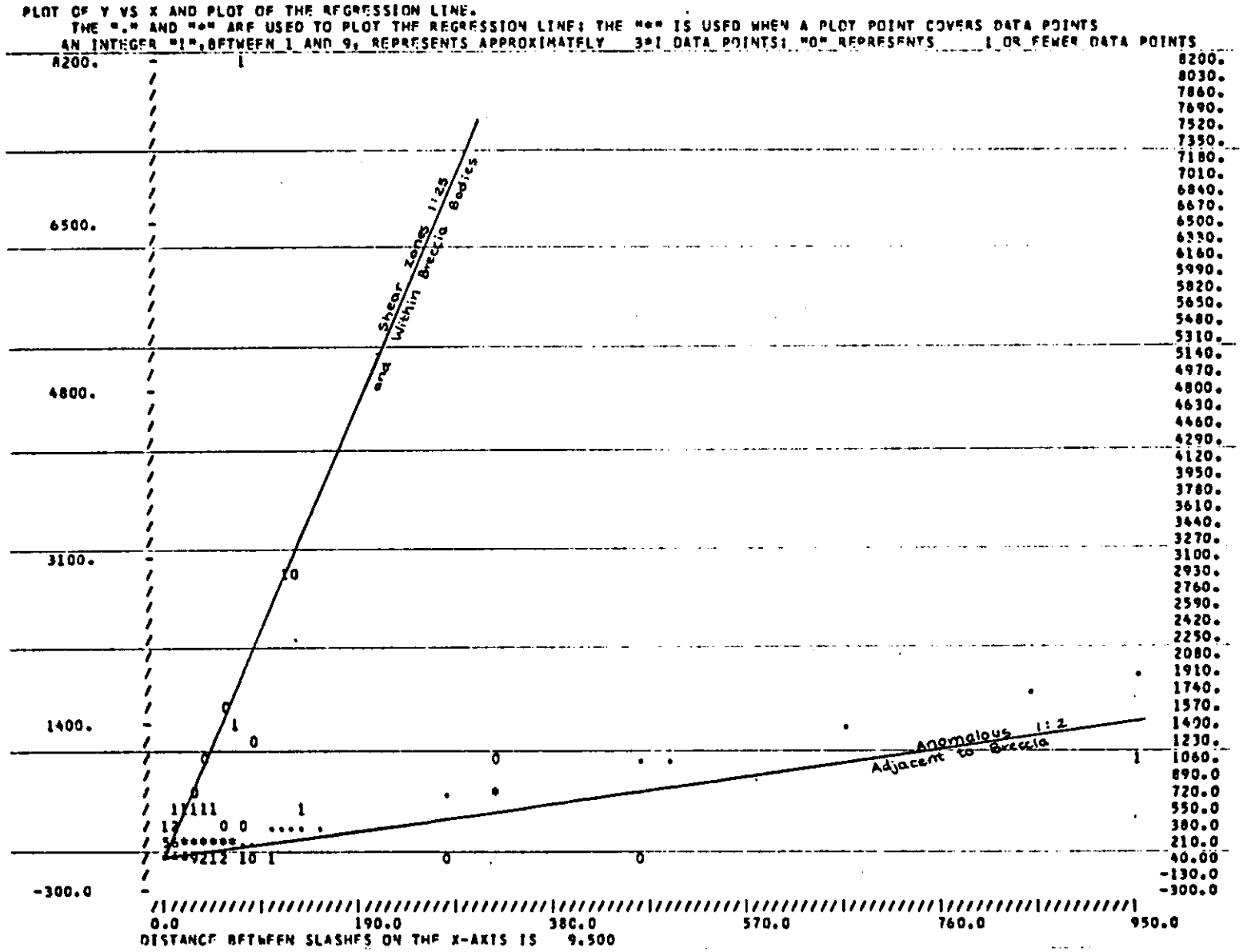
Most elements exhibit a log normally distributed, background population and a single anomalous population, although a few including gold exhibit additional anomalous populations. The ranges and modes are consistent with the regional values, but the means are a little higher reflecting the large proportion of anomalous samples. Examination of the geochemical maps shows that although the size and intensity of the anomalies varies from element to element, most elements are anomalous in the same areas, notably on the margins of a large breccia body in the centre of the property and below the intersection of two faults near the northern end. This is reflected in Table 3b which shows that most elements are significantly correlated with one another.

	Au	Mo	Ag	U	Co	Cu	Pb	As	Bi
Au	1.0000								
Mo	.7176	1.0000							
Ag	.5110	.5916	1.0000						
U	.3863	.4422	.4482	1.0000					
Co	.3154	.3436	.3489	.3827	1.0000				
Cu	.2267	.2755	.3075	.2594	.2789	1.0000			
Pb	.2015	.2467	.4093	.2748	.1615	.2359	1.0000		
As	.1087	.1047	.1482	.1263	.2431	.1124	.1615	1.0000	
Bi	.1378	.0635	.0696	.1712	.1532	-.0042	.0871	.0812	1.0000

Degrees of Freedom=626

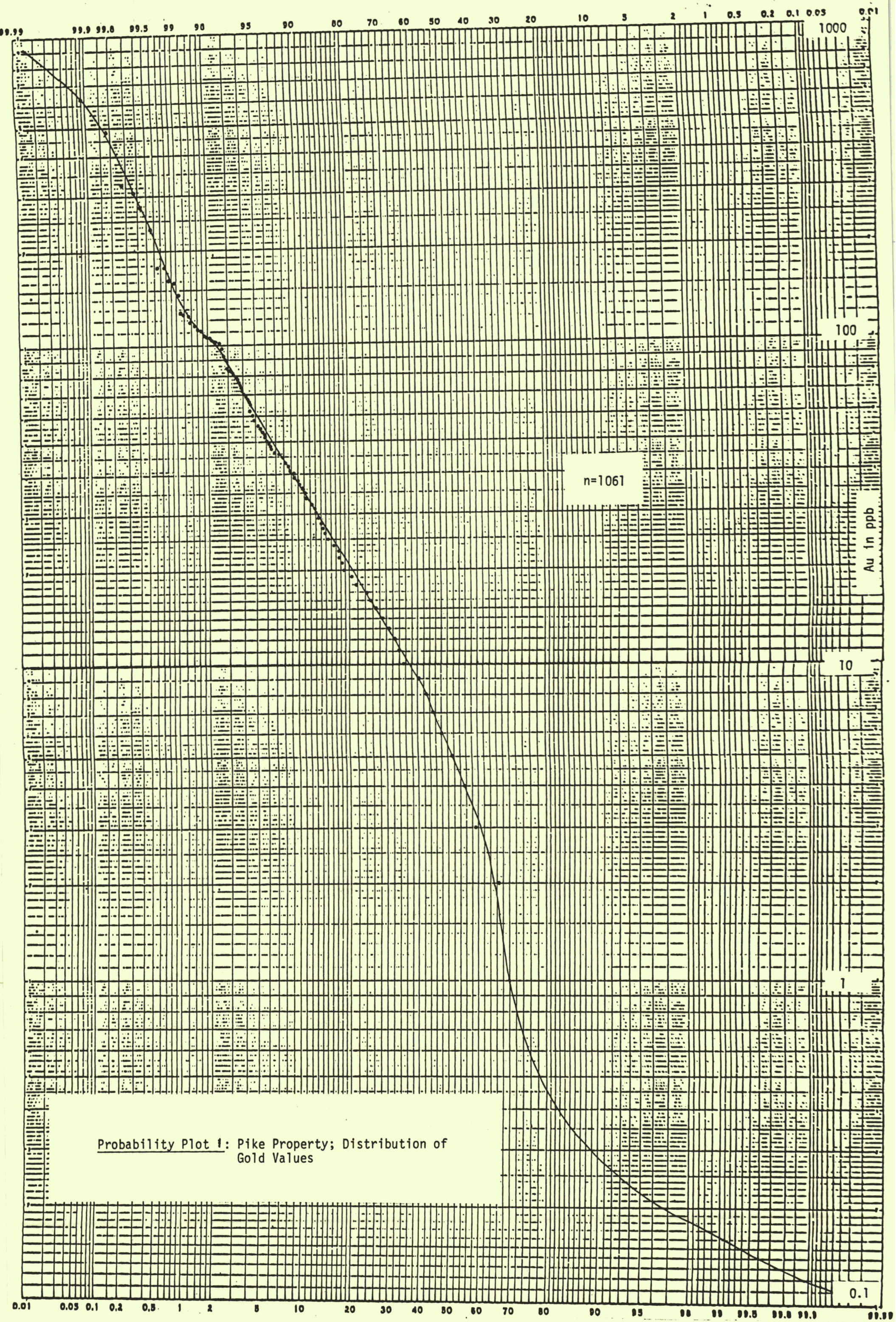
Table 3b: Correlation Coefficients for Pike Property Soil Samples

Although the positive correlations suggest that the distribution of metals was controlled by similar processes, examination of the simple linear regressions, scatter plots upon which the correlation coefficients (included in Appendix III) are based reveals that for most elements the regression line passes between two distinct clusters of values corresponding to separate populations. If the populations were separated and correlation coefficients were calculated for each, the new values would show a higher degree of correlation than those of the total population. This is particularly true for copper. Graph 1 on the following page is a diagram comparing gold to copper and shows that one population is characterized by a gold to copper ratio of 1 ppb to 25 ppm whereas the other has an average ratio of 1 ppb to 2 ppm. The high gold to copper ratios obtained from this property probably indicate that the gold is not tied up in chalcopyrite; however, the linear relationship between the two is significant as it affirms the usefulness of copper as a geochemical pathfinder. Samples with high gold values exhibiting high gold to copper ratios are from the margins of the large breccia body in the centre of the property while those with lower ratios are from a shear zone near the north end. A third group of high gold values was obtained from another shear zone near the south end of the property, but copper analyses have not been done on these samples. The high apparent correlation between gold and molybdenum is misleading as the regression line is



Au in ppb

Graph 1: Pike Property; Gold to Copper Ratios for Soil Samples taken from Various Geological Environments.



Probability Plot 1: Pike Property; Distribution of Gold Values

mainly controlled by a few high values.

Gold Anomalies

The largest gold soil anomaly covers a 1500 m by 800 m area in the centre of the property. Gold values range from 20 to 950 ppb and are largely underlain by Unit Hs argillites exhibiting a variety of alteration including bleaching, carbonatization, hematization, albitization and sericitization. In general, the gold values increase proportionally to increasing alteration. Alteration consists largely of 1 to 4 cm bleached and hematized halos around quartz, carbonate, albite veins, but in some areas the bleaching and hematization is pervasive. A few zones of intense chloritization and hematization are seen immediately adjacent to breccias and in these areas most veins contain either quartz or barite. Copper, silver, cobalt, arsenic, and uranium anomalies generally correspond to the outline of this gold anomaly, while bismuth and molybdenum anomalies generally conformed to the outline of this gold anomaly flank it. Outcrop samples taken from this anomaly are discussed in the following section.

A second soil anomaly occurs below a 20 m by 20 m zone of quartz-flooded unit Hcs2 with chalcopyrite and malachite filled fractures which is located at the intersection of two, east-trending and north-trending faults located some 2000 m north of the main anomaly. This anomaly has a linear, downhill trend and exhibits gold values ranging from 60 to 1200 ppb compared to a background of less than 1 ppb. Copper, silver, cobalt, arsenic and bismuth exhibit coincident anomalous response, probably reflecting the abundance of sulphides observed in this area.

The third major gold soil anomaly lies 1500 m south of the main gold anomaly and is defined by a line of anomalous gold values ranging from 23 to 623 ppb in soils over a distance of 1200 m along a east-trending fault. Country rocks in and adjacent to this fault are strongly sheared and commonly exhibit chalcopyrite and minor cobaltite filling fractures.

A number of other spot high gold values have been obtained on various parts of the property however, most are from areas exhibiting anomalous radioactivity or are unsupported by other elements. Although gold geochemistry failed to detect the area of quartz float which has produced assays up to 317 oz/ton gold, uranium and molybdenum are anomalous in this area which confirms their usefulness as pathfinders for gold in this type of occurrence.

ROCK AND OUTCROP SAMPLING

A total of 49 widely-spaced, reconnaissance chip samples were collected in and peripheral to areas which produced anomalous gold results in soils, as illustrated on Figure WJV81 E11 on the following page. Most of the samples were taken over lengths of 20 to 50 m from outcrops in order to test bulk tonnage gold potential. A few chip samples and a number of grab samples were also taken from specific rock types and/or mineralized specimens to test their gold content. Analytical results of the grab samples are shown on Figure WJV81 E1, while Table 1 following the location map lists descriptions and assay results of each chip sample.

The only sample assaying greater than 71 ppb gold consisted of 3 to 4 chips per metre along a 20 m length of Unit Hsa outcrop exhibiting extensive red, hematite alteration around narrow quartz-carbonate veins and assayed 3820 ppb gold (0.116 oz/ton). A 30 cm wide shear zone cutting the outcrop was sampled

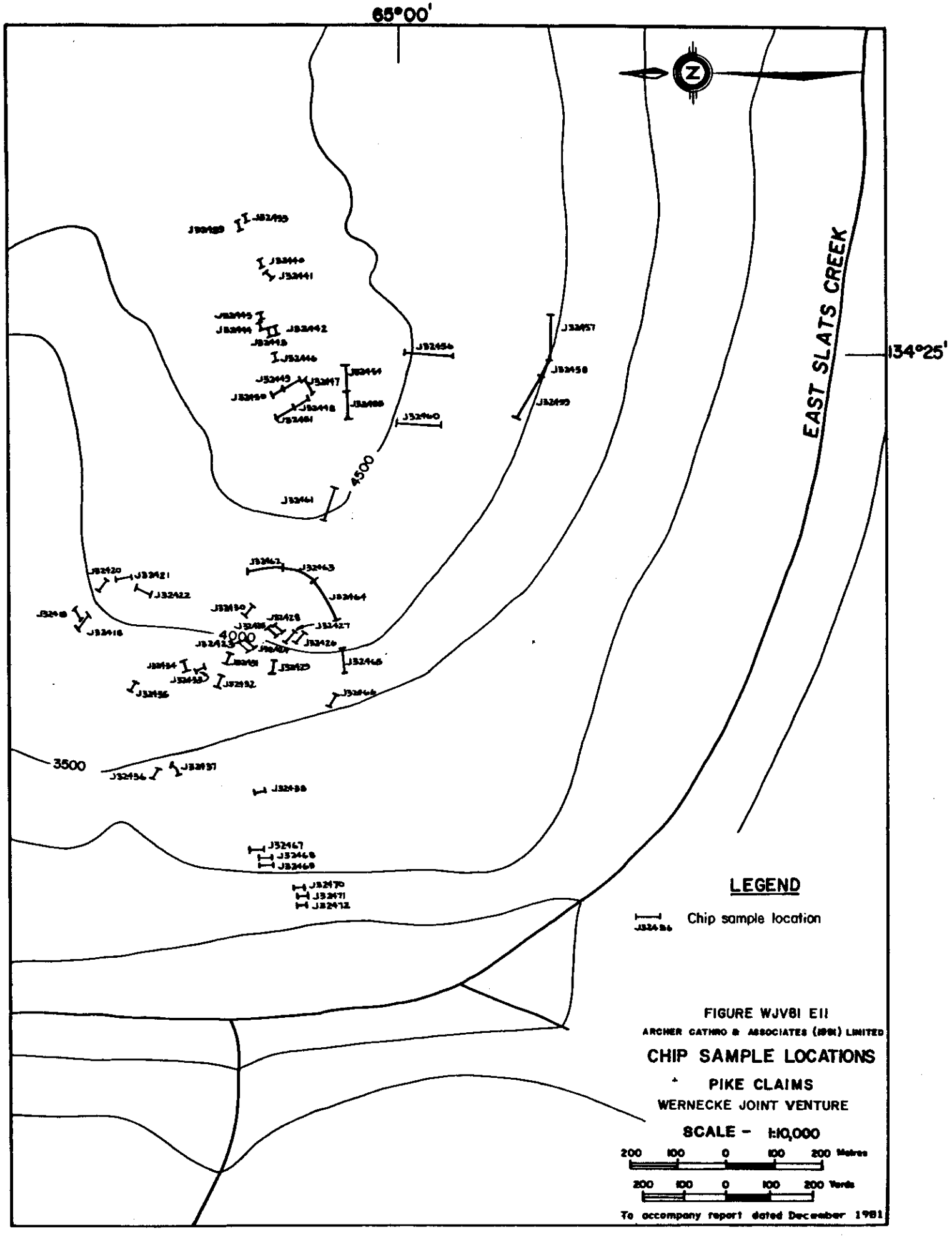

65°00'
134°25'
EAST SLATS CREEK
4500
4000
3500
LEGEND
Chip sample location
FIGURE WJV81 E11
ARCHER CATHRO & ASSOCIATES (1981) LIMITED
CHIP SAMPLE LOCATIONS
PIKE CLAIMS
WERNECKE JOINT VENTURE
SCALE - 1:10,000
200 100 0 100 200 Metres
200 100 0 100 200 Yards
To accompany report dated December 1981

Table 1 : Pike Property, Chip Samples Descriptions and Assay Results

SAMPLE	LENGTH	CHIP DENSITY	SOURCE	ROCK DESCRIPTION	Au (ppm)	Ag (ppm)	Cu (ppm)	Co (ppm)	Mo (ppm)
J32418	20m	3-4/m	outcrop	predominantly dark grey argillite with approximately 20% mottled, red, hematized alteration halos around open fractures and up to 1 cm wide quartz veins, and along some beds	3820	1.7	80	24	4
J32419	5m	5/m	suboutcrop	sample taken along strike of 30 cm wide limonite stained shear zone cutting, pitted grey to mottled red argillite	57	1.6	60	28	3
J32420	3m	5/m	suboutcrop	samples taken across a sheared, slightly gougy, bleached and malachite stained fault zone forming contact between Hb and Hsa.	14	0.1	315	60	3
J32421	20m	2/m	outcrop	sheared heterolithic breccia containing elongate heterolithic fragments ranging from fresh argillite, through bleached argillite to hematized argillite	15	0.1	300	30	2
J32422	30m	1/m	outcrop	homolithic breccia and weakly red, hematized equivalents	4	0.4	115	23	2
J32423	grab	-	talus	red altered heterolithic breccia with a 1 cm wide siderite and purple fluorite vein	23	0.3	86	23	10
J32424	20m	2/m	talus	30% intensely albitized and carbonitized argillite, and 70% less intensely altered argillite, contains a trace of malachite and chalcopyrite	22	0.4	1550	32	13
J32425	15m	4/m	outcrop	a contact zone between heterolithic breccia containing fine fragments and red, hematized argillite (possibly blocks in breccia) taken directly above a 950 ppb gold soil sample. Quartz veins in area sampled separately (see J32428)	10	0.2	195	31	5
J32426	15m	2/m	outcrop	similar to J32425, but no quartz veins	7	0.2	220	35	6
J32427	4m	4/m	outcrop	4m by 2m pod of intensely albitized and carbonitized argillite	7	0.1	144	17	8
J32428	grab	-	outcrop	5 chips from 1 to 3 cm wide quartz veins surrounded by 2 to 5 cm wide red to orange, albitized alteration envelopes. Veins have density of 1/m	< 1	0.2	32	20	3
J32429	50m	1/m	outcrop	grey and mottled red argillite	25	0.1	900	31	9

Table 1 : Continued

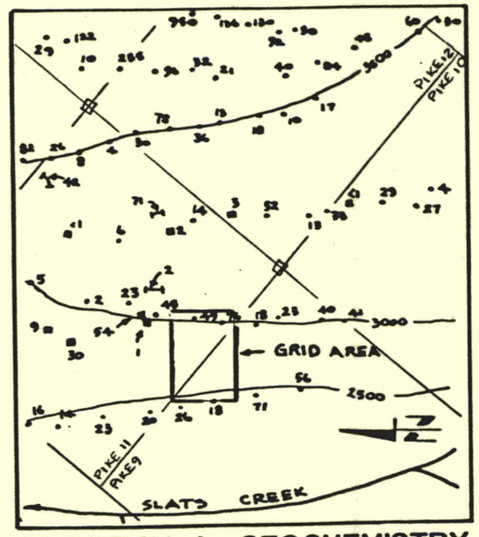
SAMPLE	LENGTH	CHIP DENSITY	SOURCE	ROCK DESCRIPTION	Au (ppm)	Ag (ppm)	Cu (ppm)	Co (ppm)	Mo (ppm)
J32430	20m	1/m	talus	20m by 10m area at intensely carbonate and albite altered argillite on the margin of a small breccia body, contains a trace of chalcopyrite	32	0.3	1500	29	13
J32431	50m	1/m	outcrop	heterolithic breccia containing minor chalcopyrite and malachite	22	0.2	400	23	8
J32432	50m	1/m	outcrop	mixed heterolithic breccia and mottled, red hematized argillite with some areas of intensely albitized and carbonitized argillite	28	0.5	400	41	13
J32433	10m	3/m	talus	10m by 10m area of gossanous, slightly pyritic, chloritized argillite	8	0.9	59	34	5
J32434	10m	3/m	talus	taken across a 10m wide talus train containing nearly 100%, massive hematite float with traces of pyrite and malachite	3	0.2	79	13	19
J32435	30m	1/m	talus	predominently carbonatized argillite with local red, albite alteration	2	0.8	122	35	7
J32436	20m	1/m	outcrop	taken along a 30cm to 3m wide zone of moderately radioactive, bleached and slightly hematized argillite. One chip contains purple mica (lepidolite ?) on a fracture	8	0.6	67	15	8
J32437	30m	1/m	talus	grey argillite with numerous red, hematized alteration envelopes around fractures containing a trace of malachite	42	0.1	31	20	4
J32438	15m	2/m	talus	10m by 15m area of intensely carbonatized albitized and sericitized argillite which produced a grab sample assay of 0.168 oz/ton gold in 1980	71	1.4	133	46	32
J32439	10m	3/m	outcrop	grey argillite with carbonate veins	10	0.1	310	19	5
J32440	grab	-	talus	malachite- and chalcopyrite-bearing grey argillite	15	0.1	1300	15	5
J32441	30cm	30/m	outcrop	subhorizontal quartz-albite vein with bleached margins	4	0.1	50	9	3
J32442	10m	2/m	outcrop	10m by 10m magnetite- and hematite-rich heterolithic breccia with malachite stained and chalcopyrite-bearing fractures developed in the hanging wall of a 145°/45°W fault zone	27	0.5	4800	74	25

Table 1 : Continued

SAMPLE	LENGTH	CHIP DENSITY	SOURCE	ROCK DESCRIPTION	Au (ppm)	Ag (ppm)	Cu (ppm)	Co (ppm)	Mo (ppm)
J32443	15m	2/m	outcrop	similar to J32442, but on other side of ridge	39	0.8	3500	80	7
J32444	30cm	30/m	outcrop	highly sheared, bleached, and slightly gougy argillite with a trace of malachite in fault zone	10	0.1	290	15	3
J32445	10m	2/m	outcrop	sheared argillite in footwall of fault, minor barite in 1cm wide veins	5	0.1	45	12	3
J32446	2m	10/m	outcrop	2m thick, subhorizontal, heterolithic breccia with distinctively rounded, shattered fragments in a hematite rich matrix (gas vent?)	33	0.1	140	12	4
J32447	70m	1/m	outcrop	grey argillite with minor red hematized zones, minor disseminated and fracture-filling chalcopyrite and malachite	13	0.1	370	79	4
J32448	60m	1/m	outcrop	similar to J32447	5	0.1	50	35	4
J32449	60m	1/m	outcrop	similar to J32447	10	0.1	950	85	2
J32450	3m	5/m	outcrop	intensely albitized and weakly carbonitized argillite	11	0.1	23	13	2
J32451	35m	1/m	outcrop	similar to J32447 but only trace of copper	5	0.1	51	38	3
J32452	50m	1/m	outcrop	intensely albitized and carbonitized argillite on margin of breccia with minor disseminated malachite and chalcopyrite	7	0.2	155	13	5
J32453	10cm	50/m	outcrop	10cm wide, irregular, subhorizontal quartz-albite vein with bleached green alteration envelope, minor malachite staining	5	0.1	2000	58	6
J32454	70m	1/m	talus	50% of red, hematized fractures and beds, remainder medium grey to purple argillite, disseminated and fracture filling chalcopyrite and malachite	6	0.1	700	55	3
J32455	70m	1/m	talus	similar to J32454 but less copper	1	0.1	168	41	4
J32456	100m	1/m	outcrop	similar to J32455 with occasional pods of malachite stained rock	< 1	0.2	40	19	2
J32457	50m	1/m	talus	similar to J32455, less than 1 rock in 100 contains approximately 1% chalcopyrite	4	0.1	210	23	3
J32458	50m	1/m	talus	same as J32457	2	0.1	225	38	4

Table 1 : Continued

SAMPLE	LENGTH	CHIP DENSITY	SOURCE	ROCK DESCRIPTION	Au (ppm)	Ag (ppm)	Cu (ppm)	Co (ppm)	Mo (ppm)
J32459	75m	1/m	talus	same as J32458	4	0.2	58	31	2
J32460	100m	1/m	outcrop	same as J32456 but occasional quartz-albite veins	2	0.1	375	28	3
J32461	70m	1/m	outcrop	70% mottled and stripped, red to purple to grey argillite to intensely albitized argillite and 30% heterolithic breccia	1	0.2	101	30	2
J32462	75m	1/m	talus	mixed red, hematized argillite with minor chalcopyrite on fractures and heterolithic breccia	3	0.1	144	19	2
J32463	75m	1/m	talus	same as J32462	3	0.2	205	19	3
J32464	60m	1/m	outcrop	70% heterolithic breccia mixed with red, hematized argillite containing a trace of malachite	12	0.5	119	20	4
J32465	30m	2/m	outcrop	5m by 30m area of sheared and chloritized argillite with approximately 1% disseminated and fracture-filling chalcopyrite and malachite	9	0.1	3700	80	6
J32466	20m	2/m	outcrop	5m by 20m massive hematite with a trace of malachite occurring on margin of a breccia body	3	0.5	200	4	11
J32467	100m	1/m	talus	intensely chloritized argillite similar to J32465 but with occasional up to 1cm wide vuggy white quartz veins	2	0.2	83	8	2
J32468	grab	-	talus	3 chips from weakly radioactive (4 times background), strongly chloritized argillite similar to wallrock of visible gold-bearing quartz veins located 100m to the southwest	54	0.4	47	12	7
J32469	grab	-	talus	2 chips from 2mm to 10cm wide quartz and quartz-barite veins in choritized argillite talus	1	0.1	62	2	5
J32470	10m	3/m	outcrop	strongly chloritized argillite with a stockwork of white quartz veins above gold-bearing talus	< 1	0.1	20	13	2
J32471	-	-	outcrop	non-radioactive, vuggy, glassy quartz veins similar to radioactive, gold-bearing quartz veins	25	0.3	41	4	11
J32472	-	-	outcrop	similar to J32471	42	1.1	47	5	10



LOCATION: Au GEOCHEMISTRY

100 50 0 100 200 300 400 500 metres

40 N
20 N
0
20 S
40 S

80 W | 60 W | 40 W | 20 W | 00 | 20 E | 40 E | 60 E

HANDPIT P1
HANDPIT P3
HANDPIT P4

LEGEND

200 — Radioactivity measured in cps with scintrex BGS-ISL scintillometer

▲ 7000 — Radioactive rock in cps as hand specimens

FIGURE WJV81 E12

ARCHER CATHRO AND ASSOCIATES (1981) LTD.

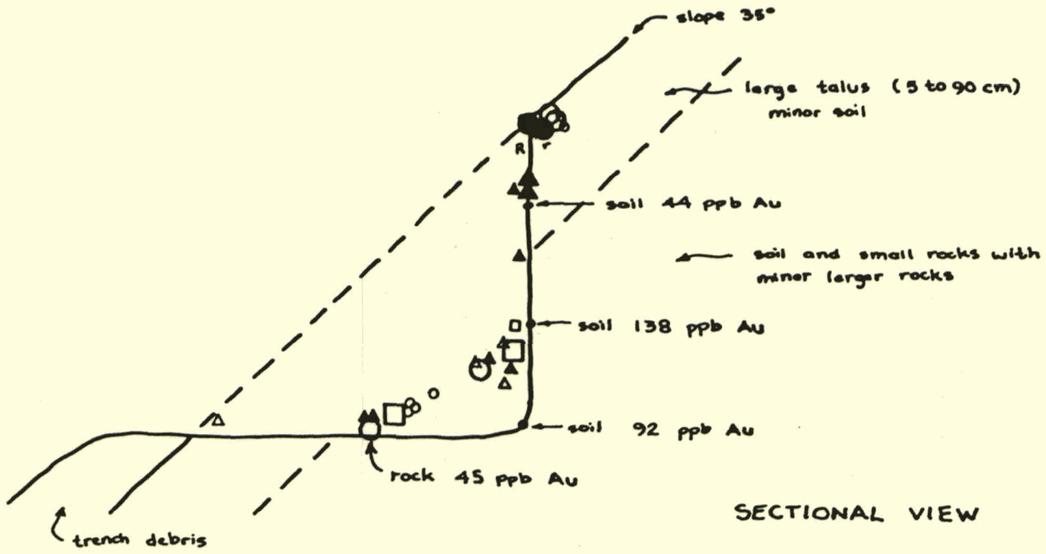
HANDPIT LOCATIONS
GRID RADIOMETRICS

PIKE CLAIMS
EATON PROPERTY

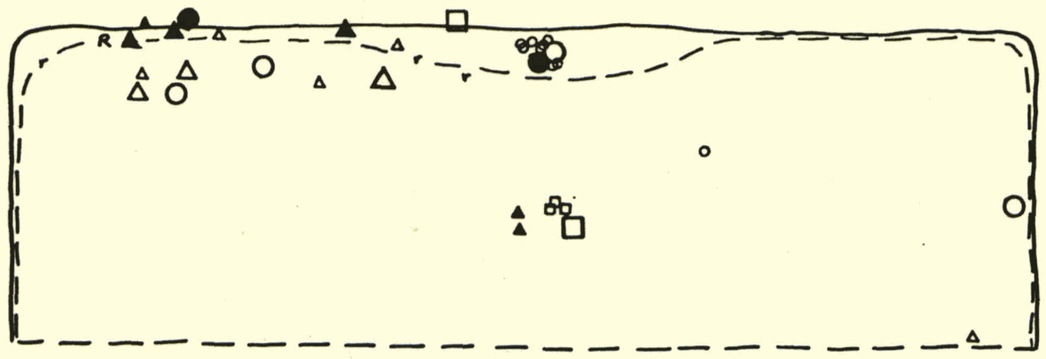
WERNECKE JOINT VENTURE

SCALE 1:500

5 2.5 0 5 10 15 20 metres

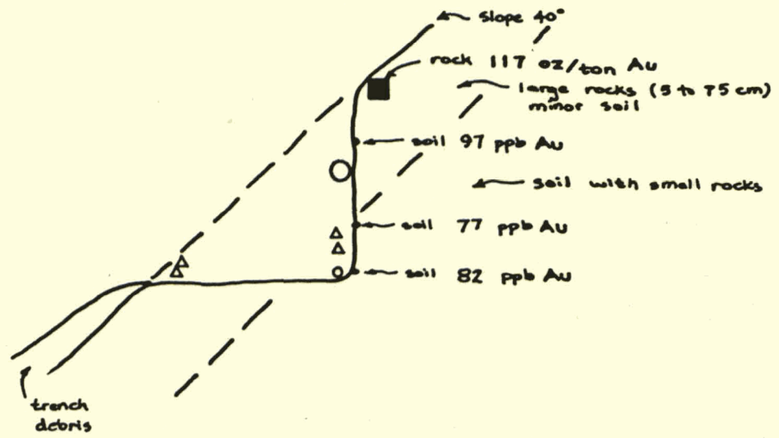


SECTIONAL VIEW

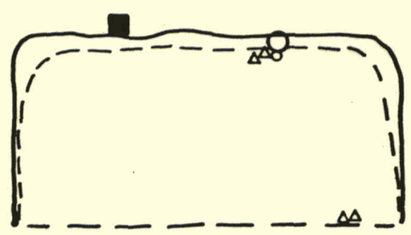


PLAN VIEW

HANDPIT P3



SECTIONAL VIEW



PLAN VIEW

HANDPIT P4

LEGEND

△ rock < 10 cm in diameter containing quartz veins up to 3 cm wide but background to 3 times background radioactivity.

△ rock > 10 cm in diameter containing quartz veins up to 3 cm wide but background to 3 times background radioactivity.

▲▲ same as above, but exhibiting > 3 times background radioactivity.

o rock < 10 cm in diameter containing quartz veins > 3 < 10 cm wide but background to 3 times background radioactivity.

O rock > 10 cm in diameter containing quartz veins > 3 < 10 cm wide but background to 3 times background radioactivity.

●● same as above but exhibiting > 3 times background radioactivity.

□ rock < 10 cm in diameter completely comprised of quartz vein but exhibiting background to 3 times background radioactivity.

□ rock > 10 cm in diameter containing quartz vein > 10 cm in diameter but background to 3 times background radioactivity.

■ same as above but exhibiting > 3 times background radioactivity.

r rock with no quartz veins exhibiting > background but < 3 times background radioactivity.

R rock with no quartz veins exhibiting > 3 times background radioactivity.

FIGURE WJV81 E13

ARCHER CATHRO & ASSOCIATES (1981) LTD.

Au GEOCHEMISTRY
RADIOMETRICS

HANDPITS P3 & P4

PIKE CLAIMS

EATON PROPERTY

WERNECKE JOINT VENTURE

SCALE 1:20

0 0.5 1 2 m

but returned only 57 ppb gold. Although both samples produced near background values for most other elements they returned the highest silver values obtained from any of the chip samples, 1.7 ppm and 1.6 ppm respectively. Surprisingly, soils immediately downhill from this outcrop are only moderately anomalous in gold.

Chip samples from elsewhere on the property returned low values ranging from <1 to 126 ppb gold, even though many were taken directly uphill from or within the largest and strongest gold soil anomalies. The most consistently anomalous results were obtained from samples near the north end of the property where a chip across 20 m of malachite stained, sheared and quartz-flooded Unit Hcs2 assayed 126 ppb gold compared to two grab samples which returned 320 ppb and 370 ppb gold. Twenty-six samples of Unit Hsa float exhibiting narrow quartz-carbonate veins and red hematized alteration envelopes averaged only 13.5 ppb gold, whereas soils from the same areas averaged 45 ppb gold. A number of specific rock and mineral types were sampled, including barren quartz veins similar to those carrying visible gold, weakly radioactive, chloritized argillite, massive hematite, a zone of pervasive albitization and chloritization, and several areas containing chalcopyrite and malachite but, all returned less than 74 ppb gold.

TRENCHING

Two trenches, P3 and P4 (P1 and 2 were dug in 1980), were dug on the radioactive, quartz float train which produced gold assays up to 347.36 oz/ton gold in 1980. Figure WJV81 E12 on the following page shows the location of the trenches relative to a 1980 detail radiometric grid and specific float locations, while Figure WJV81 E13, which follows the previous figure,

illustrates the distribution of radioactive and non-radioactive quartz float and assay results for soil samples taken from the trenches.

Although neither trench reached bedrock, both encountered radioactive float which had not been detected from surface. Trench P3 is located 20 m uphill from the top of the exposed float train and contained numerous radioactive boulders, the greatest concentration of which occurred near the top of the trenching. Surprisingly the highest gold value, 138 ppb gold, was obtained from soil taken halfway down the trench in the middle of a layer of nearby barren quartz float, whereas a sample taken near the top of the trench returned only 44 ppb gold and one at the bottom 92 ppb gold. Trench P4 was dug a further 15 m uphill and intersected only one strongly radioactive rock just below surface and a few small pieces of non-radioactive float deeper in the trench. A 1 kg, brannerite-bearing sample taken from the radioactive quartz boulder assayed 117 oz/ton gold while three soil samples taken progressively deeper in the trench returned 97, 77 and 82 ppb gold, respectively.

DISCUSSION AND CONCLUSIONS

Gold occurs in three geological environments on the Pike property: (1) brannerite-bearing quartz and barite veins, which have only been seen in float; (2) zones of alkalic, carbonate and hematite alteration and minor chalcopyrite on the margin of breccia bodies; and, (3) quartz-flooded, malachite- and chalcopyrite-bearing shear zones developed along east-trending, extensional faults associated with the Richardson Fault Array.

The brannerite-bearing vein float contains visible gold and has produced gold assays up to 347.36 oz/ton. Although soil sampling has not located a specific source, it does suggest that molybdenum and uranium may be more useful pathfinders than gold for this type of occurrence. Radiometric prospecting is also effective, but has limited applications in areas of coarse talus.

A 1500 m by 800 m gold geochemical anomaly outlined in the centre of the property is associated with alkalic, carbonate and hematite alteration peripheral to a breccia body. This zone also contains disseminated chalcopyrite which produced a well defined associated copper geochemical anomaly. Unfortunately, the gold values in the anomaly are erratically distributed and do not point to specific areas of interest with the wide sample spacing that was used. Chip samples across outcrops within the anomalous area produced erratic assays ranging from 1 ppb to 3820 ppb (0.116 oz/ton Au) gold, the best being a sample across a width of 20 m. Interestingly, anomalous silver values are strongly associated with anomalous gold samples in rocks from this area but only weakly associated in soil. Even more interesting is the fact that this anomaly exhibits a 1 ppb to 2 ppm copper ratio, the best found in this geological setting in the district. This suggests that zones mineralized with one per cent copper could have associated zones assaying 0.14 oz/ton gold assuming that there is a direct relationship between gold and copper.

Linear gold soil anomalies are found associated with faults at the north and south ends of the property. These also have associated anomalous response for copper, cobalt, silver, arsenic and bismuth with a gold to copper ratio of 1 ppb gold to 25 ppm copper. These occurrences can be quickly located on the ground as they exhibit quartz veining associated with sheared and bleached country rock. A simple chip sample taken across the fault to the north assayed 121 ppb gold over a width of 20 m. Geochemical anomalies produced by this type

of vein occurrence are easily differentiated from the gold-brannerite vein type on the basis of metal association and from the breccia-margin type by gold copper ratios.

Further work in the property should concentrate on the 1500 m by 800 m area of interest in the centre of the property. This area should be grid soil sampled, using gold, silver and copper as indicator metals, at 25 m intervals on lines 50 m apart in an attempt to define specific targets for drilling. All outcrops encountered and the samples lines should be chip sampled in segments of 10 m or less. In addition, an IP survey should be conducted over the grid to locate areas of disseminated sulphide mineralization and possibly to define breccia contacts.

The two fault related gold anomalies should be investigated by closer spaced soil and rock outcrop sampling and additional hand pitting should be conducted in the gold-brannerite float occurrence on a low priority basis.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED,

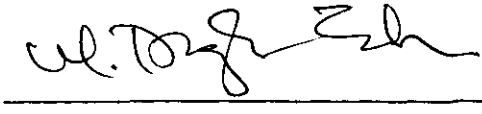
/jm

W. Douglas Eaton

STATEMENT OF QUALIFICATIONS

I, W. Douglas Eaton, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia, and residential address in Burnaby, British Columbia, do hereby declare:

1. I graduated from the University of British Columbia in 1980 with a B.Sc. and am currently enrolled in a M.Sc. majoring in Geological Sciences.
2. From 1971 to the present, I have been actively engaged in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981, became a partner in Archer, Cathro & Associates (1981) Limited.
3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



W. Douglas Eaton, B.A., B.Sc.

APPENDIX I

PERSONNEL

PERSONNEL

Name	Position	Address	Period During Which Work Was Done
D. Eaton	Geologist	6108 Burns St., Burnaby, B.C.	June 1-August 23
D. Heberlein	Geologist	4639 W. 9th St., Vancouver, B.C.	June 1-August 23
T. Stokes	Geologist	705 - 625 Milton St., Montreal, P.Q.	June 1-August 23
S. Bilawich	Student	27 Klondike Rd., Whitehorse, Y.T.	June 1-August 23
B. Brown	Student	4 Hoeschen Cres., Saskatoon, Sask.	June 1-August 23
K. Cockell	Student	45 Canfield Rd., Nepean, Ont.	June 1-August 23
L. Cymbalisty	Student	RR2, Site 18, Box 30, Lantzville, B.C.	June 1-August 23,
B. Halleran	Student	Box 793, Fort St. James, B.C.	June 1-August 23
M. Wong	Student	3147 Brookridge Dr., N. Vancouver, B.C.	June 1-August 23

APPENDIX II

ANALYTICAL TECHNIQUES

ANALYTICAL TECHNIQUES

Preparation

All soil samples were dried and sieved through an ASTM 35 mesh screen (0.50 mm). The -35 mesh fraction was then pulverized and homogenized in a ring grinder to approximately -100 mesh (0.15 mm). For grab and chip samples from rocks, the entire sample was crushed and split. A subsample was then pulverized in a ring grinder to approximately -100 mesh.

Analytical Techniques

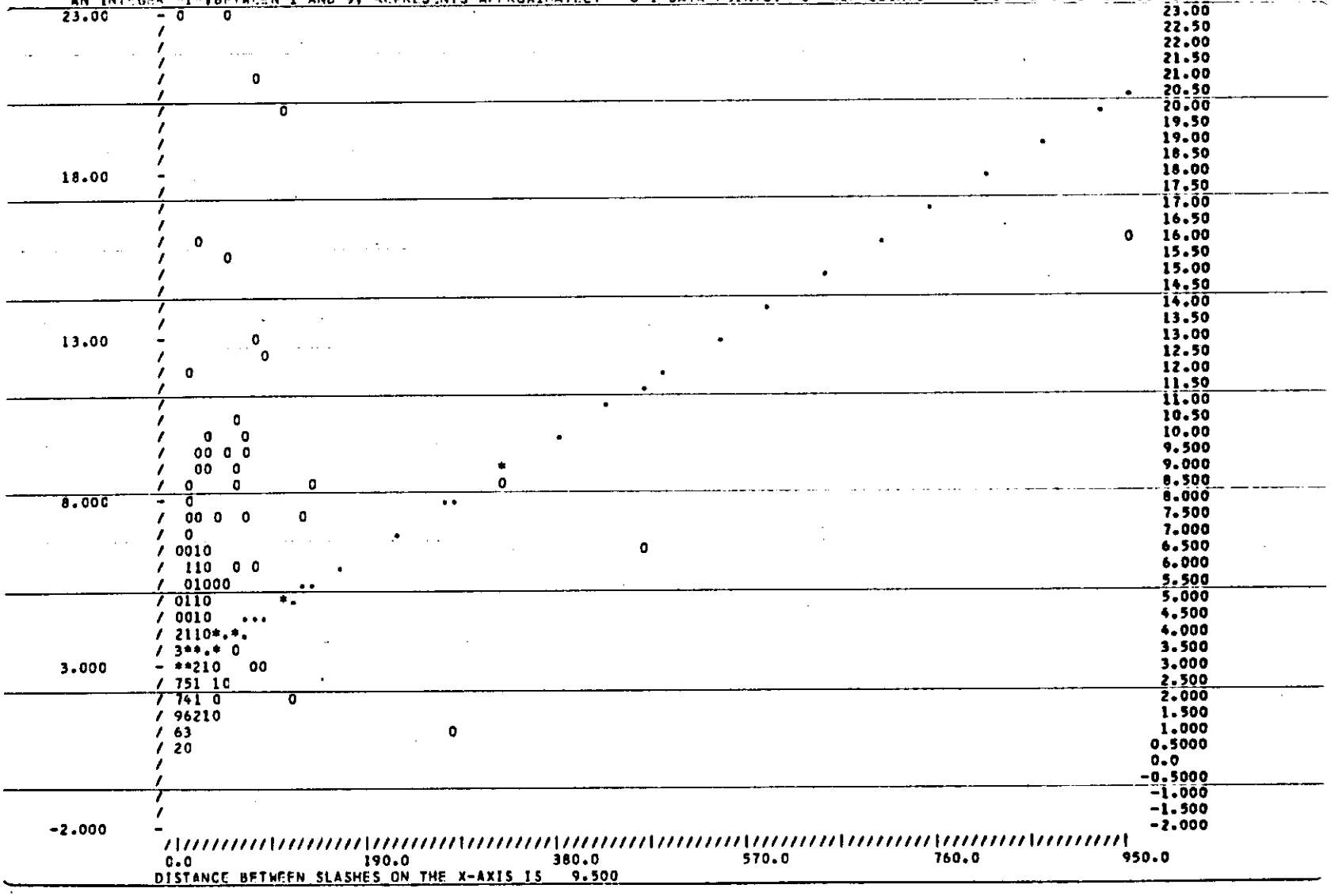
Gold was analyzed by a "combo technique" consisting of a fire assay followed by neutron activation, while uranium, bismuth, copper, cobalt, molybdenum, arsenic, lead and silver were all analyzed using a perchloric-nitric acid extraction followed by atomic absorption spectrometry, except uranium which used a fluorometric finish and bismuth which used a perchloric-nitric-hydrochloric acid extraction.

APPENDIX III

SIMPLE LINEAR REGRESSION SCATTER DIAGRAMS

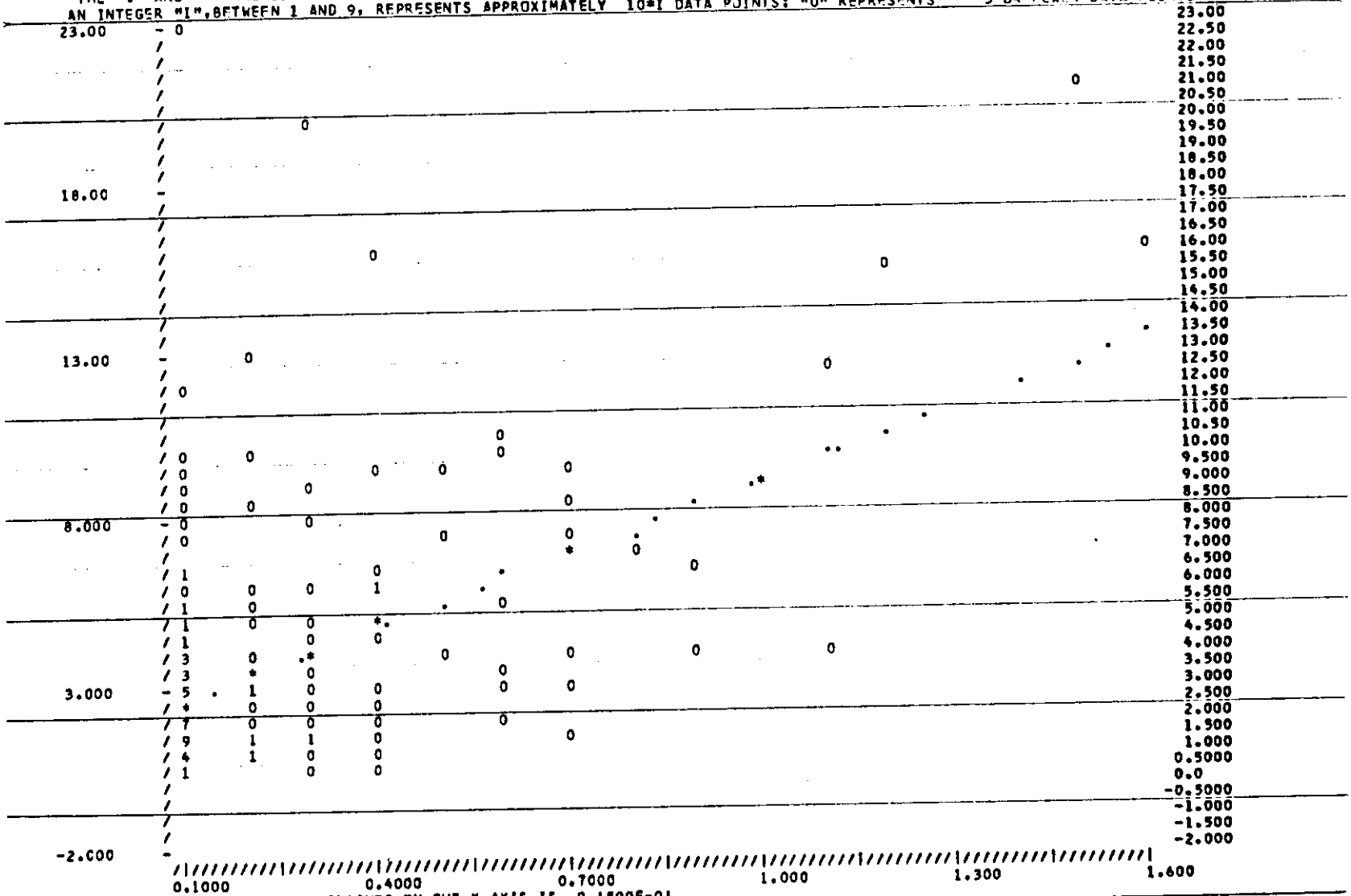
DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
U	AU	3.013	0.1852E-01	109.6	0.0	0.1121	0.1769E-02	2.699	0.1492

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 6*I DATA POINTS; "0" REPRESENTS 3 OR FEWER DATA POINTS



DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
U	AG	2.018	7.134	195.6	0.0	0.1388	0.5101	2.554	0.2384

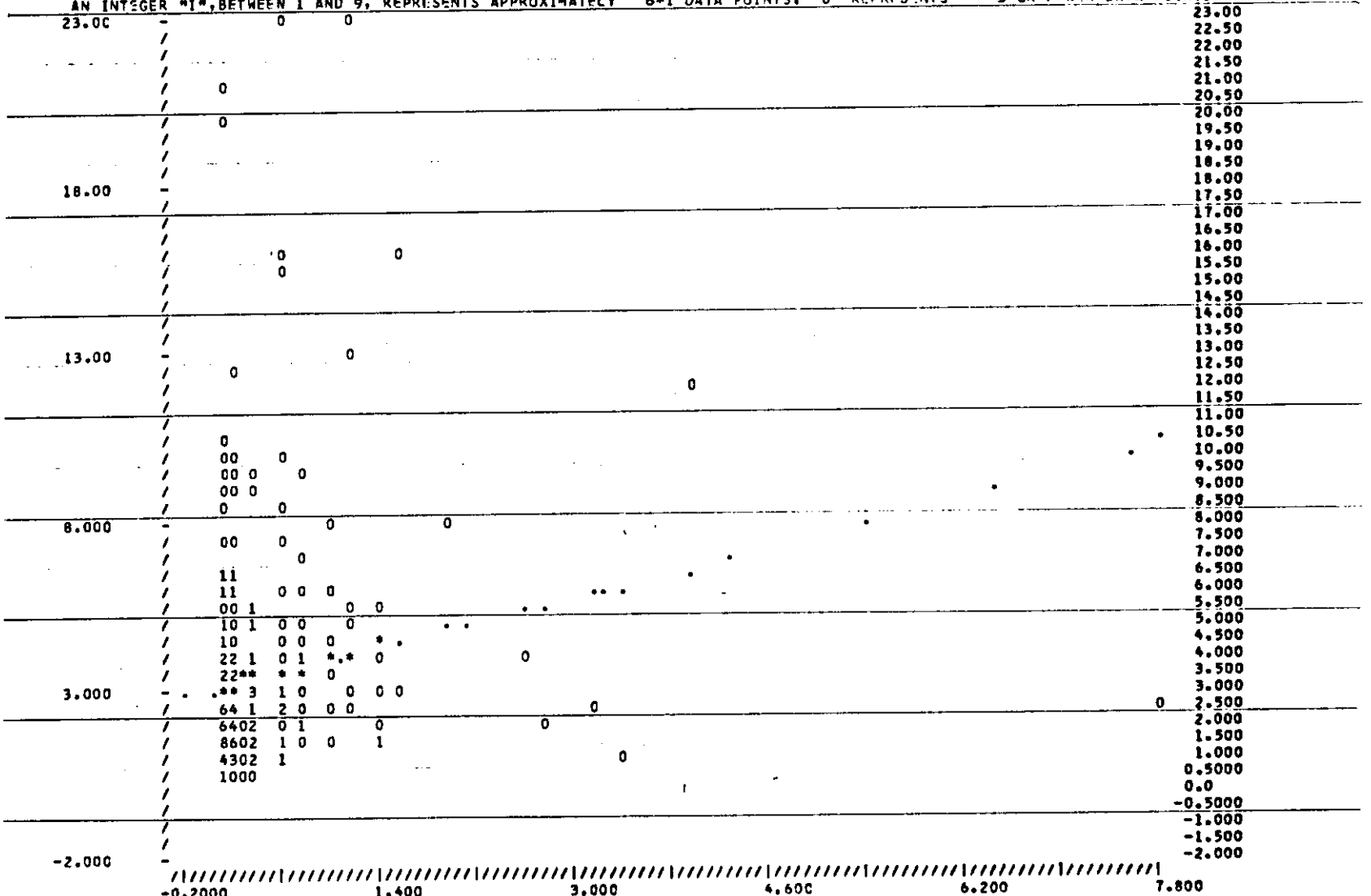
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 10*I DATA POINTS; "0" REPRESENTS 5 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.1500E-01

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
U	BI	2.988	0.9316	18.88	0.1627E-04	0.1400	0.2144	2.883	0.0293

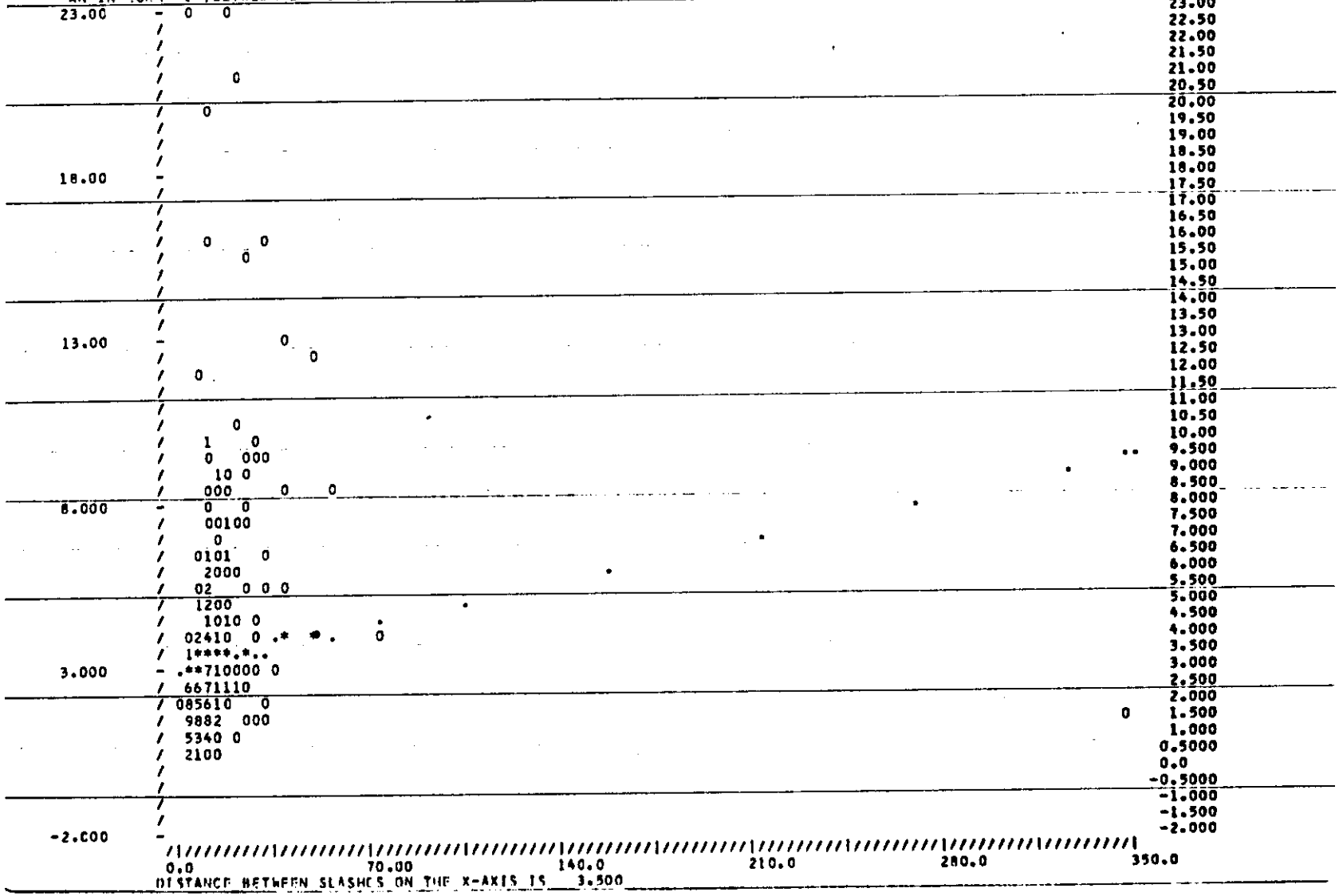
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 6*I DATA POINTS; "0" REPRESENTS 3 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.8000E-01

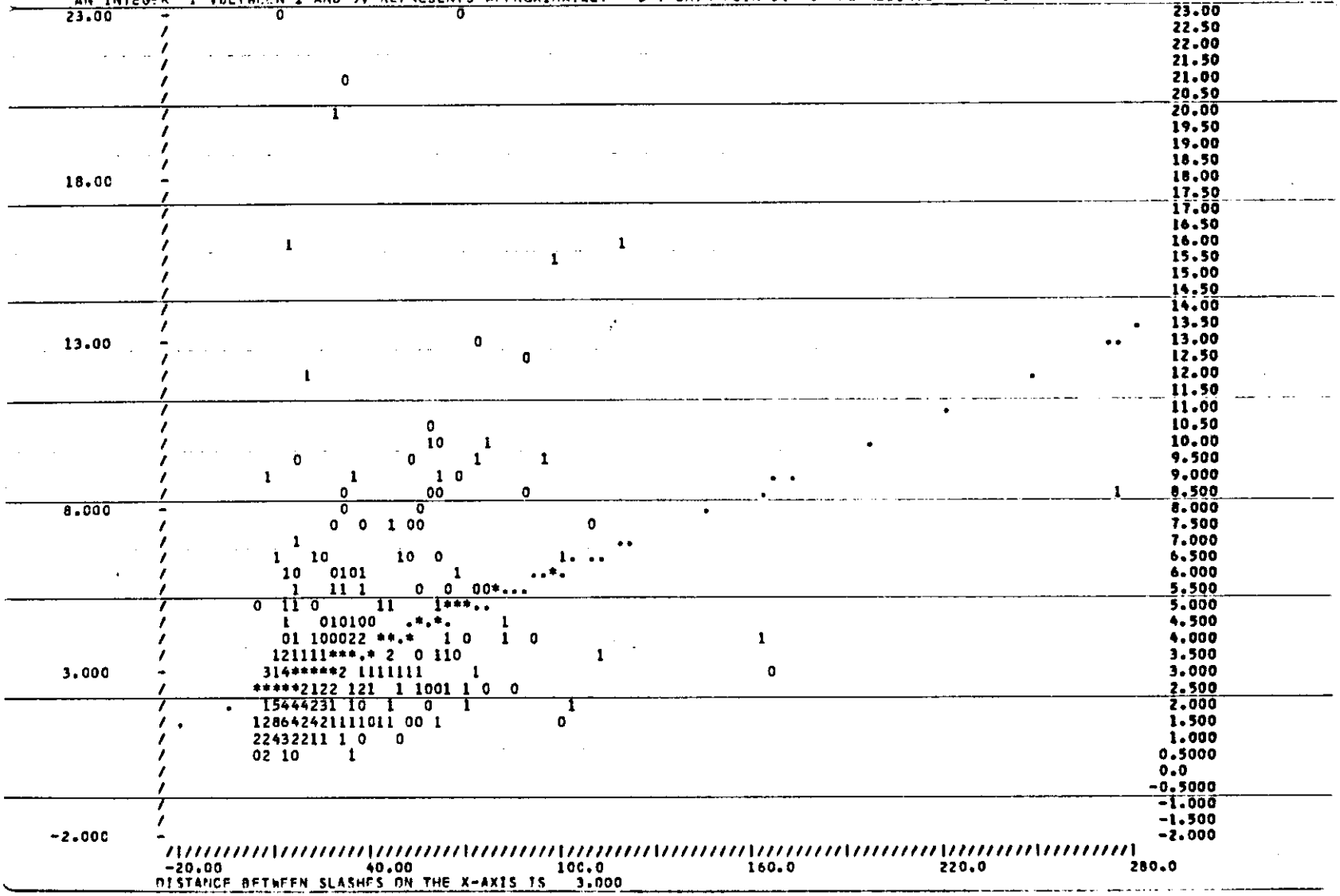
DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
U	AS	3.123	0.1814E-01	10.12	0.1536E-02	0.1336	0.5702E-02	2.903	0.0159

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 4*I DATA POINTS; "0" REPRESENTS 2 OR FEWER DATA POINTS



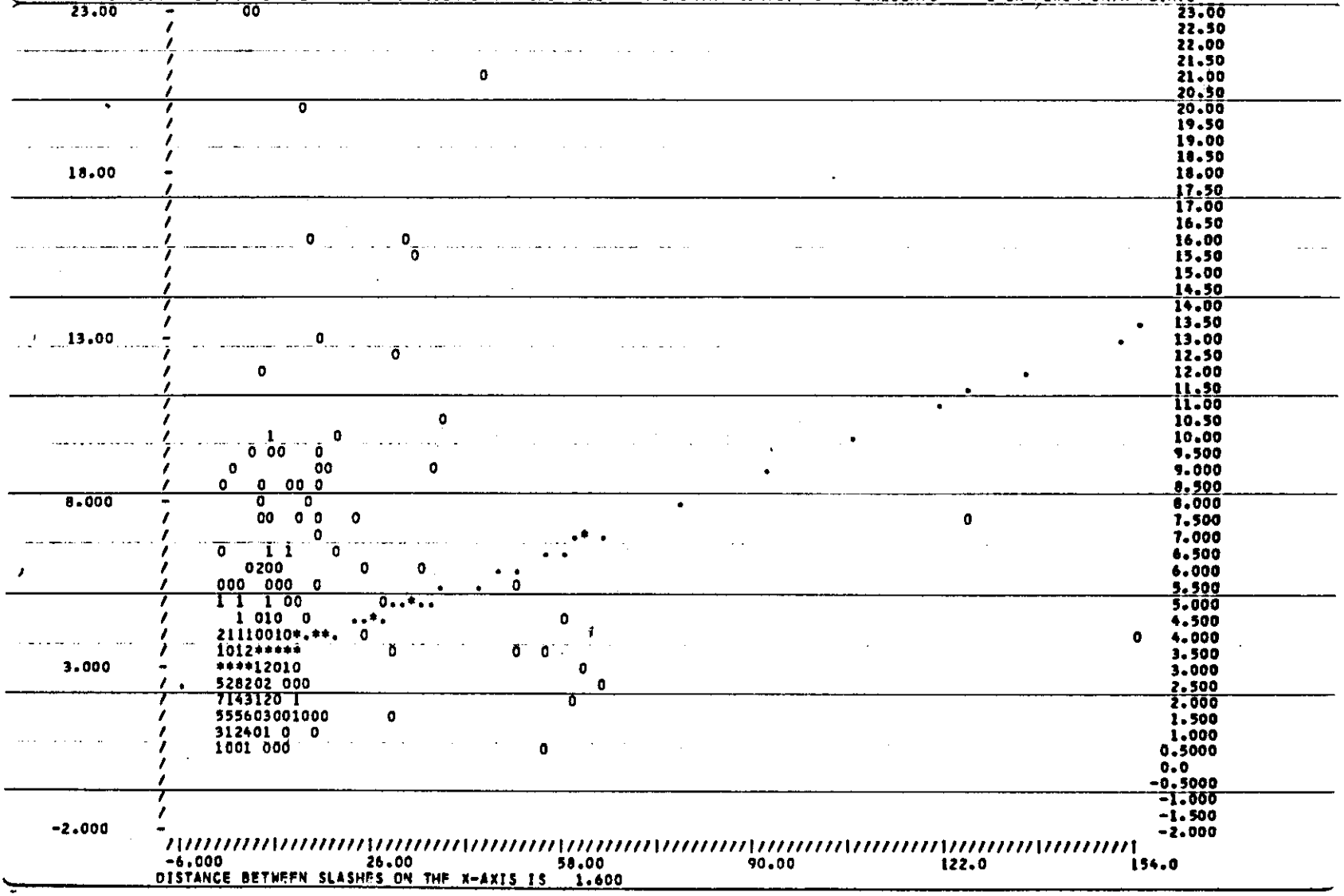
DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
U	CO	2.143	0.4013E-01	107.3	0.0	0.1578	0.3875E-02	2.703	0.1465

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 3*I DATA POINTS; "0" REPRESENTS 1 OR FEWER DATA POINTS



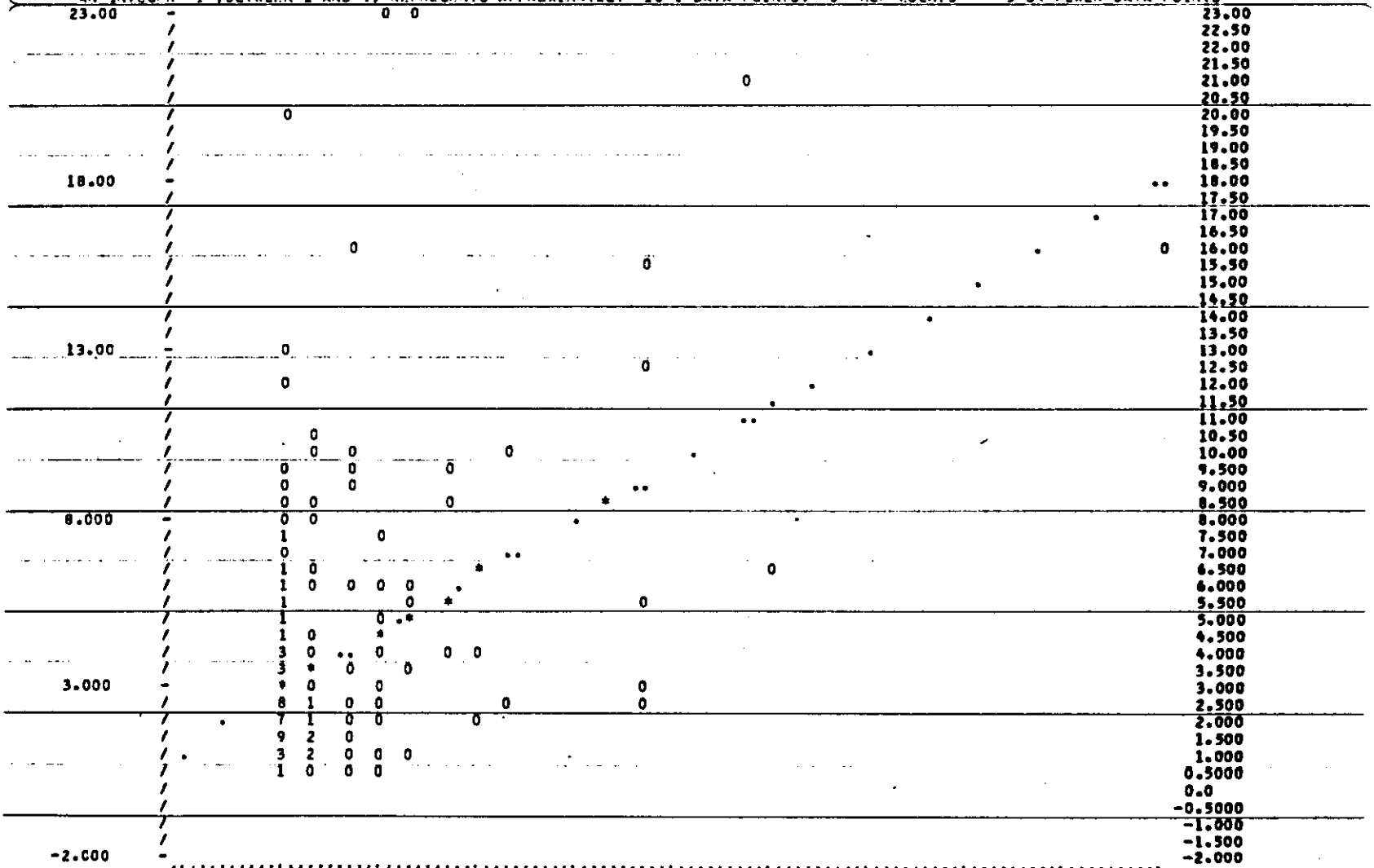
DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
U	P8	2.812	0.6781E-01	51.06	0.2543E-11	0.1341	0.9491E-02	2.813	0.0755

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 4*I DATA POINTS; "0" REPRESENTS 2 OR FEWER DATA POINTS



DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
U	MO	2.371	0.5628	151.9	0.0	0.1307	0.4567E-01	2.824	0.1959

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 10*I DATA POINTS; "0" REPRESENTS 5 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.3000

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
U	CU	3.154	0.1440E-02	45.10	0.4260E-10	0.1160	0.2144E-03	2.826	0.0673

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
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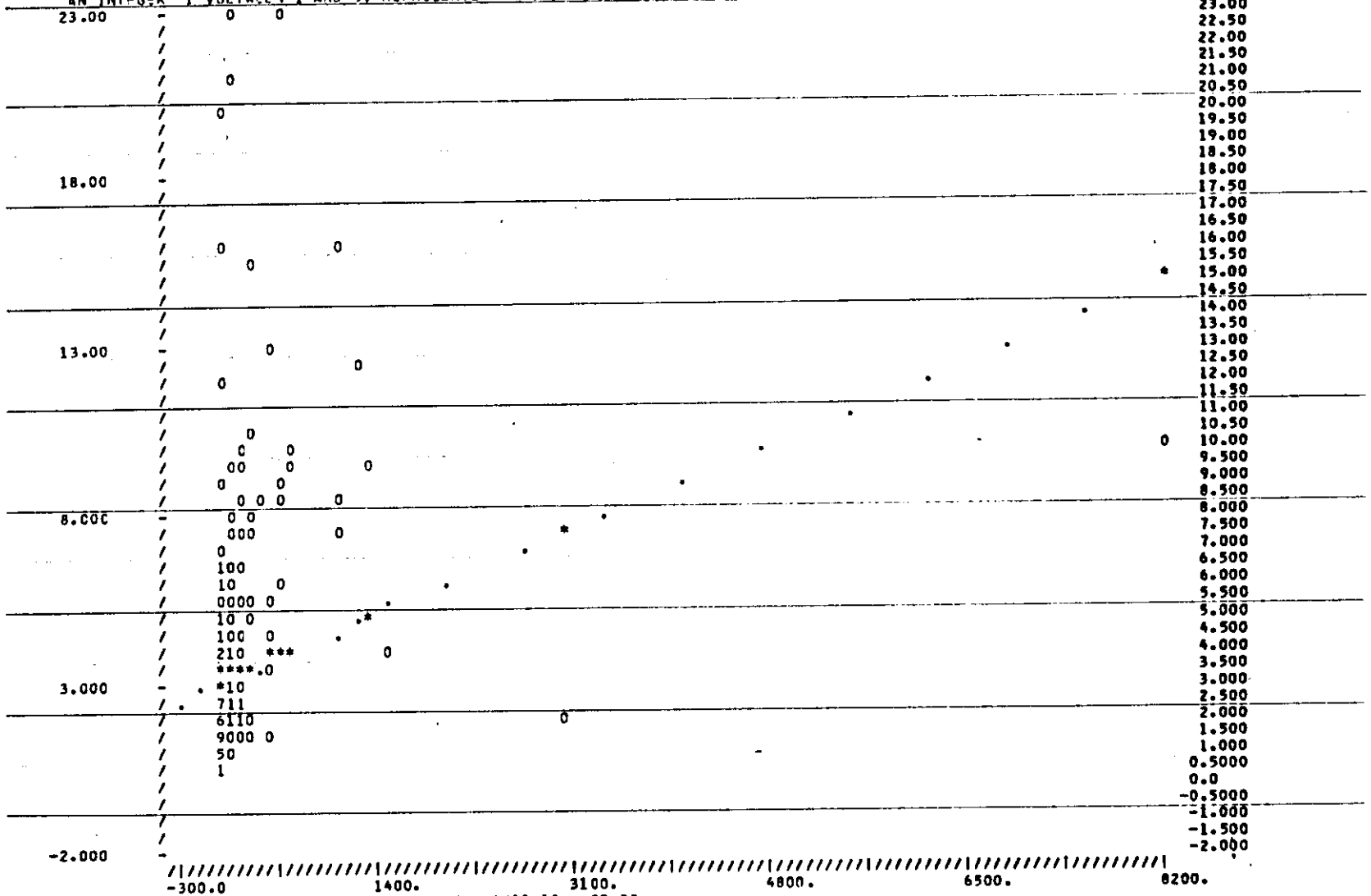
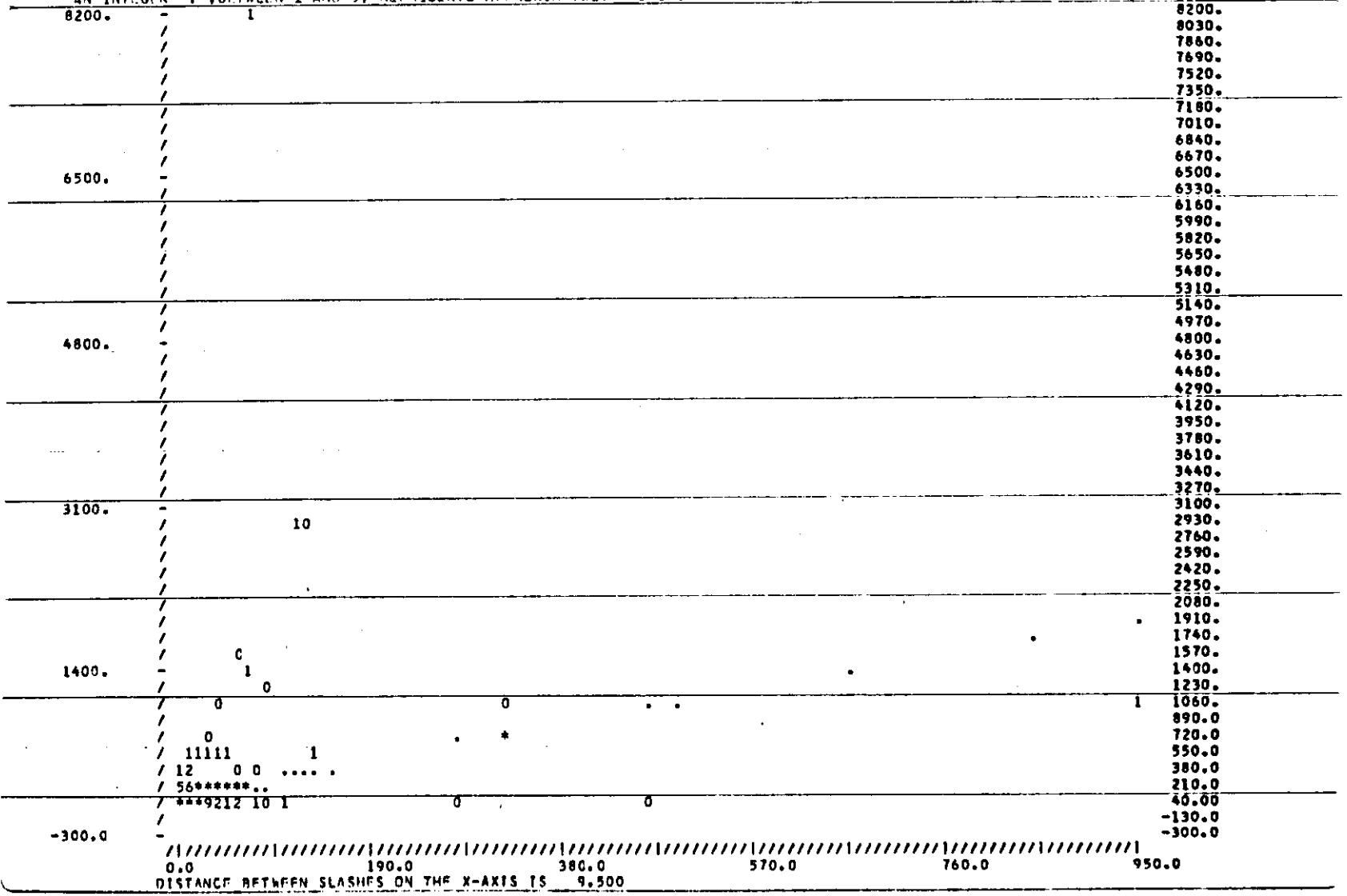


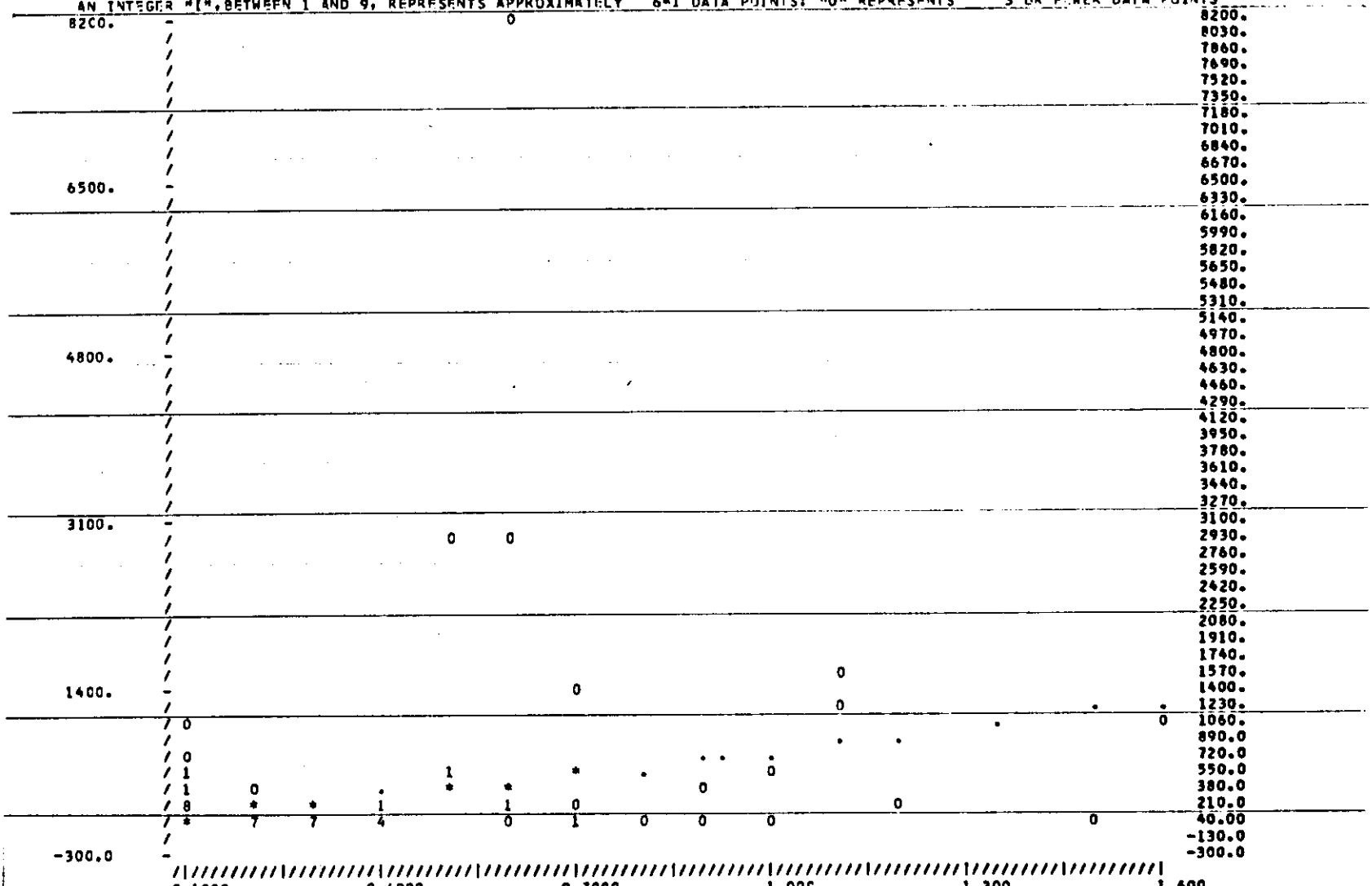
DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
CU	AU	91.34	1.959	33.88	0.9426E-08	21.32	0.3366	513.5	0.0514

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 3*I DATA POINTS; "0" REPRESENTS 1 OR FEWER DATA POINTS



DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
CU	AG	-24.10	809.6	65.26	0.3469E-14	27.27	100.2	501.7	0.0945

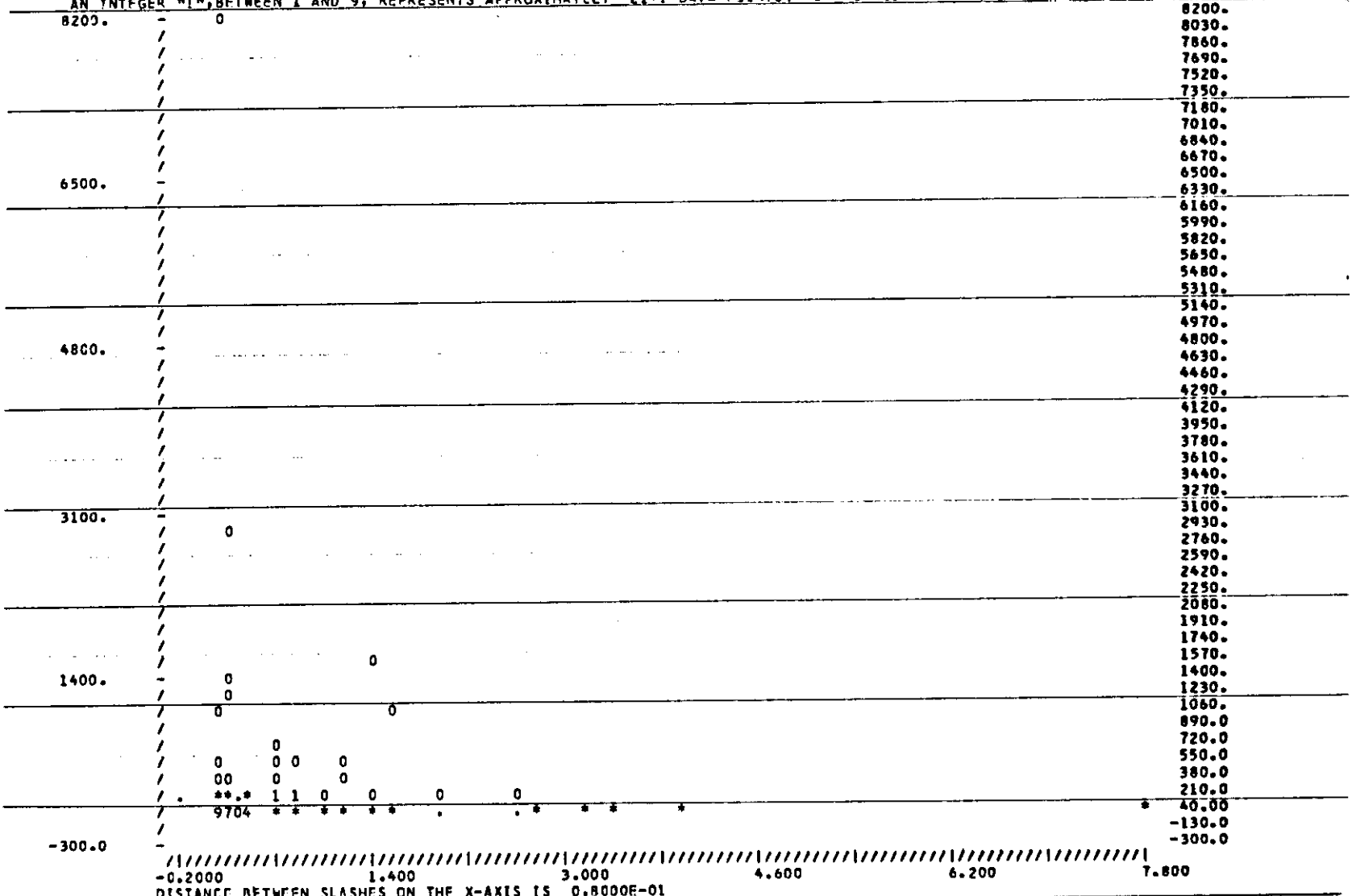
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 6*I DATA POINTS; "0" REPRESENTS 3 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.1500E-01

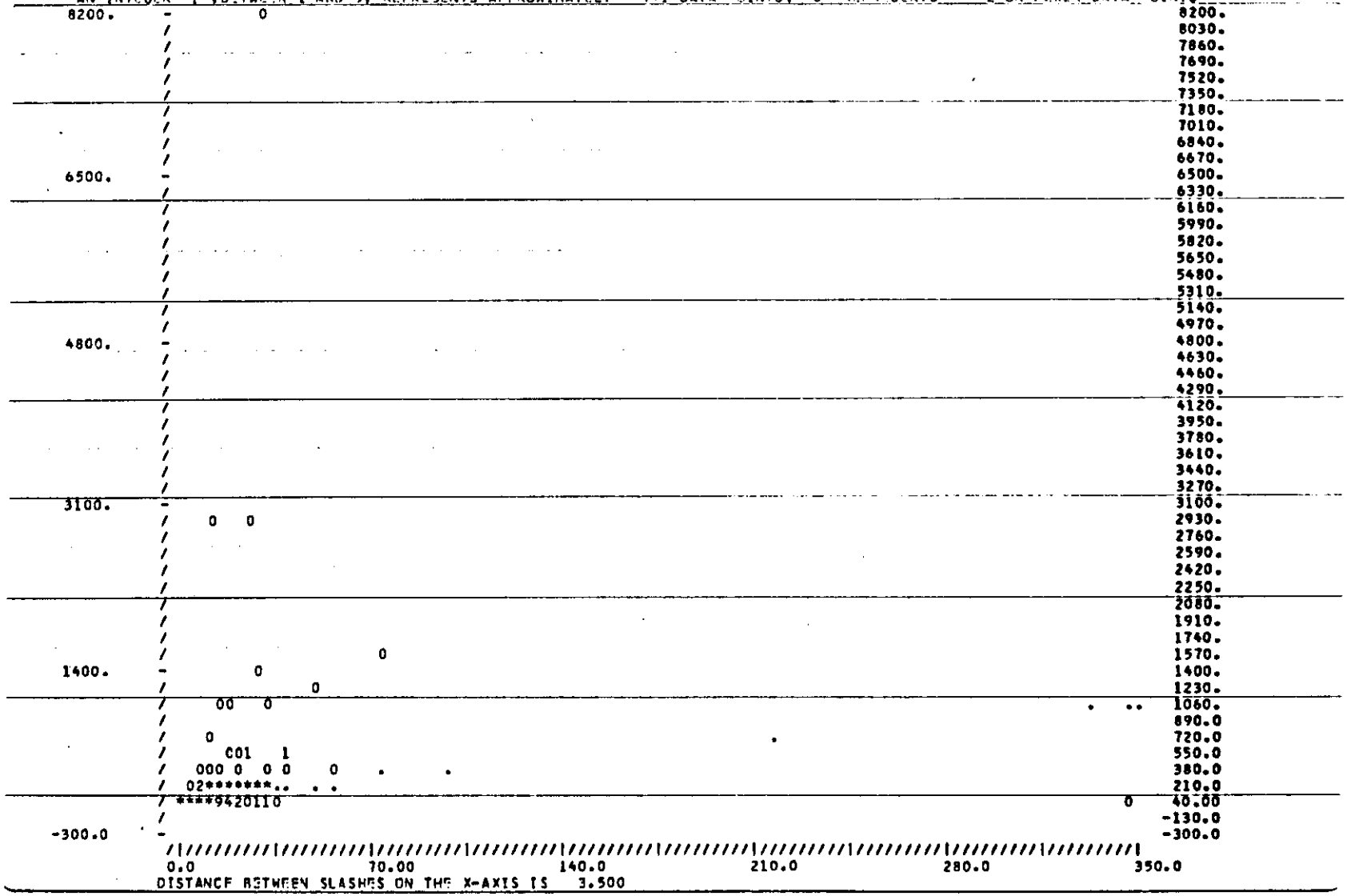
DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
CU	BI	126.8	-4.087	0.1086E-01	0.9170	25.60	39.21	527.2	0.0000

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 21*I DATA POINTS; "0" REPRESENTS 10 OR FEWER DATA POINTS



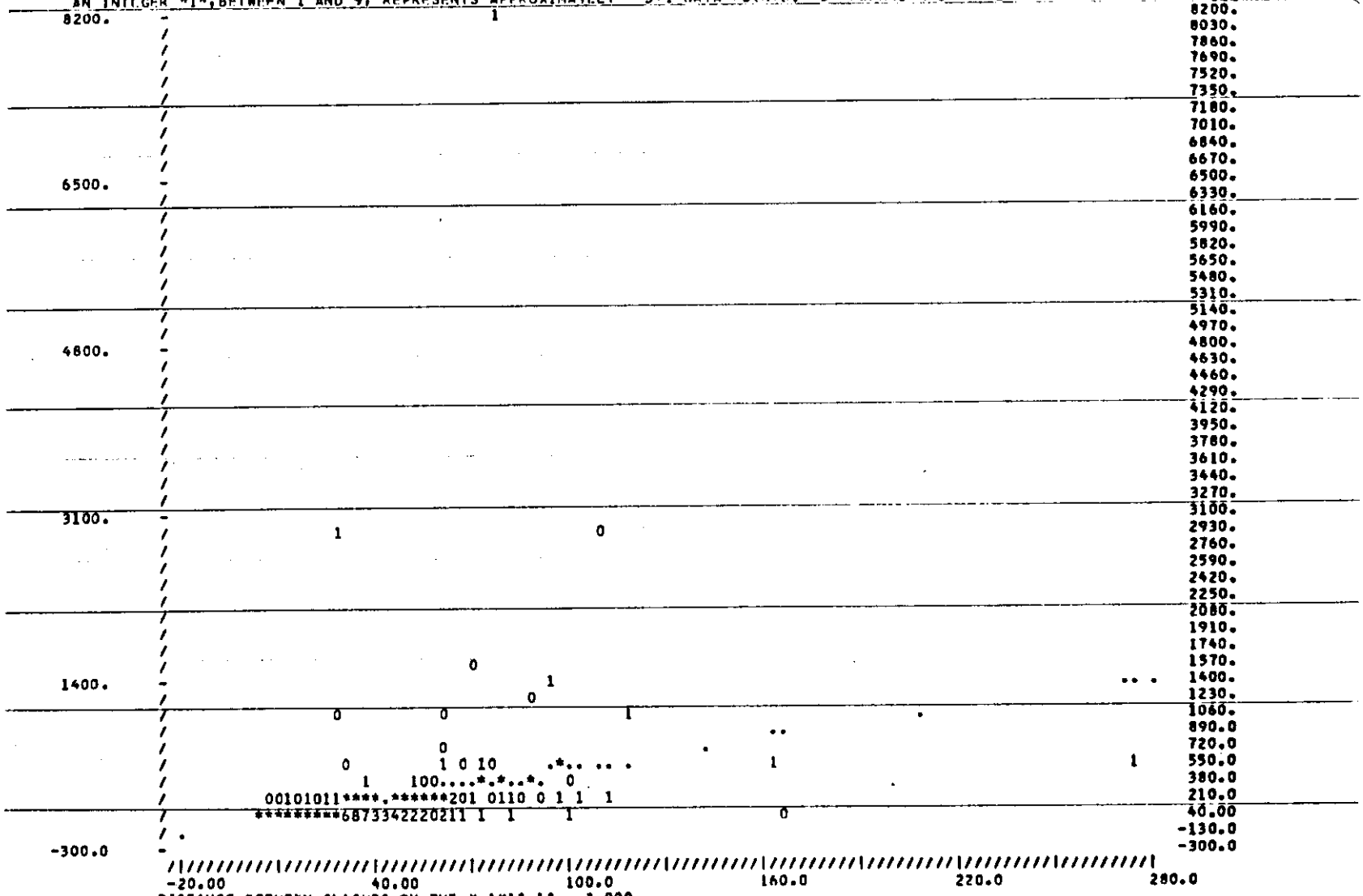
DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
CU	AS	91.38	2.912	8.003	0.4821E-02	24.11	1.029	523.9	0.0126

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "," AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 4*I DATA POINTS; "0" REPRESENTS 2 OR FEWER DATA POINTS



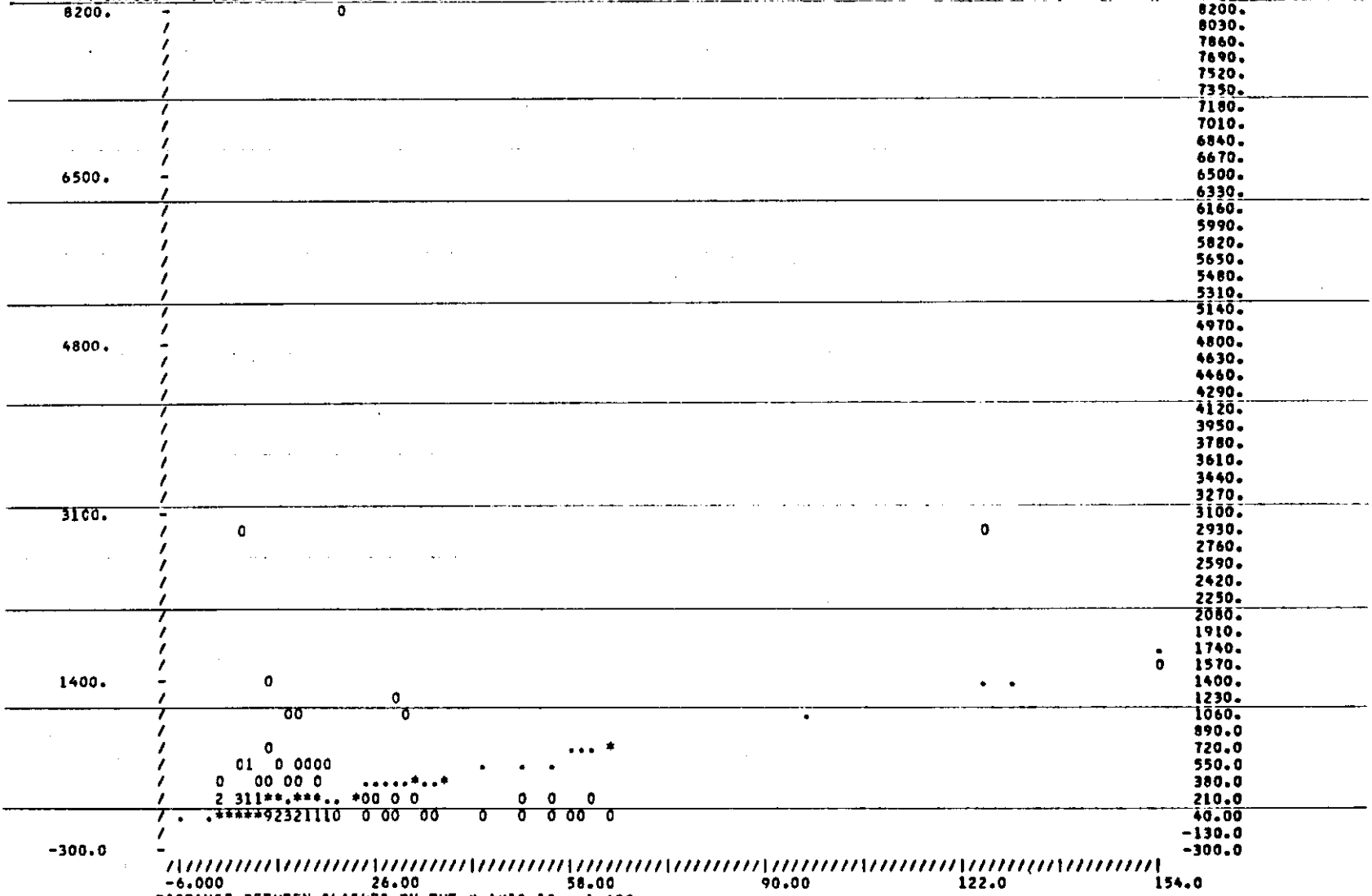
DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
CU	CO	-31.15	5.270	52.72	0.1163E-11	29.55	0.7258	506.3	0.0778

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 3*I DATA POINTS; "0" REPRESENTS 1 OR FEWER DATA POINTS



DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
CU	PB	44.47	10.49	36.84	0.2238E-08	24.41	1.728	512.3	0.0557

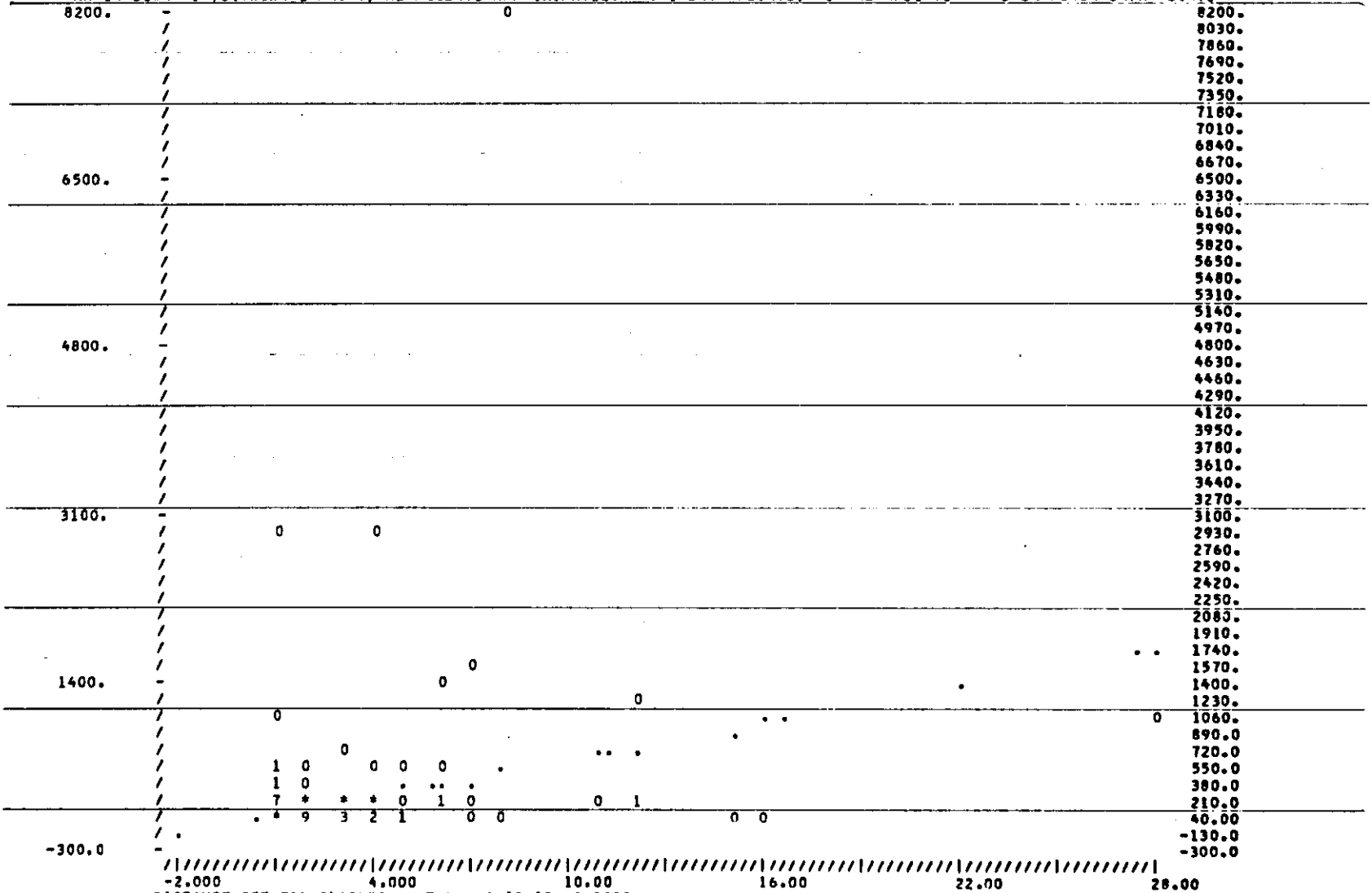
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 7*I DATA POINTS; "0" REPRESENTS 3 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 1.600

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(8)	FPROB(8)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
CU	MO	17.18	63.18	51.32	0.2246E-11	25.25	8.819	506.8	0.0759

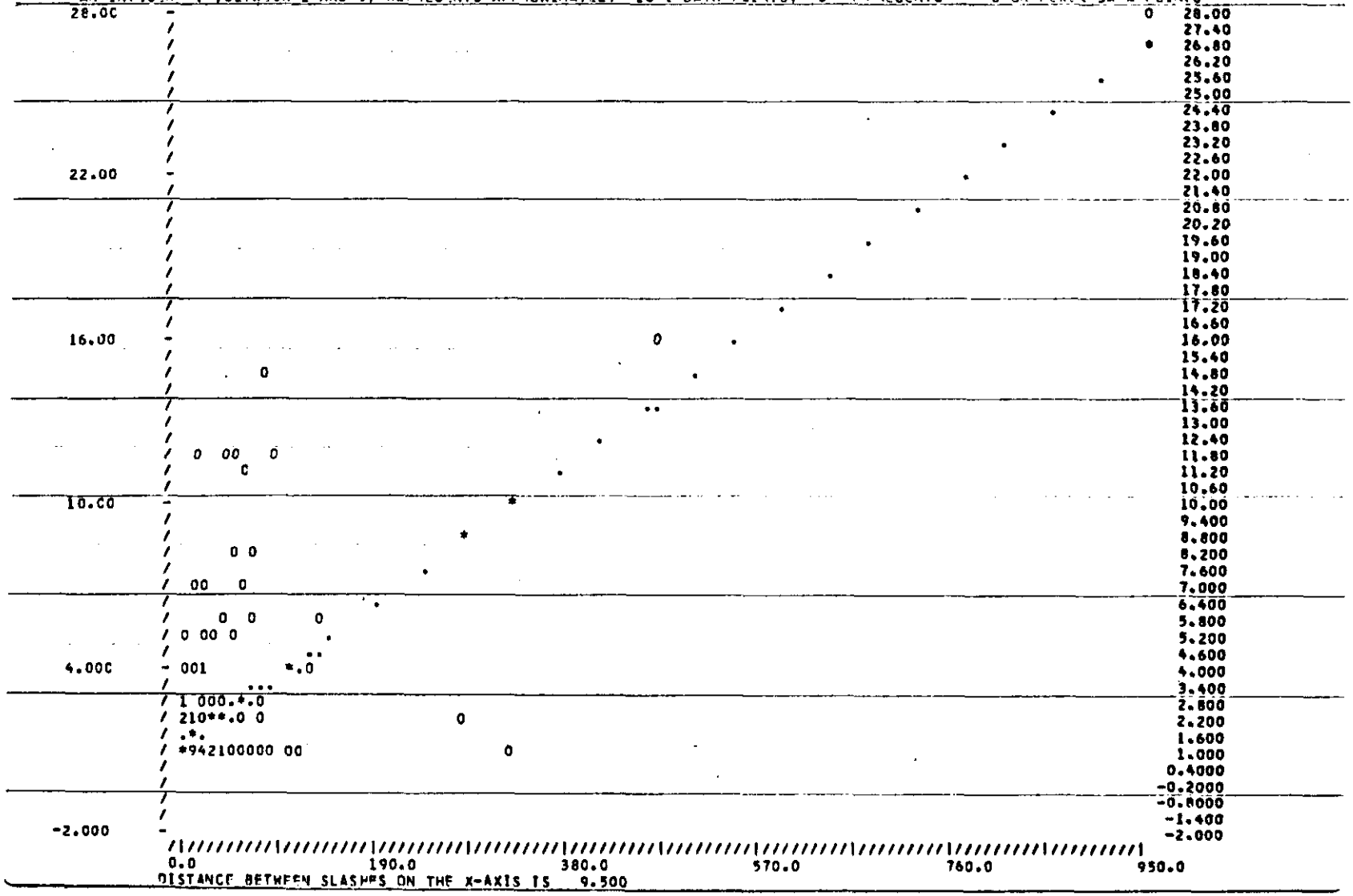
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 7*I DATA POINTS; "0" REPRESENTS 3 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.3000

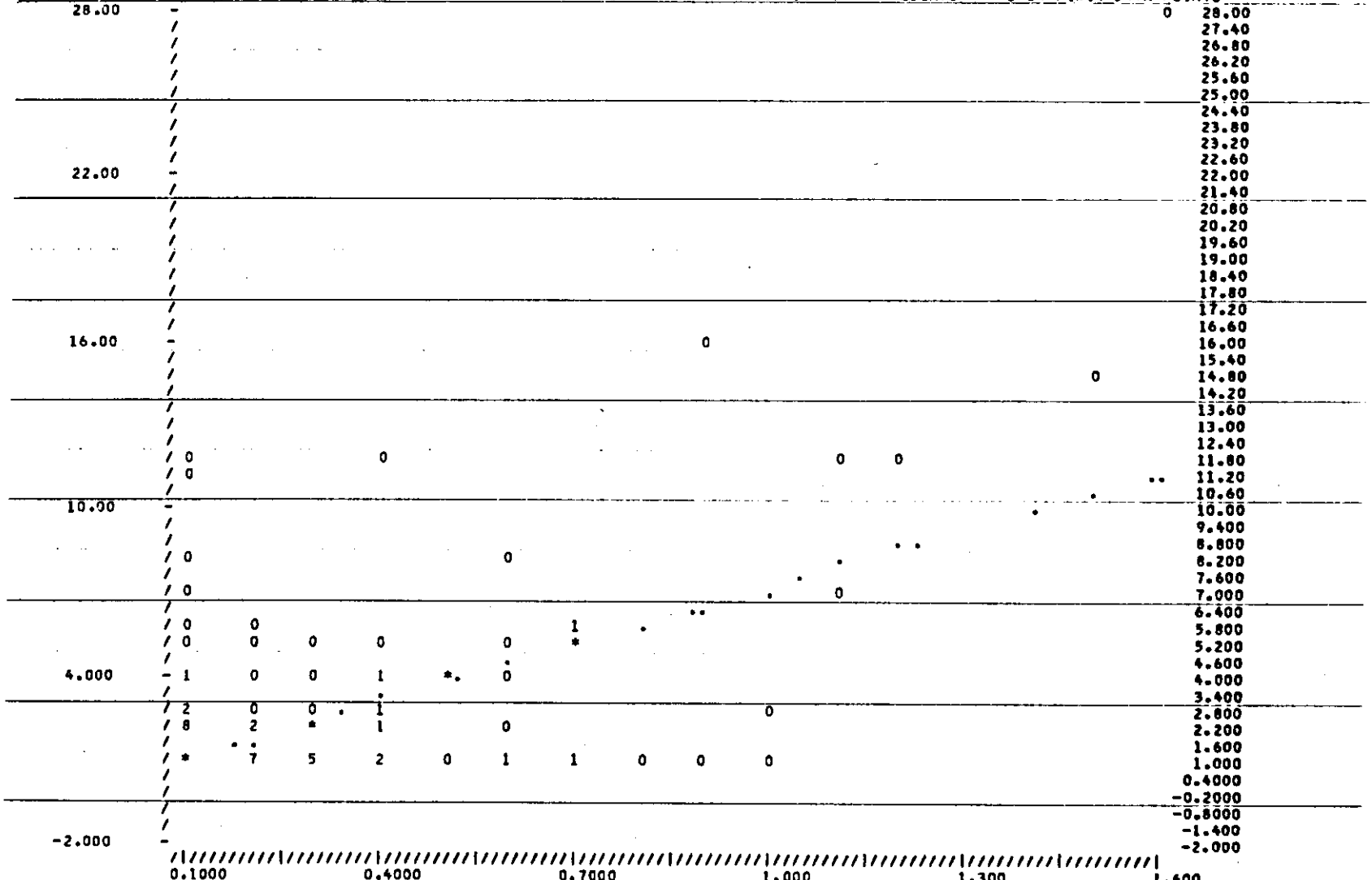
DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(8)	FPROB(8)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
MO	AU	1.243	0.2704E-01	663.6	0.0	0.6647E-01	0.1050E-02	1.601	0.5150

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 16*I DATA POINTS; "0" REPRESENTS 8 OR FEWER DATA POINTS



DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
MD	AG	0.4581	6.792	336.5	0.0	0.1007	0.3702	1.853	0.3500

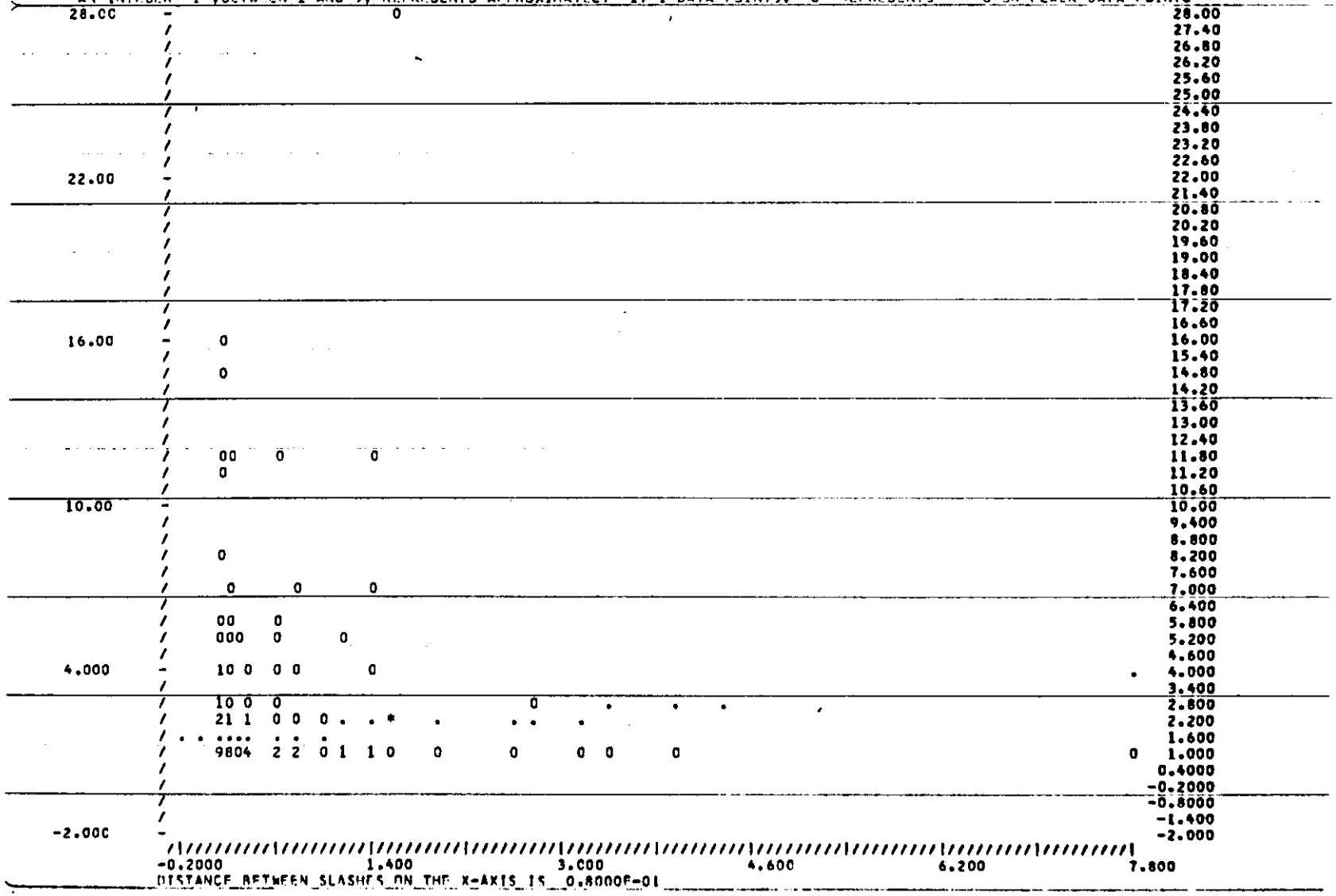
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 6*I DATA POINTS; "0" REPRESENTS 3 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.1500E-01

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
MO	B1	1.610	0.2716	2.534	0.1119	0.1114	0.1706	2.294	0.0040

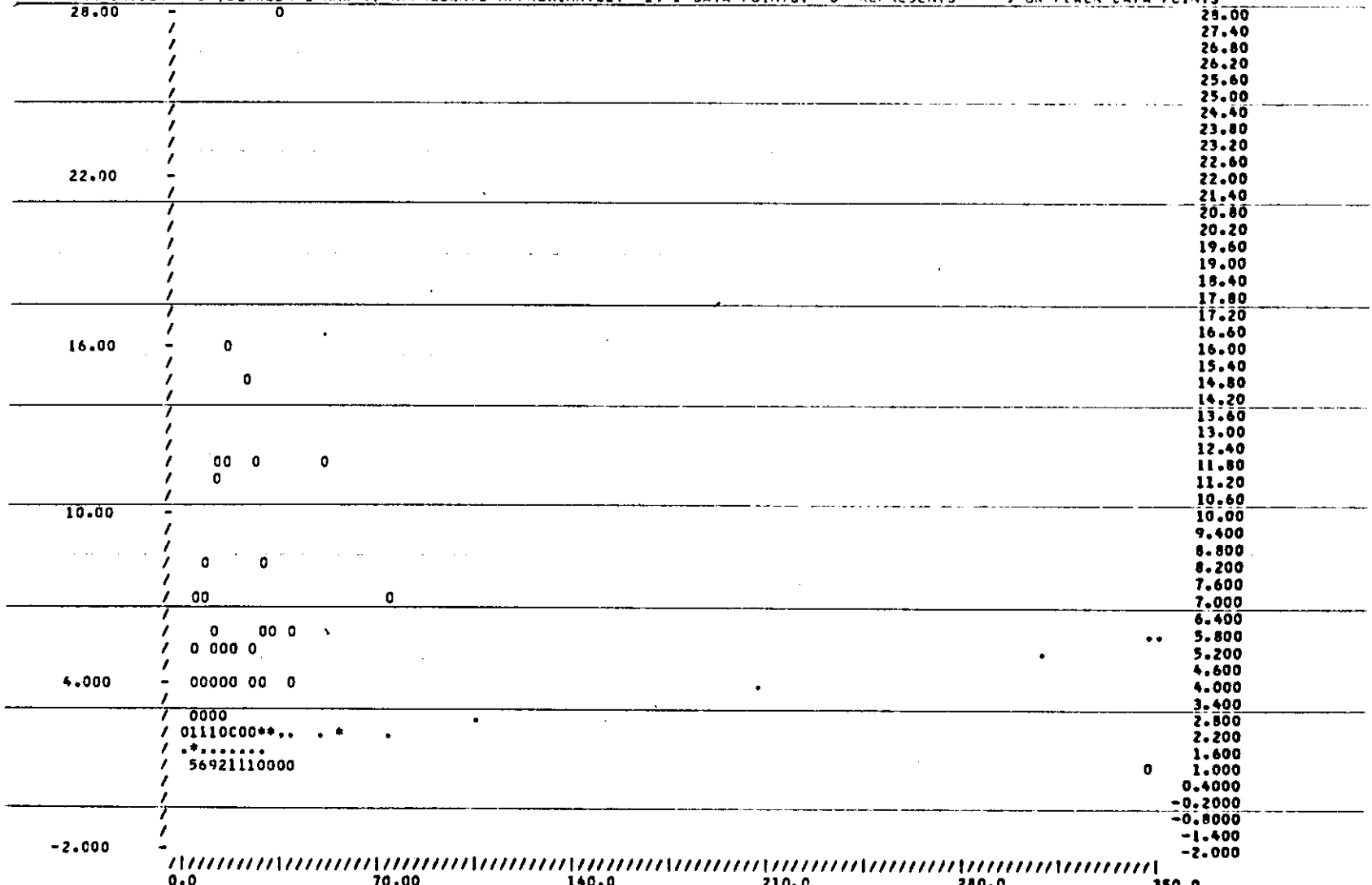
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 17*I DATA POINTS; "0" REPRESENTS 8 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.8000E-01

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
MO	AS	1.574	0.1182E-01	6.929	0.8691E-02	0.1052	0.4491E-02	2.286	0.0110

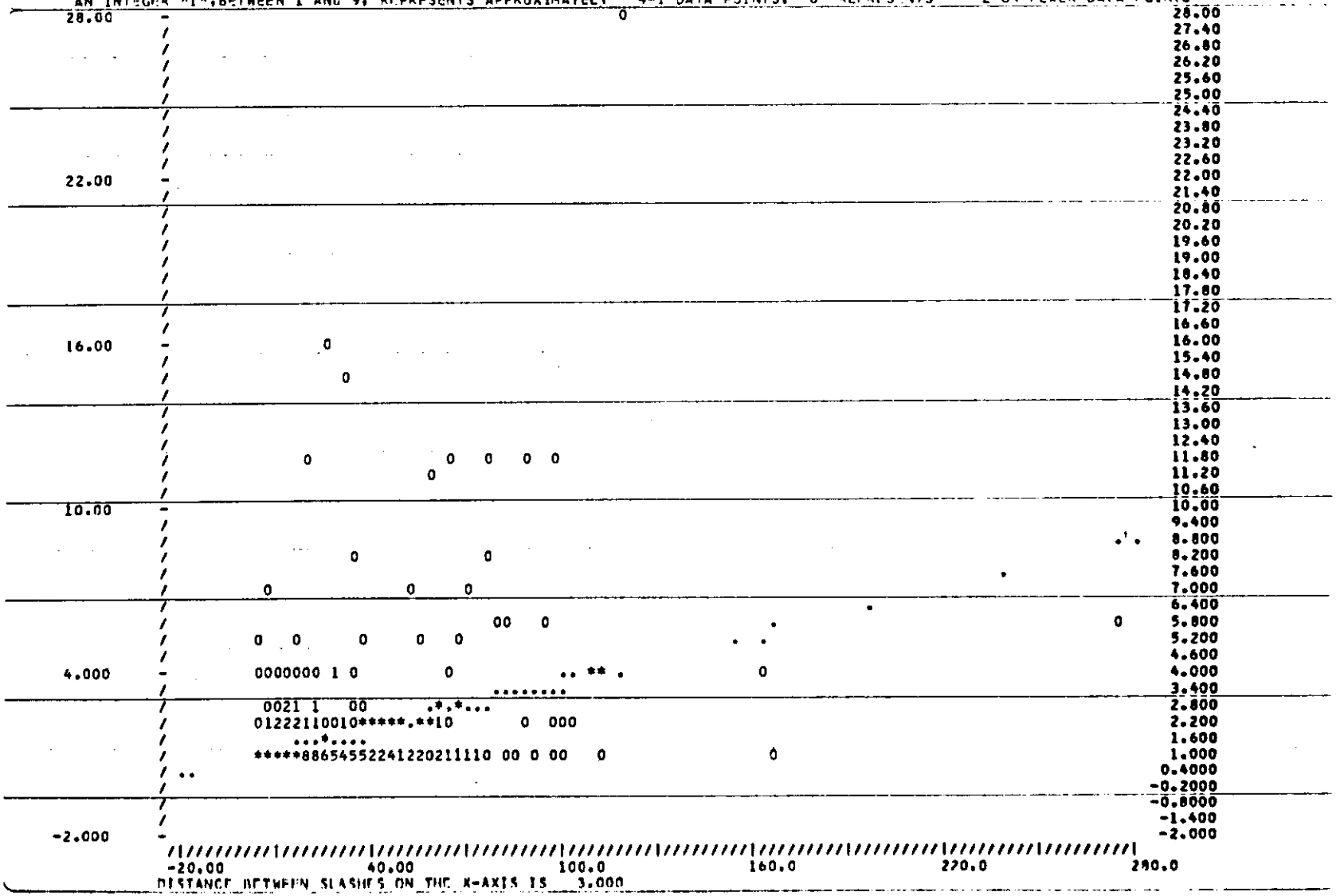
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 19*I DATA POINTS; "0" REPRESENTS 9 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 3.500

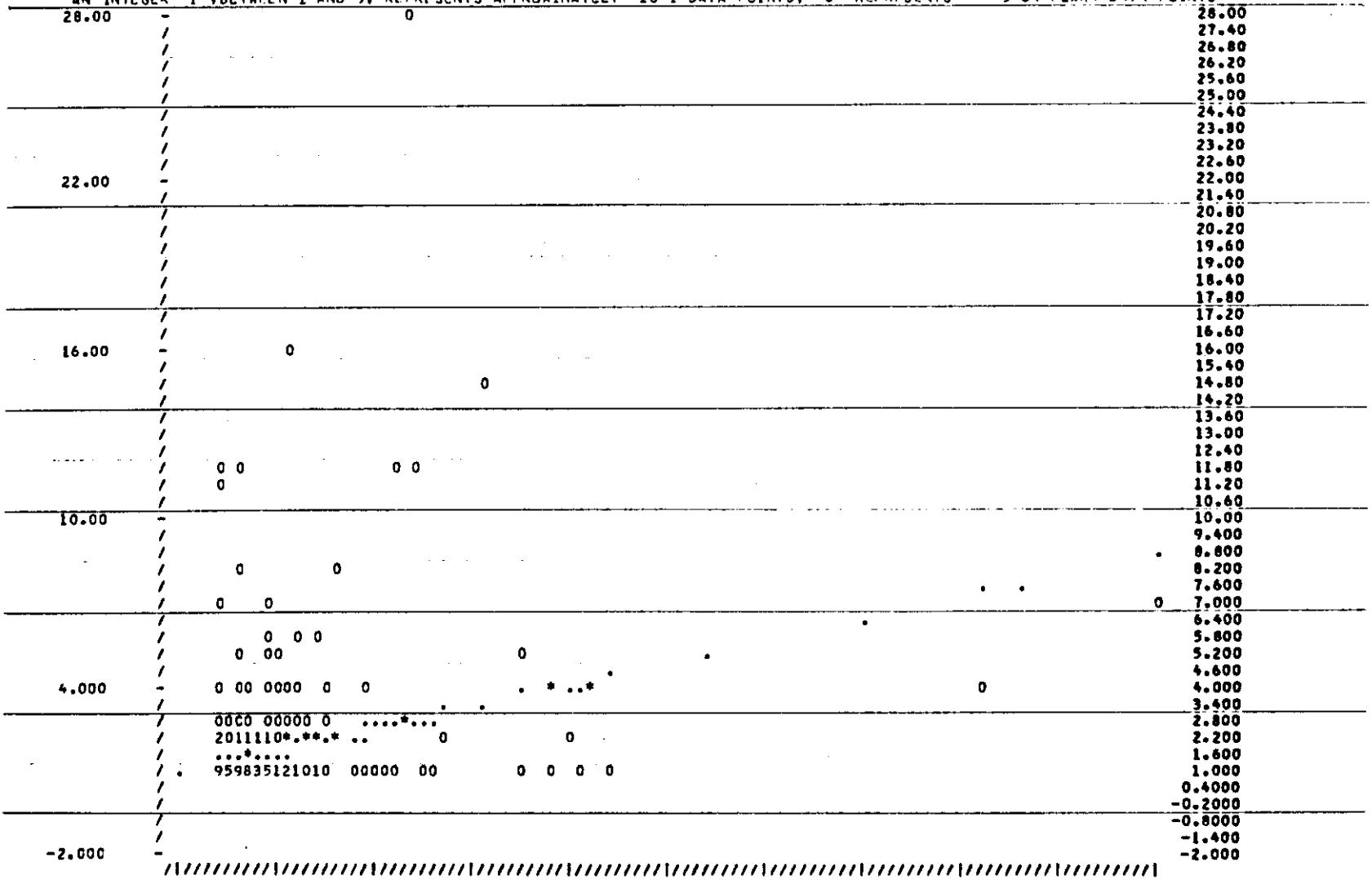
DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
MO	CO	0.8711	0.2830E-01	83.64	0.0	0.1260	0.3095E-02	2.159	0.1180

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 4*I DATA POINTS; "0" REPRESENTS 2 OR FEWER DATA POINTS



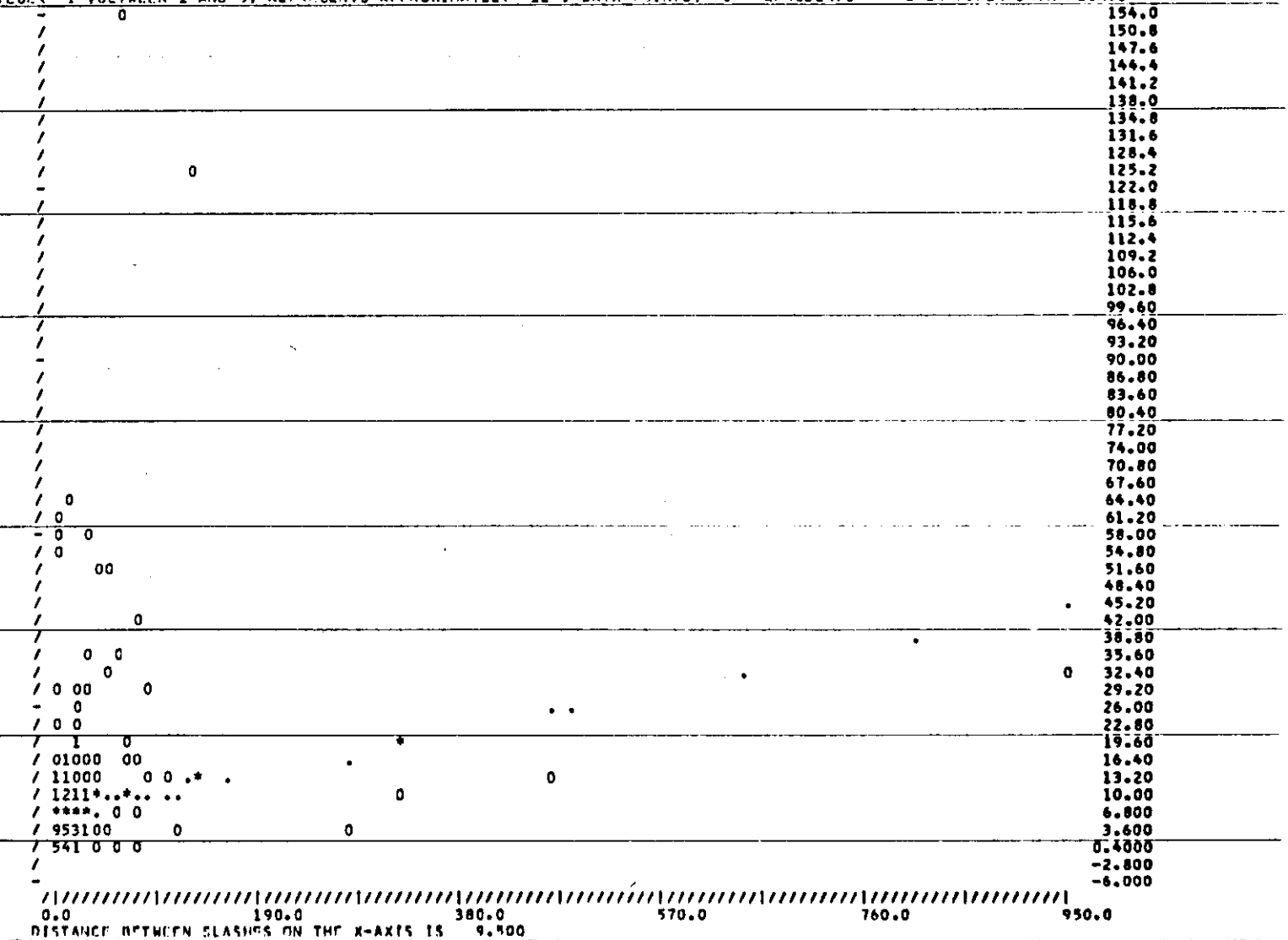
DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
MO	PB	1.343	0.4782E-01	40.50	0.3834E-09	0.1062	0.7515E-02	2.228	0.0609

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 10*I DATA POINTS; "O" REPRESENTS 5 OR FEWER DATA POINTS



DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
PB	AU	7.026	0.3916E-01	26.45	0.3626E-06	0.4822	0.7614E-02	11.61	0.0406

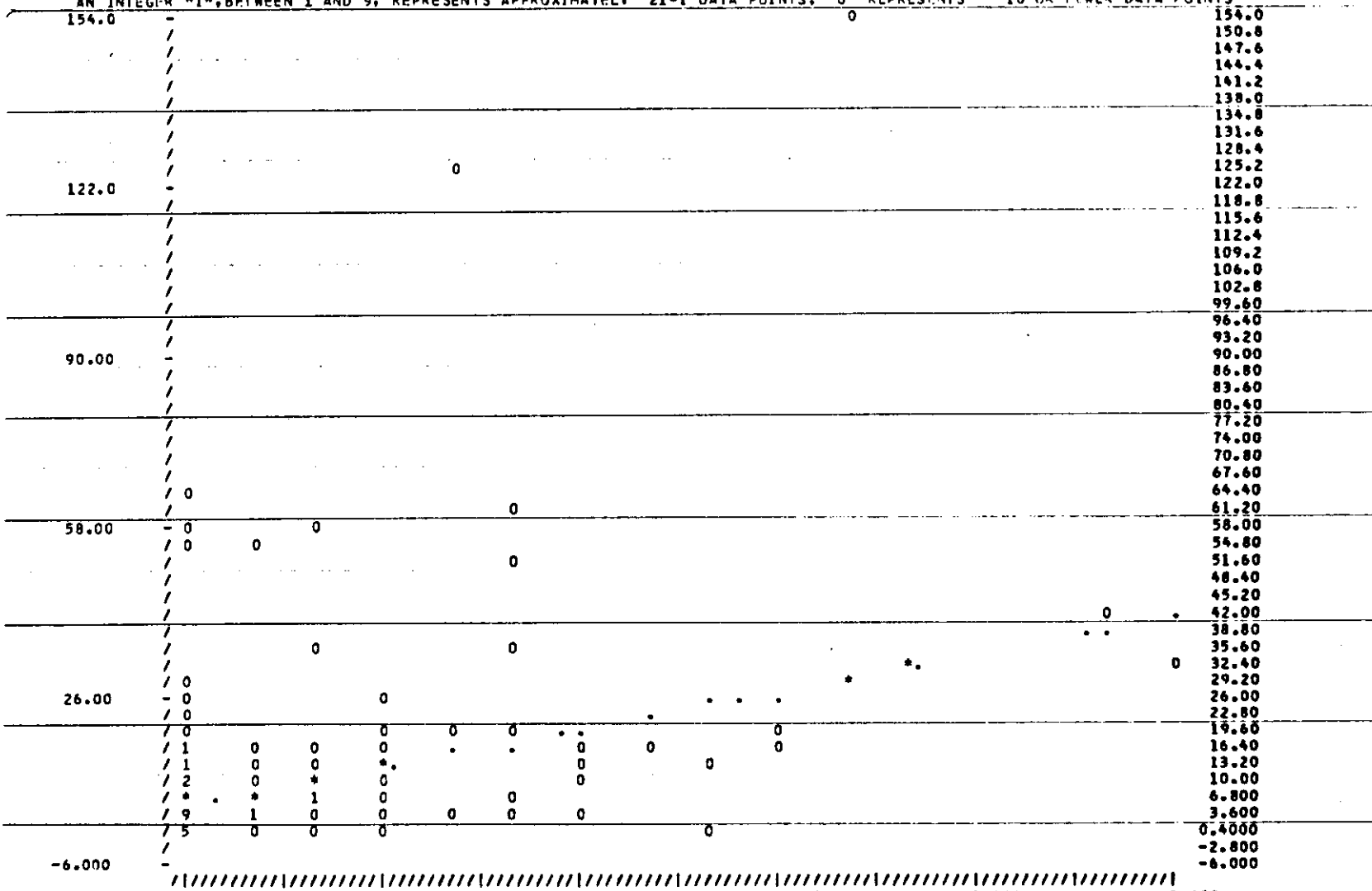
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 12*I DATA POINTS; "0" REPRESENTS 6 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 9.500

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
PB	AG	3.232	24.24	125.8	0.0	0.5880	2.161	10.82	0.1676

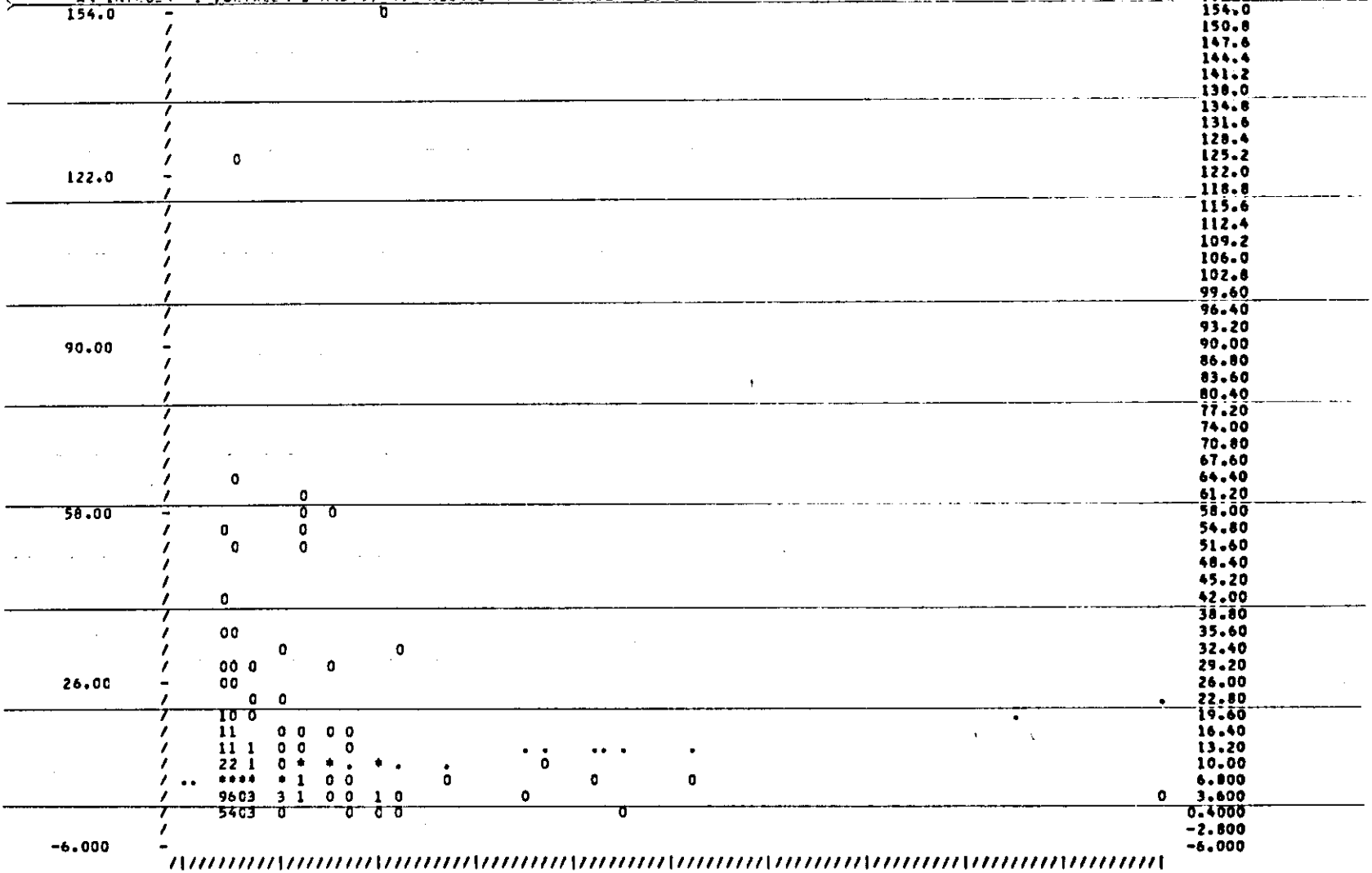
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 21*I DATA POINTS; "0" REPRESENTS 10 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.1500E-01

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
P8	B1	6.992	1.920	4.776	0.2924E-01	0.5735	0.8785	11.81	0.0076

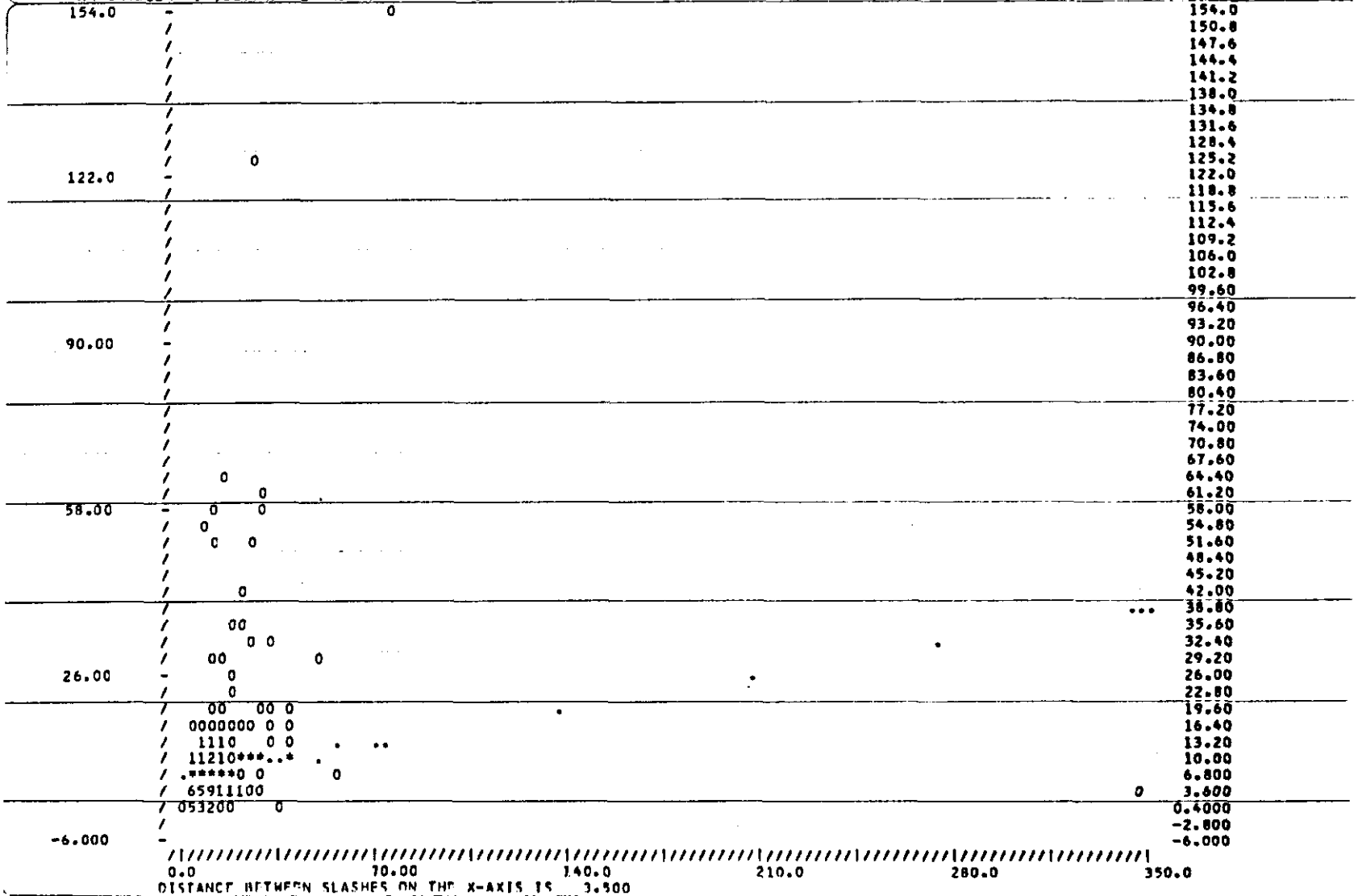
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "," AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 10*I DATA POINTS; "0" REPRESENTS 5 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.8000E-01

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
PB	AS	6.609	0.9406E-01	16.74	0.4848E-04	0.5386	0.2299E-01	11.70	0.0261

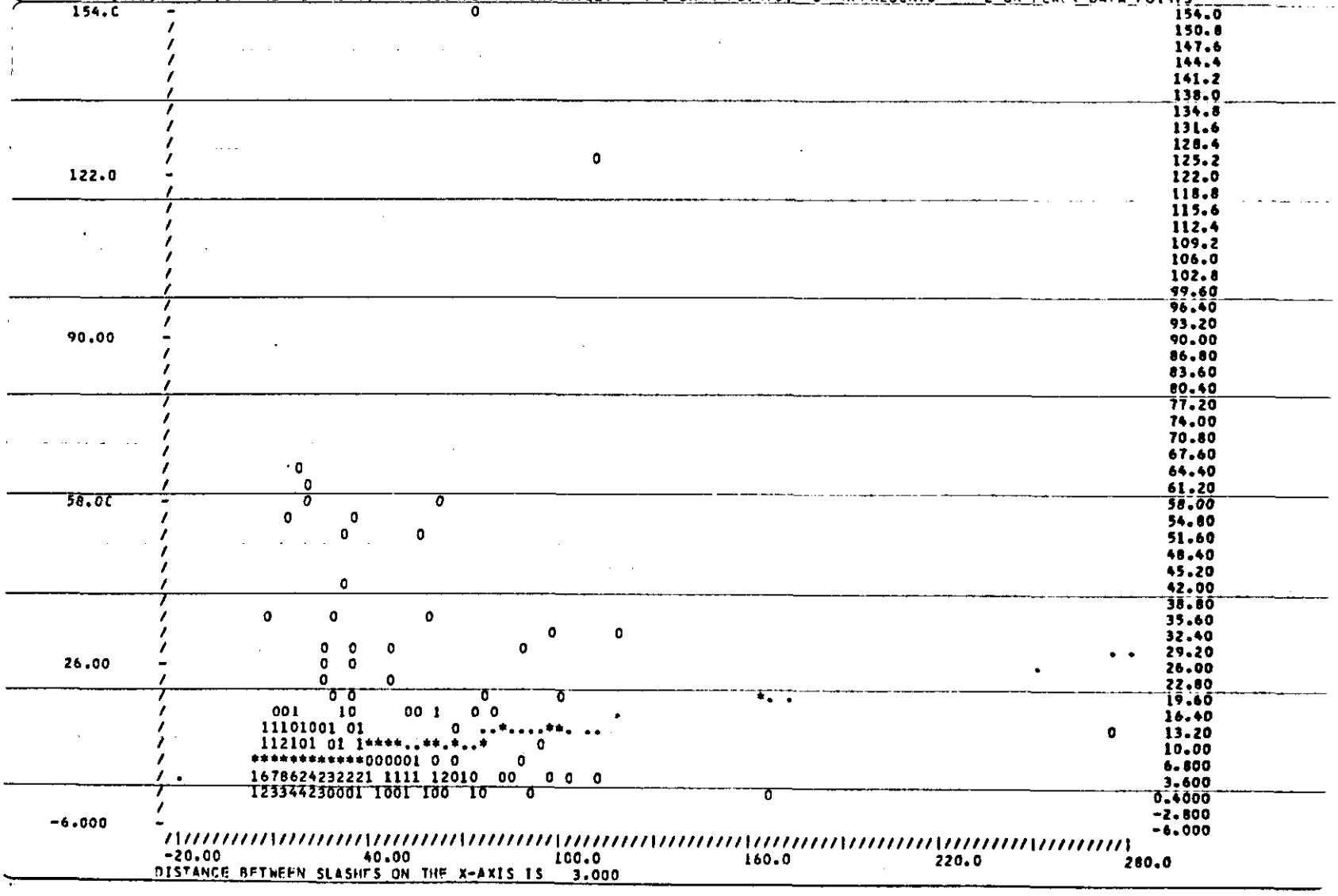
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 10*I DATA POINTS; "0" REPRESENTS 5 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 3.500

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
PB	CO	5.242	0.8298E-01	24.77	0.8362E-06	0.6787	0.1667E-01	11.63	0.0381

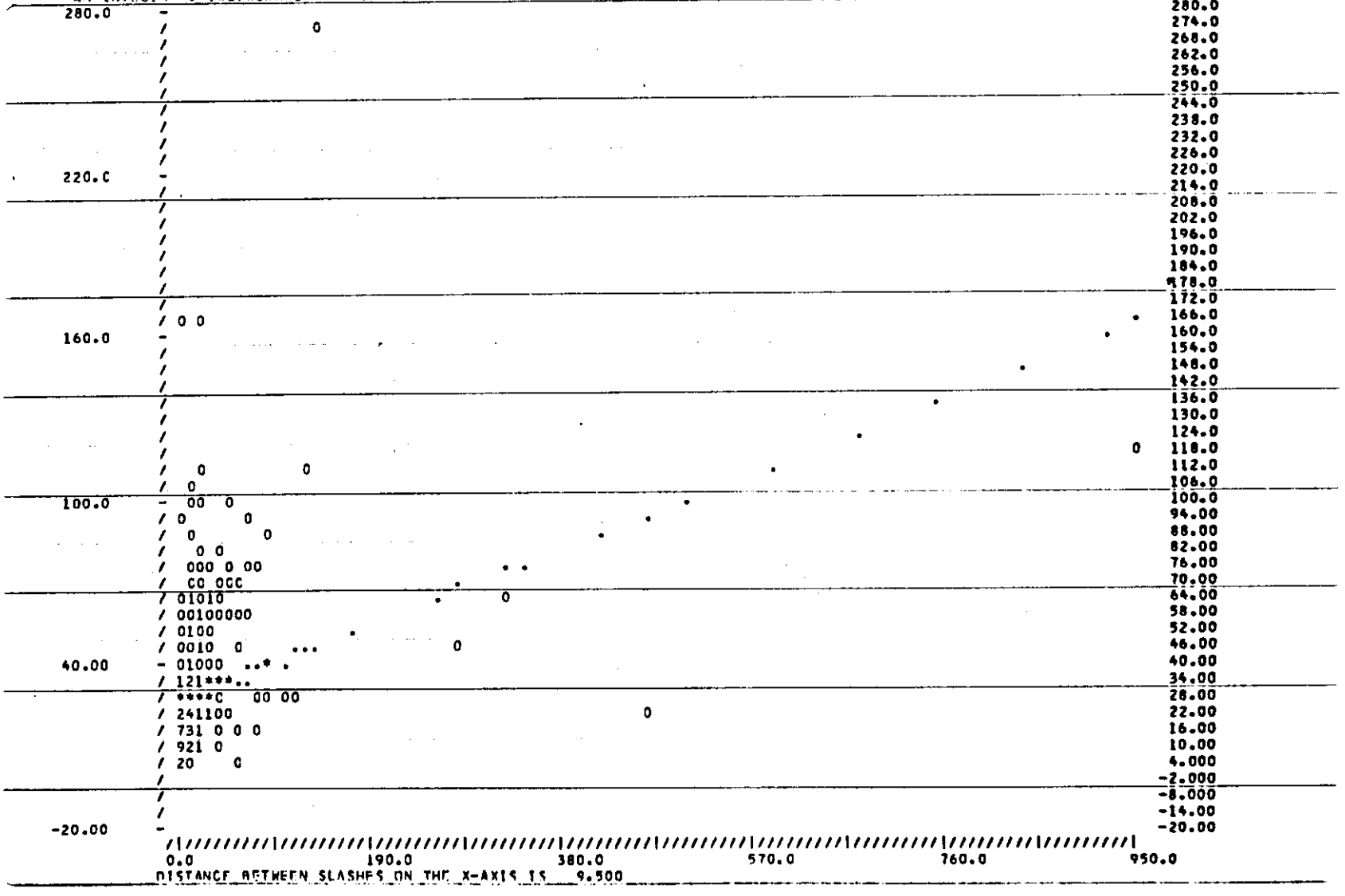
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 4*I DATA POINTS; "0" REPRESENTS 2 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 3.000

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
CO	AU	27.18	0.1442	69.06	0.6106E-15	1.099	0.1736E-01	26.48	0.0995

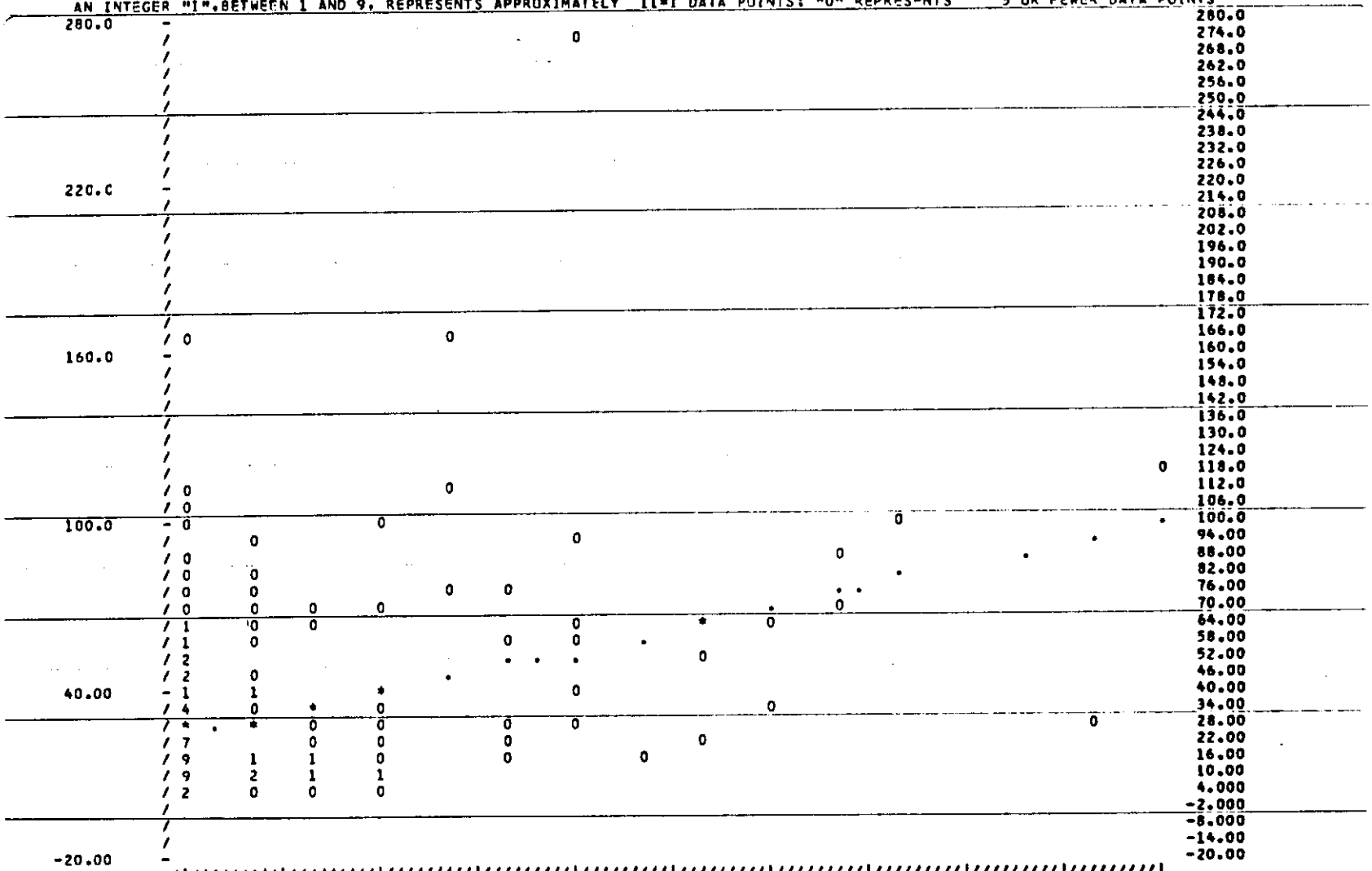
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 11*I DATA POINTS; "O" REPRESENTS 5 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 9.500

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
CO	AG	20.71	48.62	86.64	0.0	1.421	5.223	26.15	0.1217

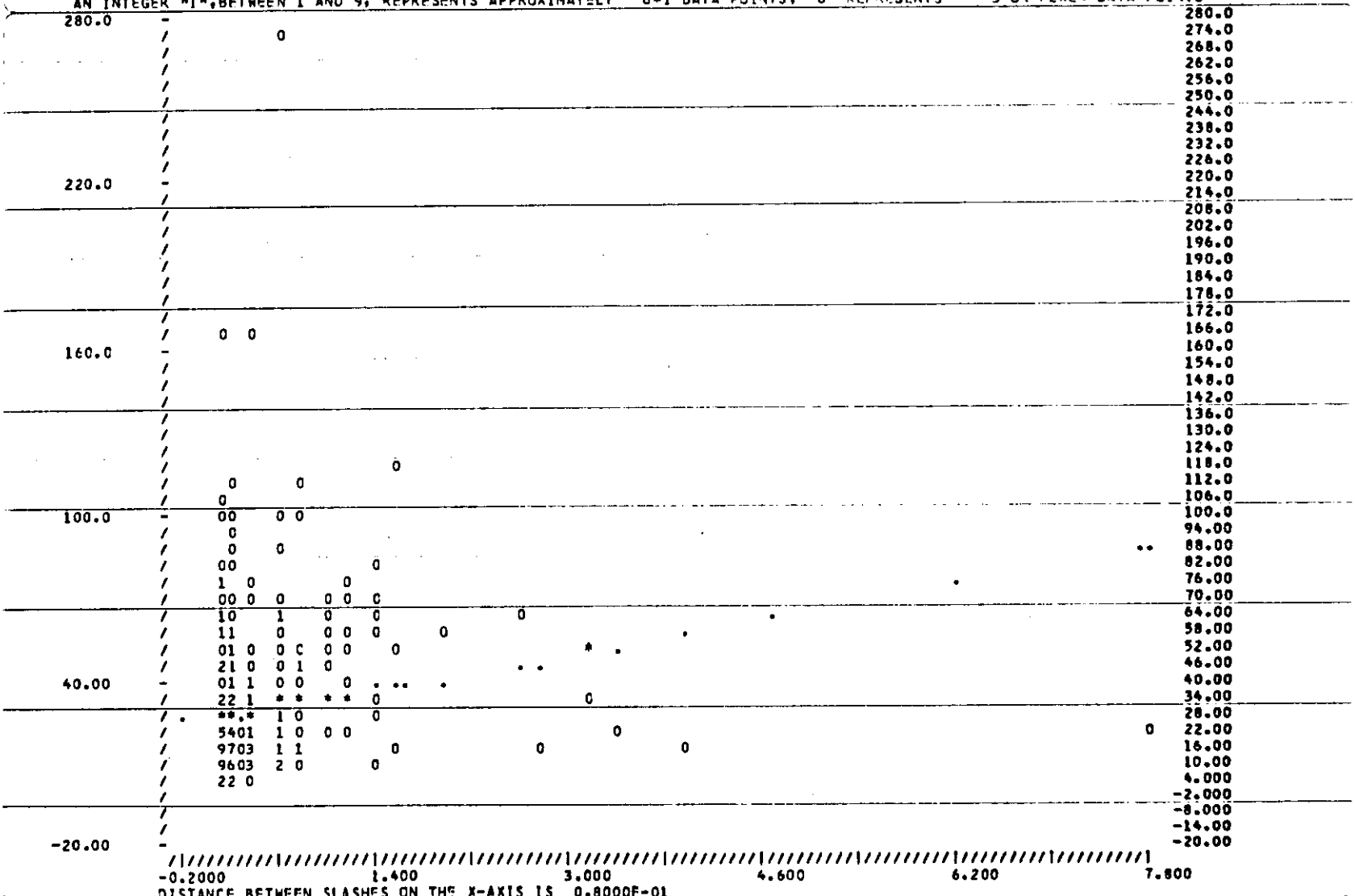
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY I1*I DATA POINTS; "0" REPRESENTS 5 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.1500E-01

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
CO	BI	26.73	7.949	15.03	0.1173E-03	1.339	2.051	27.57	0.0235

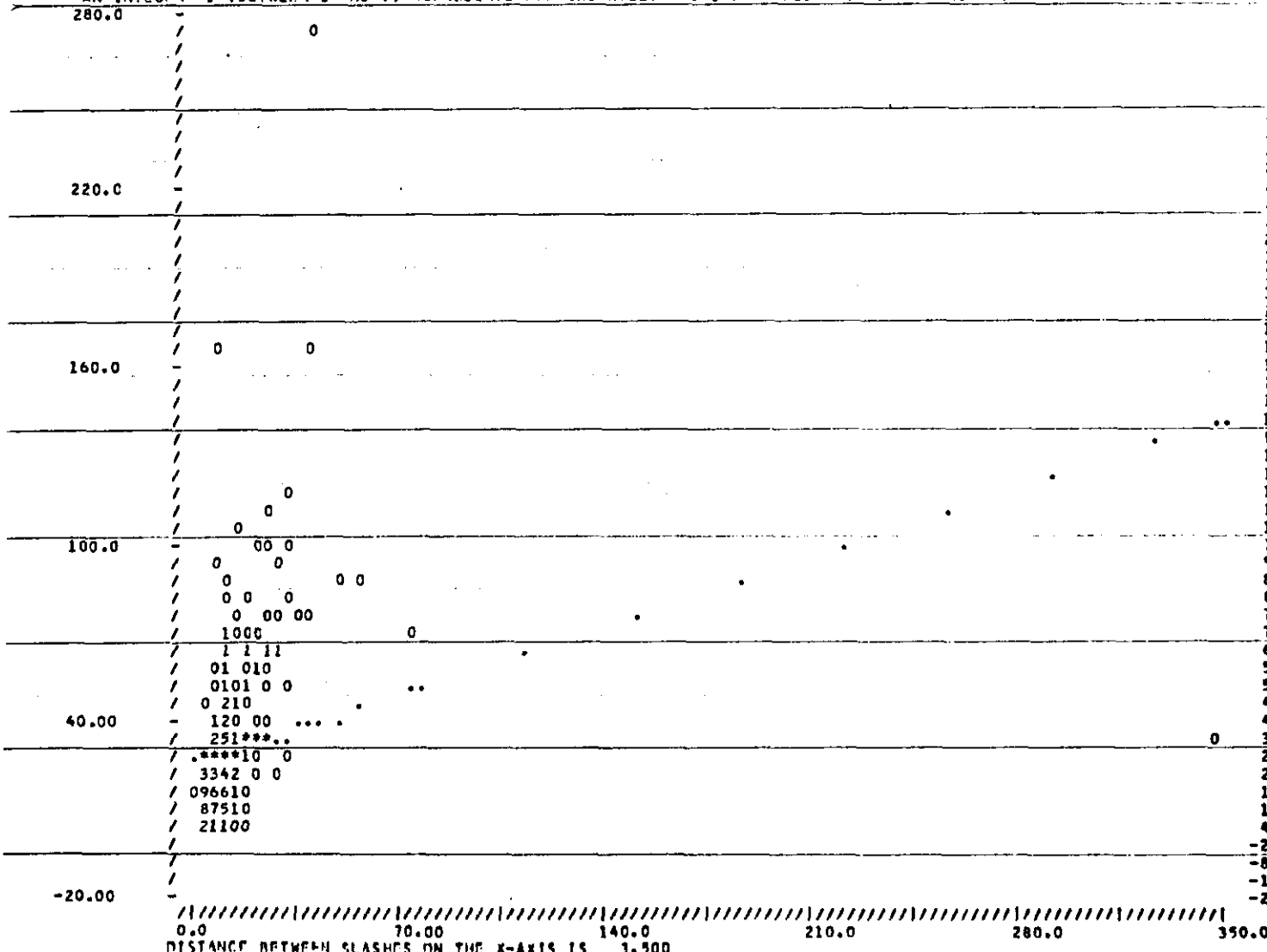
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 6*I DATA POINTS; "0" REPRESENTS 3 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.8000E-01

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
CO	AS	25.76	0.3372	40.29	0.4244E-09	1.245	0.5313E-01	27.04	0.0606

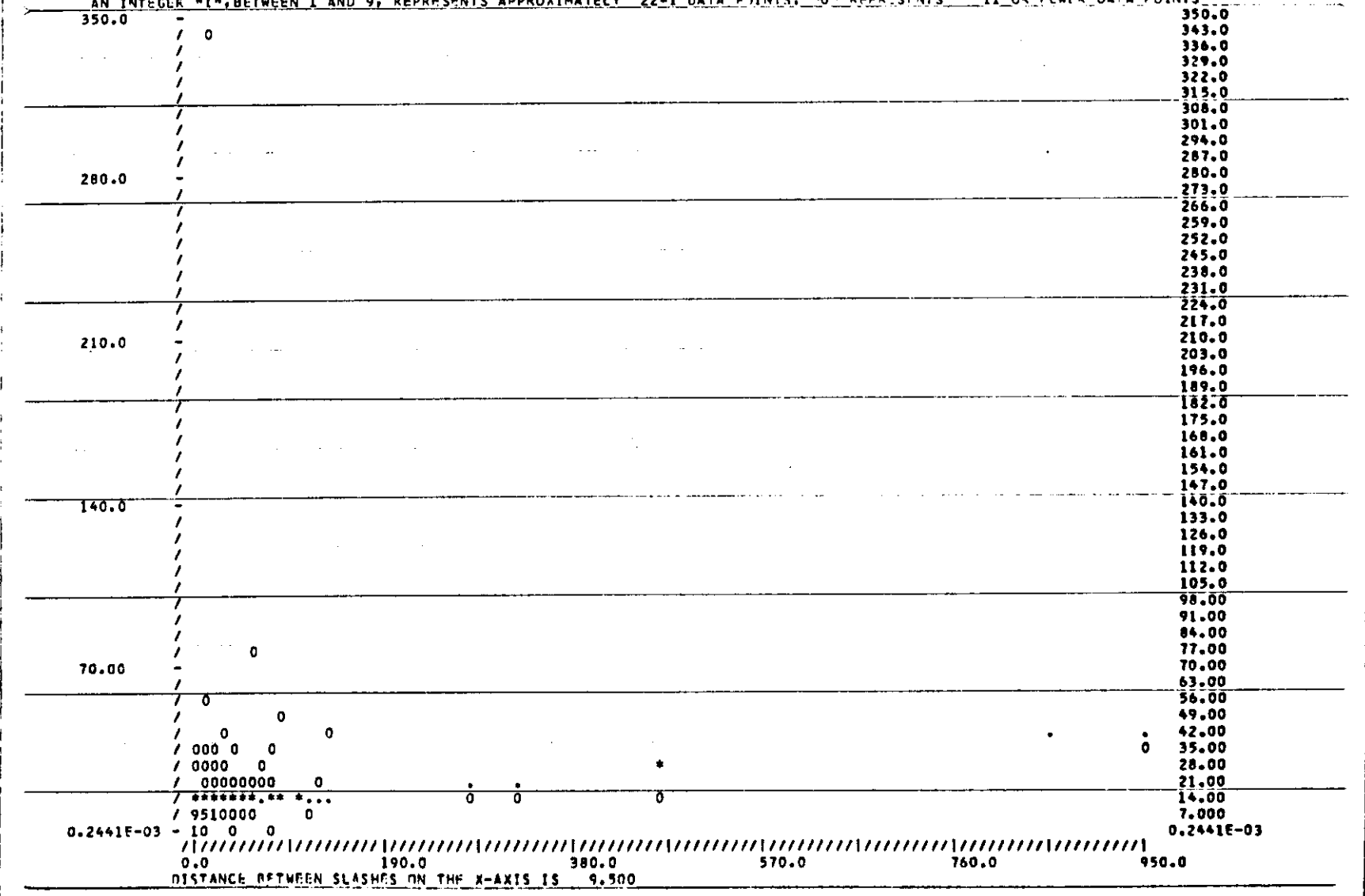
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 6*I DATA POINTS; "O" REPRESENTS 3 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 3.500

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
AS	AU	11.02	0.3627E-01	7.472	0.6445E-02	0.8404	0.1327E-01	20.24	0.0118

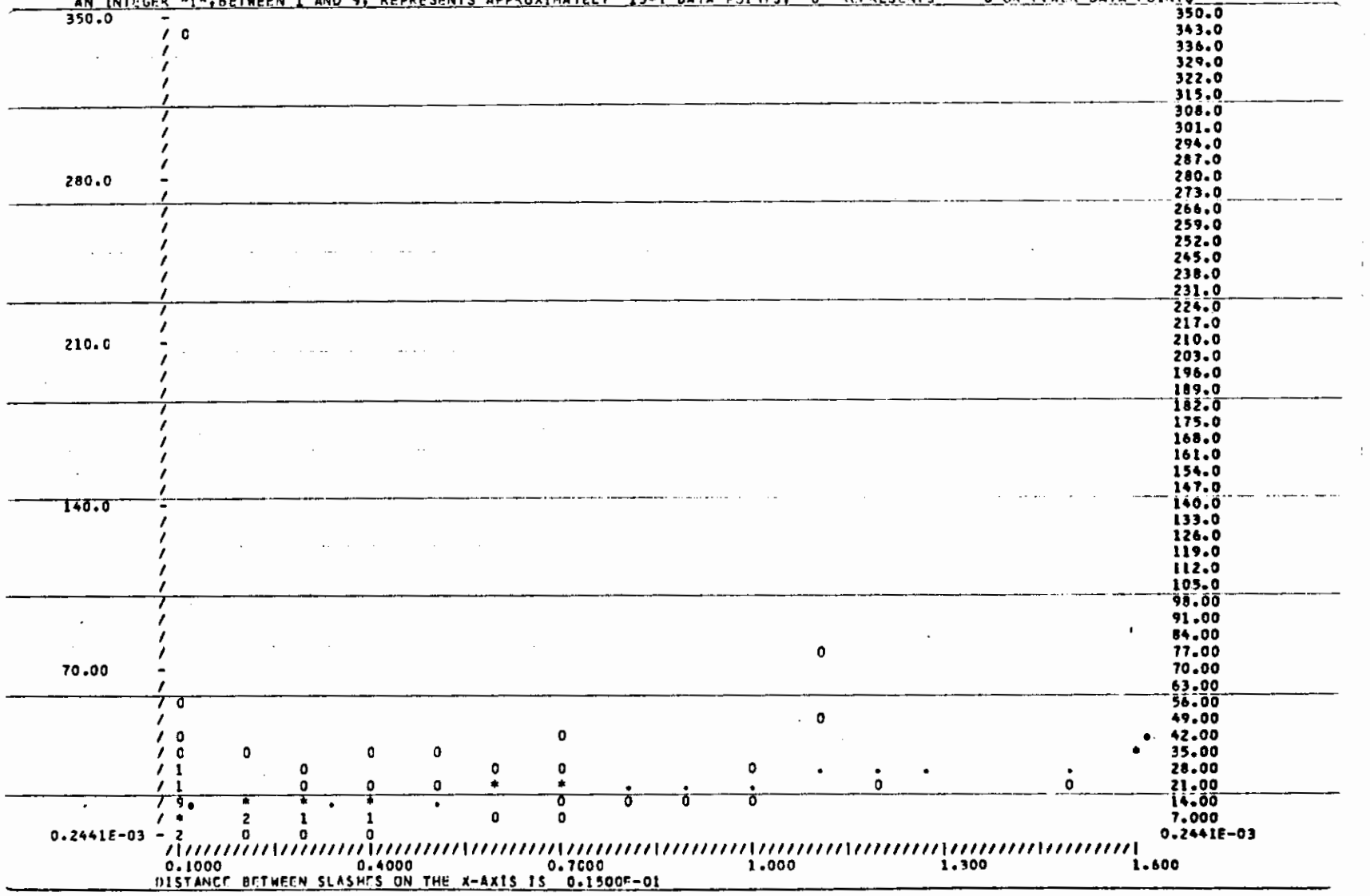
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 22*I DATA POINTS; "0" REPRESENTS 11 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 9.500

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
AS	AG	8.866	15.07	14.04	0.1957E-03	1.094	4.022	20.14	0.0220

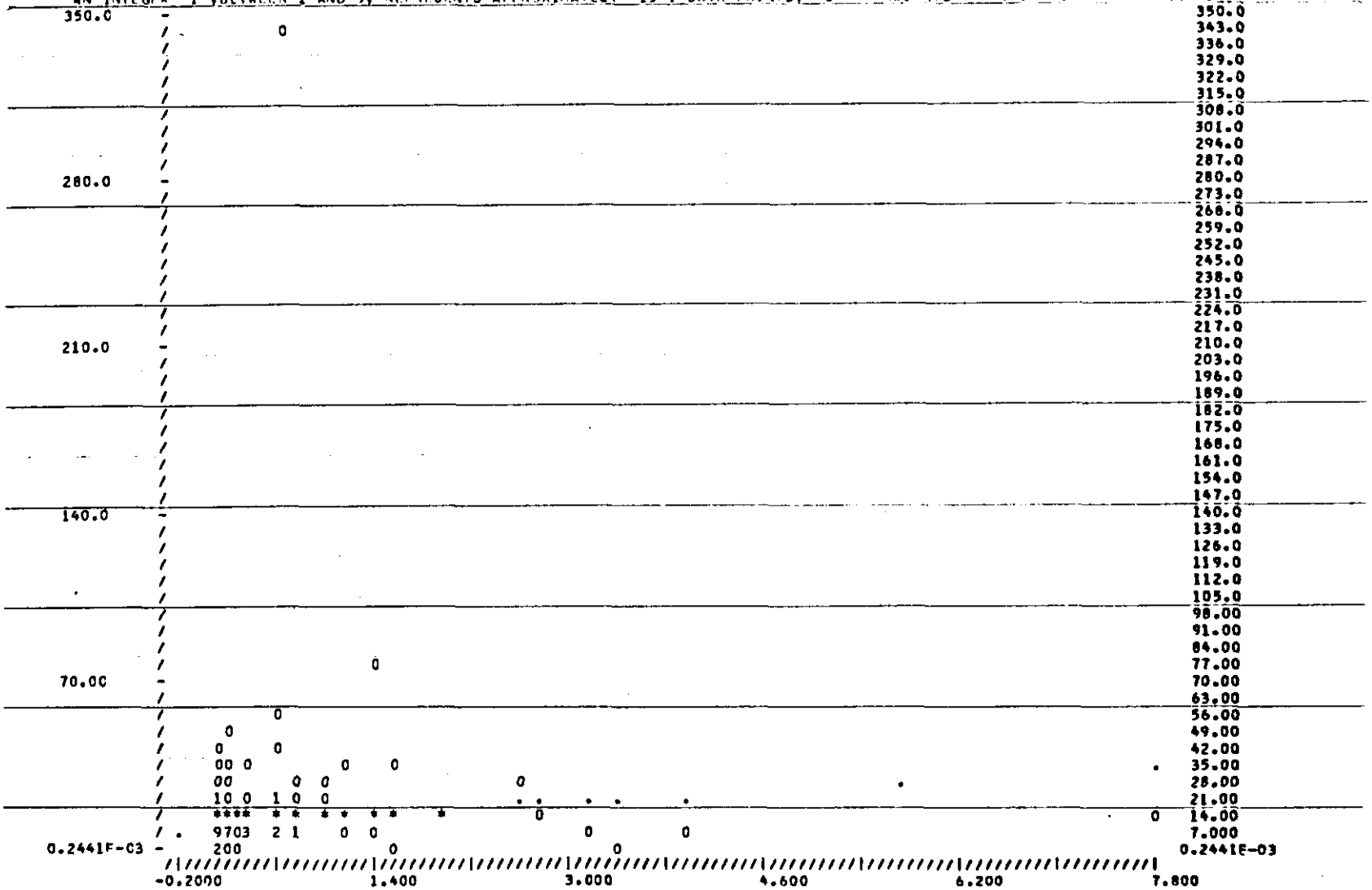
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I", BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 13*I DATA POINTS; "0" REPRESENTS 6 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.1500E-01

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
AS	BI	10.51	3.073	4.145	0.4217E-01	0.9853	1.509	20.29	0.0066

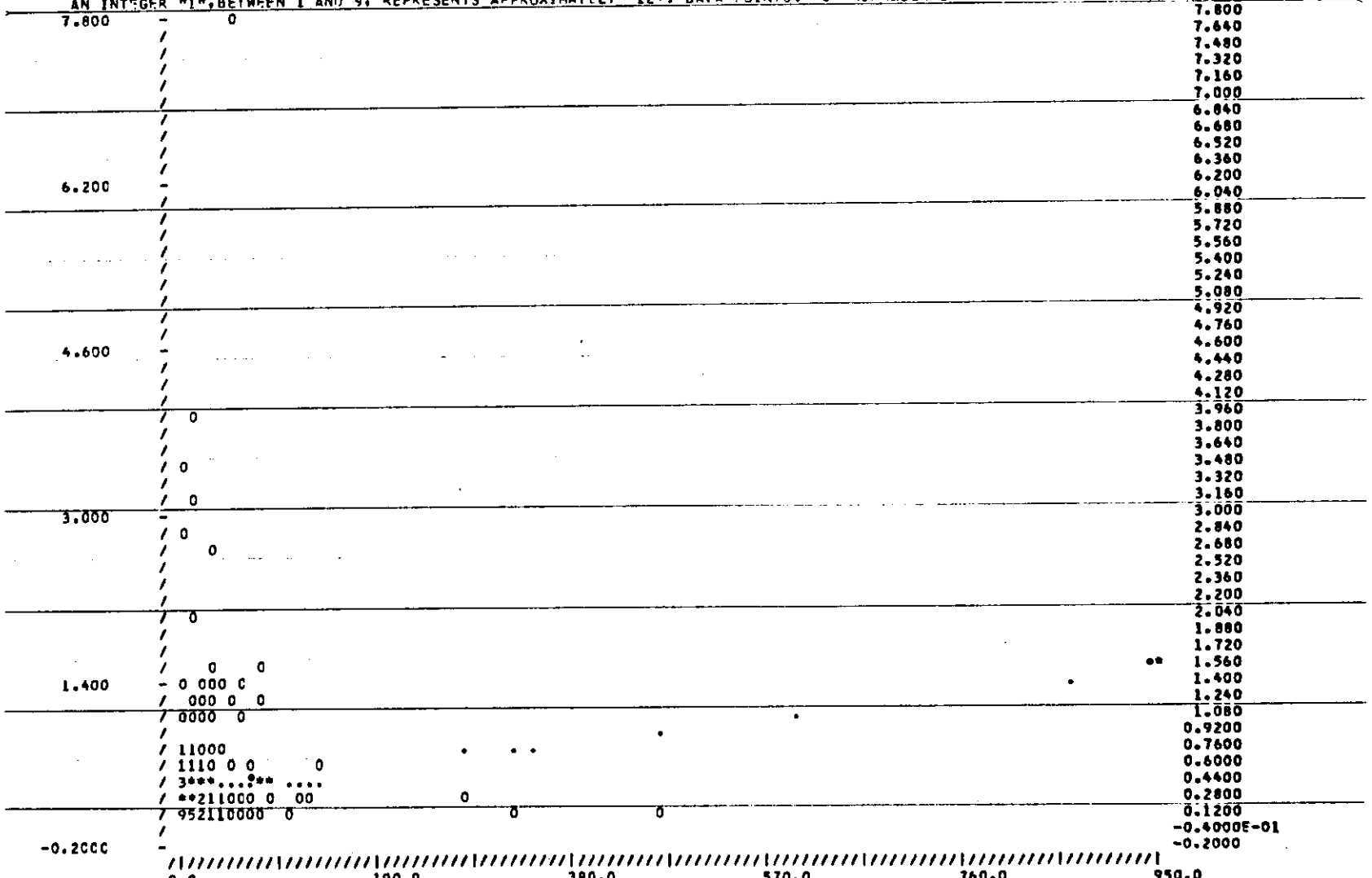
PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 15*I DATA POINTS; "0" REPRESENTS 7 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 0.8000E-01

DEP.VAR.	INDEP.VAR.	A(CONST.)	B(COEFF.)	FRATIO(B)	FPROB(B)	STD.ERR.A	STD.ERR.B	STD.ERR.Y	RSQ
BI	AU	0.3502	0.1214E-02	12.09	0.5414E-03	0.2212E-01	0.3492E-03	0.5327	0.0190

PLOT OF Y VS X AND PLOT OF THE REGRESSION LINE.
THE "." AND "*" ARE USED TO PLOT THE REGRESSION LINE; THE "*" IS USED WHEN A PLOT POINT COVERS DATA POINTS
AN INTEGER "I",BETWEEN 1 AND 9, REPRESENTS APPROXIMATELY 12*I DATA POINTS; "0" REPRESENTS 6 OR FEWER DATA POINTS



DISTANCE BETWEEN SLASHES ON THE X-AXIS IS 9.500

ARCHER, CATHRO
AND ASSOCIATES LTD.
CONSULTING GEOLOGICAL ENGINEERS

BOX 4127, WHITEHORSE, Y.T. Y1A 3S9 667-4415

STANDARD BUILDING, VANCOUVER, B.C. 688-2568

090969

1016 STANDARD BUILDING
510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8

RECEIVED
1 FEB 1982
MINING RECORDER
MAYO, Y.T.
LA. & N.D.

AFFIDAVIT

I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Pike 1-7, 15-51 and 55-108 mineral claims on Claim Sheet 106E/1 and 106D/10 is accurate.

Joan Mariacher

Sworn before me at Vancouver, B.C.
this 7 day of
January, 1982

Notary, Yukon Territory

Statement of Expenditures
Geological Mapping, Geochemistry and Geophysics
Pike 1 - 7, 15 - 51 and 55 - 108 Claims
January 5, 1982

Management				
Archer, Cathro & Associates (1981) Limited			$ 500.00	
Labour				
B. Brown - total 18 days between June 19 and Aug. 23 at $89/day	$1,602.00			
M. Wong - total 17 days between June 16 and Aug. 20 at $80/day	1,360.00			
K. Cockell - total 14 days between June 16 and Aug. 20 at $80/day	1,120.00			
S. Bilawich - total 10 days between June 25 and Aug. 20 at $74/day	740.00			
D. Eaton - June 28, Aug. 14,15, & 18 - 4 days at $230/day				
B. Halleran - July 8 at $104/day	104.00			
D. Heberlein - Aug. 10 & 11 at $137/day	274.00			
T. Stokes - Aug. 14 at $128/day	128.00		6,248.00	(1)
Expenses				
Helicopter - 21 hours Hughes 500D on contract from Viking Helicopters Ltd. at $360/hr	7,560.00			
Helicopter - 1.5 hours Bell 206B casual from Transwest-Century at $450/hr	675.00			
Helicopter fuel - 21 hours at 25 gal/hr = 525 gal at $4.50/gal on site	2,362.00			
Room and board in field - total 67 mandays at $40/day	2,680.00	(2)		
Geochem - 1100 samples analyzed at Chemex Labs for one or more of the Au, Ag, Cu, Co, U, Mo, As, Bi, Pb	14,060.00	(3)	27,337.00	
Total			$34,085.00	

(1) of which $2,414 after August 8
(2) of which $1,000 after August 8
(3) of which more than $5,000 after August 8

In Account With

Project – WERNECKE JOINT VENTURE

Date – JULY 31, 1981

			Total
MANAGEMENT			
	July		2,250
LABOUR			
Supervisory			
Field	D. EATON - JULY 1-27; 30-31 AT 3000/mo	2807.00	
	J. COCKELL - JULY 1-31 AT 1900/mo	1900.00	
	T. STOKES - JULY 1-31 AT 2050/mo	2050.00	
	L CYMBALISTY - JULY 1-31 AT 1700/mo	1700.00	
	L HALLERAN - JULY 1-31 AT 1650/mo	1650.00	
	L. BROWN - JULY 1-31 AT 1400/mo	1400.00	
	K. COCKELL - JULY 1-31 AT 1350/mo	1350.00	
	M. WONG - JULY 1-31 AT 1350/mo	1350.00	
	S BILAWICH - JULY 1-31 AT 1150/mo	1150.00	
	D. HEBERLEIN - JULY 1-31 AT 1100/mo	1100.00	17357.0
	plus 50 %		8678.5
Casual			
	K. Hackman - July 26		120.0
EXPENSES			
Accounting	July	400.00	C3
Expediting	July 1-31	900.00	D3
Room & Board in Whse	J. Cockell 4 days; D. Heberlein 3 days; Hackman 1 day. total 8 days at $ 35 /day	280.00	DY
Field equipment from AC stock	—	17.00	D1
Xerox copies, 270 copies at 25¢ /copy		67.50	C1
Radio rental	5 BX 100 July; 5 BX 10 July; 5 BX 10 1/2 Mo.	575.00	D1
Rental AC truck	at $ /mo.		
plus (to)	kms at /km		D1-11-24.80 DY-30.. F-20..
Petty cash	44.80 DY-24.80 + 9.25 D1 41.75 D1	55.80	
Telephone			
Blueprinting, — sq. ft. Ozalid at — c/ft. plus	— sq. ft. Dilar at $ — /ft.	—	
Drafting, 1 1/2 hrs. at $ 18 /hr.		27.00	C1
Honda generator, June 1-July 20 @ $5/day		305.00	D1
Rented AC diamond saw July 1-31		60.00	D1
Rented AC Compactor for Chemex data		150.00	D1
T shirts for crew		100.20	D1
Genie Contr. parts		14.70	DY
Air hose		263.30	H
Can Freight Ways		11.62	D3
Yukon Hunter		1.50	D1
Yukon General - July ads		80.00	F
BC Gazette sig ads DY		50.00	DY
Whitehorse Hospital - June bill - prorated		49.70	DY
			3407.3
Total			31512.5

In Account With

Project – WERNECKE JOINT VENTURE

Date – AUGUST 31, 1981

			Total
MANAGEMENT			
	Aug		2,250
LABOUR			
Supervisory			
	M.P. Phillips – 3/4 day progress Pitt meeting.		187.
Field	D. EATON – AUG 1-27 26-31 AT 202/hr	702.00	
	J. COCKELL – AUG 1-6 AT 64/hr	368.00	
	L. CYMBALISTY – AUG 1-31 AT 170/hr + JULY CB 95.00	1755.00	
	B. BROWN – AUG 1-31 AT 140/hr + JULY CB 210	1470.00	
	B. HALLERAN – AUG 1-31 AT 165/hr	1650.00	
	M. WONG – AUG 1-31 AT 150/hr + JULY CB 78.00	1578.00	
	K. COCKELL – AUG 1-31 AT 150/hr + JULY CB 115.00	1365.00	
	S. BILAWICH – AUG 1-31 AT 115/hr + 150 JULY CB	1300.00	
	T. STOKES – AUG 1-31 AT 205/hr	1050.00	
	D. HELLEIN – AUG 1-12; 26-31 AT 102/hr + JULY CB 96.00	1446.00	15575.1
	plus 50 %		7787.
Casual	C. CHALMERS – 5 DAYS AT 140/DAY	700.00	
	M. ODYNOVICH – 2 hrs charging for Rio @ $20/hr.	40.00	
	J. Millman – 2 hrs " " " @ $16/hr	32.00	
			772.
EXPENSES			
Accounting	Aug	400.00	C3
Expediting	Aug 1-31	900.00	D3
Room & Board in Whse	C. CHALMERS-3; EATON-7; STOKES-3; CYMBALISTY-4; COCKELL-3; WONG-4; BROWN-3; HALLERAN-3; BILAWICH-4, total 34 days at $ 35 / day	1190.00	DV
Field equipment from AC stock			
Xerox copies,	197 copies at 25¢/copy	49.25	D1
Radio rental	5BX 100 for Aug @ $350/mo + 1 SBX 11 for Aug @ $150	500.00	D1
Rental AC	truck at $ / mo.		
plus (	to) kms at /km		
Petty cash	D2 5.25	5.25	DV
Telephone	1.20	1.20	CV
Blueprinting,	150 sq. ft. Ozalid at 30 c/ft plus sq. ft. Dilar at $ /ft.	45.00	C1
Drafting,	9 1/2 hrs. at $ 18 /hr.	171.00	C1
Rental AC compressor	for Clean date	150.00	D1
Heater generator	Aug 1-25 @ $5/day	125.00	D1
rental AC driven saw	for Aug.	60.00	D1
Hammonds Office	– 16.75 + 3.02	19.77	CV
Nordine Cabins	–	7.80	D3
Coffee, Tea & Spice		4.35	DV
General Enterprises		10.29	D1
Quasitec		18.50	D1
Receiver General		15.35	CV
Chemex		24.20	D1
C.P. Air Ltd		13.30	D3
Northern Services		37.37	CV
Yukon Offset		15.60	CV
Plotting		100.00	CV
White Pass, airgas		302.29	63
			4101.02
Credits			
	AMAX billing, helicopter + fuel	(2140.68)	61
	Enterprise Ex, fuel	(180.00)	63
	Canyon Cabs, fuel & helicopter	(447.39)	61
			(2768.2
	Total		27,904.7

VIKING HELICOPTERS LIMITED FLIGHT REPORT

No. 11715

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE June-16-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
~~Pilot~~ Harold Gourley	C-GYUA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☑ 4 ☐ 7 TYPE	TOTAL A/F HOURS 2616:05	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE	REMARKS
1	Pike	~~Mike~~ + Kevin	8:40	9:10	:30		
2	Regional	Lisa, Bill & Bill	9:10	9:30	" :20		
3	Fairchild	Doug	13:50	14:05	" :15		
4	Dr. 11	Pierre & Hose Pipe	14:20	14:45	:25		
5	Stop	~~Ken~~ & Tim	15:~~05~~	15:~~15~~	" :10		
6	Dr. 11	Lady ~~Ken~~, Fuel	15:20	16:00	:40		
7	Dr. 11	Fuel Hose & Drill	16:~~10~~	16:56	:40		
8	Fairchild	Doug	16:55	17:05	:10		
9	Dr. 11	Pierre & Hose return	17:20	18:10	:50		
10	Regional	Lisa Bill & Bill	18:10	18:30	:20		
11	Pike	Mike & Kevin	18:45	19:15	:30		
12							
13							
14							

DAILY TOTAL HOURS	~~3:50~~	4:50
BROUGHT FORWARD	5:55	
TOTAL CONTRACT HOURS	9:45	

CLIENT NAME & ADDRESS

Archer-Cathro

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

No. 11716

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE June-17-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourlay	C-GYUA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☒ 4 ☐ 7 TYPE	TOTAL A/F HOURS 2620:10	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE
1	Pike	2+3	8:00	9:00	1:00	
2	Wiegandt	2+3	15:00	16:10	1:10	
3	Duilly	Dung	7:10	7:30	:20	
4	Slings Pups to Wiegandt	—0	7:40	8:30	:50	
5	Stop - refuel	—	8:30	8:35	:05	
6	Dog in and of Hill	—	8:50	9:10	:20	
7	Drill to Camp	Dung	9:10	9:30	:20	
8						
9						
10						
11						
12						
13						
14						

REMARKS

CLIENT NAME & ADDRESS

Archer Cathro

DAILY TOTAL HOURS	4:05
BROUGHT FORWARD	9:45
TOTAL CONTRACT HOURS	13:50

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

W. DeGrâce

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

No 11717

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE June-18-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourley	C-GYUA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☒ 4 ☐ 7 TYPE	TOTAL A/F HOURS 262:50	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE	REMARKS
1	Pike ~~Smith~~		8:30	9:10	:40		
2	~~Point~~ Face	Doug	12:20	12:35	:15		
3	PIKE		12:00	12:35	:35		
4	~~Pike~~ Face	Doug - Reginald	12:35	12:45	:10		
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

CLIENT NAME & ADDRESS

Archer - Cathmo

DAILY TOTAL HOURS	1:40
BROUGHT FORWARD	13:50
TOTAL CONTRACT HOURS	15:30

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

No. 11718

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE June-19-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourley	C-GYUA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☑ 4 ☐ 7 TYPE	TOTAL A/F HOURS	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE	REMARKS
1	Pike	Ross+Bill+Bill+Ken	8:20	9:00	:40		
2	Dill	Doug	9:10	10:05	:55		
3	Mayo	Doug	10:35	11:30	:55		
4	Mayo - Refuel	Doug	15:45	16:15	:35		
5	Catholic Bear River	Doug	16:45	17:30	:45		
6	Pike	Ross, Bill+Bill+Ken	17:40	18:30	:50		
7							
8							
9							
10							
11							
12							
13							
14							

DAILY TOTAL HOURS	4:40
BROUGHT FORWARD	15:30
TOTAL CONTRACT HOURS	20:10

CLIENT NAME & ADDRESS

Arctic - Catholic + Assoc.

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

11719

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE June - 20-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourley	C-GYUA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☐ 4 ☐ 7 TYPE	TOTAL A/F HOURS 2629:05	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE	REMARKS
1	Pike	Bill, Bill, Mike & Kevin	8:05	8:45	:40		
2	Regional	Doug & Lisa	9:20	9:40	:20		
3	↓	↓	10:25	10:40	:15		
4			11:15	11:25	:10		
5			12:20	12:30	:10		
6	↓	↓	12:45	13:00	:15		
7	Pike	—	17:00	17:35	:35		
8	Groceries etc		19:00	19:10	:10		
9							
10							
11							
12							
13							
14							

CLIENT NAME & ADDRESS

Archer - Cathro & Assoc.

DAILY TOTAL HOURS	2:35
BROUGHT FORWARD	20:10
TOTAL CONTRACT HOURS	22:45

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

No. 11724

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 **613-257-4660**

DATE June-25-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourley	C-GUAA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☒4 ☐7 TYPE	TOTAL A/F HOURS 2642:55	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE
1	Pike		8:30	9:10	:40	
2	Drill - drop Bill		10:07	10:47	:40	
3	Drill		12:20	12:50	:30	
4	Drill		13:05	13:30	:25	
5	Post & Pickup Bill	Dmg.	14:40	15:45	1:05	
6	Sling ~~at~~ Camp		16:40	17:05	:25	
7	Pike		17:05	17:45	:40	
8						
9						
10						
11						
12						
13						
14						

REMARKS

CLIENT NAME & ADDRESS

Archer - Cathro

DAILY TOTAL HOURS	4:25
BROUGHT FORWARD	32:10
TOTAL CONTRACT HOURS	36:35

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

No. 11725

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 **613-257-4660**

DATE June-26-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourley	C-GYUA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☐4 ☐7 TYPE	TOTAL A/F HOURS 2651.25	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE	REMARKS
1	Pike		8:30	9:00	:30		
2	Day, Bill Hay Regional	"	9:15	9:55	" :40		
3	Pike & Bill - Regional		17:00	11:30	" :30		
4	Pike		15:40	15:10	:30		
5	Regional	Day	18:20	16:35	" :15		
6							
7							
8							
9							
10							
11							
12							
13							
14							

CLIENT NAME & ADDRESS

Archer-Cathro

DAILY TOTAL HOURS	2:25
BROUGHT FORWARD	36:35
TOTAL CONTRACT HOURS	39:00

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

11727

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 **613-257-4660**

DATE June-27-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourley	C-GJWA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☐4 ☐7 TYPE	TOTAL A/F HOURS 2652:55	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE	REMARKS
1	P.Hre	Sudbury Power Boat	8:30	8:55	:25		
2	Pegamd	Pine Bird Dam	8:55	9:15	:20		
3	Pegamd 2:25 P.Hre 0	2 pax	16:40	17:35	:55		
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

CLIENT NAME & ADDRESS

Archer-Cathart Assoc.

DAILY TOTAL HOURS	1:40
BROUGHT FORWARD	39:00
TOTAL CONTRACT HOURS	40:40

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

No. 11729

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE June-28-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourley	C-GYUA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☑ 4 ☐ 7 TYPE	TOTAL A/F HOURS 2657:55	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE	REMARKS
1	Pitre		8:30	9:05	:35		
2	Regional	" "	10:05	10:45	:40		
3	P:P:L		16:55	17:30	:35		
4	Regional		17:44	18:24	:40		
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

CLIENT NAME & ADDRESS

Arden Cathro

DAILY TOTAL HOURS	2:30
BROUGHT FORWARD	40:40
TOTAL CONTRACT HOURS	43:10

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

008611

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE June-29-80

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourley	C-GYUA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☑ 4 ☐ 7 TYPE	TOTAL A/F HOURS 2661:25	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE	REMARKS
1		Pike	8:32	8:52	:20		
2	Bill's Place	Reginald + Drill	9:07	9:32	:25	"	
3	Drill with Gang	Doug + Tim Reginald	10:24	11:30	1:05	"	
4	Drill to Pick up Drill		15:30	15:45	:15		
5	Drill to Camp	Bill, Lisa, Doug	17:00	17:25	:25	"	
6	Pike		17:40	18:10	:30		
7							
8							
9							
10							
11							
12							
13							
14							

DAILY TOTAL HOURS	3:00
BROUGHT FORWARD	43:10
TOTAL CONTRACT HOURS	46:10

CLIENT NAME & ADDRESS

Archer - Cathro & Assoc

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

008612

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 **613-257-4660**

DATE June-30-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourlay	C-GYUA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☐4 ☐7 TYPE	TOTAL A/F HOURS 2665.35	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE
1	P.Ke	S.L., B.A.H.	8:25	9:00	:35	
2	P.Ke	" " "	12:10	12:40	:30	"
3	Kapit Drill 4 trips per	" " "	17:50	19:10	1:20	"
4	Drill to Camp	—	19:40	20:00	:20	
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

REMARKS

80.45

CLIENT NAME & ADDRESS

Arctic Cathedral Rock

DAILY TOTAL HOURS	2:45
BROUGHT FORWARD	42:40
TOTAL CONTRACT HOURS	~~45:25~~ 110:40

110:40 Flt.

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

008613

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE July-01-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourley	C-GYUA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☐4 ☐7 TYPE	TOTAL A/F HOURS 2669:50	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE
1	Pike		8:35	9:00	:25	
2	Fly. camp	Dave Russ & Sandy	15:35	16:25	:50	
3	Fly. camp		16:35	17:00	:30	
4	Pike camp pick up		17:10	17:40	:30	
5	Drill and back		17:50	18:40	:50	
6	Fly camp and back.	Doug Sling	19:40	20:25	:45	
7						
8						
9						
10						
11						
12						
13						
14						

REMARKS

CLIENT NAME & ADDRESS

Archer - Cathro

DAILY TOTAL HOURS	3:50
BROUGHT FORWARD	48:55
TOTAL CONTRACT HOURS	52:45

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

008516

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 **613-257-4660**

DATE June-04-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourley	C-GYUA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☐4 ☐7 TYPE	TOTAL A/F HOURS 2681.30	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE
1	P.U.	2 crew	9:05	9:30	:25	
2	Drill	Dog	9:40	10:55	1:15	
3	Drill to Camp	Dog	12:40	13:00	:20	
4	Fly Camp Back Return	Dog + Dave	13:10	14:00	:50	
5	P.U. Dwight Back Crew		16:40	17:45	1:05	
6	Sling Fuel + Drill + Back Home Fuel	Dog	20:10	21:10	1:00	
7						
8						
9						
10						
11						
12						
13						
14						

REMARKS

DAILY TOTAL HOURS	4:55
BROUGHT FORWARD	59:50
TOTAL CONTRACT HOURS	64:45

CLIENT NAME & ADDRESS

Archer - Cathro & Assoc.

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

No. 008617

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE July-05-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourley	C-GUUH	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☒ 4 ☐ 7 TYPE	TOTAL A/F HOURS 264:45	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE	REMARKS
1	Pike	2 Cargo	8:10	8:35	:25		
2	Bald Cap	P	9:45	9:35	1:50	"	
3	Pike-Rat-Pike	Pax + Cargo	12:10	14:10	4:00	"	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

CLIENT NAME & ADDRESS

Indian Affairs

DAILY TOTAL HOURS	2:15
BROUGHT FORWARD	64:45
TOTAL CONTRACT HOURS	67:00

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

008522

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE July-08-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
[illegible]	C-GYUA	7.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☒ 4 ☐ 7 TYPE	TOTAL A/F HOURS	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE	REMARKS
1	[illegible]	[illegible]	8:00	8:30	:30		
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
4	[illegible]	[illegible]	[illegible]	10:30	:05		
5	[illegible]	[illegible]	10:55	11:30	:35		
6	[illegible]	[illegible]	12:30	12:50	:20		
7	[illegible]	[illegible]	[illegible]	[illegible]	:45		
8	[illegible]	[illegible]	[illegible]	[illegible]	:15		
9	[illegible]	[illegible]	[illegible]	[illegible]	:30		
10	[illegible]	—	[illegible]	[illegible]	:30		
11							
12							
13							
14							

CLIENT NAME & ADDRESS

[illegible]

DAILY TOTAL HOURS	4:15
BROUGHT FORWARD	72:20
TOTAL CONTRACT HOURS	76:35

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

[illegible]

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

No. 003724

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE Aug-10-14-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourlay	C-GSUA	9.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☐4 ☐7 TYPE	TOTAL A/F HOURS 2886:50	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE	REMARKS
1	Camsell [illegible]				:50		> Aug-10-81
2	Camsell pick up	"			1:20	"	
3	2 [illegible]		8:55	10:05	1:10		
4	2 [illegible] 3.		12:35	16:40	1:05		> Aug-11-81
5	" Goodwin [illegible]				:15	"	
6	2 [illegible]		10:15	11:25	1:10		
7	2 [illegible]		16:20	17:25	1:05		> Aug-[illegible]-81
8			~~[illegible]~~	~~[illegible]~~	~~[illegible]~~		→ Aug-13-81 Down
9			~~[illegible]~~				→ Aug-14-81 Down
10							
11							
12							
13							
14							

CLIENT NAME & ADDRESS

AI C& Assoc.

DAILY TOTAL HOURS	10:55
BROUGHT FORWARD	167:15
TOTAL CONTRACT HOURS	174:10

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

[signature]

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

No. 003726

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 **613-257-4660**

DATE July - 15 89

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.
[illegible]	C-GVIN	90	
ENGINEER	**HELICOPTER TYPE**	**CLASS** ☐ 4 ☐ 7 **TYPE**	**TOTAL A/F HOURS**
[illegible]	500 D		2987 : 30

IF NO FLYING CHECK:
- ☐ NIL ASSIGNMENT
- ☐ WEATHER
- ☐ UNSERVICEABLE

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE
1	PL	1	8:30	9:50	:20	
2	"	4	14:00	15:20	1:20	"
3	"	"			"	"
4						
5	"	"			"	
6						
7						
8						
9						
10						
11						
12						
13						
14						

REMARKS

CLIENT NAME & ADDRESS

A/C A Assc

DAILY TOTAL HOURS	1:40
BROUGHT FORWARD	122:10
TOTAL CONTRACT HOURS	124:50

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

[illegible]

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

No. 003728

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE ~~Friday~~ Aug-17-20-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
Harold Gourley	C-GYUH	9.0		☐ NIL ASSIGNMENT ☑ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE 500-D	CLASS ☑ 4 ☐ 7 TYPE	TOTAL A/F HOURS	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE	REMARKS
1	Hse		8:30	8:50	:20		Aug-17-81
2	Sh Reg	"	9:40	9:15	:25	"	
3	Hse	"	16:30	16:50	:20	"	
4	Sh Reg		12:00	12:25	:25		
5	J Pike		9:00	9:20	:20		
6	D. Innes (Reg)		9:20	10:05	:45		Aug-18-81
7	Pike		16:50	17:10	:20		
8	D. Innes (Reg)		17:10	17:55	:45		
9	L. Howard (Mr. Reg)	2	9:00	9:45	.45		Aug-19-81
10	L. Howard (Mr Reg)	2	16:30	17:15	:45		
11	Pike	2	9:00	9:40	:40		Aug-20-81
12	Hse		16:15	16:55	:40		
13							
14							

DAILY TOTAL HOURS	6:30
BROUGHT FORWARD	174:50
TOTAL CONTRACT HOURS	181:20

CLIENT NAME & ADDRESS

A/C + Assoc.

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

W. T. Wright

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

VIKING HELICOPTERS LIMITED FLIGHT REPORT

No. 003729

BOX 5104, STN. F, OTTAWA, ONTARIO, CANADA, K2C 3H4 613-257-4660

DATE Aug-21-81

PILOT	HELICOPTER REGISTRATION	CTC ZONE	CONTRACT No.	IF NO FLYING CHECK:
		7.0		☐ NIL ASSIGNMENT ☐ WEATHER ☐ UNSERVICEABLE
ENGINEER	HELICOPTER TYPE	CLASS ☐ 4 ☐ 7 TYPE	TOTAL A/F HOURS 2951:20	

FLT. NO.	JOURNEY FROM PREVIOUS LINE TO	PASSENGERS	TIME UP	TIME DOWN	AIR TIME	FUEL GALS. REFUNDABLE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

REMARKS

CONDITIONS OF CARRIAGE

The Charter Tariff of Viking Helicopters Limited (the Carrier), which is available for examination (at any office of the Carrier upon request), is deemed to form a part of this and all contracts for the carriage of the Charter and/or his servants, agents and/or goods. In particular, the Charterer is advised that the liability of the Carrier for loss or damage to the goods of the Charterer is limited to the sum of 10¢ per lb., pursuant to Rule 13 of its said Charter Tariff.

APPROVAL AUTHORIZED COMPANY REPRESENTATIVE.

CLIENT NAME & ADDRESS

DAILY TOTAL HOURS	6:50
BROUGHT FORWARD	180:30
TOTAL CONTRACT HOURS	188:40

TRANSWEST HELICOPTERS (1965) LTD.

P.O. BOX 16, PITT MEADOWS, B.C.
CANADA, V0M 1P0

TELEPHONE (604) 465 - 5151 TELEX - 04 - 507500

INVOICE Nº 1124

DATE September 2, 1981

P.O. NO.

CHARGE TO
ARCHER CATHRO ASSOCIATION
P.O. Box 4127
WHITEHORSE, Yukon

AIRCRAFT		AREA	
Bell 206B	Reg. C-FPOC	9.0	
PILOT		RATE PER HOUR	
Will Tomspon		$ 450.00	

DATE	FLIGHT TICKET NO.	HOURS	AMOUNT
August 14	4957	4.7	2,115.00

WJV

*** PLEASE MAKE CHEQUES PAYABLE TO TRANSWEST-CENTURY ***

paid Oct 1/81 #755

TERMS

A SERVICE CHARGE OF 1½% PER MONTH, (18% PER ANNUM) CHARGED ON OVERDUE ACCOUNTS.

PLEASE PAY FROM THIS INVOICE

DUE AND PAYABLE WITHIN 10 DAYS

SUB TOTAL	2,115.00
FUEL CHARGES	104.50
MISC.	
INVOICE TOTAL	$ 2,219.50

White Pass Petroleum Services

P.O. Box 4070
Whitehorse,
Yukon Y1A 3T1

DATE Feb 5 19 81

ARCHER - CATHRO

ACCOUNT NUMBER 4718

INVOICE 246800

TRUCK TRAILER

TRIP NO.

SHIP TO

STN. FROM

STN. CODE 109

ORDER NO

WP NO

SERV. ORDER	STOCK ORDER	PRODUCTS DELIVERED	SIZE OF PACKAGE	CODE			QUANTITY	PRICE	AMOUNT
		JP4 176	DRS	28	1	1	7920	1.882	14905 4
				961	3	1	✓	.032	253 4
		DELIVERED TO MAYO AIRPORT							

DELIVERED BY O Shelton

PRODUCTS RECEIVED BY

APPROVED | CHECKED

PAYMENTS RECEIVED

CASH

CHEQUES

EXCHANGE

TOTAL

TAX							
DRUM CHARGES	910	04	9	176 HU	55	00	9680 00
DRUM CREDITS							(
TERMS - NET CASH (NO DISCOUNT)					TOTAL		24838 8

FB54 30M 12-77

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9

Invoice # : I8111743
Date : 13-JUL-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8111743-001 to -006

Quantity	Analysed for code	description		unit price	amount
103	002 -	Cu	ppm		
	003 -	Mo	ppm		
	004 -	Pb	ppm		
	006 -	Ag	ppm		
	009 -	Co	ppm		
	013 -	AS	ppm		
	014 -	U (ppm)	fluor.		
	023 -	Bi	ppm		
	101 -	AU-NAA	ppb	20.50	2111.50
36	002 -	Cu	ppm		
	009 -	Co	ppm		
	101 -	AU-NAA	ppb	8.25	297.00
50	101 -	AU-NAA	ppb	5.75	287.50
11	002 -	Cu	ppm		
	101 -	AU-NAA	ppb	7.50	82.50
2	002 -	Cu	ppm		
	003 -	Mo	ppm		
	004 -	Pb	ppm		
	006 -	Ag	ppm		
	009 -	Co	ppm		
	013 -	AS	ppm		
	014 -	U (ppm)	fluor.		
	023 -	Bi	ppm	14.75	29.50

Sample preparation and other charges :

202	203 - -35 mesh sieve + ring	1.50	303.00

TOTAL	$ 3111.00
Discount (20 %)	$ 622.20
Please pay this amount ---->	$ 2488.80

319.20

280.00

TERMS -- NET 30 DAYS
1.5 % per month (18 % per annum) charged on overdue accounts

CTA MEMBER CANADIAN TESTING ASSOCIATION

pd July 26/81 #685

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604)984-0221
TELEX: 043-52597

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9

Invoice # : I8111872

Date : 13-JUL-81
P.O. # : NONE
Project FREEGOLD RAMBLE

Invoice for analytical work reported on certificate(s) A8111872-001 to -002

Quantity	Analysed for code	description	unit price	amount
42	006 - Ag	ppm		
	101 - AU-NAA	ppb	7.50	315.00
	Sample preparation and other charges :			
42	205 - Rock geochem - RING		2.00	84.00
			TOTAL	$ 399.00
			Discount (20 %)	$ 79.80
			Please pay this amount ---->	$ 319.20

TERMS -- NET 30 DAYS
1.5 % per month (18 % per annum) charged on overdue accounts

CTA MEMBER CANADIAN TESTING ASSOCIATION

CHEMEX LABS LTD.

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
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Y1A 3S9

Invoice # : I8112227

Date : 03-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112227-001 to -003

Quantity	Analysed for code	description		unit price	amount
18	002 - Cu		ppm		
	009 - Co		ppm		
	100 - AU-FA+AA		ppb	8.00	144.00
69	002 - Cu		ppm		
	003 - Mo		ppm		
	004 - Pb		ppm		
	006 - Ag		ppm		
	009 - Co		ppm		
	013 - AS		ppm		
	014 - U (ppm)		fluor.		
	023 - Bi		ppm		
	100 - AU-FA+AA		ppb	20.25	1397.25
Sample preparation and other charges :					
87	203 - -35 mesh sieve + ring			1.50	130.50

TOTAL	$ 1671.75
Discount (20 %)	$ 334.35
Please pay this amount ---->	$ 1337.40

TERMS -- NET 30 DAYS
.5 % per month (18 % per annum) charged on overdue accounts

469.60
535.60
93.00
284.60
1364.80

7774.60

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paid Aug 11/81 #696

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
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Y1A 3S9

Invoice # : I8112118
Date : 04-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112118-001 to -002

Quantity	Analysed for code	description		unit price	amount
63	101 -	AU-NAA	ppb	5.75	362.25
2	003 -	Mo	ppm		
	101 -	AU-NAA	ppb	7.50	15.00
3	002 -	Cu	ppm		
	101 -	AU-NAA	ppb	7.50	22.50
5	002 -	Cu	ppm		
	009 -	Co	ppm		
	101 -	AU-NAA	ppb	8.25	41.25

Sample preparation and other charges :

73	205 -	Rock geochem - RING		2.00	146.00

TOTAL $ 587.00
Discount (20 %) $ 117.40
Please pay this amount ----> $ 469.60

TERMS -- NET 30 DAYS
1.5 % per month (18 % per annum) charged on overdue accounts

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
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Y1A 3S9

Invoice # : I8112107
Date : 04-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112107-001

Quantity	Analysed for code	description	unit price	amount
8	101 - AU-NAA	ppb	5.75	46.00
27	002 - Cu	ppm		
	003 - Mo	ppm		
	004 - Pb	ppm		
	006 - Ag	ppm		
	009 - Co	ppm		
	013 - AS	ppm		
	014 - U (ppm)	fluor.		
	023 - Bi	ppm		
	101 - AU-NAA	ppb	20.50	553.50

Sample preparation and other charges :

35	205 - Rock geochem - RING	2.00	70.00

TOTAL	$ 669.50
Discount (20 %)	$ 133.90
Please pay this amount ---->	$ 535.60

TERMS -- NET 30 DAYS
.5 % per month (18 % per annum) charged on overdue accounts

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
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Y1A 3S9

Invoice # : I8112106
Date : 04-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112106-001 to -002

Quantity	Analysed for code	description	unit price	amount
44	002 - Cu	ppm		
	003 - Mo	ppm		
	004 - Pb	ppm		
	006 - Ag	ppm		
	009 - Co	ppm		
	013 - AS	ppm		
	014 - U (ppm)	fluor.		
	023 - Bi	ppm		
	101 - AU-NAA	ppb	20.50	902.00
2	002 - Cu	ppm		
	003 - Mo	ppm		
	004 - Pb	ppm		
	006 - Ag	ppm		
	009 - Co	ppm		
	013 - AS	ppm		
	014 - U (ppm)	fluor.		
	023 - Bi	ppm	14.75	29.50
10	013 - AS	ppm		
	101 - AU-NAA	ppb	9.00	90.00
17	101 - AU-NAA	ppb	5.75	97.75

Sample preparation and other charges :

73	203 - -35 mesh sieve + ring		1.50	109.50

TOTAL	$ 1228.75
Discount (20 %)	$ 245.75
Please pay this amount ---->	$ 983.00

TERMS -- NET 30 DAYS
.5 % per month (18 % per annum) charged on overdue accounts

CTA MEMBER CANADIAN TESTING ASSOCIATION

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
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Y1A 3S9

Invoice # : I8112105

Date : 04-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112105-001 to -005

Quantity	Analysed for code	description		unit price	amount
13	002 - Cu	ppm			
	006 - Ag	ppm			
	013 - AS	ppm			
	014 - U (ppm)	fluor.			
	101 - AU-NAA	ppb		14.50	188.50
9	002 - Cu	ppm			
	009 - Co	ppm			
	013 - AS	ppm			
	101 - AU-NAA	ppb		11.50	103.50
88	002 - Cu	ppm			
	003 - Mo	ppm			
	004 - Pb	ppm			
	006 - Ag	ppm			
	009 - Co	ppm			
	013 - AS	ppm			
	014 - U (ppm)	fluor.			
	023 - Bi	ppm			
	101 - AU-NAA	ppb		20.50	1804.00
11	002 - Cu	ppm			
	013 - AS	ppm			
	023 - Bi	ppm			
	101 - AU-NAA	ppb		14.50	159.50

Continued .....

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To : ARCHER CATHRO & ASSOC. LTD.
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Y1A 3S9

Invoice # : I8112105
Date : 04-AUG-81
P.O. # : NONE
Project WJV

Quantity	Analysed for code	description		unit price	amount
				BALANCE FORWARD	$ 2255.50
17	002 -	Cu	ppm		
	006 -	Ag	ppm		
	013 -	AS	ppm		
	101 -	AU-NAA	ppb	11.50	195.50
5	003 -	Mo	ppm		
	101 -	AU-NAA	ppb	7.50	37.50
20	101 -	AU-NAA	ppb	5.75	115.00
36	013 -	AS	ppm		
	101 -	AU-NAA	ppb	9.00	324.00
1	013 -	AS	ppm	3.25	3.25
Sample preparation and other charges :					
200	203 -	-35 mesh sieve + ring		1.50	300.00
				TOTAL	$ 3230.75
				Discount (20 %)	$ 646.15
				Please pay this amount ---->	$ 2584.60

TERMS -- NET 30 DAYS
.5 % per month (18 % per annum) charged on overdue accounts

CTA MEMBER CANADIAN TESTING ASSOCIATION

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
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Y1A 3S9

Invoice # : I8112120
Date : 06-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112120-001 to -003

Quantity	Analysed for code	description		unit price	amount
15	101 -	AU-NAA	ppb	5.75	86.25
5	002 -	Cu	ppm		
	013 -	AS	ppm		
	101 -	AU-NAA	ppb	10.75	53.75
26	002 -	Cu	ppm		
	009 -	Co	ppm		
	101 -	AU-NAA	ppb	8.25	214.50
55	002 -	Cu	ppm		
	003 -	Mo	ppm		
	004 -	Pb	ppm		
	006 -	Ag	ppm		
	009 -	Co	ppm		
	013 -	AS	ppm		
	014 -	U (ppm)	fluor.		
	023 -	Bi	ppm		
	101 -	AU-NAA	ppb	20.50	1127.50
8	002 -	Cu	ppm		
	101 -	AU-NAA	ppb	7.50	60.00

Sample preparation and other charges :

109	203 -	-35 mesh sieve + ring		1.50	163.50

TOTAL $ 1705.50
Discount (20 %) $ 341.10
Please pay this amount ----> $ 1364.40

TERMS -- NET 30 DAYS
1.0 % per month (24 % per annum) charged on overdue accounts

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
3CX 4127
WHITEHORSE, Y.T.
Y1A 3S9

Invoice # : I8112532

Date : 27-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112532-C01 to -005

Quantity	Analysed for code	description		unit price	amount
81	003 - Mo		ppm		
	101 - AU-NAA		ppb	7.50	607.50
29	101 - AU-NAA		ppb	5.75	166.75
47	013 - AS		ppm		
	101 - AU-NAA		ppb	9.00	423.00
9	002 - Cu		ppm		
	009 - Co		ppm		
	101 - AU-NAA		ppb	8.25	74.25
13	003 - Mo		ppm		
	006 - Ag		ppm		
	009 - Co		ppm		
	013 - AS		ppm		
	101 - AU-NAA		ppb	12.25	159.25
5	002 - Cu		ppm		
	003 - Mo		ppm		
	006 - Ag		ppm		
	009 - Co		ppm		
	101 - AU-NAA		ppb	9.75	48.75
13	002 - Cu		ppm		
	009 - Co		ppm		
	014 - U (ppm)		fluor.		
	101 - AU-NAA		ppb	11.25	146.25

Sample preparation and other charges :

197	203 - -35 mesh sieve + ring	1.50	295.50

TOTAL	$ 1921.25
Discount (20 %)	$ 384.25
Please pay this amount ---->	$ 1537.00

TERMS -- NET 30 DAYS
1.0% per month (24 % per annum) charged on overdue accounts

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
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Y1A 3S9

Invoice # : I8112535
Date : 14-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112535-001

Quantity	Analysed for code	description	unit price	amount
2	004 - Pb	ppm		
	005 - Zn	ppm		
	006 - Ag	ppm	3.25	6.50
22	002 - Cu	ppm		
	003 - Mo	ppm		
	006 - Ag	ppm		
	009 - Co	ppm		
	013 - AS	ppm		
	023 - Bi	ppm		
	101 - AU-NAA	ppb	16.75	368.50

Sample preparation and other charges :

24	203 - -35 mesh sieve + ring	1.50	36.00

TOTAL	$ 411.00
Discount (20 %)	$ 82.20
Please pay this amount ---->	$ 328.80

TERMS -- NET 30 DAYS
1.0 % per month (24 % per annum) charged on overdue accounts

CTA MEMBER CANADIAN TESTING ASSOCIATION

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
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Y1A 3S9

Invoice # : I8112533
Date : 14-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112533-001 to -002

Quantity	Analysed for code	description		unit price	amount
26	003 - Mo		ppm		
	101 - AU-NAA		ppb	7.50	195.00
21	101 - AU-NAA		ppb	5.75	120.75

Sample preparation and other charges :

47	205 - Rock geochem - RING		2.00	94.00

TOTAL	$ 409.75
Discount (20 %)	$ 81.95
Please pay this amount ---->	$ 327.80

TERMS -- NET 30 DAYS
1.0 % per month (24 % per annum) charged on overdue accounts

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
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Invoice # : I8112415
Date : 09-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112415-001 to -002

Quantity	Analysed for code	description	unit price	amount
6	100 -	AU-FA+AA ppb	5.50	33.00
36	002 -	Cu ppm		
	003 -	Mo ppm		
	006 -	Ag ppm		
	009 -	Co ppm		
	013 -	AS ppm		
	023 -	Bi ppm		
	100 -	AU-FA+AA ppb	16.50	594.00
Sample preparation and other charges :				
42	203 -	-35 mesh sieve + ring	1.50	63.00

TOTAL	$ 690.00
Discount (20 %)	$ 138.00
Please pay this amount ---->	$ 552.00

TERMS -- NET 30 DAYS
1.0 % per month (24 % per annum) charged on overdue accounts

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
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Invoice # : I8112339

Date : 12-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112339-001 to -002

Quantity	Analysed for code	description		unit price	amount
37	002 -	Cu	ppm		
	009 -	Co	ppm		
	101 -	AU-NAA	ppb	8.25	305.25
33	002 -	Cu	ppm		
	003 -	Mo	ppm		
	004 -	Pb	ppm		
	006 -	Ag	ppm		
	009 -	Co	ppm		
	013 -	AS	ppm		
	014 -	U (ppm)	fluor.		
	023 -	Bi	ppm		
	101 -	AU-NAA	ppb	20.50	676.50
Sample preparation and other charges :					
70	203 -	-35 mesh sieve + ring		1.50	105.00

TOTAL $ 1086.75
Discount (20 %) $ 217.35
Please pay this amount ----> $ 869.40

TERMS -- NET 30 DAYS
2.0 % per month (24 % per annum) charged on overdue accounts

CTA MEMBER CANADIAN TESTING ASSOCIATION

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*** INVOICE ***

To : ARCHER, CATHRO & ASSOCIATES (1981) LTD.
1016 - 510 W. HASTINGS ST.,
VANCOUVER, B.C.
V6B 1L8

Invoice # : I8113142
Date : 04-SEP-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8113142-001

Quantity	Analysed for code	description		unit price	amount
29	101 - AU-NAA	ppb		5.75	166.75
2	002 - Cu	ppm			
	101 - AU-NAA	ppb		7.50	15.00
1	009 - Co	ppm			
	101 - AU-NAA	ppb		7.50	7.50
1	006 - Ag	ppm			
	101 - AU-NAA	ppb		7.50	7.50
Sample preparation and other charges :					
33	205 - Rock geochem - RING			2.00	66.00

TOTAL $ 262.75
Discount (20 %) $ 52.55

Please pay this amount ----> $ 210.20

TERMS -- NET 30 DAYS
2.0 % per month (24 % per annum) charged on overdue accounts

166.40
350.
+37.
1489.

1450.60

Oct 15/81 #738

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
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Y1A 3S9

Invoice # : I8113423
Date : 31-AUG-81
P.O. # : NONE
Project WJV-81

Invoice for analytical work reported on certificate(s) A8113423-001

Quantity	Analysed for code	description	unit price	amount
32	017	- Au -(AA) ppb	4.50	144.00
		Sample preparation and other charges :		
32	205	- Rock geochem - RING	2.00	64.00

TOTAL $ 208.00
Discount (20 %) $ 41.60

Please pay this amount ----> $ 166.40

TERMS -- NET 30 DAYS
2.0 % per month (24 % per annum) charged on overdue accounts

CTA MEMBER CANADIAN TESTING ASSOCIATION

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
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Y1A 3S9

Invoice # : I8112783
Date : 31-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112783-001 to -002

Quantity	Analysed for code	description		unit price	amount
38	101 - AU-NAA	ppb		5.75	218.50
18	002 - Cu	ppm			
	101 - AU-NAA	ppb		7.50	135.00
Sample preparation and other charges :					
56	203 - -35 mesh sieve + ring			1.50	84.00

TOTAL $ 437.50
Discount (20 %) $ 87.50
Please pay this amount ----> $ 350.00

TERMS -- NET 30 DAYS
2.0 % per month (24 % per annum) charged on overdue accounts

CTA MEMBER CANADIAN TESTING ASSOCIATION

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TELEPHONE: (604)984-0221
TELEX: 043-52597

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
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Y1A 3S9

Invoice # : I8112784
Date : 31-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112784-001

Quantity	Analysed for code	description	unit price	amount
13	003 - Mo	ppm		
	101 - AU-NAA	ppb	7.50	97.50
13	101 - AU-NAA	ppb	5.75	74.75
6	002 - Cu	ppm		
	101 - AU-NAA	ppb	7.50	45.00
1	002 - Cu	ppm		
	003 - Mo	ppm		
	004 - Pb	ppm		
	006 - Ag	ppm		
	009 - Co	ppm		
	101 - AU-NAA	ppb	10.50	10.50

Sample preparation and other charges :

33	205 - Rock geochem - RING		2.00	66.00

TOTAL	$ 293.75
Discount (20 %)	$ 58.75
Please pay this amount ---->	$ 235.00

TERMS -- NET 30 DAYS
2.0 % per month (24 % per annum) charged on overdue accounts

CTA MEMBER CANADIAN TESTING ASSOCIATION

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TELEPHONE: (604)984-0221
TELEX: 043-52597

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*** INVOICE ***

To : ARCHER CATHRO & ASSOC. LTD.
BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9

Invoice # : I8112782

Date : 31-AUG-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8112782-001 to -006

Quantity	Analysed for code	description	unit price	amount
38	002 - Cu	ppm		
	006 - Ag	ppm	2.50	95.00
9	002 - Cu	ppm		
	003 - Mo	ppm		
	009 - Co	ppm		
	101 - AU-NAA	ppb	9.00	81.00
13	018 - W	ppm		
	101 - AU-NAA	ppb	9.50	123.50
12	002 - Cu	ppm		
	003 - Mo	ppm		
	006 - Ag	ppm		
	013 - AS	ppm		
	014 - U (ppm)	fluor.		
	101 - AU-NAA	ppb	15.25	183.00
13	002 - Cu	ppm		
	101 - AU-NAA	ppb	7.50	97.50
139	101 - AU-NAA	ppb	5.75	799.25
16	003 - Mo	ppm		
	101 - AU-NAA	ppb	7.50	120.00

Sample preparation and other charges :

236	203 - -35 mesh sieve + ring	1.50	354.00
4	205 - Rock geochem - RING	2.00	8.00

TOTAL $ 1861.25
Discount (20 %) $ 372.25

Please pay this amount ----> $ 1489.00

TERMS -- NET 30 DAYS
2.0 % per month (24 % per annum) charged on overdue accounts

CTA MEMBER CANADIAN TESTING ASSOCIATION

CHEMEX LABS LTD.

212 BROOKSBANK AVE
NORTH VANCOUVER, B C
CANADA V7J 2C1
TELEPHONE (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

*** INVOICE ***

To : ARCHER, CATHRO & ASSOCIATES (1981) LTD.
1016 - 510 W. HASTINGS ST.,
VANCOUVER, B.C.
V6B 1L8

Invoice # : I8113998

Date : 21-SEP-81
P.O. # : NONE
Project WJV

Invoice for analytical work reported on certificate(s) A8113998-001

Quantity	Analysed for code	description	unit price	amount
36	002	Cu ppm	1.75	63.00

Sample preparation and other charges :

36	214	Bag pulp	0.00	0.00

TOTAL	$ 63.00
Discount (20 %)	$ 12.60
Please pay this amount ---->	$ 50.40

TERMS -- NET 30 DAYS
.0 % per month (24 % per annum) charged on overdue accounts

CTA MEMBER CANADIAN TESTING ASSOCIATION

CHEMEX LABS LTD.

212 BROOKSBANK AVE
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

*** INVOICE ***

To : ARCHER, CATHRO & ASSOCIATES (1981) LTD.
1016 - 510 W. HASTINGS ST.,
VANCOUVER, B.C.
V6B 1L8

Invoice # : I8113141

Date : 22-SEP-81
P.O. # : NONE
Project WJV 81

Invoice for analytical work reported on certificate(s) A8113141-001 to -006

Quantity	Analysed for code	description	unit price	amount
208	101 - Au	NAA ppb	5.75	1196.00
		Sample preparation and other charges :		
208	203 -	-35 mesh sieve + ring	1.50	312.00

TOTAL $ 1508.00
Discount (20 %) $ 301.60

Please pay this amount ----> $ 1206.40

TERMS -- NET 30 DAYS
2.0 % per month (24 % per annum) charged on overdue accounts

CTA MEMBER CANADIAN TESTING ASSOCIATION

ADIAN MINERAL CORP.
CAN RAD & BREAK CLAIMS

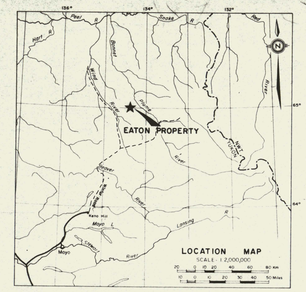
WJV OTIS
1 – 10 CLAIMS

AIRES RESOURCES INC.
THOR CLAIMS

PIKE 1 – 51,
56 – 108 CLAIMS

65°00'

34°25'



GEOLOGY

HELIKIAN

- Heterolithic breccia, variably altered, subrounded to rounded fragments in a matrix of hematite, carbonate and chlorite. Contains numerous large blocks of Hsa and homolithic Hb
- Homolithic breccia, commonly exhibits red to brown, hematite, carbonate and feldspar altered fragments similar to adjacent wall rocks. Minor carbonate-hematite matrix

HELIKIAN, POSSIBLY APHEBIAN

- Hc — Gillespie Group: orange weathering, thick bedded dolomites, in part stromatolitic
- Hs — Quartet Group: black argillites and slates with minor interbedded quartzites
- Hsa — Altered Hs, red to red-brown alteration common along carbonate, feldspar and quartz filled fractures, some areas of pervasive alteration

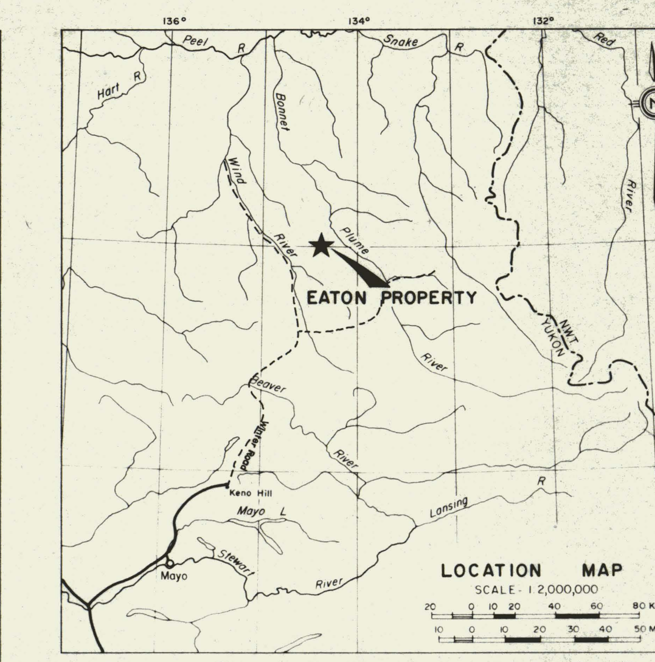
Angular unconformity

PROBABLY APHEBIAN

- Hcs — Fairchild Group: principly pale to medium green phyllites, minor spotted phyllites and limy horizons

~~ Fault trace

~~~ Angular unconformity

LEGEND

- Soil sample location
- Silt sample location
- Rock sample location — Au in ppb
- Chip sample location
- Au — Gold occurrence

FIG. WJV81-E1
ARCHER, CATHRO & ASSOCIATES (1981) LTD.

Au GEOCHEMISTRY

PIKE CLAIMS
EATON PROPERTY
WERNECKE JOINT VENTURE

January 21, 1982

SCALE - 1:10,000

090969

January 1982.
To accompany report dated
~~~



GEOLOGY

HELIKIAN

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HELIKIAN, POSSIBLY APHEBIAN

- Hc — Gillespie Group: orange weathering, thick bedded dolomites, in part stromatolitic
- Hs — Quartet Group: black argillites and slates with minor interbedded quartzites
- Hsa — Altered Hs, red to red-brown alteration common along carbonate, feldspar and quartz filled fractures, some areas of pervasive alteration

Angular unconformity

PROBABLY APHEBIAN

- Hcs2 — Fairchild Group: principly pale to medium green phyllites, minor spotted phyllites and limy horizons
- Fault trace
- Angular unconformity

LEGEND

- Soil sample location
- Silt sample location
- Rock sample location
- Chip sample location

(Cu in ppm)

- Au Gold occurrence

FIG. WJV81-E2

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

Cu GEOCHEMISTRY

PIKE CLAIMS
EATON PROPERTY
WERNECKE JOINT VENTURE

W. Douglas Eaton January 21, 1982

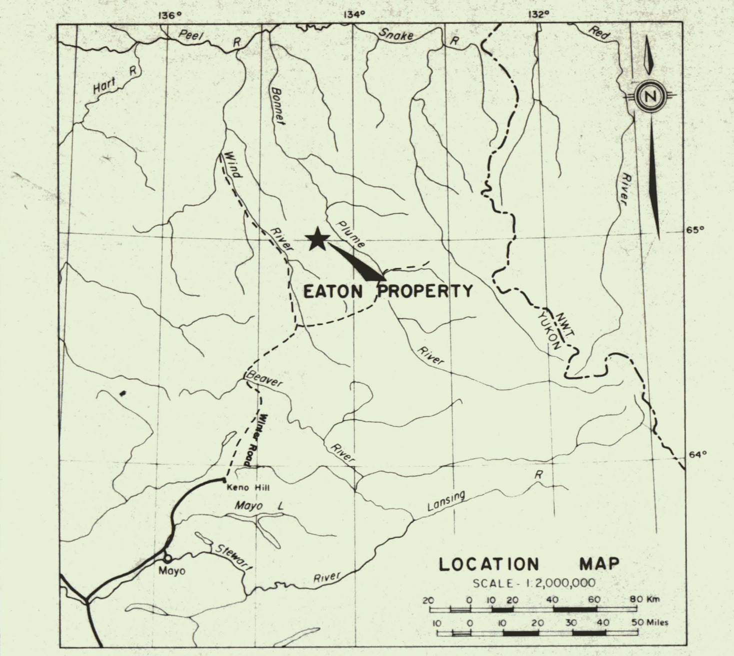
SCALE - 1:10,000

200 100 0 100 200 300 400 500 600 Metres

200 100 0 100 200 400 600 Yards

090969

To accompany report dated ~~December 1981~~ January 1982



GEOLOGY

HELIKIAN

- Heterolithic breccia, variably altered, subrounded to rounded fragments in a matrix of hematite, carbonate and chlorite. Contains numerous large blocks of Hsa and homolithic Hb
- Homolithic breccia, commonly exhibits red to brown, hematite, carbonate and feldspar altered fragments similar to adjacent wall rocks. Minor carbonate-hematite matrix

HELIKIAN, POSSIBLY APHEBIAN

- Hc — Gillespie Group: orange weathering, thick bedded dolomites, in part stromatolitic
- Hs — Quartet Group: black argillites and slates with minor interbedded quartzites
- Hsa — Altered Hs, red to red-brown alteration common along carbonate, feldspar and quartz filled fractures, some areas of pervasive alteration

Angular unconformity

PROBABLY APHEBIAN

- Hcs_2 — Fairchild Group: principly pale to medium green phyllites, minor spotted phyllites and limy horizons
- ~~~ Fault trace
- Angular unconformity

LEGEND

- • Soil sample location
- × Silt sample location
- ■ Rock sample location
- ⊢ Chip sample location

(U in ppm)

★Au Gold occurrence

090969

FIG. WJV81- E3

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

U GEOCHEMISTRY

PIKE CLAIMS
EATON PROPERTY
WERNECKE JOINT VENTURE

W. Douglas Eaton January 21, 1982

SCALE – 1:10,000

200 100 0 100 200 300 400 500 600 Metres

200 100 0 100 200 400 600 Yards

January 1982

To accompany report dated ~~December 1981~~

65°00'

134°25'

Hs

Hsa

Hcs$_2$

Hb

Hc

Au

No Frog Creek

Gus Creek

Wild Turkey Creek

Jerry Creek

Slats Creek

Our Gangue Creek

Vicar Creek

Lama Creek

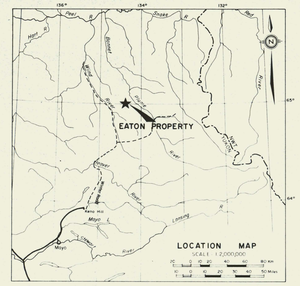
Gosnell Creek

Sandy Creek

West Slats Creek

Sherbet Creek

SLATS CREEK



GEOLOGY

HELIKIAN

Heterolithic breccia, variably altered, subrounded to rounded fragments in a matrix of hematite, carbonate and chlorite. Contains numerous large blocks of Hsa and homolithic Hb

Homolithic breccia, commonly exhibits red to brown, hematite, carbonate and feldspar altered fragments similar to adjacent wall rocks. Minor carbonate-hematite matrix

HELIKIAN, POSSIBLY APHEBIAN

Hs — Gillespie Group: orange weathering, thick bedded dolomites, in part stromatolitic

Hs — Quartet Group: black argillites and slates with minor interbedded quartzites

Hsa — Altered Hs, red to red-brown alteration common along carbonate, feldspar and quartz filled fractures, some areas of pervasive alteration

Angular unconformity

PROBABLY APHEBIAN

Hcs$_2$ — Fairchild Group: principly pale to medium green phyllites, minor spotted phyllites and liny horizons

Fault trace

Angular unconformity

LEGEND

Soil sample location
Silt sample location — Mo in ppm
Rock sample location
Chip sample location
Au Gold occurrence

FIG. WJV81-E4

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

Mo GEOCHEMISTRY

PIKE CLAIMS
EATON PROPERTY
WERNECKE JOINT VENTURE

090969

January 21, 1982

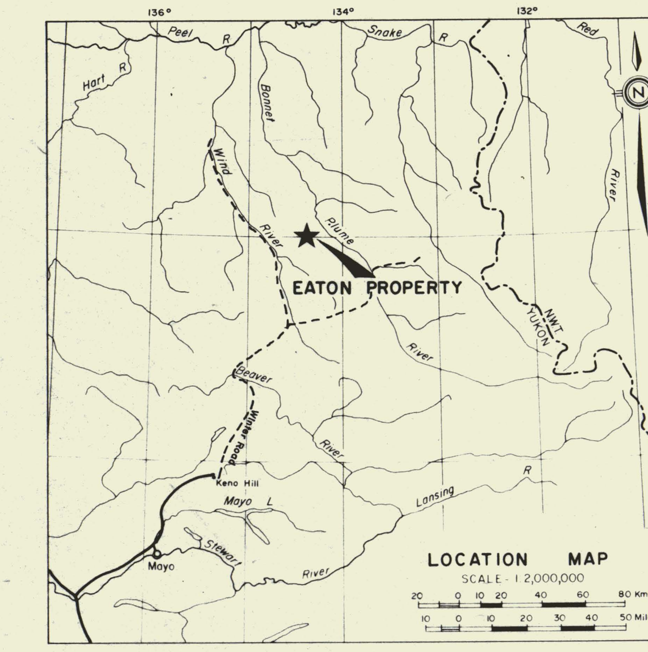
SCALE - 1:10,000

200 100 0 200 400 600 800 1000 Metres

200 400 0 400 800 1200 1600 Feet

January 1982

To accompany report dated December 1981



GEOLOGY

HELIKIAN

Heterolithic breccia, variably altered, subrounded to rounded fragments in a matrix of hematite, carbonate and chlorite. Contains numerous large blocks of Hsa and homolithic Hb

Homolithic breccia, commonly exhibits red to brown, hematite, carbonate and feldspar altered fragments similar to adjacent wall rocks. Minor carbonate-hematite matrix

HELIKIAN, POSSIBLY APHEBIAN

Hc Gillespie Group: orange weathering, thick bedded dolomites, in part stromatolitic

Hs Quartet Group: black argillites and slates with minor interbedded quartzites

Hsa Altered Hs, red to red-brown alteration common along carbonate, feldspar and quartz filled fractures, some areas of pervasive alteration

Angular unconformity

PROBABLY APHEBIAN

Hcs_2 Fairchild Group: principly pale to medium green phyllites, minor spotted phyllites and limy horizons

~~~ Fault trace

Angular unconformity

LEGEND

- Soil sample location
- × Silt sample location
- ■ Rock sample location
- |—| Chip sample location

(Soil, silt, rock and chip samples: Ag in ppm)

★ Au Gold occurrence

FIG. WJV81- E5

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

Ag GEOCHEMISTRY

PIKE CLAIMS
EATON PROPERTY
WERNECKE JOINT VENTURE

January 21, 1982

SCALE – 1:10,000

200 100 0 100 200 300 400 500 600 Metres

200 100 0 100 200 400 600 Yards

090969

To accompany report dated ~~December 1981~~ January 1982
~~~

65°00'

134°25'

No Frog Creek

Otis Creek

Wild Tomato Creek

Slats Creek

Vicar Creek

Four Corner Creek

Sherbet Creek

West Slats Creek

Sandy Creek

Gestell Creek

Hcs$_2$

Hsa

Hs

Hb

Hc

Au

SLATS CREEK

GEOLOGY

HELIKIAN

Heterolithic breccia, variably altered, subrounded to rounded fragments in a matrix of hematite, carbonate and chlorite. Contains numerous large blocks of Hsa and homolithic Hb

Homolithic breccia, commonly exhibits red to brown, hematite, carbonate and feldspar altered fragments similar to adjacent wall rocks. Minor carbonate-hematite matrix

HELIKIAN, POSSIBLY APHEBIAN

Hil — Gillespie Group: orange weathering, thick bedded dolomites, in part stromatolitic

Hs — Quartet Group: black argillites and slates with minor interbedded quartzites

Hsa — Altered Hs, red to red-brown alteration common along carbonate, feldspar and quartz filled fractures, some areas of pervasive alteration

Angular unconformity

PROBABLY APHEBIAN

Hmg — Fairchild Group: principly pale to medium green phyllites, minor spotted phyllites and limy horizons

Fault trace

Angular unconformity

LEGEND

Soil sample location
Silt sample location
Rock sample location
Chip sample location
— Bi in ppm

Au Gold occurrence

LOCATION MAP
SCALE - 1:2,000,000

EATON PROPERTY

FIG. WJV81-E6

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

Bi GEOCHEMISTRY

PIKE CLAIMS
EATON PROPERTY
WERNECKE JOINT VENTURE

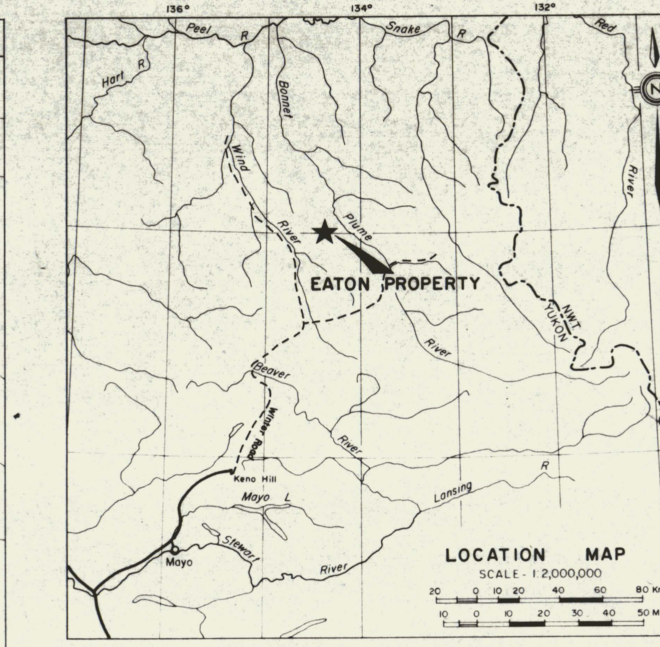
090969

January 21, 1982

SCALE - 1:5,000

To accompany report dated December, 1981

January 1982.



GEOLOGY

HELIKIAN

- Heterolithic breccia, variably altered, subrounded to rounded fragments in a matrix of hematite, carbonate and chlorite. Contains numerous large blocks of Hsa and homolithic Hb
- Homolithic breccia, commonly exhibits red to brown, hematite, carbonate and feldspar altered fragments similar to adjacent wall rocks. Minor carbonate-hematite matrix

HELIKIAN, POSSIBLY APHEBIAN

- Hc — Gillespie Group: orange weathering, thick bedded dolomites, in part stromatolitic
- Hs — Quartet Group: black argillites and slates with minor interbedded quartzites
  - Hsa — Altered Hs, red to red-brown alteration common along carbonate, feldspar and quartz filled fractures, some areas of pervasive alteration

Angular unconformity

PROBABLY APHEBIAN

- Hcs_2 — Fairchild Group: principly pale to medium green phyllites, minor spotted phyllites and limy horizons

~~~ Fault trace

Angular unconformity

LEGEND

- • Soil sample location
- × Silt sample location
- ■ Rock sample location
- ⊢⊣ Chip sample location

(As in ppm)

★ Au Gold occurrence

FIG. WJV81- E7

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

As GEOCHEMISTRY

090969

PIKE CLAIMS
EATON PROPERTY
WERNECKE JOINT VENTURE

[signature] January 21, 1982

SCALE – 1:10,000

200 100 0 100 200 300 400 500 600 Metres

200 100 0 100 200 400 600 Yards

To accompany report dated ~~December 1981~~ January 1982
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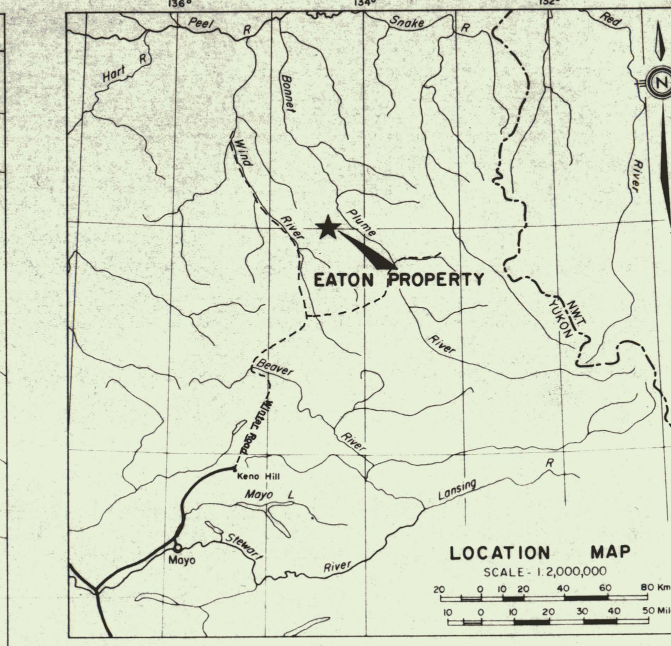

GEOLOGY

HELIKIAN

- (▲ ▲) Heterolithic breccia, variably altered, subrounded to rounded fragments in a matrix of hematite, carbonate and chlorite. Contains numerous large blocks of Hsa and homolithic Hb
- (○ ○) Homolithic breccia, commonly exhibits red to brown, hematite, carbonate and feldspar altered fragments similar to adjacent wall rocks. Minor carbonate-hematite matrix

HELIKIAN, POSSIBLY APHEBIAN

- Hc — Gillespie Group: orange weathering, thick bedded dolomites, in part stromatolitic
- Hs — Quartet Group: black argillites and slates with minor interbedded quartzites
- Hsa — Altered Hs, red to red-brown alteration common along carbonate, feldspar and quartz filled fractures, some areas of pervasive alteration

Angular unconformity

PROBABLY APHEBIAN

- Hcs_2 — Fairchild Group: principly pale to medium green phyllites, minor spotted phyllites and limy horizons

~ ~ ~ Fault trace

〰 Angular unconformity

LEGEND

- • Soil sample location
- × Silt sample location
- ■ Rock sample location
- ⊢ Chip sample location
- ★ Au Gold occurrence

Pb in ppm

FIG. WJV81- E8

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

Pb GEOCHEMISTRY

PIKE CLAIMS
EATON PROPERTY
WERNECKE JOINT VENTURE

W Dasfre Eta January 21, 1982

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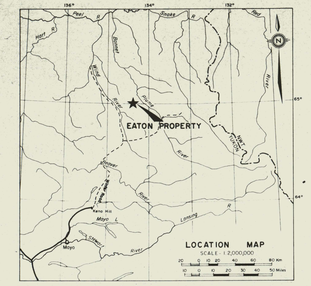
SCALE – 1:10,000

200 100 0 100 200 300 400 500 600 Metres

200 100 0 100 200 400 600 Yards

To accompany report dated ~~December 1981~~ January 1982



GEOLOGY

HELIKIAN

Heterolithic breccia, variably altered, subrounded to rounded fragments in a matrix of hematite, carbonate and chlorite. Contains numerous large blocks of Hsa and homolithic Hb

Homolithic breccia, commonly exhibits red to brown, hematite,carbonate and feldspar altered fragments similar to adjacent wall rocks. Minor carbonate-hematite matrix

HELIKIAN, POSSIBLY APHEBIAN

Hc — Gillespie Group: orange weathering, thick bedded dolomites, in part stromatolitic

Hs — Quartet Group: black argillites and slates with minor interbedded quartzites

Hhs — Altered Hs, red to red-brown alteration common along carbonate, feldspar and quartz filled fractures, some areas of pervasive alteration

Angular unconformity

PROBABLY APHEBIAN

Hcs_2 — Fairchild Group: principly pale to medium green phyllites, minor spotted phyllites and liny horizons

Fault trace

Angular unconformity

LEGEND

- Soil sample location
- Silt sample location
- Rock sample location — Co in ppm
- Chip sample location
- Au Gold occurrence

FIG. WJV81- E 9

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

Co GEOCHEMISTRY

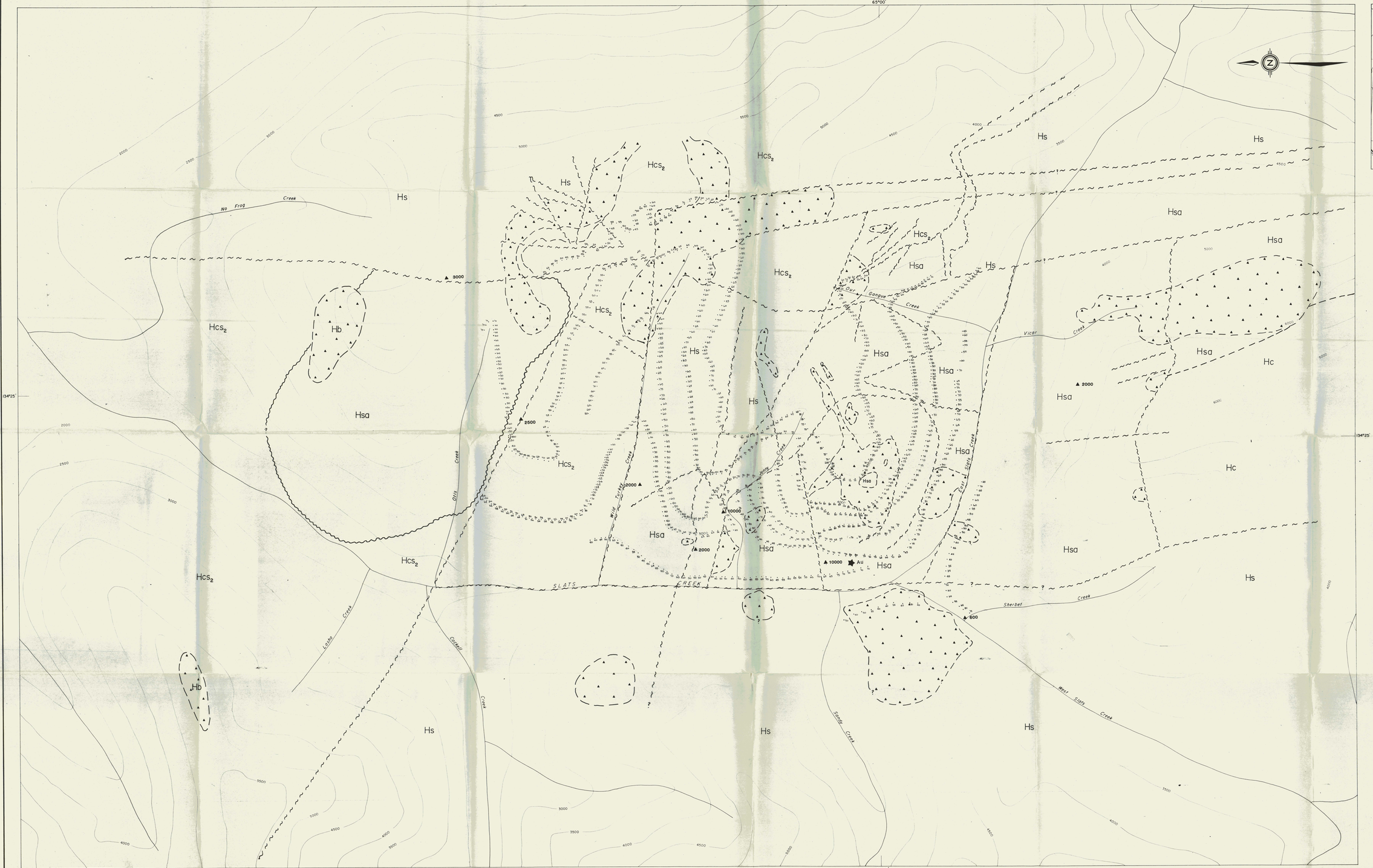
PIKE CLAIMS
EATON PROPERTY
WERNECKE JOINT VENTURE

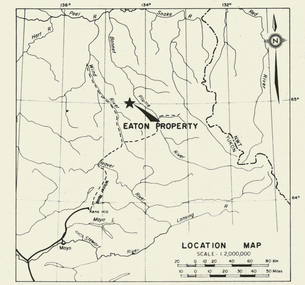
SCALE - 1:10,000

January 1982.

090969

To accompany report dated December 1981





GEOLOGY

HELIKIAN

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- Hsa — Altered Hs, red to red-brown alteration common along carbonate, feldspar and quartz filled fractures, some areas of pervasive alteration

Angular unconformity

PROBABLY APHEBIAN

- Hcs_2 — Fairchild Group: principly pale to medium green phyllites, minor spotted phyllites and limy horizons

Fault trace

Angular unconformity

LEGEND

- 50 — Radioactivity measured in counts per second at waist height with Scintrex BGS 1S
- 80 — Count per second countour line
- Au — Gold occurrence
- 2000 — Areas containing radioactive float with maximum counts per second measured in hand specimen with Scintrex BGS-1S scintillometer

FIG. WJV81-E10

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

RADIOMETRICS

PIKE CLAIMS
EATON PROPERTY
WERNECKE JOINT VENTURE

C.D. Wright Esq. January 21, 1982

SCALE - 1:10,000

090969

January 1982.

To accompany report dated December 1981