

GEOCHEMICAL REPORT ON THE

SPIDER, MAN & Ag QUARTZ CLAIMS

GRANT NUMBERS: YC02773, YC02774, & YC02775

NTS Map Sheet 105M/14

LATITUDE: 63° 55' 00"
LONGITUDE: 135° 22' 00"

MAYO MINING DISTRICT

REGISTERED OWNER: **WILLIAM D. MANN**

AUTHOR: WILLIAM D. MANN, M.Sc.

WORK PERFORMED SEPTEMBER 3-6, 2002



094433

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 1957.55.

for *M. Buck*
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

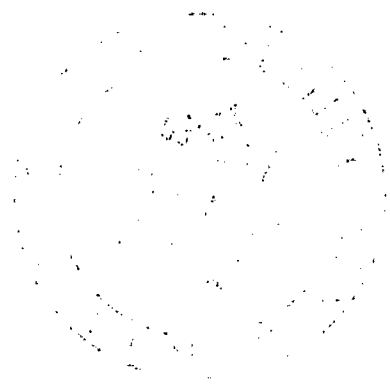


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Summary

The geochemical survey conducted on the SPIDER, MAN and Ag claims identified a moderately strong multielement anomaly near the MAN and Ag claim boundary. Several samples in this area returned anomalous values in silver, gold, zinc, lead, antimony, arsenic and cadmium. A followup program of detailed soil sampling is recommended for this area. Mapping and prospecting of the claims would also provide useful information.

Introduction and Terms of Reference

The Spider, Man and Ag claims are three contiguous Quartz mining claims located on the east slope of Galena Hill, in the Keno Hill mining camp, Yukon Territory. A soil geochemical sampling survey was conducted in 2002 for assessment purposes. The author of this report conducted the field work, and is the owner of the claims.

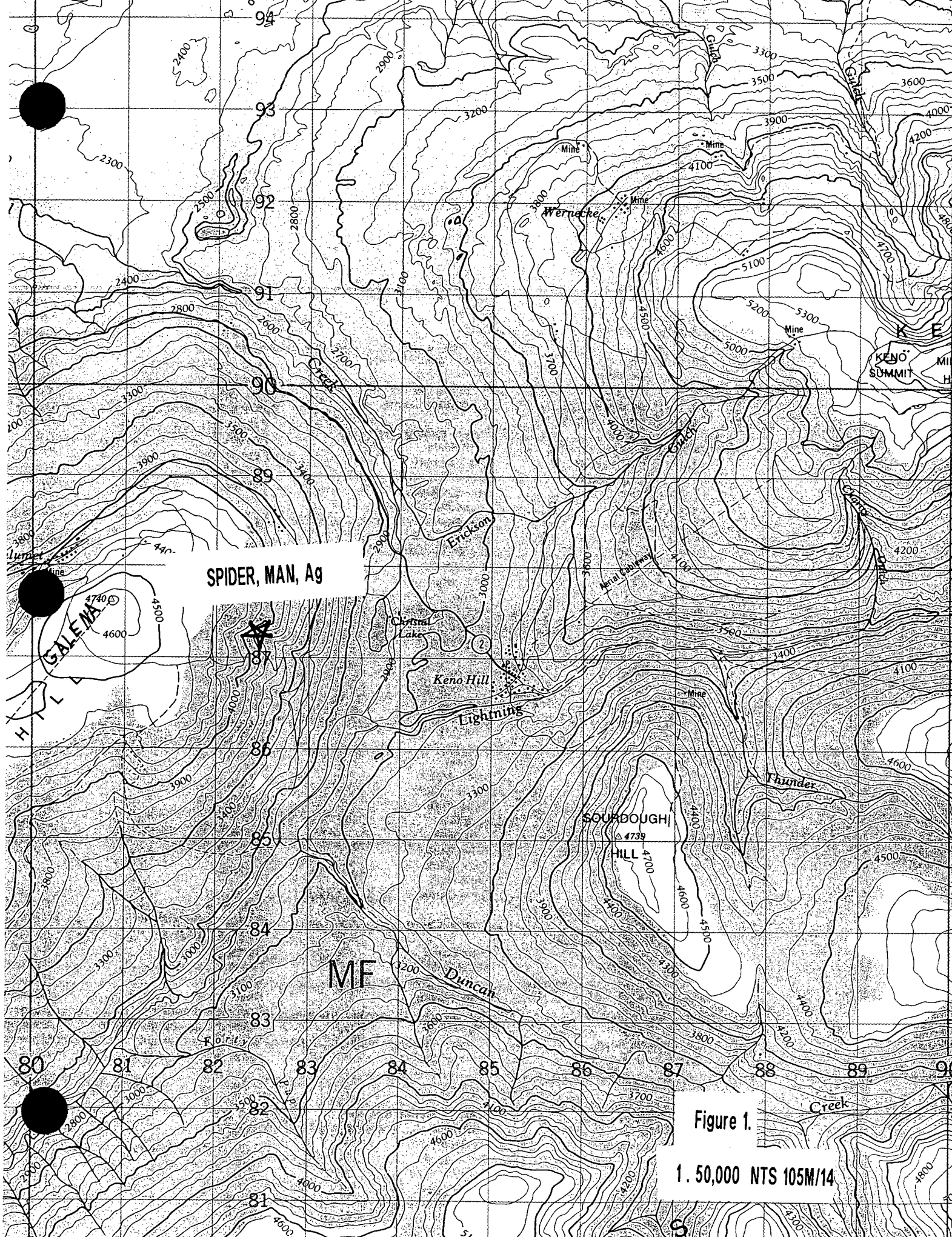
Property Description and Location

The property consists of three contiguous Quartz claims on Galena Hill in the Mayo Mining District, NTS 105M/14. Prior claims in the area had been legally surveyed ca. 1953, and the claim boundaries were marked with iron pins surrounded by stone mounds at that time. The survey pins were located, and the claims were staked such that the new claims correspond exactly to the previously surveyed lots. The Spider and Man claims adjoin along very narrow (about 4 feet) fractional projections of the claims (see figure 3). Metal claim tags have been affixed to the claim posts.

Claim List:

Grant No.	Name	Surveyed Lot No.	Area (Acres)	Expiry Date
YC02773	SPIDER	L422	30	2003/07/10
YC02774	MAN	L161	43	2003/07/10
YC02775	Ag	L427	43	2003/07/10

The property lies on the east slope of Galena Hill, overlooking Keno City. The Hector- Calumet mine, the most significant producer in the district, lies about 1 kilometre to the north.



SPIDER, MAN, Ag

Figure 1.

1:50,000 NTS 105M/14

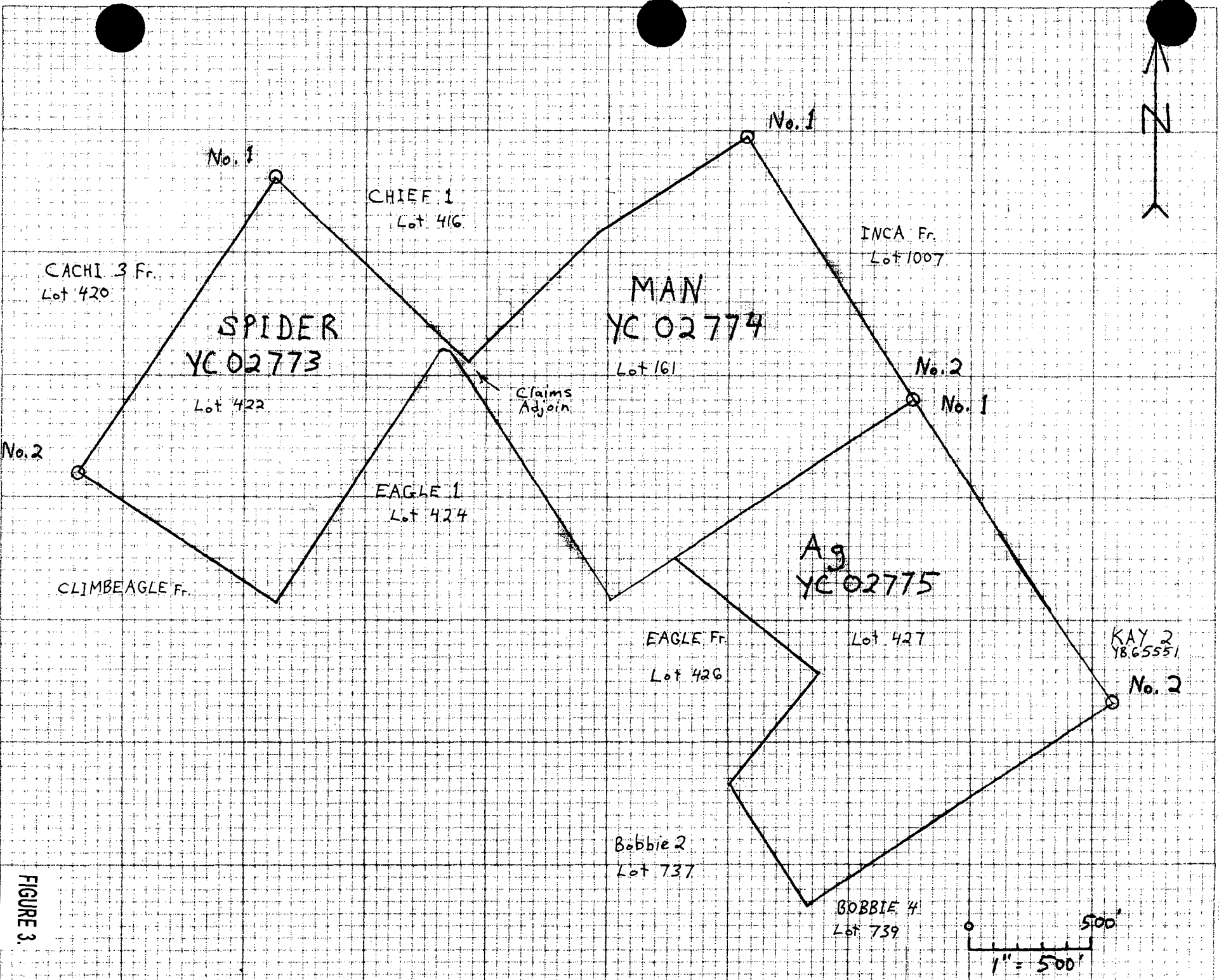


FIGURE 3.

Accessibility, Climate, Infrastructure, Physiography

Access to the property is excellent, with several roads and trails passing through or very near to the claims (figure 4). The road from Calumet to Keno City passes less than 100 metres from the eastern end of the Ag claim. A narrow, overgrown trail leads from this road up the hill, crossing the Ag and MAN claims before reaching the EAGLE vein, and the SPIDER claim. A major road/ trench cuts diagonally across the SPIDER claim, and leads to the "C" structure pit road, which is accessible by four wheel drive vehicles. Another trail leads from the EAGLE vein to the west, linking up with the road to the microwave towers. The climate is typical of the central Yukon, with long cold winters and mild summers. Permafrost is locally present.

The property is about ten minutes by truck from Keno City, which offers all the amenities of a city with a population of about 15. Hydroelectric powerlines are present less than 2 kilometres from the property.

The hilltops in the area escaped the late Pleistocene McConnell glaciation (Bond, 1998), and are rounded. Galena Hill has a maximum elevation of about 4700 feet; the claims lie between about 3500 and 4500 feet, just above the limit of the McConnell glaciofluvial cover. The valleys lie at about 3000 feet elevation, and thick glacial deposits are locally present. Most of the property is covered by a thin colluvium veneer, but may locally have some till from the Mid Pleistocene Reid glaciation. Outcrop is scarce: there is one prominent quartzite "tor" outcrop present along the northern boundary of the MAN claim. Talus slopes are common on the MAN and Ag claims. No outcrop or obvious subcrop was noted on the SPIDER claim.

The property is covered with mixed forest and patches of buckbrush, and treeline is formed at about 4500 feet, the elevation of the SPIDER claim. Hinton Creek drains all three claims, and flows into Christal Lake.

History

There are no assessment reports available for the claims, and there is no mention of the claims in the Yukon Minfile. The claims may have been part of the EAGLE property (Yukon Minfile 105M 021), where a significant silver vein is exposed in the wedge between the SPIDER and MAN claims. The EAGLE was discovered in the early 1920's, and has been explored intermittently since then. The Spider claim was called Spider when legally surveyed ca. 1953 (lot 422), and was subsequently restaked as FLY (Y68383). The FLY claim lapsed ca. 1999. The MAN claim was called MANZANA when legally surveyed (lot 161), and was subsequently restaked as JOAN (Y55572). The Ag claim was called AGNES when legally surveyed (lot 427), and was subsequently restaked as ANT (Y68381).

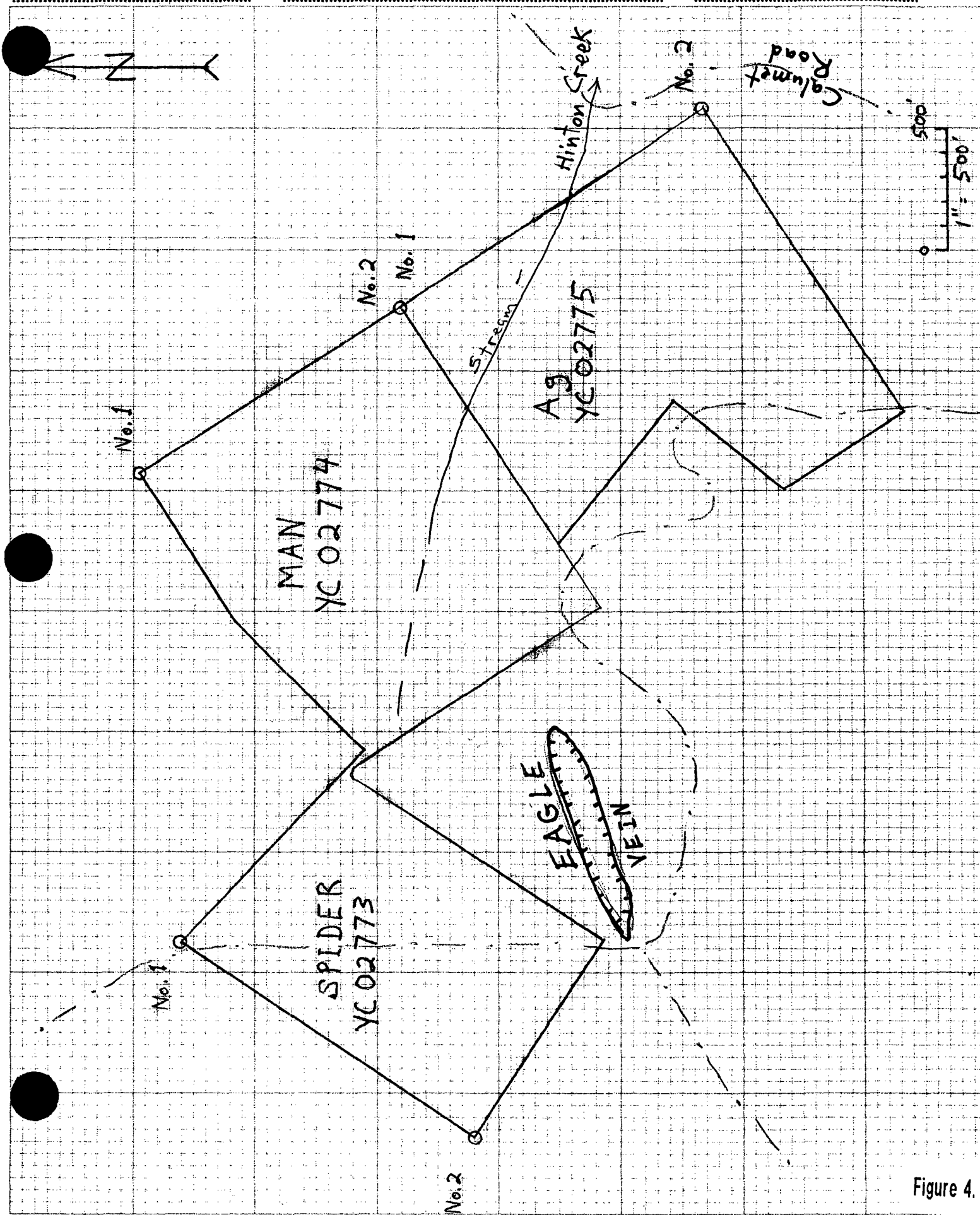


Figure 4.

Silver was first discovered in the district in 1903, and production started in 1913. The initial staking rush in the Keno Hill and Galena Hill area was in 1920. The Eagle vein was discovered in 1923.

Geological Setting

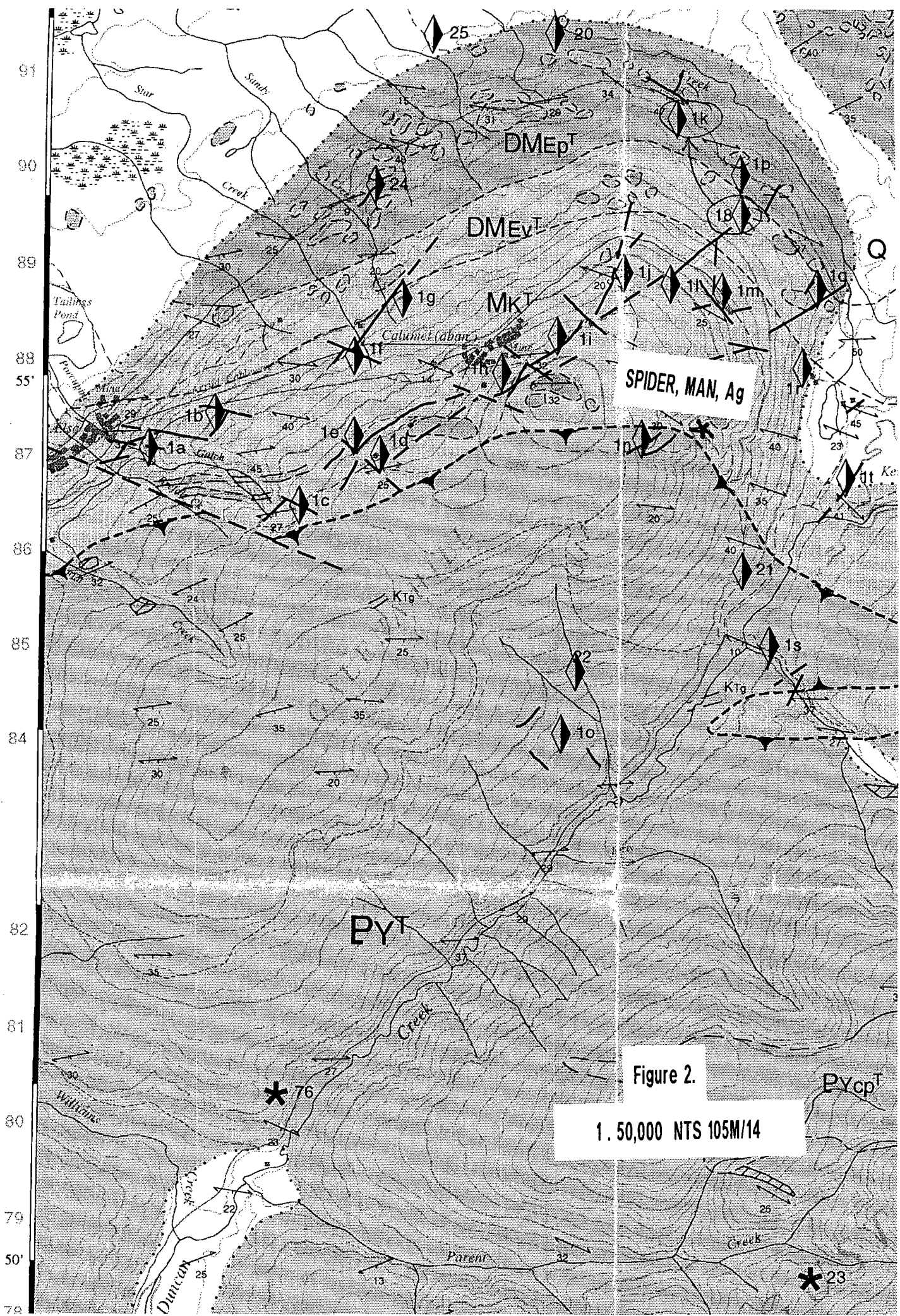
The claims are mostly underlain by the Early Carboniferous Keno Hill Quartzite (Murphy & Roots, 1996). The claims lie near the stratigraphic top of the unit, which averages up to 900m thick at Galena Hill (Roots, 1997). Massive grey quartzite beds 2 to 5 m thick are interspersed with thin carbonaceous and calcareous phyllite partings a few centimetres to tens of centimetres thick. The unit is well foliated and lineated, and highly deformed in the project area. The quartzite unit is locally intruded by small podiform bodies of Triassic metadiorite or metagabbro.

The stratigraphic units dip gently to the south in the area, and form the southern limb of the regionally extensive McQuesten anticline. Some nappe-like folds or thrust sheets have been documented within the unit on Keno Hill, across the valley. The Keno Hill quartzite is overlain by thrust faulted Upper Proterozoic Yusezyu Formation "grit unit", part of the Hyland Group. The Robert Service Thrust is a major regional structure, and its contact is thought to lie just south of the property.

Mineralization and Deposit Types

No mineralization is known on the claims, however the EAGLE vein (Yukon minfile No. 105M 021) is exposed about 20 metres away from the southern corner of the SPIDER claim.

Hydrothermal silver-lead-zinc veins are common in the district, with production recorded from scores of veins located over a twenty kilometre long area. Most of the veins, including the largest producers have been hosted by the Keno Hill Quartzite. The veins occur in steeply dipping faults which cut the brittle quartzite and greenstone intrusions. The veins are anomalous in a variety of elements, including As, Cd, Sb, Au and Cu. The EAGLE vein is described as a strong, transverse-type massive mesothermal tectonic vein, consisting of siderite, quartz, pyrite, sphalerite, arsenopyrite, galena and tetrahedrite.



SPIDER, MAN, Ag

Figure 2.

1:50,000 NTS 105M/14

91
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55'
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86
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81
80
79
50'
78

Q

PYcpT

23

25 20

DMEpT

DMEvT

MkT

PYT

Duncan Creek

Star Creek

Tailless Pond

Creek

Parent

Creek

Calimes (aban)

Gutck

Willains

18

21

22

10

1e

1c

1b

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Exploration

A cluster of samples near the *MAN* and *Ag* claim boundary are anomalous in Ag, Pb, Zn, As, Cd and Sb. The anomalies are sometimes subtle, with the following maximum values recorded in this survey:

Ag	2.7 ppm
Pb	508 ppm
Zn	738 ppm
As	56.4 ppm
Cd	3.7 ppm
Sb	3.1 ppm
Au	5.9 ppb
Cu	48.6 ppm

All of the above anomalies were returned from the *MAN* and *Ag* claims. Samples from the *Spider* claim were low in all elements of interest. Statistical analysis of the data was not completed due to the small number of samples (30).

Sampling Method and Approach

Survey lines were established by hip chain and compass, with orange flagging tape used to mark each sample site (figure 5). The survey lines run along claim boundaries, which have been cut, and have several iron pins with stone mounds to mark the lot boundaries. Samples were collected a few metres onto the claim rather than on the claim boundary. The sample interval varied between 30 and 45 metres, depending on the length of the claim line surveyed. This sample interval is considered to be reasonable for a linear reconnaissance approach to property evaluation.

Thirty soil samples (numbered 11437 – 11456, 6028 – 6036) were collected from holes dug with a spade, from the greatest depth easily obtained in the "C" horizon of mineral soil. The sample holes were filled in after sampling. The mineral soil was placed into Kraft paper soil sample bags. The depth of sample and a description of the soil was recorded (Appendix 1).

Samples were dried in a locked building, and then placed in a sealed cardboard box for shipment to the analytical laboratory by Greyhound bus. The sample collection, drying and all handling of samples was performed by the author until delivered to the bus.

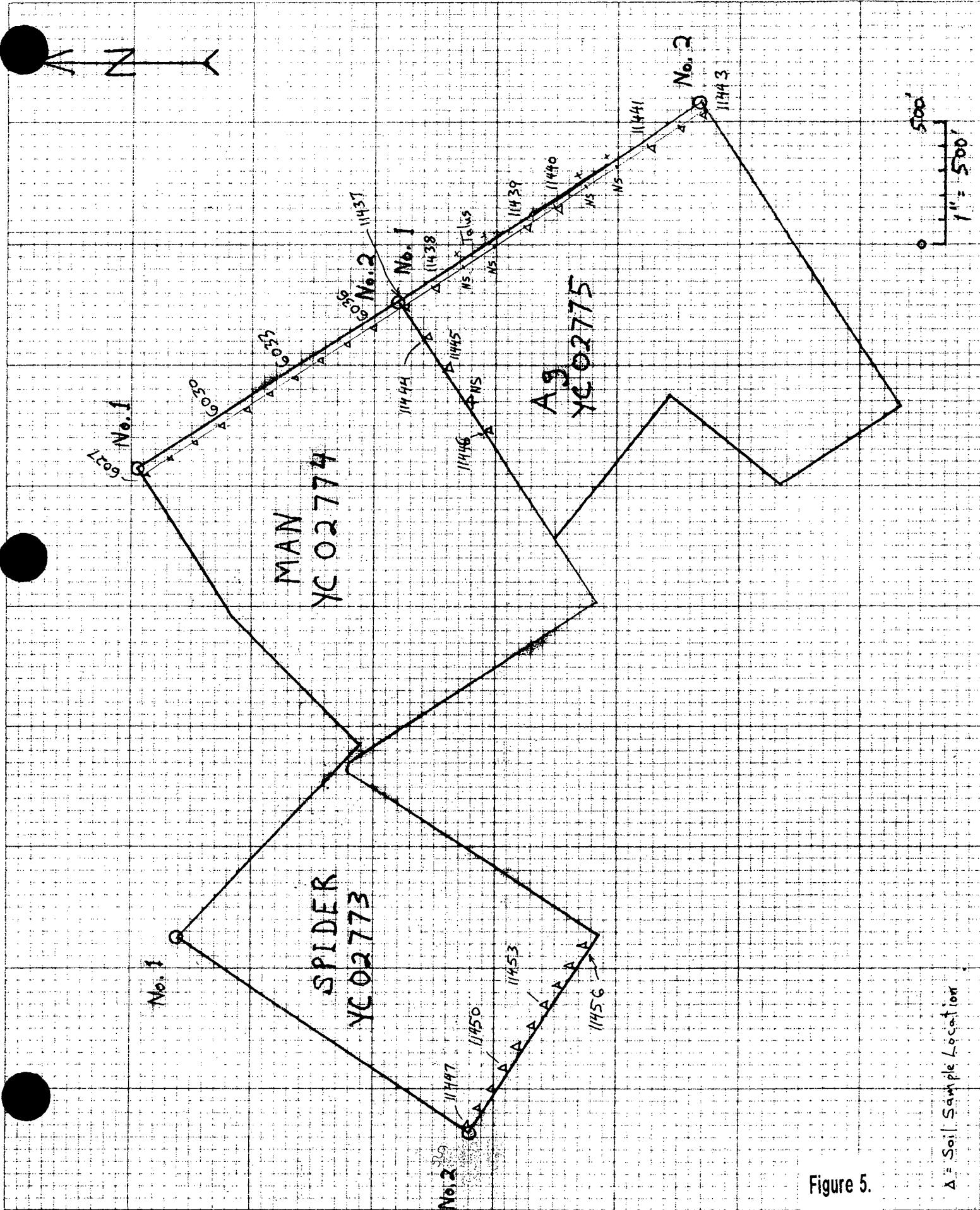


Figure 5.

△ = Soil Sample Location

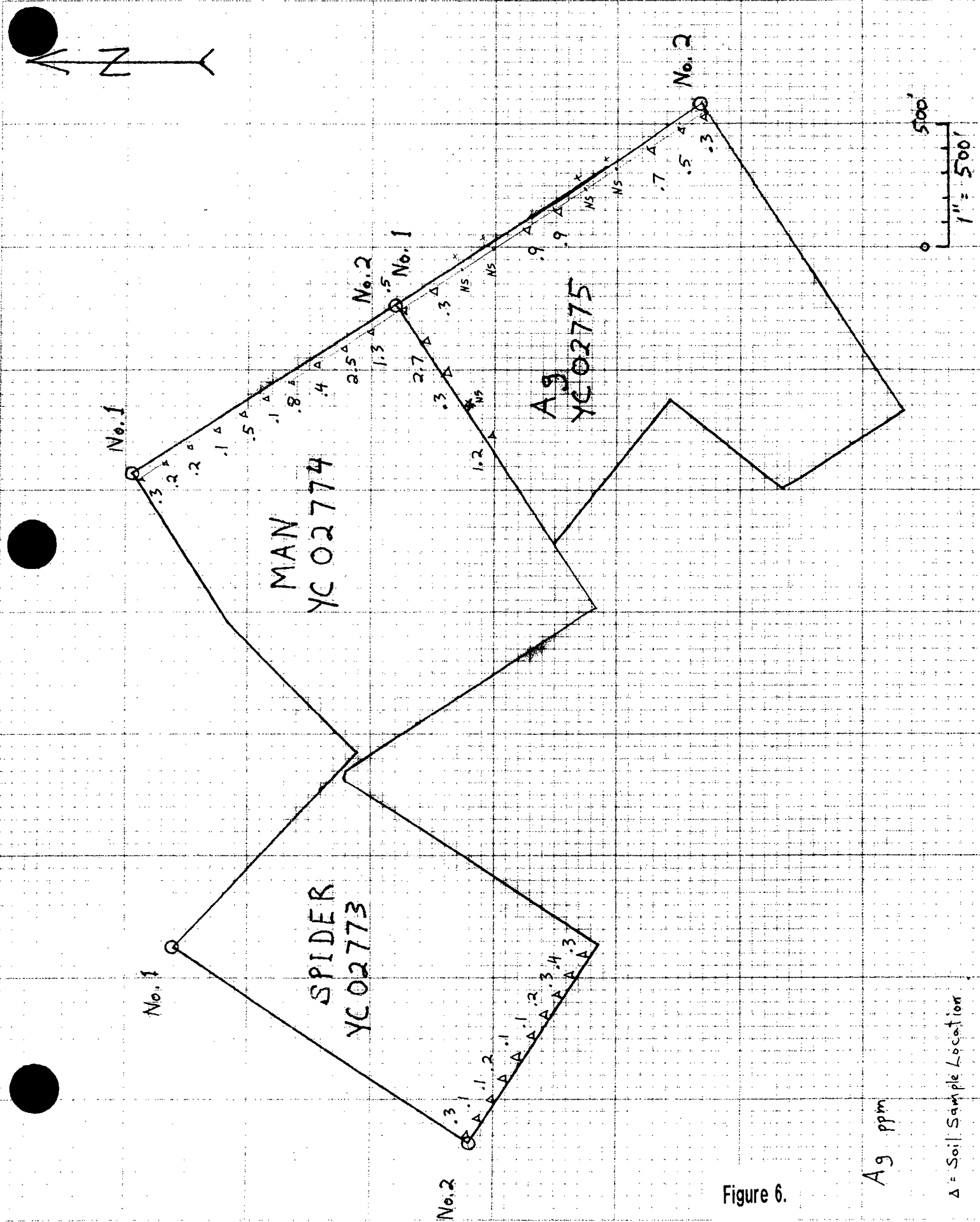


Figure 6.

Ag ppm

Δ = Soil Sample Location

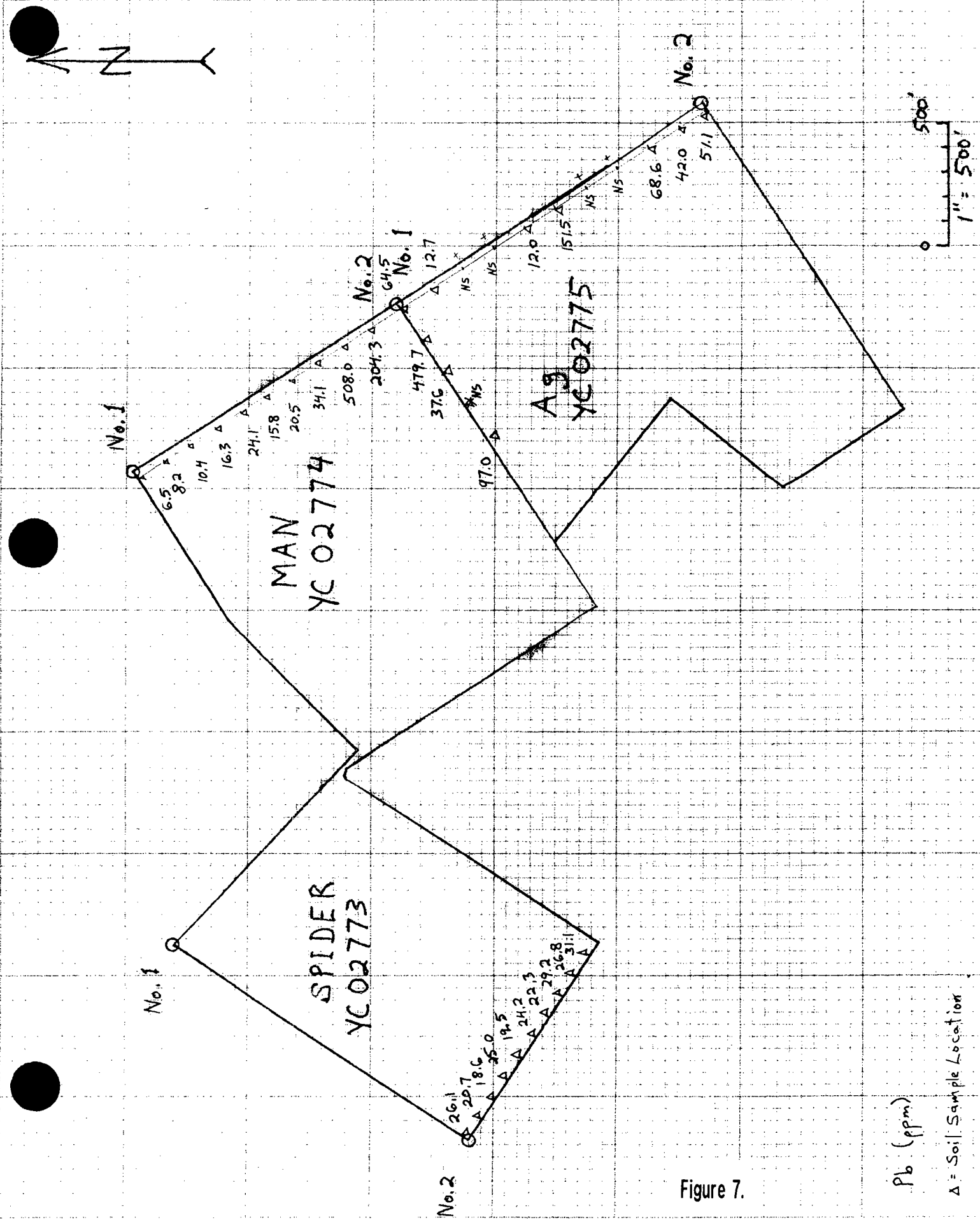


Figure 7.

Pb (ppm)
 Δ = Soil Sample Location

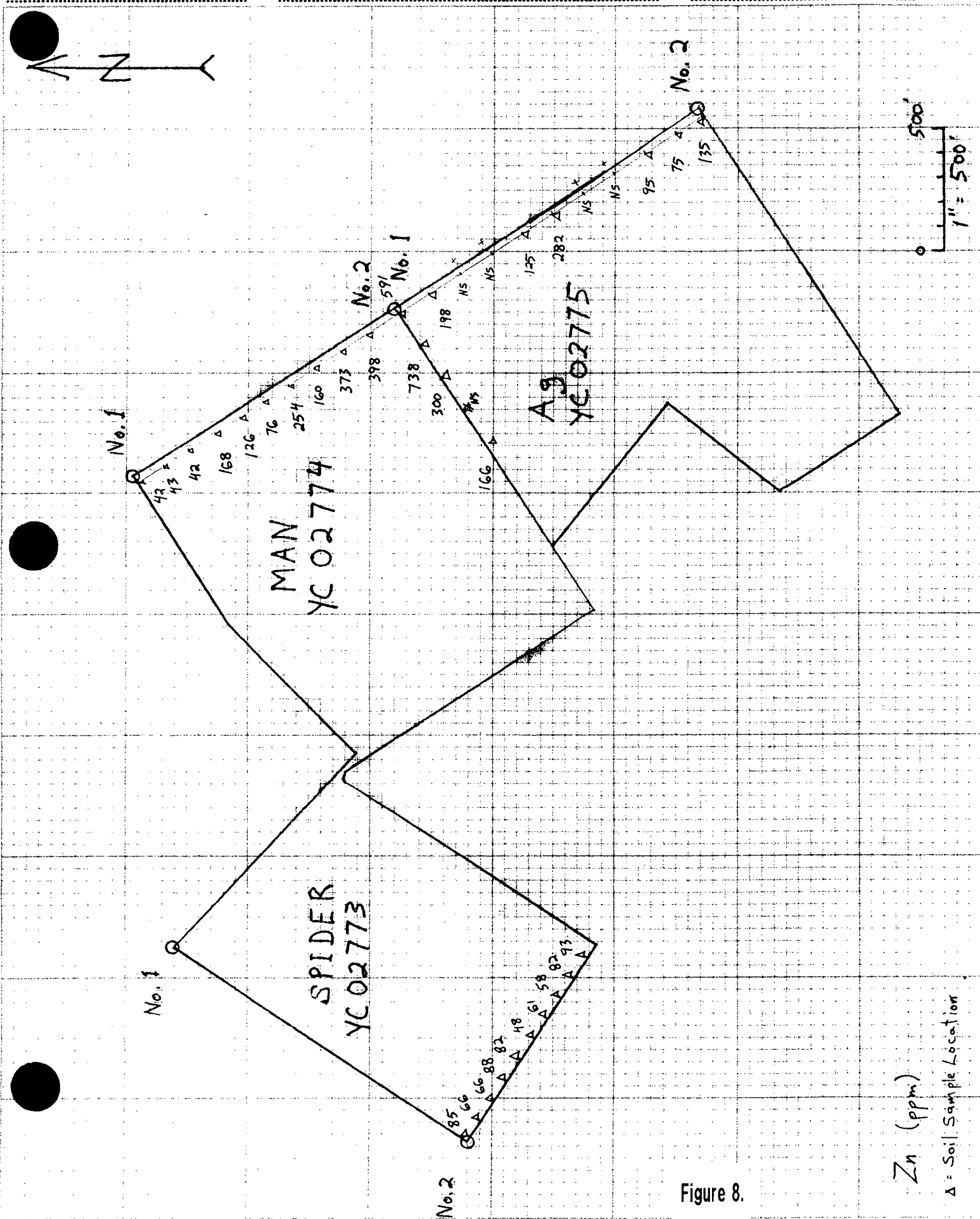


Figure 8.

Zn (ppm)
Δ = Soil Sample Location

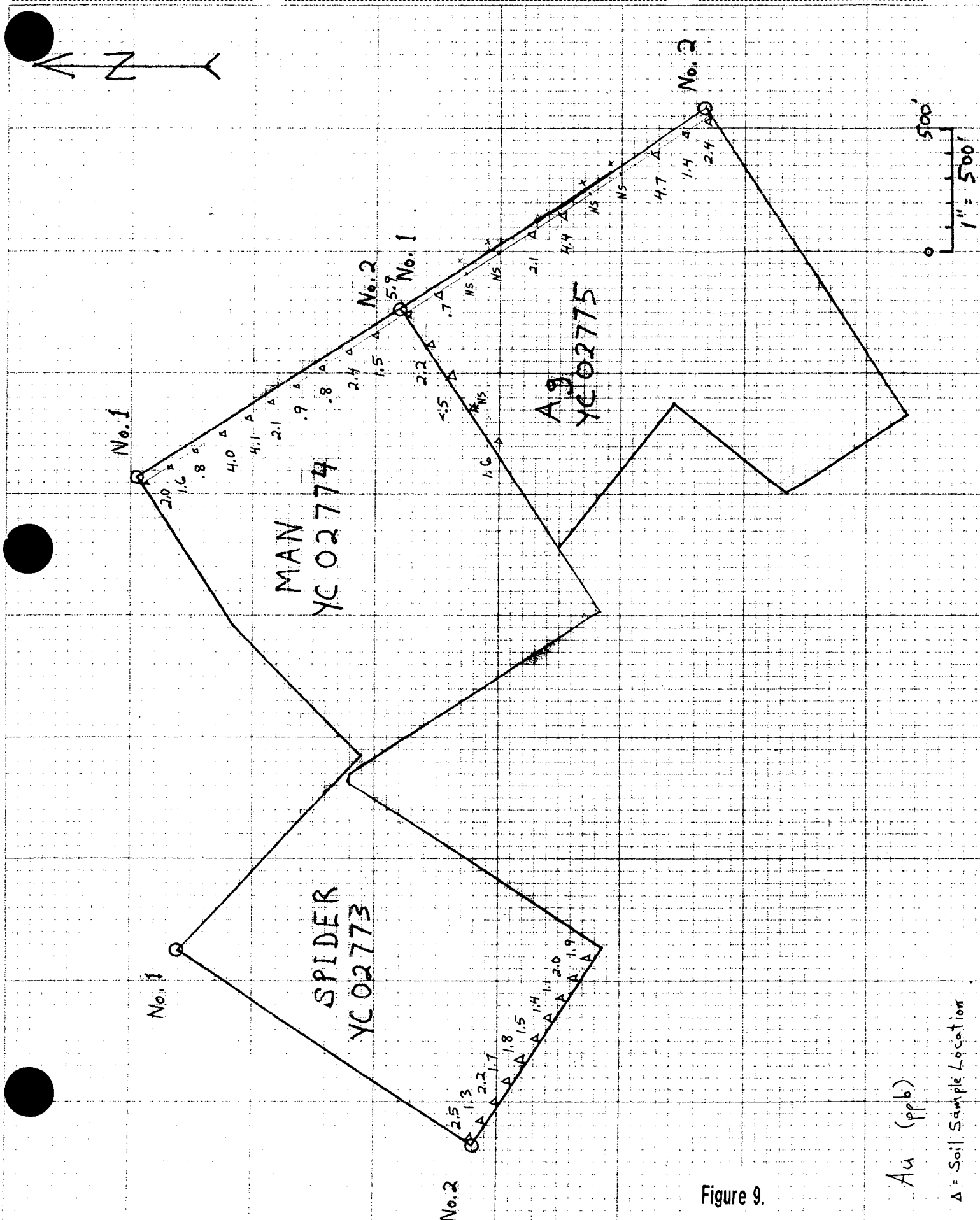
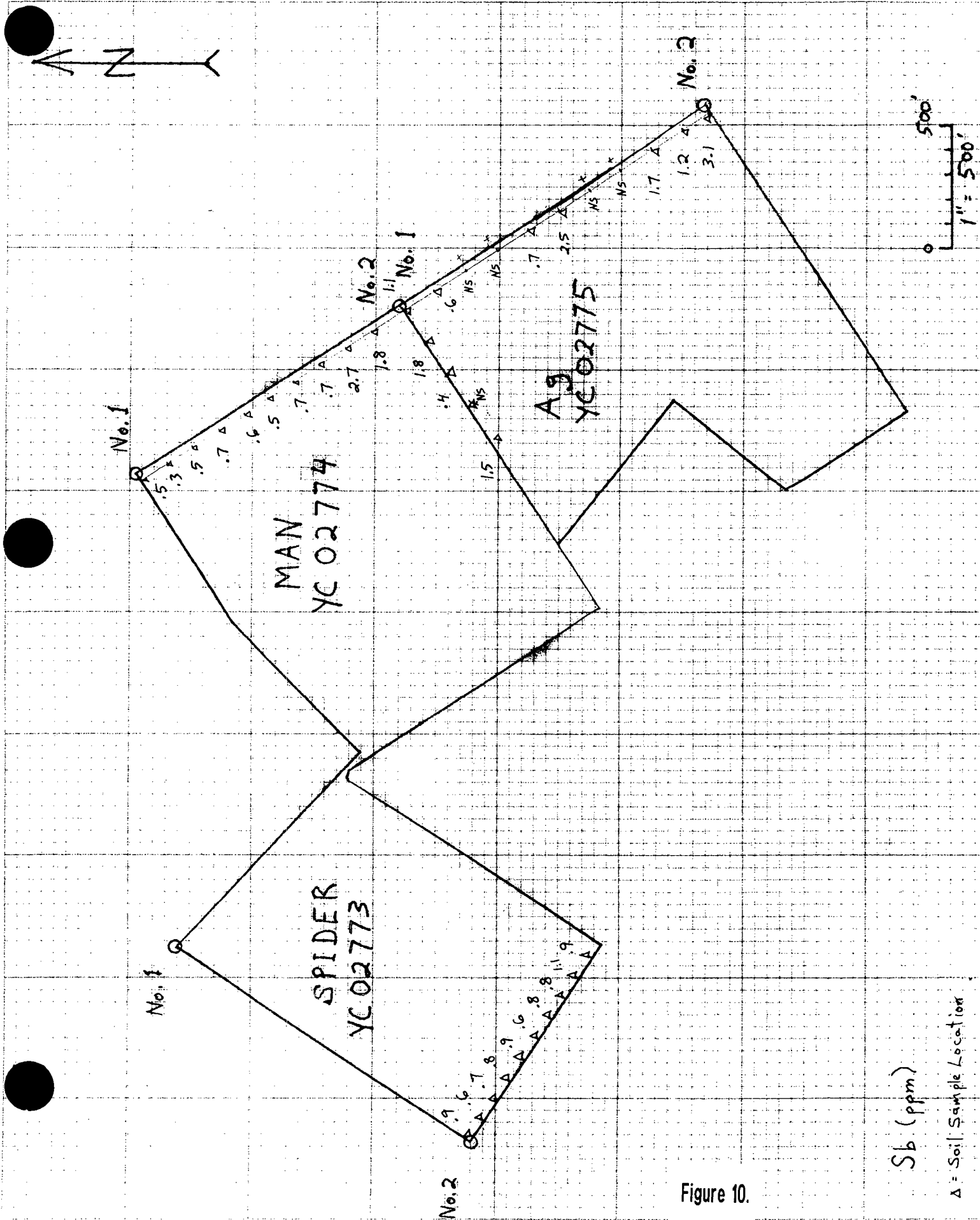


Figure 9.

Au (ppb)
Δ = Soil Sample Location



Sb (ppm)
Δ = Soil Sample Location

Figure 10.

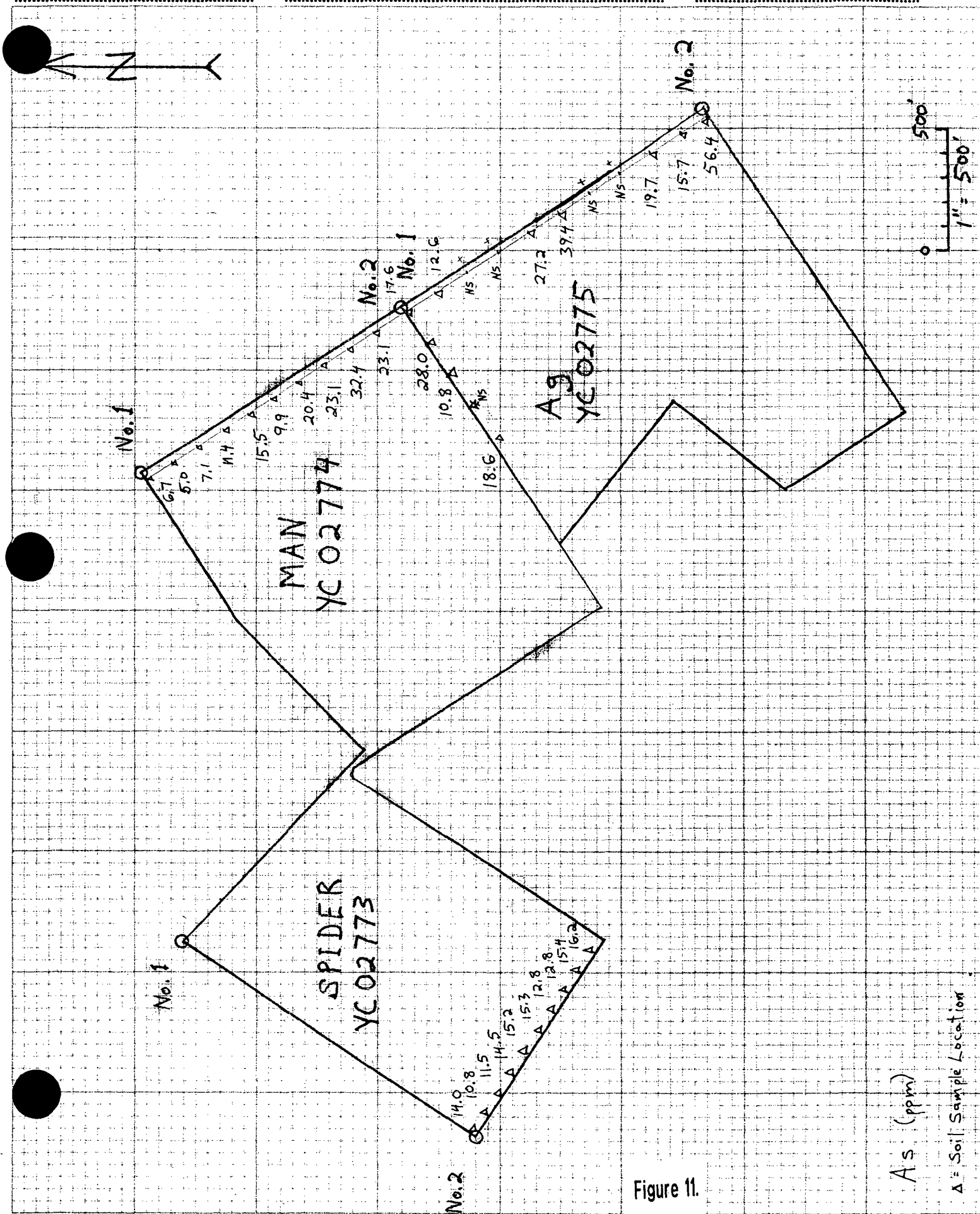


Figure 11.

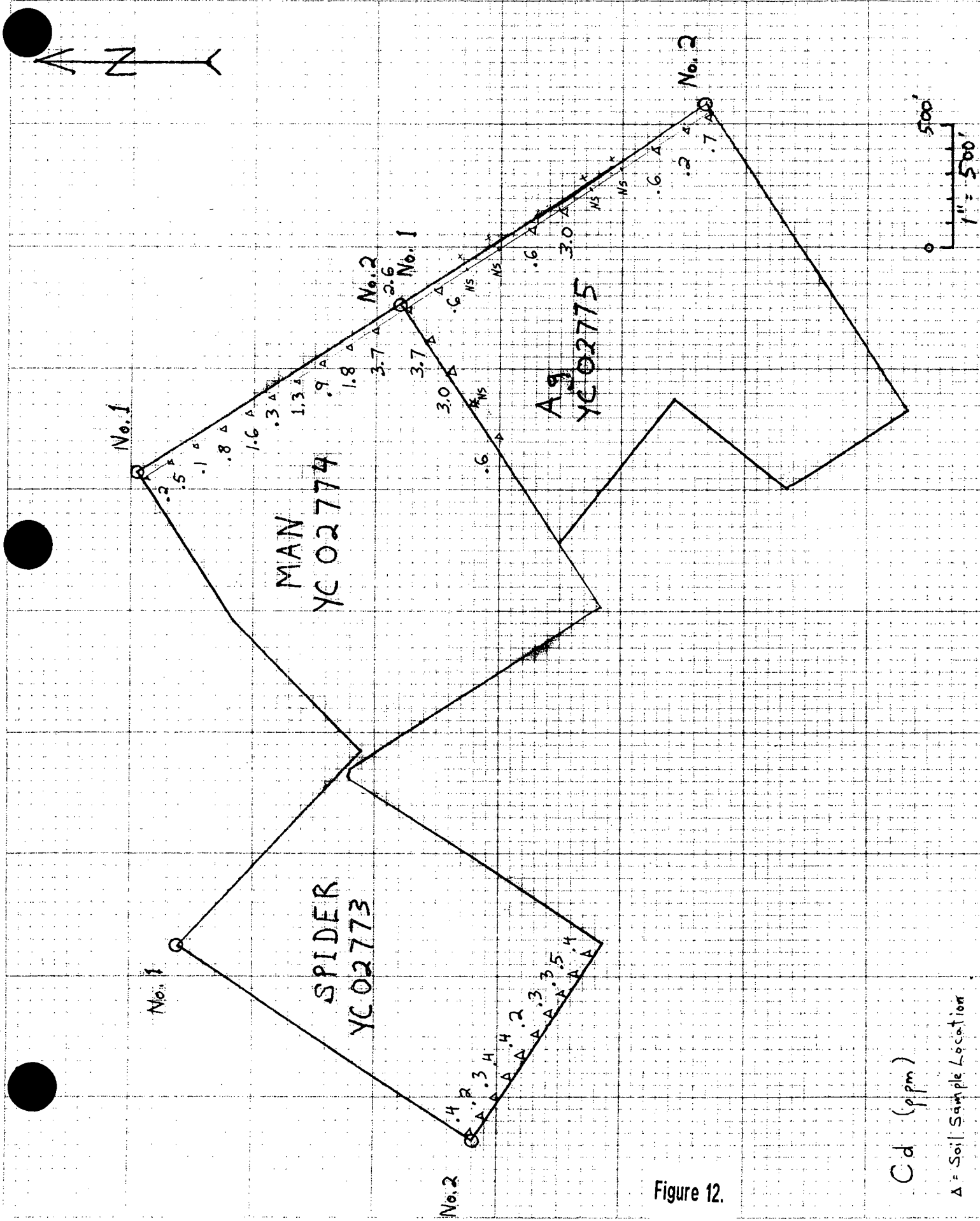


Figure 12.

Cd (ppm)
 Δ = Soil Sample Location

Sample Preparation, Analyses and Security

Samples were shipped to Acme Analytical Laboratories Ltd. of Vancouver, British Columbia, Canada. The samples were dried and sieved to -80 mesh. All of the samples collected in this prospecting program were analyzed in one batch. Soil samples were analyzed by the Group 1DX 36- element geochemical procedure as follows: 0.50 gm sample leached with 3 ml 2-2-2 HCl - HNO₃ - H₂O at 95 degrees C for one hour, diluted to 10 ml, analyzed by ICP/ES & MS. Results for the samples are presented in Appendix 2, and the results for selected elements were plotted on claim maps (figures 6-12). Detection limits and upper limits of analysis are presented in Appendix 3.

Data Verification

Acme Analytical Laboratories ran a Standard (DS4) and a Blank (G-1) with the batch of samples from the property for internal lab quality control. They also performed a re-analysis of one of the samples submitted (11440). The results from the original and re-analysis match very closely.

Adjacent Properties

Eagle Vein about 20 m to the south of the southern corner of the SPIDER Claim, and strikes towards the MAN claim. The vein is up to 4.9m wide, and is 50% exposed by trenching along a 300m strike length (Yukon Minfile, 1999). It is mineralized with erratic lenses of galena, tetrahedrite and sphalerite. The best drill intersection to date returned 1885 g/t Ag, 12.8% Pb and 4.2% Zn across 2.1m. The vein is noted to be complex and branching from interpretation of drill results. This could be favourable for the SPIDER claim, which lies as little as 20m away from the Eagle vein.

The Hector-Calumet mine lies about 1 km to northwest; this deposit accounts for about half of the historic 200 million ounces of silver production recorded in the Keno Hill District. 2.4 million tonnes were mined, yielding 2,955,000,000 grams of silver, with significant Pb and Zn grades. The Galkeno mine lies about 1 km north, on trend with the Hector-Calumet.

The Calumet "C" Structure pit lies about 200 m north of the Spider claim. This pit was a minor, lower grade producer of silver.

Conclusions and Recommendations

The multi-element soil anomaly located near the eastern part of the boundary between the MAN and Ag claims appears to be significant, and could indicate an extension of the EAGLE vein. This anomaly should be followed up by detailed prospecting and a more detailed soil grid. General prospecting and mapping of the three claims would also be warranted. The location of the property at the top of the favourable Keno Hill quartzite host rock suggests considerable depth potential to any mineralized structure that might be found here.

References

Bond, J.D., 1998. Surficial geology of Keno Hill, Central Yukon, NTS 105M/14. Exploration and Geological Services Division, Indian and Northern Affairs Canada, Geoscience Map 1998-4, 1:50,000 map.

Murphy, D.C., & Roots, C.F., 1996. Geological map of the Keno Hill area, Yukon (105M/14). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Geoscience Map 1996-5, scale 1:50,000.

Yukon Minfile; in Yukon Digital Geology, Gordey, S.P. and Makepeace, A.J. (comp.), INAC, 1999.

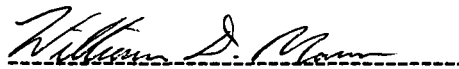
Roots, C.F., 1997. Geology of the Mayo Map Area, Yukon Territory (105M). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Bulletin 7, 82p.

STATEMENT OF QUALIFICATIONS

**WILLIAM D. MANN
19 HAYES CRESCENT, WHITEHORSE, YUKON**

1. I am a Graduate of Queen's University, 1986, with a Master of Science Degree in Mineral Exploration Geology.
2. I am a Graduate of the University of British Columbia, 1983, with a Bachelor of Science Degree in Geology.
3. I have worked in mineral exploration and mining since 1979.
4. I conducted the geochemical surveys of the SPIDER, MAN & Ag Claims in September 2002.
5. I am the owner of the SPIDER, MAN & Ag Claims.

July 10, 2003



William D. Mann, M.Sc.

APPENDIX 1

Description of Soil Samples:

<u>Sample #</u>	<u>Depth (cm)</u>	<u>Soil Colour</u>	<u>Description</u>
<u>MAN claim</u>			
<u>6027</u>	20	brown	till w/ angular boulders
<u>6028</u>	20	grey-brown	till w/ angular boulders
<u>6029</u>	20	grey	till w/ angular boulders
<u>6030</u>	10	yellow-brown	till w/ angular boulders
<u>6031</u>	30	grey-brown	till w/ angular boulders
<u>6032</u>	30	orange-grey	till w/ angular cobbles
<u>6033</u>	10	orange	till w/ angular boulders
<u>6034</u>	10	orange-brown	till w/ angular boulders
<u>6035</u>	20	orange-brown	till w/ angular boulders
<u>6036</u>	20	orange-brown	till w/ angular boulders
<u>Ag claim</u>			
<u>11437</u>	15	orange-brown	till w/ angular boulders
<u>11438</u>	5	grey-brown-orange	till w/ angular boulders
<u>11439</u>	20	orange-yellow-grey	silty till adj. talus slope
<u>11440</u>	10	grey-brown	silty soil near creek
<u>11441</u>	25	grey-brown	till
<u>11442</u>	20	grey-brown	till
<u>11443</u>	20	grey-brown	till w/ angular cobbles
<u>11444</u>	10	red-brown	till
<u>11445</u>	20	red-brown	till
<u>11446</u>	25	grey-brown	silty soil near stream
<u>SPIDER claim</u>			
<u>11447</u>	20	yellow-brown	till
<u>11448</u>	25	yellow-brown	till
<u>11449</u>	10	yellow-brown	till
<u>11450</u>	20	brown	clayey soil
<u>11451</u>	20	brown	clayey soil
<u>11452</u>	20	orange-brown	silty soil
<u>11453</u>	15	orange-brown	rocky soil
<u>11454</u>	10	brown	rocky soil
<u>11455</u>	10	yellow-brown	rocky soil
<u>11456</u>	10	brown	rocky soil

APPENDIX 2

Geochemical Results

GEOCHEMICAL ANALYSIS CERTIFICATE

Mann, Bill PROJECT KENO File # A300083

19 Hayes Cres., Whitehorse YT Y1A 5R2 Submitted by: Bill Mann

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	
G-1	1.8	3.3	2.5	47	<.1	4.5	4.1	564	2.02	.5	1.8	.8	4.6	88	<.1	.1	.1	44	.63	.079	9	17.5	.60	258	.142	<1	1.29	.108	52	3.3	<.01	2.6	.3	<.05	6
6027	.9	17.2	6.5	42	.3	13.3	4.9	146	1.71	6.7	.4	2.0	.8	11	.2	.5	.1	43	.14	.036	12	18.9	.31	150	.028	<1	1.19	.004	.03	.1	.03	1.7	.1	<.05	4
6028	1.0	34.5	8.2	43	.2	13.3	4.2	125	1.45	5.0	.8	1.6	.2	16	.5	.3	.2	35	.19	.040	13	19.6	.24	196	.016	<1	1.14	.004	.03	.2	.03	1.0	.1	<.05	4
6029	.9	13.8	10.4	42	.2	10.6	3.6	135	1.47	7.1	.4	.8	.6	10	.1	.5	.2	39	.10	.033	13	16.8	.24	111	.028	<1	.98	.003	.03	.2	.02	1.3	.1	<.05	5
6030	1.2	19.9	16.3	168	.1	18.6	6.5	250	2.09	11.4	.5	4.0	3.9	9	.8	.7	.1	38	.12	.044	15	21.5	.31	119	.033	<1	1.18	.003	.02	.2	.02	1.7	<.1	<.05	4
6031	2.6	36.4	24.1	126	.5	23.9	8.3	270	2.96	15.5	1.0	4.1	.2	17	1.6	.6	.3	74	.15	.075	12	31.4	.32	338	.015	<1	2.15	.005	.06	.2	.05	1.4	.1	<.05	8
6032	.9	19.3	15.8	76	.1	19.5	6.3	227	2.22	9.9	.6	2.1	2.5	10	.3	.5	.2	47	.12	.037	14	25.9	.43	133	.038	1	1.53	.004	.03	.1	.02	2.3	.1	<.05	5
6033	1.6	8.9	20.5	254	.8	10.9	5.8	272	2.70	20.4	.5	.9	2.5	7	1.3	.7	.2	62	.05	.051	12	25.4	.30	119	.021	<1	1.79	.003	.03	.3	.03	1.8	.1	<.05	6
6034	1.6	10.5	34.1	160	.4	13.1	5.5	275	2.99	23.1	.5	.8	2.7	10	.9	.7	.2	78	.08	.047	14	24.9	.34	155	.037	<1	1.58	.003	.03	.2	.03	2.2	.1	<.05	6
6035	1.3	26.6	508.0	373	2.5	16.7	5.7	315	2.87	32.4	.6	2.4	2.9	10	1.8	2.7	.2	64	.09	.040	14	26.2	.47	188	.025	<1	1.85	.003	.04	.2	.04	2.9	.1	<.05	6
6036	1.4	31.3	204.3	398	1.3	26.9	9.4	389	2.91	23.1	.7	1.5	4.1	12	3.7	1.8	.2	59	.13	.045	14	32.7	.48	233	.030	1	1.90	.004	.04	.3	.05	2.7	.1	<.05	5
11437	1.3	48.6	64.5	591	.5	23.4	8.2	581	2.48	17.6	.3	5.9	1.2	12	2.6	1.1	.3	66	.17	.038	9	27.6	.41	234	.036	<1	1.39	.004	.04	.2	.04	1.9	.2	<.05	6
11438	1.2	35.4	12.7	198	.1	21.0	9.5	294	2.86	12.6	.4	.7	3.2	10	.6	.6	.2	73	.13	.024	10	38.8	.52	185	.044	1	2.06	.004	.03	.2	.02	2.6	.1	<.05	6
11439	1.5	29.0	12.0	125	.9	28.2	8.3	184	3.31	27.2	.5	2.1	4.0	9	.6	.7	.2	60	.09	.041	11	30.7	.42	120	.029	<1	2.10	.003	.04	.2	.05	2.6	.1	<.05	5
11440	2.6	41.2	151.5	282	.9	25.5	23.7	2929	2.45	39.4	1.5	4.4	1.7	30	3.0	2.5	.3	47	.48	.076	19	27.5	.38	455	.013	2	2.10	.005	.04	.2	.15	2.9	.2	<.05	4
RE 11440	2.6	41.3	155.5	282	1.0	24.6	23.5	2912	2.48	42.0	1.5	3.5	1.7	31	3.4	2.5	.3	46	.47	.078	20	26.5	.39	467	.013	<1	2.14	.004	.03	.2	.16	3.0	.2	<.05	5
11441	1.3	20.4	68.6	95	.7	15.7	5.4	158	1.97	19.7	.7	4.7	.5	16	.6	1.7	.3	46	.12	.043	13	22.6	.31	281	.020	1	1.28	.004	.04	.2	.05	1.6	.1	<.05	5
11442	1.1	13.1	42.0	75	.5	14.4	6.2	156	2.01	15.7	.6	1.4	3.8	12	.2	1.2	.2	42	.12	.042	13	21.9	.36	181	.028	1	1.44	.004	.03	.2	.06	2.4	.1	<.05	4
11443	1.9	22.3	51.1	135	.3	17.7	5.4	195	2.96	56.4	.5	2.4	4.1	16	.7	3.1	.3	53	.07	.051	16	25.6	.33	149	.030	<1	1.31	.003	.03	.2	.02	2.2	.1	<.05	5
11444	1.3	23.9	479.7	738	2.7	20.5	8.9	429	3.42	28.0	.5	2.2	3.0	16	3.7	1.8	.2	76	.14	.046	12	32.3	.42	321	.022	<1	2.12	.004	.05	.2	.05	2.9	.1	<.05	7
11445	1.0	10.4	37.6	300	.3	10.7	10.6	1362	2.24	10.8	.2	<.5	1.2	14	3.0	.4	.2	58	.13	.030	10	20.9	.29	473	.025	<1	1.38	.004	.04	.1	.02	1.8	.1	<.05	5
11446	1.1	40.2	97.0	166	1.2	19.4	9.6	464	1.99	18.6	.9	1.6	1.5	23	.6	1.5	.2	42	.35	.062	12	26.3	.45	356	.015	2	1.32	.005	.03	.1	.11	2.7	.2	<.05	3
11447	1.0	21.2	26.1	85	.3	18.6	7.0	263	2.10	14.0	.8	2.5	2.2	11	.4	.9	.2	43	.14	.050	16	26.0	.39	128	.032	<1	1.47	.003	.03	.1	.04	2.2	.1	<.05	4
11448	.9	17.6	20.7	66	.1	15.3	6.1	191	1.92	10.8	.8	1.3	.5	10	.2	.6	.2	47	.13	.055	15	26.5	.39	102	.023	<1	1.53	.003	.03	.1	.04	1.7	.1	<.05	4
11449	.9	17.3	18.6	66	.1	16.1	4.3	145	1.94	11.5	.7	2.2	.6	9	.3	.7	.2	42	.12	.054	15	25.8	.42	85	.021	1	1.50	.003	.03	.2	.04	1.5	.1	<.05	4
11450	1.2	23.9	25.0	88	.2	19.0	7.3	297	2.31	14.5	.8	1.7	.6	10	.4	.8	.2	45	.12	.066	14	26.1	.40	111	.023	1	1.51	.003	.03	.2	.05	1.7	.1	<.05	4
11451	1.0	21.6	19.5	82	.1	21.9	11.0	487	2.40	15.2	.7	1.8	3.3	11	.4	.9	.2	44	.13	.069	13	24.8	.41	131	.028	<1	1.45	.004	.03	.2	.02	2.6	.1	<.05	4
11452	1.0	12.2	24.2	48	.1	13.3	6.0	262	2.99	15.3	.5	1.5	.8	7	.2	.6	.2	50	.07	.035	12	22.0	.30	69	.033	<1	1.15	.003	.03	.2	.02	1.3	.1	<.05	5
11453	1.1	17.3	22.3	61	.2	14.4	4.5	173	1.85	12.8	.6	1.4	.5	8	.3	.8	.1	39	.11	.051	12	19.0	.32	82	.023	<1	1.10	.004	.03	.2	.03	1.1	.1	<.05	4
11454	1.3	17.3	29.2	58	.3	12.7	4.1	138	1.77	12.8	.6	1.1	.1	7	.3	.8	.2	40	.07	.048	10	18.8	.28	71	.011	1	1.02	.003	.03	.1	.04	.5	.1	<.05	4
11455	1.2	18.9	26.8	82	.4	16.9	8.1	411	1.97	15.4	.6	2.0	1.2	9	.5	1.1	.1	39	.11	.053	15	20.4	.33	114	.026	1	1.11	.003	.02	.1	.03	1.7	.1	<.05	3
11456	1.6	19.2	31.1	93	.3	18.3	5.2	199	2.56	16.2	.7	1.9	.3	11	.4	.9	.2	42	.13	.058	13	22.4	.34	163	.015	<1	1.34	.004	.03	.1	.05	1.2	.1	<.05	4
STANDARD DS4	6.4	122.6	28.7	151	.3	33.0	11.4	772	3.03	21.1	6.0	25.5	3.4	26	5.1	4.1	4.8	74	.48	.079	15	156.0	.56	135	.078	<1	1.80	.028	.13	3.7	.26	3.4	1.1	<.05	6

GROUP 10X - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JAN 13 2003 DATE REPORT MAILED: *Jan 22/2003* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

APPENDIX 3

Analytical Detection Limits and Upper Limits

GEOCHEMICAL - ICP by Aqua Regia Digestion

GROUP 1C MERCURY BY COLD VAPOUR AA OR ICP-MS

Accurate, low level determination of Hg by Aqua Regia digestion followed by either cold vapour AA or ICP-MS analysis.

Element	Method	Detection	Cdn	U.S.
Hg	Cold Vapour AA or ICP-MS	10 ppb	\$4.40	\$3.30
Hg	Cetac Cold Vapour AA	1 ppb	\$7.70	\$5.80

Analysis is not suitable for high-grade Au, Pt or elevated Se samples (cold vapour method only). Acme retains the right to select the method of determination.

GROUP 1D, 1DX: ICP & ICP-MS ANALYSIS - AQUA REGIA

You can choose economically priced ICP-ES (Group 1D) or ICP-MS (Group 1DX) analysis to complement your exploration program. Sample splits of 0.5 g are leached in hot (95°C) Aqua Regia. Select a larger split size for more representative Au analysis. Au results may not be quantitative in massive sulphide and graphitic samples.

Group 1D	Cdn	U.S.
Any 1 element	\$3.85	\$2.90
Any 5 elements	\$5.20	\$3.90
All 30 elements	\$6.35	\$4.75
#include Hg and Tl add	\$0.50	\$0.40

Group 1DX	Cdn	U.S.
Any 1 element	\$7.00	\$5.25
Any 5 elements	\$8.00	\$6.00
All 36 elements	\$9.00	\$6.75
15 g sample add	\$3.50	\$2.65
30 g sample add	\$5.00	\$3.75

	Group 1D Detection	Group 1DX Detection	Upper Limit
Ag	0.3 ppb	0.1 ppm	100 ppm
AJ*	0.01 %	0.01 %	10 %
As	2 ppm	0.5 ppm	10000 ppm
Au	2 ppm	0.5 ppb	100 ppm
B*	3 ppm	1 ppm	2000 ppm
Ba*	1 ppm	1 ppm	1000 ppm
Bi	3 ppm	0.1 ppm	2000 ppm
Ca*	0.01 %	0.01 %	40 %
Cd	0.5 ppm	0.1 ppm	2000 ppm
Co	1 ppm	0.1 ppm	2000 ppm
Cr*	1 ppm	1 ppm	10000 ppm
Cu	1 ppm	0.1 ppm	10000 ppm
Fe*	0.01 %	0.01 %	40 %
Ga*	-	1 ppm	1000 ppm
Hg†	1 ppm	0.01 ppm	100 ppm
K*	0.01 %	0.01 %	10 %
La*	1 ppm	1 ppm	10000 ppm
Mg*	0.01 %	0.01 %	30 %
Mn*	2 ppm	1 ppm	10000 ppm
Mo	1 ppm	0.1 ppm	2000 ppm
Na*	0.01 %	0.001 %	10 %
Ni	1 ppm	0.1 ppm	10000 ppm
P*	0.001 %	0.001 %	5 %
Pb	3 ppm	0.1 ppm	10000 ppm
S	-	0.05 %	10 %
Sb	3 ppm	0.1 ppm	2000 ppm
Sc	-	0.1 ppm	100 ppm
Se	-	0.5 ppm	1000 ppm
Sr*	1 ppm	1 ppm	10000 ppm
Th*	2 ppm	0.1 ppm	2000 ppm
Ti*	0.01 %	0.001 %	10 %
Ti†	5 ppm	0.1 ppm	1000 ppm
U*	8 ppm	0.1 ppm	2000 ppm
V*	1 ppm	2 ppm	10000 ppm
W*	2 ppm	0.1 ppm	100 ppm
Zn	1 ppm	1 ppm	10000 ppm

See Page 6 for Group 1F-MS Aqua Regia / ICP Mass Spec analysis for ultratrace element determination

*Some elements are partially leached.

APPENDIX 4

STATEMENT OF COSTS

Two days of field work:	\$800.00
One day report preparation:	\$400.00
Travel: Whitehorse- Keno return(950 Km @ \$0.42)	\$399.00
<u>Analytical Costs:</u>	
Shipping (Greyhound)	\$ 31.51
Soil Preparation & Analysis (30 X \$10.50 plus GST)	\$337.05
TOTAL:	\$1,967.56

**ACME ANALYTICAL LABORATORIES LTD.**

852 East Hastings,, Vancouver, B.C.; CANADA V6A 1R6

Phone: (604) 253-3158 Fax: (604) 253-1716

Our GST # 100035377 RT



MANN, BILL
 19 Hayes Cres.
 Whitehorse, YT
 Y1A 5R2

Inv.#: **A300083**
 Date: Jan 23 2003

QTY	ASSAY	PRICE	AMOUNT
30	GROUP 1DX @	9.00	270.00
30	SS80 - SOIL @	1.50	45.00
			<hr/> 315.00
			315.00
			22.05
			<hr/> 337.05
			-337.05
			<hr/> 0.00

GST Taxable
 7.00% GST

RECEIVED CHEQUE #098 - THANK YOU.

CAD \$

Project: KENO
 Samples submitted by Bill Mann

COPIES 1 E-DATA 1

TERMS: Net two weeks. 1.5 % per month charged on overdue accounts.

[COPY 1]

Costs associated with this report have been
approved in the amount of \$ 1967.55
for assessment credit under Certificate of
Work No. Qmco497 - Qmco4971

[Handwritten Signature]

Mining Recorder
Mayo Mining District