SHIELD GEOPHYSICS LIMITED

MINING EXPLORATION CONSULTANTS AND CONTRACTORS

OFFICE: AIRPORT ROAD, (705) 268-5858

Aumo Exploration Inc.
c/o Mr. Stephen Wengle,
3rd Floor,
106 Adelaide Street, West,
Toronto, Ontario, M5H 1S2.

February 16, 1988

Dear Sirs:

Re: Proposed Diamond Drilling Programme
on the Denton Township Property
based on
Results of Overburden Drilling

Summary of Overburden Drilling

A total of 25 holes, averaging about 40 feet each, were drilled. The locations of these holes are shown on the accompanying map and the individual logs are enclosed. The sampling and analytical procedure is described by Overburden Exploration Services on the attached Appendices. Similarly a complete record of analyses from the bedrock and till samples is also enclosed.

Anomalous Samples and Their Significance

Seven of 132 samples contained anomalous metal concentrations. The hole locations of these samples are designated on the accompanying plan.

Assays from these samples including one bedrock sample are as follows:

Hole	Sample No.	As	Cu	Ni	Pb	Zn (ppm)	Au(opt)	Sample Type
88-5	22024	833	2185	1239	78	3980	0.029	basal till
88-8	22044	444	113	528	50	337	0.011	basal till (weak)
88-11	22068	508	969	16	39	50	0.024	basal till (weak)
88-13	22073	492	1193	151	40	368	0.006	basal till
88-14	22080	249	267	115	78	355	0.018	basal till

								(weak)
88-14	22081	2453	271	20	73	220	0.024	bedrock
88-21	22115	217	197	49	61	70	0.076	basal till
							weak, except for Au	
88-24	22125	12	19	1	40	17	0.077	till
							only Au anomalous	

Arsenopyrite, chalcopyrite and sphalerite are often associated with gold mineralization in the area. Arsenopyrite is invariably associated with gold at the Holmer and Gowest deposits, the most significant occurences in the immediate area. Chalcopyrite and sphalerite are found in narrow gold bearing quartz lode deposits in the quartz diorite intrusive to the northeast. Copper, zinc and in particular arsenic are therefore important pathfinder metals in the search for a gold source.

Gold values in the till, associated with visible particles, are the most important diagnostic feature of an anomalous sample. However, the till samples lack significant gold grain counts or high values.

Inasmuch as bedrock samples do not undergo a concentrating process, a much lower metal value is considered anomalous and may identify a drill target. Anomalous basal till samples indicate a nearby source up-ice as compared to till samples higher in the section which are derived from a more remote source.

A value of 0.024 oz. gold per ton was reported from the bedrock sample (No. 22081) of hole 88-14. Related to a high arsenic value, this gold value is definitely anomalous and identifies a drill target. The sample overlies the axis of a magnetic linear which coincides with the No. 3 gold bearing vein to the north, tested by previous drilling.

Adjacent and 100 metres to the east, a basal till sample is moderately anomalous in arsenic, copper and zinc. A VLF conductor adjoining a magnetic linear is located at the site of hole 88-13. Because of the similarity of these geophysical features to those associated with the No. 3 vein it is proposed that this anomaly be tested by diamond drilling.

Basal till members in each of holes 88-5, 88-11 and 88-21 are anomalous and appear too be related to a conductor and coincident

magnetic linear, trending northerly. Diamond drill hole 80-21, apparently lacking gold values, was drilled 100 metres north of overburden hole 88-5 which contained the strongest concentrations of arsenic, copper, nickel and zinc. The anomalous metal concentrations along the geophysical features suggests a change in the mineralogy of the conductive horizon and therefore merits additional testing by diamond drilling.

Samples in holes 88-8 and 88-24 are weakly anomalous in metal values. Because of their proximity to the property boundary and lack of coincidence to geophysical features, drilling is not proposed for this area.

Conclusions

All of the anomalous samples except two are basal till members adjacent to bedrock which indicates a nearby source of the anomalous metals. Furthermore a majority of the anomalous samples are located on or adjacent to previously defined geophysical features.

The anomalous bedrock sample (hole 88-14) coincides with a magnetic linear which in turn coincides in part with the No. 3 gold bearing vein reported to be represented by a pyritized graphitic zone (Bradshaw, 1987).

It is apparent therefore, that the northerly trending geophysical features represented by iron formation units adjacent to graphitic shears may host significant gold mineralization. Evidence suggests however, that the gold mineralization may be erratic and discontinuous, requiring closely spaced diamond drilling.

The holes proposed on the accompanying map total approximately 3200 feet. It is therefore suggested that initially, a contract for 4000 feet be executed.

Respectfully submitted,

R.J. Bradshaw, P. Eng.
Geologist

APPENDICES

Drilling Equipment

Bradley Bros. Drilling of Timmins, Ontario provided a reverse circulation Acker drill system, mounted on a Nodwell FN160 and enclosed for all-weather operations. This is a fully hydraulic rig, and therefore provides excellent daily drilling production.

The dual-tube drill rods used by Bradley Bros Drilling measure 10 ft long by 2.75 inches (-outer rod, 1 inch inner rod), and are fed in 10 ft strokes by the Acker drill. A controlled mixture of compressed air and water is pumped down the outer annulus of the drill rod string to a tricone bit, measuring 2.94 inches in diameter, which is adapted to the rods by a 1 ft 'sub'. The bit cones are fitted with tungsten carbide buttons, the configuration of which reduces boulders and bedrock to chip size. The pressurized air-water mixture ensures that sediment/rock chip returns are brought to surface almost instantly through the 1 inch inner tube, thus enabling the geologist to accurately correlate overburden lithostratigraphy with downhole depth.

Logging and Sampling Procedures

The returning sample slurry produced by reverse circulation is slowed down at surface by a cyclone which discharges directly into the sampling equipment. The sample passes through a 10 mesh (1.7mm) screen which collects sediment globules and coarse, multi-minerallic rock fragments, thereby enabling the petrological details of overburden units to be noted. A small cut of the +10 mesh fraction is saved for later examination in the event of anomalous geochemical results. The 10 mesh sieve is supported over the primary sampling bucket by a larger 1 cm screen.

Sample collection by OES employs a three-bucket system. The sample slurry is directly dispensed in a plastic bag which lines a 20 litre primary bucket. Overflow decants into a second unlined bucket where the fines (silt and minor clay) are collected. To reduce the suspension of fines by turbulent churning, the decant spout is dispersed against the side of the second bucket, thereby maximizing the settling out of predominantly silt sized fines.

To maintain data control and accuracy, sampling intervals are confined to individual lithostratigraphic units, keeping overlap to a minimum. Sampling intervals generally average 2-2.5 m in thicker, sorted (glaciofluvial) units, but were reduced to a maximum of 1.5 m in till or diamicton units. In cases where drill penetration through glaciofluvial sediments produce very high volume returns, samples are reduced on-site to a representative size. Where similar high volume returns were experienced over short intervals in dense, compact till units, total samples are not reduced, but split into A and B subsamples.

Contamination controls are strictly maintained by OES personnel. All sampling equipment coming in contact with sample materials are constructed of stainless steel. To minimize sample handling and the possibility of cross-contamination, samples are captured directly into bags, thereby eliminating the step of arbitrarily 'grab' sampling from bucket to bag. Sample bags are sealed immediately and placed in metal cans on-site for shipment.

Sample Processing

Bulk overburden samples obtained during this program were shipped to the heavy minerals laboratory of Overburden Exploration Services in Timmins, Ontario. No sample splits were taken. A flow sheet depicting OES heavy mineral concentration procedures is shown in Figure 2.

Bulk samples are first weighed (wet); the entire sample is then wet-screened through a 10 mesh (1.7mm) sieve to remove any +2mm rock fragments and sediment globules present. The remainder is passed through a classifier before release onto the specially modified Deister shaker table where the combined action of continuous water flow and controlled agitation on the riffled table surface causes the sample to partition into discrete mineral bands according to specific gravity. Heavy minerals largely consisting of horneblende, epidote, garnet, pyrite, and magnetite (ascending order) form distinct bands higher up on the table deck, all of which are captured as the table preconcentrate.

Visible gold grains coarser than 125 microns generally ride 5-10cm above the magnetite band on the shaker table, with finer gold (less than 125 microns) riding peripheral to, or within, heavy mineral bands of lower specific gravity. In monitoring the partitioning of heavy minerals under magnification, free gold grains are readily observed on the table and counted.

Table preconcentrates are subjected to a magnetic separation procedure which typically reduces the sample by another 25-30%. Only materials with the highest magnetic susceptibilies (i.e. drill steel and magnetite) are removed to yield a non-magnetic preconcentrate; pyrrhotite and most ilmenite remain.

This fraction is further refined by a heavy liquid separation (methylene iodide, S.G. 3.32) to produce the final non-magnetic heavy mineral concentrate (HMC) ready for assay.

Panning Procedures

HMC's noted on the shaker table to contain visible gold grains and/or significant sulphides are specially panned and examined under the binocular microscope. Individual gold grains are measured three dimensionally to calculate the expected Au ppb values based upon their apparent volume related to concentrate weight.

Visible gold grains are classified by OES according to the current industry standard as outlined in Ontario Geological Survey Open File Report 5569, but only to the extent of 'pigeon-holeing' typical grain shapes for comparative purposes.

Under this classification, "delicate", "irregular", "abraded" and "rounded" forms comprise a morphological continuum that attempts to directly relate grain shape with glacial transport distance (up-ice distance to auriferous bedrock sources). While seemingly convenient, this classification strictly assumes that originally, all free gold grains were mechanically liberated at the bedrock-ice interface, englacially transported down-ice, and

deposited by subglacial lodgement processes. The simpler the three dimensional grain shape, the greater the distance of mechanical abrasion and hence, distance to bedrock source.

In fact, this popular gold grain classification scheme fails to consider the effects of several important factors, including;

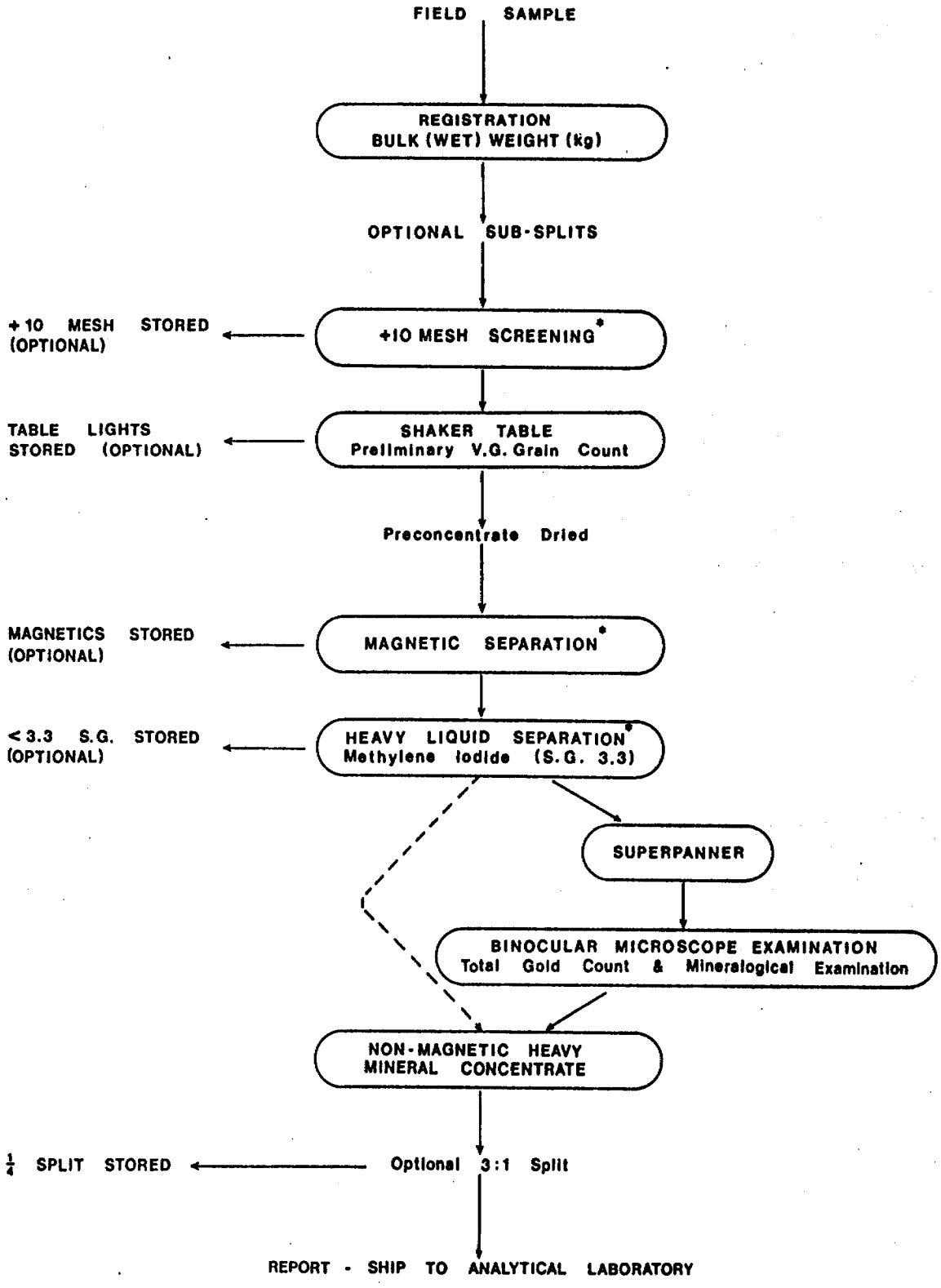
(i) the complex diversity of sediment transport/depositional mechanisms and ice dynamics which exist in the glacial environment, and their multiple impacts upon gold grain shape;
(ii) original gold form within rock;
(iii) gold liberated directly from mineralized rock fragments in the overburden upon impact by the drill bit;
(iv) possible effects of hydromorphic precipitation upon gold grain shape.

In considering the above points, the validity of the current gold grain classification scheme is suspect. OES therefore does not use nor recommend interpretation of distance to bedrock sources based upon grain shape alone.

Assay Methods

Non-magnetic heavy mineral concentrates and bedrock chips from the AD888 overburden drilling program were shipped directly to Minen Laboratories, Timmins, Ontario. Both sample types were analyzed for Au (fire assay), and by inductively coupled plasma emmission (ICP, 6-element package) for As, Cu, Zn, Pb, Ni and Mo.

HEAVY MINERAL CONCENTRATION FLOW CHART



* PROCESSING SPLITS WEIGHED AND RECORDED AT EACH STAGE

FIGURE

OVERBURDEN EXPLORATION SERVICES LTD.

REPORT DATE: Jan. 26, 1988
CLIENT: Aumo Exploration
SERIES: ADB-88

	Kg.(wet)		Grams (dry)					
Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Lites	M.I.H.	Con.F.
22000	6.67	.05	6.62	68.81	7.27	61.54	39.98	21.56	307
22001	7.32	.03	7.29	41.73	9.59	32.14	13.06	19.08	382
22002	6.04	.02	6.02	33.92	10.80	23.12	7.37	15.75	382
22003	6.40	.03	6.37	37.04	8.95	28.09	11.25	16.84	378
22004	7.44	.04	7.40	31.61	8.01	23.60	10.58	13.02	568
22005	6.58	.15	6.43	32.91	8.76	24.15	9.20	14.95	430
22006	7.94	.20	7.74	40.70	10.92	29.78	15.90	13.88	558
22008	6.71	.25	6.46	72.95	5.39	67.56	47.29	20.27	319
22009	9.04	.03	9.01	72.64	7.21	65.43	48.54	16.89	533
22010	2.09	.01	2.08	15.12	1.33	13.79	9.37	4.42	471
22012	1.72	.01	1.71	19.68	1.75	17.93	12.52	5.41	316
22013	5.49	.19	5.30	43.94	4.00	39.94	25.81	14.13	375
22014	5.08	.23	4.85	44.38	4.27	40.11	27.80	12.31	394
22015	1.74	.01	1.73	12.73	1.47	11.26	7.72	3.54	489
22017	3.04	.00	3.04	49.92	2.83	47.09	33.79	13.30	229
22018	1.57	.00	1.57	11.48	1.16	10.32	6.19	4.13	380
22020	4.14	.00	4.14	41.75	3.12	38.63	25.41	13.22	313
22021	2.27	.02	2.25	26.78	1.06	25.72	21.05	4.67	482
22022	4.78	.05	4.73	44.40	3.19	41.21	28.58	12.63	375
22023	4.29	.01	4.28	46.06	4.23	41.83	27.56	14.27	300
22024	.86	.03	.83	14.79	.23	14.56	5.13	9.43	88
22026	8.57	.01	8.56	77.69	7.06	70.63	44.18	26.45	324
22027	6.19	.01	6.18	48.08	4.11	43.97	30.55	13.42	461
22028	7.90	.16	7.74	64.71	6.10	58.61	40.59	18.02	430
22029	5.36	.04	5.32	57.90	5.38	52.52	41.81	10.71	497
22030	5.29	.02	5.27	41.74	5.91	35.83	19.81	16.02	329
22032	4.68	.05	4.63	41.06	4.11	36.95	20.78	16.17	286
22033	5.90	.01	5.89	61.21	4.70	56.51	33.12	23.39	252
22034	5.50	.04	5.46	84.18	5.20	78.98	59.18	19.80	276
22035	4.78	.01	4.77	71.49	2.80	68.69	53.41	15.28	312
22036	3.88	.10	3.78	18.61	2.46	16.15	10.68	5.47	691
22037	7.59	.28	7.31	34.03	4.11	29.92	20.42	9.50	769
22038	6.56	.01	6.55	72.26	9.87	62.39	31.77	30.62	214
22039	9.44	.10	9.34	76.29	10.43	65.86	36.79	29.07	321
22040	13.66	.13	13.53	80.32	15.26	65.06	34.06	31.00	436
22042	3.85	.01	3.84	54.37	2.96	51.41	40.28	11.13	345
22043	8.82	.02	8.80	70.61	6.64	63.97	42.74	21.23	415
22044	3.63	.09	3.54	25.97	1.44	24.53	9.58	14.95	237
22046	2.49	.03	2.46	16.16	1.39	14.77	9.64	5.13	480
22047	5.00	.01	4.99	66.75	3.76	62.99	45.33	17.66	283
22048	2.77	.02	2.75	22.18	1.86	20.32	15.11	5.21	528
22049	4.79	.06	4.73	24.93	3.79	21.14	10.86	10.28	460
22050	3.71	.07	3.64	33.62	3.23	30.39	20.82	9.57	380
22052	4.03	.21	3.82	29.05	2.55	26.50	16.01	10.49	364
22053	6.02	.00	6.02	42.99	4.44	38.55	22.17	16.38	368
22054	5.21	.00	5.21	48.20	4.27	43.93	26.01	17.92	291

22055	5.16	.00	5.16	54.18	4.38	49.80	35.14	14.66	352
22056	6.11	.33	5.78	46.03	4.13	41.90	27.76	14.14	409
22057	3.77	.15	3.62	56.68	16.84	39.84	12.61	27.23	133
22058	5.64	.23	5.41	39.95	4.92	35.03	20.95	14.08	384
22059	10.10	.27	9.83	65.61	9.36	56.25	31.93	24.32	404
22060	10.82	.17	10.65	73.95	16.29	57.66	29.85	27.81	383
22061	11.50	.18	11.32	82.14	13.76	68.38	37.64	30.74	368
22063	5.25	.00	5.25	25.09	3.45	21.64	9.57	12.07	435
22064	7.04	.03	7.01	73.57	8.39	65.18	40.56	24.62	285
22065	6.58	.41	6.17	55.30	5.63	49.67	31.22	18.45	334
22066	6.28	.23	6.05	38.20	5.10	33.10	17.07	16.03	377
22067	9.26	.33	8.93	69.74	6.62	63.12	44.53	18.59	480
22068	4.82	.18	4.64	542.23	95.70	446.53	66.15	380.38	12
22070	3.82	.00	3.82	52.30	2.15	50.15	43.00	7.15	534
22071	4.58	.24	4.34	41.93	2.74	39.19	28.80	10.39	418
22073	2.90	.00	2.90	73.07	24.54	48.53	8.91	39.62	73
22076	2.81	.05	2.76	23.04	1.89	21.15	13.19	7.96	347
22077	5.33	.36	4.97	54.55	3.66	50.89	38.70	12.19	408
22078	5.31	.25	5.06	46.98	4.64	42.34	29.81	12.53	404
22079	8.53	.47	8.06	62.79	6.83	55.96	34.83	21.13	381
22080	2.47	.18	2.29	18.89	1.72	17.17	13.19	3.98	575
22082	3.72	.19	3.53	46.99	3.34	43.65	30.94	12.71	278
22083	5.14	.06	5.08	57.02	4.92	52.10	32.68	19.42	262
22084	7.36	.00	7.36	83.14	8.40	74.74	60.02	14.72	500
22085	1.51	.17	1.34	9.65	.42	9.23	7.08	2.15	623
22087	4.91	.45	4.46	79.20	3.78	75.42	62.44	12.98	344
22088	8.54	.57	7.97	108.33	7.75	100.58	75.24	25.34	315
22089	8.32	.21	8.11	78.55	9.66	68.89	44.28	24.61	330
22090	6.52	.23	6.29	56.31	6.59	49.72	32.34	17.38	362
22091	9.83	.29	9.54	118.58	13.70	104.88	77.69	27.19	351
22092	5.28	.00	5.28	95.43	44.56	50.87	20.37	30.50	173
22094	2.40	.03	2.37	25.91	5.80	20.11	9.59	10.52	225
22095	8.79	.16	8.63	96.59	9.76	86.83	53.72	33.11	261
22096	8.07	.41	7.66	60.14	8.00	52.14	26.51	25.63	299
22097	2.73	.10	2.63	21.30	2.19	19.11	13.00	6.11	430
22098	3.58	.19	3.39	12.49	2.53	9.96	4.47	5.49	617
22099	5.70	.18	5.52	55.51	8.94	46.57	27.28	19.29	286
22100	3.15	.16	2.99	14.62	3.16	11.46	6.89	4.57	654
22102	3.99	.00	3.99	59.88	3.21	56.67	40.42	16.25	246
22103	3.81	.00	3.81	48.52	2.49	46.03	32.99	13.04	292
22106	4.75	.06	4.69	38.71	4.20	34.51	20.56	13.95	336
22107	8.07	.33	7.74	75.24	7.58	67.66	42.55	25.11	308
22108	4.83	.29	4.54	33.37	4.26	29.11	16.25	12.86	353
22109	3.76	.15	3.61	27.73	2.31	25.42	9.78	15.64	231
22111	2.41	.00	2.41	30.18	1.69	28.49	23.87	4.62	522
22112	5.67	.31	5.36	41.93	3.57	38.36	27.68	10.68	502
22113	5.58	.22	5.36	56.64	5.80	50.84	31.70	19.14	280
22114	6.82	.20	6.62	44.36	6.03	38.33	19.48	18.85	351
22115	4.37	.21	4.16	12.19	2.27	9.92	6.17	3.75	1109
22117	6.62	.17	6.45	68.68	7.08	61.60	21.48	40.12	161
22118	3.58	.07	3.51	22.65	1.98	20.67	13.02	7.65	459
22120	5.05	.23	4.82	38.50	3.13	35.37	22.32	13.05	369
22121	5.64	.00	5.64	37.84	3.55	34.29	20.52	13.77	410
22122	5.46	.00	5.46	30.64	3.75	26.89	16.56	10.33	529
22123	4.91	.08	4.83	37.21	4.79	32.42	21.39	11.03	438
22125	4.21	.04	4.17	49.54	3.92	45.62	34.17	11.45	364
22126	3.90	.00	3.90	63.54	3.09	60.45	46.15	14.30	273
22127	2.95	.06	2.89	24.24	1.61	22.63	17.73	4.90	590

22129	2.98	.00	2.98	21.01	1.88	19.13	13.21	5.92	503
22130	5.73	.03	5.70	50.48	5.25	45.23	28.27	16.96	336
22131	3.85	.00	3.85	69.61	3.90	65.71	50.82	14.89	259
22132	5.15	.02	5.13	56.17	4.40	51.77	36.97	14.80	347
							Average -	18.81	381
							Standard - Deviation	35.99	144

1) M.I.H. = Final non-magnetic heavy mineral concentrate.

2) Con.F. = Concentration factor.

OVERBURDEN EXPLORATION SERVICES LTD.

GOLD GRAIN/MINERALOGICAL REPORT

Company: Aumo Exploration
Series: ADB-88

Date: Jan. 26, 1988

Sample No.	Shape	Length (microns)	Width (microns)	Thickness (microns)	H.M.C. Weight (grams)	Est. AU (ppb.)	Other Metallics
22005	Abraded flake.	300	250	20	14.95	592	15% py., unox., pred. subhed., 30% hem., 10% ilmen.
					TOTAL EST. AU -	592	
22043							5% py., unox., pred. subhed., tr. marcas. framboids, 25% hem., 15% ilmen.
22068							95% py., unox., pred. anh., massive sulphide shards
22082							10% py., unox., pred. subhed., 15% hem., 10% ilmen.
22109							20% py., unox., pred. subhed., 10% hem., 2% ilmen.
22117							5% py., unox., pred. subhed., 20% hem., 10% ilmen.

**** Certificate of ASSAY ****

Company: OVERBURDEN EXPLORATION
Project: ADB-88
Attention:

File: 82-66/P1
Date: JAN 20/88
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

ADB88 Hole

Sample Number	AU G/TONNE	AU OZ/TON	
22 007	.10	0.003	-01
22 011	.01	0.001	-02
22 016	.01	0.001	-03
22 019	.03	0.001	-04
22 025	.01	0.001	-05
22 031	.01	0.001	-06
22 041	.01	0.001	-07
22 051	.01	0.001	-09
22 062	.02	0.001	-10
22 069	.01	0.001	-11
22 072	.01	0.001	-12
22 074B	.02	0.001	-13 Outcrop
22 081	.81	0.024	-14
22 086	.15	0.004	-15
22 093	.01	0.001	-16
22 101	.01	0.001	-17
22 104	.01	0.001	-18
22 105	.02	0.001	-19
22 110	.08	0.002	-20
22 116	.01	0.001	-21
22 119	.01	0.001	-22
22 124	.01	0.001	-23
22 128	.01	0.001	-24
22 133	.01	0.001	-25

Certified by

MIN-EN LABORATORIES LTD.

**** Certificate of ASSAY ****

Company: OVERBURDEN EXPLORATION
Project: ADB 88
Attention:

File: 82-132/P1
Date: JAN 28/88
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

ADB-88 HOLE

Sample Number	AU G/TONNE	AU OZ/TON	
22045	.16	0.005	-08
22075	.07	0.002	-13

RECEIVED 89.01.

Certified by _____

MIN-EN LABORATORIES LTD.

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE:(604)980-5814 OR (604)988-4524 TELEX:VIA USA 7601067 UC

Certificate of ASSAY

Company:OVERBURDEN EXPLORATION
Project:ADB-88
Attention:

File:82-133/P1
Date:JAN 29/88
Type:HMC

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
22 000	1.00	0.029
22 001	.10	0.003
22 002	.08	0.002
22 003	.06	0.002
22 004	.23	0.007
22 005	2.05	0.060
22 006	.20	0.006
22 008	.05	0.001
22 009	.01	0.001
22 010	.07	0.002
22 012	.06	0.002
22 013	.05	0.001
22 014	.02	0.001
22 015	.05	0.001
22 017	.01	0.001
22 018	.04	0.001
22 020	.23	0.007
22 021	.03	0.001
22 022	.05	0.001
22 023	.22	0.006
22 024	.98	0.029
22 026	.01	0.001
22 027	.18	0.005
22 028	.15	0.004
22 029	.03	0.001
22 030	.32	0.009
22 032	.01	0.001
22 033	.01	0.001
22 034	.01	0.001
22 035	.08	0.002

Certified by _____

MIN-EN LABORATORIES LTD.

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524 TELEX: VIA USA 7601067 UC

Certificate of ASSAY

Company: OVERBURDEN EXPLORATION
Project: ADB-88
Attention:

File: 82-133/P2
Date: JAN 29/88
Type: HMC

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
22 036	.57	0.017
22 037	.11	0.003
22 038	.83	0.024
22 039	1.16	0.034
22 040	.03	0.001
22 042	.02	0.001
22 043	.22	0.006
22 044	.37	0.011
22 046	.43	0.013
22 047	.03	0.001
22 048	.54	0.016
22 049	.05	0.001
22 050	.08	0.002
22 052	.04	0.001
22 053	.08	0.002
22 054	.16	0.005
22 055	.02	0.001
22 056	.01	0.001
22 057	.02	0.001
22 058	1.44	0.042
22 059	.12	0.004
22 060	6.43	0.188
22 061	.07	0.002
22 063	.03	0.001
22 064	.11	0.003
22 065	.09	0.003
22 066	.77	0.022
22 067	.01	0.001
22 068	.81	0.024
22 070	.06	0.002

Certified by _____

MIN-EN LABORATORIES LTD.

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524 TELEX: VIA USA 7601067 UC

Certificate of ASSAY

Company: OVERBURDEN EXPLORATION
Project: ADB-88
Attention:

File: 82-133/P3
Date: JAN 29/88
Type: HMC

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
22 071	.06	0.002
22 073	.20	0.006
22 076	.10	0.003
22 077	.26	0.008
22 078	.10	0.003
22 079	.04	0.001
22 080	.60	0.018
22 082	1.19	0.035
22 083	.03	0.001
084	.45	0.013
22 085	.16	0.005
22 087	.25	0.007
22 088	.04	0.001
22 089	.10	0.003
22 090	.06	0.002
22 091	.04	0.001
22 092	.03	0.001
22 094	.03	0.001
22 095	.05	0.001
22 096	.22	0.006
22 097	.28	0.008
22 098	.09	0.003
22 099	.38	0.011
22 100	.80	0.023
22 102	.17	0.005
22 103	.02	0.001
22 106	.03	0.001
22 107	.16	0.005
22 108	.25	0.007
22 109	.08	0.002

Certified by _____

MIN-EN LABORATORIES LTD.

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE:(604)980-5814 OR (604)988-4524 TELEX:VIA USA 7601067 UC

Certificate of ASSAY

Company:OVERBURDEN EXPLORATION
Project:ADB-88
Attention:

File:82-133/P4
Date:JAN 29/88
Type:HMC

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
22 111	.24	0.007
22 112	.63	0.018
22 113	.03	0.001
22 114	.02	0.001
22 115	2.62	0.076
22 117	.13	0.004
22 118	.12	0.004
22 120	.03	0.001
22 121	.02	0.001
22 122	.01	0.001
22 123	.08	0.002
22 125	2.63	0.077
22 126	.02	0.001
22 127	.03	0.001
22 129	1.48	0.043
22 130	.08	0.002
22 131	.08	0.002
22 132	.03	0.001

Certified by _____

MIN-EN LABORATORIES LTD.

COMPANY: OVERBURDEN EXPLORATION
PROJECT NO: ADB-88
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

ACT:F31) PAGE 1 OF 1
FILE NO: 82-133
$ TYPE HMC $ DATE:JAN 29, 1988

ADB-88 HMC

(VALUES IN PPM)	AS	CU	MO	NI	PB	ZN	WT-GM	
22 000	5	96	2	11	61	59	21.59	
22 001	9	73	1	27	43	26	19.01	
22 002	22	112	1	31	47	40	15.77	-01
22 003	17	348	1	13	43	34	16.85	
22 004	21	111	1	7	45	35	13.02	
22 005	7	168	1	13	42	69	14.95	
22 006	41	137	1	17	59	37	13.88	
22 008	10	124	1	35	45	49	20.33	-02
22 009	21	150	1	23	170	27	16.91	
22 010	34	221	1	18	67	81	4.40	
22 012	19	29	1	2	59	27	5.43	
22 013	13	95	1	33	37	54	14.19	-03
22 014	17	73	1	25	58	41	12.41	
22 015	21	164	1	26	51	43	3.54	
22 017	7	21	1	1	25	14	13.30	-04
22 018	19	560	1	158	87	55	4.13	
22 020	8	26	1	4	43	26	13.22	
22 021	6	42	1	7	53	25	4.68	-05
22 022	22	74	1	19	63	49	12.68	
22 023	21	125	1	21	51	51	14.32	
22 024	833	2185	3	1239	78	3980	9.44	
22 026	19	124	1	20	72	112	26.48	
22 027	22	104	1	51	41	81	13.49	-06
22 028	20	98	1	28	42	98	18.00	
22 029	29	202	1	23	63	157	10.73	
22 030	28	125	1	23	43	67	16.01	
22 032	7	16	1	1	39	17	16.19	
22 033	9	35	1	12	29	18	23.41	-07
22 034	2	51	1	36	13	78	19.84	
22 035	16	80	1	38	27	54	15.30	

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29.01.88

COMPANY: OVERBURDEN EXPLORATION
PROJECT NO: ADB-88
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

ACT:F31) PAGE 1 OF 1
FILE NO: 82-133/P2
* TYPE HMC * DATE:JAN 29, 1988

ADB-88

(VALUES IN PPM)	AS	CU	MO	NI	PB	ZN	WT-GM	
22 036	13	117	1	48	70	208	5.46	
22 037	19	73	1	37	40	81	9.53	
22 038	15	35	1	1	33	43	30.70	-07
22 039	13	33	1	14	37	32	29.11	
22 040	24	53	1	11	32	57	31.00	
22 042	10	52	1	10	37	18	11.15	
22 043	21	72	1	31	59	64	21.28	-08
22 044	444	113	3	528	50	337	14.98	
22 046	109	27	1	104	43	32	5.15	
22 047	42	69	1	33	36	113	17.71	
22 048	112	125	1	35	57	76	5.21	-09
22 049	26	126	1	43	52	88	10.28	
22 050	46	149	1	93	43	100	9.55	
22 052	10	19	1	2	45	21	10.48	
22 053	11	124	1	41	37	28	16.42	
22 054	17	107	1	32	58	113	17.96	
22 055	17	67	1	21	50	84	14.70	-10
22 056	15	103	1	31	54	92	14.19	
22 057	16	95	1	13	19	27	27.34	
22 058	25	288	1	64	42	78	14.13	
22 059	25	82	1	21	37	305	24.28	
22 060	18	64	1	20	37	225	27.93	
22 061	30	116	1	97	25	21	30.78	
22 063	24	90	1	20	62	88	12.12	
22 064	12	68	1	28	25	62	24.65	
22 065	26	122	2	44	53	210	18.49	-11
22 066	10	97	1	28	45	123	16.00	
22 067	17	93	1	14	34	69	18.64	
22 068	508	969	1	16	39	50	380.57	
22 070	16	99	1	23	31	91	7.14	-12

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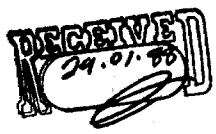
COMPANY: OVERBURDEN EXPLORATION
PROJECT NO: ADB-88
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

ACT:F31) PAGE 1 OF 1
FILE NO: 82-133/P3
TYPE HMC # DATE:JAN 29, 1988

ADB-88 Hole.

(VALUES IN PPM)	AS	CU	MO	NI	PB	ZN	WT-GM	
22 071	13	367	1	43	58	136	10.44	-12
22 073	492	1193	2	151	40	368	39.64	-13
22 076	27	77	1	1	55	26	7.95	
22 077	22	125	1	20	50	48	12.25	
22 078	30	137	1	39	56	72	12.55	-14
22 079	23	122	1	39	25	56	21.23	
22 080	249	267	1	115	78	355	3.99	
22 082	112	98	1	30	55	92	12.51	
22 083	106	73	1	13	56	73	19.44	
22 084	26	473	1	511	44	95	14.76	-15
22 085	130	170	1	36	45	39	2.11	
22 087	15	64	1	25	49	59	12.99	
22 088	35	73	6	20	46	78	25.43	
22 089	33	51	1	32	33	78	24.64	
22 090	44	125	1	16	56	81	17.55	-16
22 091	54	201	1	34	57	131	27.27	
22 092	38	103	1	40	22	46	30.53	
22 094	38	200	1	120	52	71	10.60	
22 095	21	78	1	20	32	33	33.26	
22 096	16	33	1	12	31	59	25.69	
22 097	72	106	1	14	55	53	6.13	-17
22 098	81	97	1	43	64	94	5.47	
22 099	90	236	1	962	129	34	19.39	
22 100	68	500	1	74	46	76	4.57	
22 102	11	157	1	47	39	27	16.36	
22 103	13	101	1	37	73	26	13.01	-18
22 106	32	68	1	18	27	85	13.50	
22 107	31	80	1	21	31	111	25.21	
22 108	50	67	1	78	30	38	12.91	-20
22 109	87	51	1	3	30	34	15.63	



COMPANY: OVERBURDEN EXPLORATION
PROJECT NO: ADB-88
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

ACT:F31) PAGE 1 OF 1
FILE NO: 82-133/P4
TYPE HMC # DATE:JAN 29, 1988

ADB-88

(VALUES IN PPM)	AS	CU	MO	NI	PB	ZN	WT-GM
22 111	20	71	1	32	93	119	4.69
22 112	28	100	1	56	56	92	10.74
22 113	10	52	1	10	51	56	19.19
22 114	12	59	1	13	26	40	18.82
22 115	217	197	1	49	61	70	3.73
22 117	7	39	1	20	21	60	40.00
22 118	17	85	1	19	44	166	7.66
22 120	16	17	1	1	41	23	13.01
22 121	10	86	1	23	40	72	13.86
22 122	24	84	1	41	54	170	10.36
22 123	34	100	2	78	50	269	11.00
22 125	12	19	1	1	40	17	11.48
22 126	12	70	1	33	39	71	14.34
22 127	26	83	1	37	54	75	4.94
22 129	12	11	1	1	65	19	5.91
22 130	6	57	1	24	37	59	17.00
22 131	18	136	1	29	28	101	14.92
22 132	20	116	1	30	31	54	14.86

-21
-22
-23
-24
-25

COMPANY: OVERBURDEN EXPLORATION — MIN-EN LABS ICP REPORT — ACT:F31 PAGE 1 OF 1
PROJECT NO: ADB-88 — 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE NO: 82-66
ATTENTION: — (604)980-5814 OR (604)988-4524 * TYPE CHIP GEOCHEM * DATE:JAN 20, 1988

(VALUES IN PPM)	AS	CU	MO	NI	PB	ZN	ADB88 HOLE
22 007	22	31	1	18	51	106	-01
22 011	6	33	1	7	16	28	-02
22 016	8	17	1	15	18	50	-03
22 019	14	130	2	327	38	61	-04
22 025	17	28	1	48	35	263	-05
22 031	13	16	1	5	22	61	-06
22 041	15	14	1	27	40	73	-07
22 051	10	2	1	4	25	69	-09
22 062	3	74	1	38	22	62	-10
22 069	14	7	1	7	30	94	-11
22 072	15	94	1	28	27	178	-12
22 074B	250	410	1	6	26	529	-13 BOULDER
22 081	2453	271	1	20	73	220	-14
22 086	37	186	1	53	62	117	-15
22 093	23	18	1	12	19	42	-16
22 101	4	24	2	19	16	56	-17
22 104	16	20	2	44	35	110	-18
22 105	52	31	1	3	10	71	-19
22 110	39	292	1	3	47	104	-20
22 116	10	38	1	3	6	11	-21
22 119	5	18	1	6	16	60	-22
22 124	10	61	1	13	15	50	-23
22 128	9	33	1	24	16	73	-24
22 133	12	27	1	17	22	99	-25

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TO COME
22075 - HOLE 08
22075 - HOLE 13

COMPANY: OVERBURDEN EXPLORATION
PROJECT NO: ADB-88
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

ACT:F31) PAGE 1 OF 1
FILE NO: 82-132
DATE:JAN 29, 1988

* TYPE CHIP GEOCHEM * ADB-88 HOLE

(VALUES IN PPM)	AS	CU	MO	NI	PB	ZN	
22 045	49	32	2	45	49	73	-08
22 075	7	187	1	16	45	68	-13

**** Certificate of ASSAY ****

Company: OVERBURDEN EXPLORATION
Project: ADB-88
Attention:

File: 82-133/P1
Date: JAN 29/88
Type: HMC

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON	ADB-88 Hole
22 000	1.00	0.029	-01
22 001	.10	0.003	
22 002	.08	0.002	
22 003	.06	0.002	
22 004	.23	0.007	
22 005	2.05	0.060	
22 006	.20	0.006	
22 008	.05	0.001	
22 009	.01	0.001	-02
22 010	.07	0.002	
22 012	.06	0.002	
22 013	.05	0.001	
22 014	.02	0.001	-03
22 015	.05	0.001	
22 017	.01	0.001	-04
22 018	.04	0.001	
22 020	.23	0.007	
22 021	.03	0.001	
22 022	.05	0.001	-05
22 023	.22	0.006	
22 024	.98	0.029	
22 026	.01	0.001	
22 027	.18	0.005	
22 028	.15	0.004	-06
22 029	.03	0.001	
22 030	.32	0.009	
22 032	.01	0.001	
22 033	.01	0.001	
22 034	.01	0.001	-07
22 035	.08	0.002	

RECEIVED 29.01.88

Certified by J. Listi
MIN-EN LABORATORIES LTD.

**** Certificate of ASSAY ****

Company: OVERBURDEN EXPLORATION
Project: ADB-88
Attention:

File: 82-133/P2
Date: JAN 29/88
Type: HMC

We hereby certify the following results for samples submitted.

ADB-88 Hole

Sample Number	AU G/TONNE	AU OZ/TON	
22 036	.57	0.017	
22 037	.11	0.003	
22 038	.83	0.024	-07
22 039	1.16	0.034	
22 040	.03	0.001	
22 042	.02	0.001	
22 043	.22	0.006	-08
22 044	.37	0.011	
22 046	.43	0.013	
22 047	.03	0.001	
22 048	.54	0.016	-09
22 049	.05	0.001	
22 050	.08	0.002	
22 052	.04	0.001	
22 053	.08	0.002	
22 054	.16	0.005	
22 055	.02	0.001	
22 056	.01	0.001	-10
22 057	.02	0.001	
22 058	1.44	0.042	
22 059	.12	0.004	
22 060	6.43	0.188	
22 061	.07	0.002	
22 063	.03	0.001	
22 064	.11	0.003	
22 065	.09	0.003	-11
22 066	.77	0.022	
22 067	.01	0.001	
22 068	.81	0.024	
22 070	.06	0.002	-12

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Certified by J. Leitch

MIN-EN LABORATORIES LTD.

**** Certificate of ASSAY ****

Company: OVERBURDEN EXPLORATION
Project: ADB-88
Attention:

File: 82-133/P3
Date: JAN 29/88
Type: HMC

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON	ADB-88 Hole
22 071	.06	0.002	-12
22 073	.20	0.006	-13
22 076	.10	0.003	
22 077	.26	0.008	
22 078	.10	0.003	-14
22 079	.04	0.001	
22 080	.60	0.018	
22 082	1.19	0.035	
22 083	.03	0.001	-15
22 084	.45	0.013	
22 085	.16	0.005	
22 087	.25	0.007	
22 088	.04	0.001	
22 089	.10	0.003	-16
22 090	.06	0.002	
22 091	.04	0.001	
22 092	.03	0.001	
22 094	.03	0.001	
22 095	.05	0.001	
22 096	.22	0.006	
22 097	.28	0.008	-17
22 098	.09	0.003	
22 099	.38	0.011	
22 100	.80	0.023	
22 102	.17	0.005	-18
22 103	.02	0.001	
22 106	.03	0.001	
22 107	.16	0.005	-20
22 108	.25	0.007	
22 109	.08	0.002	

29.01.88

Certified by J. Laitti

MIN-EN LABORATORIES LTD.

**** Certificate of ASSAY ****

Company: OVERBURDEN EXPLORATION
Project: ADB-88
Attention:

File: 82-133/P4
Date: JAN 29/88
Type: HMC

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON	ADB-88
22 111	.24	0.007	
22 112	.63	0.018	
22 113	.03	0.001	-21
22 114	.02	0.001	
22 115	2.62	0.076	
22 117	.13	0.004	
22 118	.12	0.004	-22
22 120	.03	0.001	
22 121	.02	0.001	
22 122	.01	0.001	-23
22 123	.08	0.002	
22 125	2.63	0.077	
22 126	.02	0.001	-24
22 127	.03	0.001	
22 129	1.48	0.043	
22 130	.08	0.002	
22 131	.08	0.002	-25
22 132	.03	0.001	

Certified by J. White

MIN-EN LABORATORIES LTD.

COMPANY: OVERBURDEN EXPLORATION
PROJECT NO: ADB-88
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER. B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
FILE NO: 82-66
* TYPE CHIP GEOCHEM * DATE:JAN 20, 1988

(VALUES IN PPM)	AS	CU	MO	NI	PB	ZN
22 007	22	31	1	18	51	106
22 011	6	38	1	7	16	28
22 016	8	17	1	15	18	50
22 019	14	130	2	327	38	61
22 025	17	28	1	48	35	263
22 031	13	16	1	5	22	61
22 041	15	14	1	27	40	73
22 051	10	2	1	4	25	69
22 062	3	74	1	38	22	62
22 069	14	7	1	7	30	94
22 072	15	94	1	28	27	178
22 074B	250	410	1	6	26	529
22 081	2453	271	1	20	73	220
22 086	37	186	1	53	62	117
22 093	23	18	1	12	19	42
22 101	4	24	2	19	16	56
22 104	16	20	2	44	35	110
22 105	52	31	1	3	10	71
22 110	39	292	1	3	47	104
22 116	10	38	1	3	6	11
22 119	5	18	1	6	16	60
22 124	10	61	1	13	15	50
22 128	9	33	1	24	16	73
22 133	12	27	1	17	22	99

COMPANY: OVERBURDEN EXPLORATION | MIN-EN LABS ICP REPORT | (ACT:F31) PAGE 1 OF 1

PROJECT NO: ADB-88 | 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE NO: 82-132

ATTENTION: OVERBURDEN | (604)980-5814 OR (604)988-4524 | * TYPE ROCK GEOCHEM * | DATE:JAN 28, 1988

(VALUES IN PPM)	AS	CU	MO	NI	PB	ZN
Z2 045	49	32	2	45	49	73
Z2 075	7	187	1	16	45	68

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

E:(604)980-5814 OR (604)988-4524 TELEX:VIA USA 7601067 UC

Certificate of ASSAY

Company:OVERBURDEN EXPLORATION
Project:ADB-88
Attention:

File:82-66/P1
Date:JAN 20/88
Type:ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
22 007	.10	0.003
22 011	.01	0.001
22 016	.01	0.001
22 019	.03	0.001
22 025	.01	0.001
22 031	.01	0.001
22 041	.01	0.001
22 051	.01	0.001
22 062	.02	0.001
22 069	.01	0.001
22 072	.01	0.001
22 074B	.02	0.001
22 081	.81	0.024
22 086	.15	0.004
22 093	.01	0.001
22 101	.01	0.001
22 104	.01	0.001
22 105	.02	0.001
22 110	.08	0.002
22 116	.01	0.001
22 119	.01	0.001
22 124	.01	0.001
22 128	.01	0.001
22 133	.01	0.001

*Certified by*_____

MIN-EN LABORATORIES LTD.

MIN-EN LABORATORIES LTD.
Specialists in Mineral Environments
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PHONE:(604)980-5814 OR (604)988-4524 TELEX:VIA USA 7601067 UC

Certificate of ASSAY

Company:OVERBURDEN EXPLORATION
Project:ADB 88
Attention:

File:82-132/P1
Date:JAN 28/88
Type:ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
22045	.16	0.005
22075	.07	0.002

Certified by

MIN-EN LABORATORIES LTD.

REVERSE CIRCULATION DRILL HOLE

DATE 02 01 1988
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. ADR-88-01 LOCATION L1+00E / 4+00S. (Denton Twp).
GEOLOGIST ASK DRILLER MW BIT NO./FTG. 1000981
MOVE TO HOLE ____ BIT NO./FTG. 0'+65'
DRILLING 11:30 - 3:30 / 3:30 - 3:45
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER 7:00 - 9:30 set up drill / 9:30 - 11:00 delay - problems w/ H2O pump
MOVE TO NEXT HOLE 4:00-4:15 repair chest on truck / 4:15 - 4:30 move & drain water lines.

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	As (ppm)	Cu (ppm)	Ni (ppm)	Zn (ppm)	Au (opt)
				0-13'. TILL (DIAMICTON)	5	96	11	59	.029
			22000	20% soft-hard silty + gritty, light to medium grey, <0.5 cm clay balls. 10% well-rounded <1.0cm, limestone pebbles. 30% well-rounded spherical granitic clasts. 40% rounded to subrounded mafic (volc/sedp.) pebbles + cobbles. Slow drill penetration with moderate +10 return					
10			22001		9	73	27	26	.003
20				13'-49'. GRAVEL					
			22002	Moderately compact pebble gravel. Slow drill penetration with moderate +10 return. 35% dark grey and greenish grey, fine grained to granular, rounded to subrounded, <2.0cm mafic pebbles: 25% well-rounded spherical 0.25- >1.0 cm limestone + 40% granitic material. Fine to medium sand matrix.	22	112	31	40	.002
30			22003	15/85%: matrix-clast ratio. 32'. cobble rich 55% mafic vs 45% granitic material.	17	348	13	34	.002
40			22004	40'. similar gravel to above. Compact. very slow drill penetration. 0.25-2.0cm pebbles. 50% mafic / 20% limestone / 30% granitic.	21	111	7	35	.007
50			22005	49'-60.5'. TILL (Basal) - MELTOUT OR LODGEMENT	7	168	13	69	.060 1 (A)
			22006	Very slow drill penetration. Compact, low +10 return. 80% light grey, fine, silty to slightly gritty, <0.5 cm clay balls. 15% rounded to subrounded fine grained + granular dark greenish-grey mafic pebbles vs. 5% well-rounded, spherical, 0.25 to 0.75 cm limestone + trace granitic clasts.	41	137	17	37	.006
60			22007		22	31	18	106	.003
70				60.5'-65'. BEDROCK					
80				Soft. altered, dark greenish-grey, foliated to slightly granular metasediment (Greywacke) Possibly a metavolcanic. H= 2-3 trace finely disseminated pyrite cubes. Minor thin carbonate seams. Trace barren white quartz stringers.					
90				STOP AT 65'					
				- EOH -					
100									

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 83 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DAT 01/9/88
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. ADB-88-02 LOCATION L2E/SM. 4+00S (DONTON TWP)
GEOLOGIST ADK DRILLER MW BIT NO./FTG. J000741
MOVE TO HOLE 4:00 - 4:30 BIT NO./FTG. 65'+33' = 98'
DRILLING 4:30-5:15 / 7:30 - 9:15
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER 5:15-5:30 Travel out | 7:00-7:30 - repair water pump
MOVE TO NEXT HOLE 9:15-9:30

Depth (m)	Graphic Log	Int/Sample No.	Descriptive Log	As (ppm)	Cu (ppm)	Ni (ppm)	Zn (ppm)	Au opt
			0-1'. Organics					.001
10		22008	1-5'. LACUSTRINE SEDIMENTS Fine, light greyish-brown silt.	10	124	35	49	.001
			5'-16'. TILL/DIAMICTON					
		N.S.	Compact till containing 80-85% light grey hard, gritty, clay balls 0.25-1cm in diameter. Contain fine angular mafic fragments. <15% subrounded, dark greyish-green mafic pebbles. Trace armoured clasts. <5% well rounded, spherical limestone and granitic granules. Minor cobbles. 16-17'. metagreywacke boulder.					
20		22009		21	150	23	27	.001
		22010		34	221	18	81	.002
30		22011		6	38	7	28	.001
			16'-28.5'. GRAVEL					
40			Compact pebble to cobble gravel. Slow drill penetration with moderate +10 returns. Rounded to subrounded (moderate to high sphericity) 0.25 cm granules to >2.0cm pebbles. 50% dark grey-green to grey fine grained mafic (sed/volcanic), 10-15% limestone, & 35-40% granitic material. Diorite boulder from 21.5'-22' containing 3 to 5% finely disseminated pyrite.					
50			STOP AT 23' (08-01-88)					
60			25' dominantly mafic with 20% altered felsic volcanic material. Slow drill penetration. Fine sand matrix. 5/95%: matrix - clast ratio.					
70			28.5'-33'. BEDROCK.					
80			Fine grained, weakly foliated, light greyish green altered felsic volcanic. H= 4.5 to 5.0; weakly sericitized near surface. No reaction with HCl. Trace to 0.5% finely disseminated sulphide (cubes) mineralization. Contains coarser darker grey to black stringers. (Rhyolite - Dacite).					
90			STOP AT 33'					
100			- EOH -					

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REVERSE CIRCULATION DRILL HOLE LOG

DAT[illegible] 0119 88

SHIFT HOURS 7 TO 5

TOTAL HOURS 10

HOLE NO. ADB-88-03 LOCATION L3+00E; 5m. Atods (Denton Twp).
GEOLOGIST AJK DRILLER MW BIT NO./FTG. J000740 New Bit
MOVE TO HOLE 9:15-9:30 BIT NO./FTG. 0'-27'
DRILLING 9:30-10:45 | 10:45-11:00 Pull Rods + Move.
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE

Depth (m)	Graphic Log	Int/Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
		22012	0'-22'- DIAMICTON	19	29	2	27	.002
		22013	Slow drill penetration with low +10 return. 20% oxidized light brown silty clay balls (slightly gritty). 65% fine grained intermediate to mafic (volcanic / metased). 15% granitic, well-rounded to subrounded, spherical 0.25 to 2.0 cm. pebbles, Minor cobbles. Trace mafic armoured clasts.	13	95	33	54	.001
		22014	Silty to very fine sandy matrix. 7'-9.5'. compact pebble gravel unit with <5% clay balls. 90% mafic vs. 5% granitic clasts. 9.5'. 85% light to medium grey, 0.5 to 1.0 cm hard gritty clay balls, 10 to 15% mafic vs trace to <5% granitic material.	17	73	25	41	.001
		22015		21	164	26	43	.001
		22016	fine silt to sand matrix. Slow drill penetration with low +10 return. Rounded to subrounded clasts (pebbles-cobbles). 1% mafic + granitic armoured pebbles. 20'. dominantly mafic and felsic volcanic pebbles + cobbles with 25% medium grey clay balls.	8	17	15	50	.001
			22'-27'. BEDROCK					
			Granular light grey to greenish grey, weakly foliated elastic altered intermediate to felsic volcanic. H=3 to 5. Trace disseminated sulphide mineralization. No reaction with HCl. Slightly, light brown, oxidized color.					
			STOP AT 27					
			- EOH -					

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REVERSE CIRCULATION DRILL HOLE LOG

DATE [redacted]/19/88

SHIFT HOURS 7 TO 5

TOTAL HOURS 10

HOLE NO. ADG-88-04 LOCATION L4+00E / Stn. 4+00S (Denton Twp)
GEOLOGIST ASK DRILLER MWD BIT NO./FTG. 1000-40
MOVE TO HOLE 10:45-11:00 BIT NO./FTG. 27-19'-46'
DRILLING 11:00-11:45
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE 11:45-12:00 Pull Rods + Move

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
		0'-14'		DRIFT/OVERBURDEN	7	21	1	14	.001
10			22017	Trace to 5% light brownish-yellow oxidized clayballs. 55% granitic vs. 40% mafic well rounded to subrounded pebbles to cobbles.					
			22018	Trace < 2.0 cm armoured clasts. Fine sand to silty matrix. Slow penetration with moderate +10 return. 10': dominantly mafic clasts with 5% granitic material. Fine sand matrix. 5/95%: matrix-clast ratio.	19	560	158	55	.001
20			22019		14	130	327	61	.001
		14'-19'		BEDROCK					
30				Dark grey, massive to weakly foliated fg to granular mafic (volcanic). H=2-3. Thin barren white calcite seams. Contains minute rounded, spherical particles (possibly a meteoroid?) sheared at 17'. yellow-brown and blue-green clay return. Fe-staining from 14'-17'. Trace disseminated sulphide (pyrite) mineralization.					
				STOP AT 19'.					
50				-EOH-					
60									
70									
80									
90									

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OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DAT 01/1988
SHIFT HOURS 7 TO 6
TOTAL HOURS 10

HOLE NO. ADB-88-05 LOCATION L5+00E/Stn 4+00S (DENTON TWP)
GEOLOGIST AJH DRILLER MW BIT NO./FTG. 1000940
MOVE TO HOLE 11:45-12:00 BIT NO./FTG. 46'+45=91'
DRILLING 12:00-1:30 / 180-1:45
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE 1:45-2:00

Depth (m)	Graphic Log	Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
		22020	0-40'. DIAMICTON (TILL) Trace to 2% soft, silty, light yellow-brown oxidized clayballs. Fine sand matrix. 80/20% matrix-clast ratio. 20% limestone, 50% granitic, ±30% mafic; well-rounded, spherical 0.25 to cobble-sized clasts. Poorly sorted.	8	26	4	26	.007
10		22021	15'. Finer silty matrix. Similar lithologies as above. 23'. 95% light grey, silty clayballs vs. 5% clastic material.	6	42	7	25	.001
20		22022	25'. Trace clayballs - compact pebble to cobble gravel. 60% mafic vs 40% granitic clasts. 30'. Trace to <5% clayballs. 55% mafic volcanic, 40-45% granitic material.	22	74	19	49	.001
30		22023	37'. Trace clayballs. 65-70% intermediate to mafic volcanic, 30-35% granitic + assorted material. Trace subangular mafic ammonited clasts.	21	125	21	51	.006
40		22024	40'-45'. BEDROCK	833	2185	1239	3980	.029
		22025	Granular, dark greyish green, foliated metasediment to intermediate volcanic?. Strong reaction with HCl. H=2-3. Trace finely disseminated pyrite. Fe-staining from 40'-42'.	17	28	48	263	.001
50								
			STOP AT 45'					
60			- EOH -					
70								
80								
90								
100								

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OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 01/01/1988

SHIFT HOURS
1 TO 5

TOTAL HOURS
10

HOLE NO. ADB-88-06 LOCATION L6+00E/Sm. 4+00S (DENTON TWP)
GEOLOGIST BJK DRILLER MW BIT NO./FTG. 1000+40
MOVE TO HOLE 1:45-2:00 BIT NO./FTG. 91'+63'=154'
DRILLING 2:00-4:15 / 4:15-4:30 Pull Rods
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE 4:30-4:45 / 4:45-5:00 Travel out.

Depth (m)	Graphic Log	Int/Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
			0-5'. LACUSTRINE SEDIMENTS Fine silt with < 5% clasts.					
10		22026	5'-25'. PEBBLY SAND 85-90% Fine sand matrix with 10-15% well-rounded, spherical, < 2.0 cm pebbles (80% granitic vs. 20% mafic). Moderate drill penetration with low to moderate return. Trace light grey to grey-brown silty clayballs. Trace cobble-sized clasts at 21'.	19	124	20	112	.001
20								
30		22027	25'-63'. DIAMICTON (TILL) 5-10% medium grey silty clayballs (slightly gritty). 65% mafic, < 30% granitic material. Slow drill penetration with low return.	22	104	51	81	.005
40		22028	34'. 65 to 70% light to medium grey hard, gritty clayballs. 25-30% subangular to rounded mafic pebbles to cobbles. < 5% granitic clasts. Fine silty matrix. Several < 0.25 cm pyrite cubes	20	98	28	98	.004
50		22029	37'. 15-20% clayballs vs. 80-85% clastic material. 65% intermediate to mafic vs 35% granitic pebbles and cobbles. Fine sand to silty matrix. 51'. similar to above.	29	202	23	157	.001
60		22030	55-56'. feldspar porphyry boulder. 58'-63'. BEDROCK	28	125	23	67	.009
70		22031	fine grained to granular, massive, dark grey metasediment - possibly an altered mafic tuff. H=2-3. Moderate to strong reaction with HCl. Trace disseminated sulphide mineralization.	18	16	5	61	.001
80			STOP AT 63' -EOH-					
90								
100								

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TIMMINS, ONTARIO P4N 7H6

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 21 1988
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. ADB-88-07 LOCATION L7E; Stn. 4+00S. (DENTON TWP.)
GEOLOGIST AJK DRILLER HWD BIT NO./FTG. J000390
MOVE TO HOLE 4:30-4:45 BIT NO./FTG. 154' + 69' = 223'
DRILLING 9:15-12:15 | 12:15-12:30 Pull Rods
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER 7:30-9:15 - repair water pump.
MOVE TO NEXT HOLE

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	ppm As	Cu	Ni	Zn	Au ppb
				0'-9'. DIAMICTON					
			22032	85-95% light yellowish-brown to light yellow-grey soft, gritty clay balls, 0.25 to 1.0cm in diameter.	7	16	1	17	.001
10				5-15% clast ratio (60% granitic / 40% mafic) 0.25cm granules to cobble-sized. Poorly sorted. Several 1-2.0cm subrounded armoured clasts.	9	35	12	18	.001
			22033	9'-23'. PEBBLY SAND					
20				90% fine to medium light grey sand matrix. 10% clastic material → well-rounded to sub-rounded, spherical, <2.0cm pebbles - trace cobbles 25% mafic / 75% granitic composition. 11-12',	2	51	36	78	.001
			22034	strongly oxidized clay layer.					
30			22035	23'-27'. DIAMICTON	16	80	38	54	.002
			22036	Trace to 5% clayballs. 75% angular to subrounded 0.25 to >2.0cm mafic vs. 20% limestone + granitic	13	117	48	208	.017
40			22037	clasts. Trace 0.5cm armoured clasts.	19	73	87	81	.003
				27'-35'. PEBBLY SAND	15	35	1	48	.024
50			22038	80/20%: matrix-clast ratio. Fine light grey sand matrix. 60% mafic vs. 40% granitic well-rounded to subrounded, <2.0cm clasts.					
			22039	35'-46.5'. DIAMICTON	13	33	14	32	.034
60			22040	Very slow drill penetration with low, silty return. Minor fine angular mafic clasts. 80%	24	53	11	57	.001
			22041	mafic vs 20% granitic + limestone pebbles, <0.5 cm. 90/10% matrix-clast ratio. 37'. 90-95%	15	14	27	73	.001
70				cb's vs 5-10% clasts. 41'. 99-100%, very hard compact clay w/ trace - 1% clastic material. 42.5'. similar till as at 35'.					
				46.5'-56'. GRAVEL					
80				75% well-rounded, spherical, 0.5 to 2.0cm granitic pebbles. 25% subangular to rounded low- to moderate sphericity, 0.25 to >2.0cm mafic volcanic clasts. Fine light grey sand matrix with a 70/30% matrix-clast ratio.					
				56'-61'. DIAMICTON					
90				75-80% soft, gritty, clay balls. 20-25% clastic material. Dominantly angular to subrounded					
100									

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OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE 21/9/88 HOLE NO. ADB-88-07 LOCATION L7E/Sta. 4+00S (DENTON TWP)
GEOLOGIST ADK DRILLER MW BIT NO./FTG. 1000740
SHIFT HOURS 7 TO 5 MOVE TO HOLE _____ BIT NO./FTG. 223'
DRILLING _____
MECHANICAL DOWN TIME _____
TOTAL HOURS 10 DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	ppm As	Cu	Ni	Zn

61'-63.5': SANDY TILL / PEBBLY SAND

High medium sand percentage; 10% angular altered intermediate to mafic 0.25 cm fragments to cobble-sized clasts. <5% granitic + limestone pebbles. Slow drill penetration with moderate H2O returns.

63.5-69': BEDROCK

Weakly foliated, medium greenish-grey, fine grained altered int-mafic volcanic / possibly a metasediment? H=2-3. Very weak reaction with HCl in areas. Trace to nil pyrite mineralization. Contains trace minute, well-rounded, spherical particles / clasts.

STOP AT 69'

- EOH -

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TIMMINS, ONTARIO P4N 7H6

OVERBURDEN EXPLORATION SERVICES LTD

REVERSE CIRCULATION DRILL HOLE LOG

DAT[illegible] 01 1988

SHIFT HOURS
7 TO 5

TOTAL HOURS
10

HOLE NO. ADB-88-08 LOCATION L8+00E / Stn 7+00S. (DENTON TWP)
GEOLOGIST ASK DRILLER MW BIT NO./FTG. H0006078 New Bit.
MOVE TO HOLE 12:30-1:30 BIT NO./FTG. 0' + 35'
DRILLING 1:30-3:00
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE 3:00-3:15

Depth (m)	Graphic Log	Int/Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
		22042	0-13'. DIAMICTON Slow drill penetration with low to moderate return 40-60% light yellowish-brown 0.25-1.0cm soft, gritty, clay balls. 60-40% well-rounded to subrounded (high to moderate sphericity) clastic material - dominantly granitic and limestone with 10 to 20% mafic pebbles. Trace armoured clasts. Very fine sand to silty matrix. Minor diabase cobbles at 6'-9'.	10	52	10	18	.001
		22043		21	72	31	64	.006
		22044	13'-24'. PEBBLY SAND 80/20%: matrix-clast ratio. Fine, light grey, well-sorted sand matrix. 75% well-rounded to spherical granitic pebbles to cobbles. 25% mafic (sed/volcanic) subrounded. 0.5 to >2.0cm clasts. Trace clay balls. Slow to moderate drill penetration with moderate return	444	113	528	337	.011
		22045		49	32	45	73	.005
			24'-29'. GRAVEL 75% foliated, oxidized yellow-brown felsic volcanic fragments (sericite-schist), angular, poor sphericity. 25% assorted material which includes mafic granitic and limestone rounded to subrounded <2.0cm pebbles. Traces of massive pyrite. Fine sand matrix. 20/80%: matrix-clast ratio.					
			29'-35'. BEDROCK Strongly foliated near surface, becoming massive within quartz vein network. Light to medium grey, fine grained to granular soft intermediate to felsic volcanic (Sericite Schist). H= 1-2. 1-2% disseminated sulphide mineralization along shear planes. 30.5'. Barren white quartz vein with 4% sulphide mineralization along contact. 33'. quartz vein with strongly sheared, brown (oxidized) sericite schist.					
			STOP AT 35 - EDH -					

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OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DAT 01 1988
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. ADB-88-09 LOCATION L7+00E/5m. 7+00S (DENTON TWP.)
GEOLOGIST ASK DRILLER MW BIT NO./FTG. H0001607
MOVE TO HOLE 3:00-3:15 BIT NO./FTG. 35'+38'=73'
DRILLING 3:15-4:30/4:30-4:45 Pull Rods
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE 4:45-5:00

Depth (m)	Graphic Log	Sample No.	Descriptive Log	ppm As	Cu	Ni	Zn	Au opt
		22046	0-9'. DIAMICTON 20% yellowish-brown soft, gritty clay balls. 80% rounded granitic and mafic pebbles and cobbles.	109	27	104	32	.013
10		22047	9'-24'. PEBBLY SAND 75% fine to medium sand matrix with 25% clastic material. 60% subangular to rounded (low to moderate sphericity) intermediate to mafic pebbles. 40% well-rounded, spherical, <2.0 cm granitic and limestone clasts.	42	69	33	113	.001
20		22048		112	125	35	76	.016
		22049		26	126	43	88	.001
30		22050	24'-33.5'. TILL (BASAL) <20% light grey to greenish grey, 0.25 to 0.5 cm soft and hard, gritty, clay balls. 45-50% dark greenish-grey and dark grey angular to sub-rounded mafic volcanic pebbles and cobbles. 25%-30% granitic and limestone granules to 2 cm pebbles. <10% angular, platy, light grey, sericite-schist fragments. Slow drill penetration with low +10 return.	46	149	93	100	.002
		22051	33.5	10	2	4	69	.001
40			33.5'-38'. BEDROCK Fine grained, moderately foliated, medium to dark grey, siliceous in areas, altered intermediate to felsic volcanic. Altered H# 2-3, unaltered H# 5. Trace finely disseminated sulphide mineralization. Thin barren white calcite seams. Contains minute darker grey particles (blebs).					
50								
60								
70								
80								
90								

STOP AT 38'

— EOH —

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

REVERSE CIRCULATION DRILL HOLE LOG

DATE 11 01 1988
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. ADB-88-10 LOCATION L6100E/Stn 7+00S (DENTON TWP)
GEOLOGIST AJK DRILLER MW BIT NO./FTG. 1000742 - New Bit
MOVE TO HOLE _____ BIT NO./FTG. 0'+74
DRILLING 7:45 - 12:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER 7:15 - 7:30 travel to site | 7:30 - 7:45 prepare to drill
MOVE TO NEXT HOLE 12:45 - 1:00

Depth (m)	Graphic Log	Int/Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
		22052	0'-69'- DIAMICTON Compact - slow drill penetration. 70% light yellow brown, 0.25-0.75cm soft, gritty, clay balls. 30% clastic material; 10-12% well rounded, spherical granitic pebbles to cobbles. 18-12% subrounded, 0.5 - +2.0cm mafic pebbles. Trace felsic material. Trace armoured clasts. Poorly sorted. 9-10% pebbly sand.	10	19	2	21	.001
10		22053	10'. <10%. light grey clay balls vs. 90% clastic material; 55% granitic, 35% mafic pebbles. Trace armoured clasts. 11'. trace clay balls - resembles a pebbly sand. Very slow drill penetration with low +10 return. Very fine sand to silty matrix.	11	124	41	28	.002
20		22054	29'. 25% clay balls vs. 75% clasts → 60% subangular to rounded, 0.25 to cobble-sized intermediate to mafic volcanic material. 40% well-rounded, spherical granitic and limestone pebbles. 35'. 95% clay balls with 5% clastic material → dominantly intermediate to mafic pebbles with trace felsic and granitic material. Fine angular fragments to rounded 1.0cm pebbles.	17	107	32	113	.005
30		22055		17	67	21	50	.001
		22056		15	103	31	92	.001
		22057		16	95	13	27	.001
40		NO SAMPLE						
		22058	STOP AT 44'. PULL RODS TO CHANGE DRILL BIT.	23	288	64	78	.042
50		22059	42-45'. Diabase Boulder 45'. 95-98% clay balls with 2-5% angular to subrounded clastic material. dominantly mafic. Trace granitic, limestone, and felsic volcanic pebbles. Very slow drill penetration with low to moderate +10 return. 57'. similar to above with interbedded, hard, compact clay demoid of clasts.	25	82	21	305	.004
		22060		18	64	20	225	.188
60		22061	64'. medium grey clay - hard, compact with very coarse, sand-sized to 0.5cm rounded clasts, dominantly granitic in composition. Coarser fraction composed of mafic (volcanic/sedimentary) fragments. Very hard-compact. Slow drill penetration.	30	116	97	21	.002
		22062		3	74	38	62	.001
70			69'-74'. BEDROCK Fine grained to weakly granular, medium greenish-grey, massive to weakly foliated metasediment (Greywacke?). H=3. Trace to 0.5% disseminated pyrite mineralization. No reaction with HCl. except along thin fracture seams.					
80			STOP AT 74' — EDH —					
90								
100								

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

REVERSE CIRCULATION DRILL HOLE LOG

DATE 01/1983
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. ADB-83-11 LOCATION L5+00E / Stn 7+00S. (DENTON TWP.)
GEOLOGIST BJK DRILLER MW BIT NO./FTG. J000742
MOVE TO HOLE 12:45 - 1:00 BIT NO./FTG. 741+61' = 135'
DRILLING 1:15 - 3:15
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER 1:00 - 1:15 · clean water tank
MOVE TO NEXT HOLE 3:15 - 3:30

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	ppm As	Cu	Ni	Zn	Au opt
				0-21'. LACUSTRINE SEDIMENTS					
				Light to medium grey, fine silt. Moderately compact. Trace rounded, <1.0 cm clastic material. Varved lacustrine sediments.					
10				20'-21'. Diabase Boulder.					
				21'-55.5'. DIAMICTON (TILL)					
20				Slow drill penetration. Low +10 return. 20% <0.5 cm, medium grey, hard, gritty, clay balls. 80% clastic material; 60% mafic, 5% felsic volcanic and 15% granitic pebbles to cobbles.					
			22063	29'. 80% clay balls vs. 20% clasts - dominantly mafic with approximately 5% granitic material.	24	90	20	88	.001
30			22064	40'. 95-98% clay balls with 2-5% fine, angular, <1.0 cm mafic and granitic pebbles. Slow drill penetration with moderate +10 return.	12	68	28	62	.003
			22065	50'. 98% clay balls / 2% angular to subrounded fine mafic fragments. Minor thin clay-rich horizons void of clastic material.	26	122	44	210	.003
40			22066	54.5-55'. sulphide-rich horizon. massive pyrite and chalcopyrite fragments.	10	97	28	123	.022
			22067	55.5'-61'. BEDROCK	17	93	14	69	.001
50			22068	fine grained, massive, with sheared (foliated) sections, very dark greenish-grey metasediment/ altered mafic volcanic. Hardness ranges from 1 to 3. Abundant barren white quartz veining with minor sulphide mineralization along the contact. Trace to 0.5% finely disseminated sulphide mineralization within hostrock. No reaction with HCl.	508	969	16	50	.024
			22069		14	7	7	94	.001
60				STOP AT 61'					
				- EOH -					
70									
80									
90									
100									

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

REVERSE CIRCULATION DRILL HOLE LOG

DATE 11 01 1988
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. ADB-88-12 LOCATION L4+00E/Stn 7+00S (DENTON TWP.)
GEOLOGIST ASK DRILLER MW BIT NO./FTG. H000605 New Bit
MOVE TO HOLE 3:15-3:30 BIT NO./FTG. 0'+25'
DRILLING 3:30-5:00 / 5:00-5:15 Drain water lines
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER 5:15-5:30 travel out.
MOVE TO NEXT HOLE

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
				0-6'. LACUSTRINE SEDIMENTS					
				Fine light, yellowish brown silt with trace mafic and granitic, well-rounded, spherical, <2.0 cm pebbles. Several thin very coarse sand interbeds.					
10			22070		16	99	23	91	.002
				6'-20.5'. DIAMICTON					
			22071	75-80% 0.25 to 0.75 cm, light to medium grey hard to soft, gritty, clayballs. 20-25% clastic material, dominantly pebble-sized with minor cobbles. 15-20% fine, angular to subrounded <2.0 cm intermediate to mafic volcanic clasts. <5% assorted material → Dominantly granitic with minor limestone and felsic volcanic pebbles. 18': increase in cobble-sized clasts - similar lithologies as above.	13	367	43	136	.002
20			22072		15	94	28	178	.001
				20.5'-25': BEDROCK					
				Medium greenish-grey, soft, altered, intermediate to mafic metavolcanic (Andesite to Basalt). H=1-2. Steamed with yellow-brown clay return. No visible sulphide mineralization.					
30				STOP AT 25'					
				-EOH-					
40									
50									
60									
70									
80									
90									
100									

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

REVERSE CIRCULATION DRILL HOLE LOG

DATE [redacted] 19__
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. AOE-88-13 LOCATION L3+00E | Stn 7+00S (DENTON TWP)
GEOLOGIST AJK DRILLER MW BIT NO./FTG. HOOD 60S
MOVE TO HOLE 7:30-7:45 BIT NO./FTG. 25'+15'=40'
DRILLING 7:45-9:45
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER 7:15-7:30 travel to site | ½hour delay - wait for water
MOVE TO NEXT HOLE 9:45-10:00

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	ppm As	Cu	Ni	Zn	Au opt
				0-4'. No Return					
10			22073	4'-9'. DIAMICTON	492	1193	151	368	.006
			22074		250	410	6	529	.008
			22075	fine, light. yellow-brown to medium brown, oxidized silt with strongly oxidized mafic and quartz vein cobbles to boulders. 1-2% pyrite and chalcopyrite fragments.	492	1193	151	368	.006
				5-7'. strongly oxidized mafic and quartz-vein boulder with up to 10% sulphide mineralization (pyrite and chalcopyrite). * Boulder sample * 22074.	7	187	16	68	.002
				9'-15'. BEDROCK					
30				9'-9.5'. strongly foliated, dark brownish-grey to green mafic volcanic fragments.					
				9.5'-12'. recrystallized, sugary white to greyish-white quartz veins with trace to <1% sulphide mineralization (py, po + cpy.)					
				12'-13'. olive green. strongly foliated, soft, altered mafic volcanic. H=1-2. Trace sulphide mineralization. 13'-13.5'. quartz-vein similar to above.					
				13.5'-15'. medium grey, foliated, fine grained, soft, strongly carbonatized mafic volcanic, containing trace sulphide mineralization. heavy amount of sample washed up hole.					
50				STOP AT 15'					
				- EOH -					
70									
80									
90									
100									

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

REVERSE CIRCULATION DRILL HOLE LOG

DATE 10.19.83
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. A08-88-14 LOCATION L2+00E / Stn. 7+00S (DENTON TWP.)
GEOLOGIST AJK DRILLER MW BIT NO./FTG. H000609
MOVE TO HOLE 9:45-10:00 BIT NO./FTG. 40'+35'=75'
DRILLING 10:00-11:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE 11:30-11:45

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	ppm As	Cu	Ni	Zn	Au opt
			22076	0-9'. PEBBLY SAND Fine to medium, oxidized medium brown sand with 10-15% clastic material. Dominantly	27	77	1	26	.003
10			22077	medium grey intermediate to mafic, angular to subrounded, <2.0cm pebbles with minor cobbles. Trace granitic and limestone clasts. Thin, dark grey clay cap at surface organic-rich. 9-10'. Lidded boulder.	22	125	20	48	.008
20			22078		30	137	39	72	.003
			22079	10'-29'. DIAMICTON (TILL) Slow drill penetration with low to moderate return; compact. 95% light to medium grey 0.25 to 1.0 cm hard, gritty, clayballs. 5% clastic material, dominantly angular 0.5cm to cobble-sized mafic volcanic with trace to 1% granitic, limestone, well-rounded, <2.0cm pebbles.	23	122	39	56	.001
30			22080		249	267	115	355	.018
			22081		2453	271	20	220	.024
40				20'. 6" horizon of hard, compact clayey silty, medium grey - void of clastic material. 20.5'. diamicton similar to above. 27'-29'. 95 to 98% light to medium grey hard, gritty, clayballs with 2 to 5% clastic material - dominantly felsic in composition. (light grey, massive, angular pebbles to cobbles) Trace mafic and granitic material.					
50									
60				29'-35'. BEDROCK Fine grained, weakly foliated, light grey to greenish-grey felsic volcanic (Rhyolite). H=5. Trace to 0.5% disseminated sulphide mineralization. Quartz-carbonate veining within sheared sections. Grades into a sericite-schist at 32.5'. H=1, strongly foliated, light greyish-green to grey in color.					
70				STOP AT 35' - EOH -					
80									
90									
100									

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

REVERSE CIRCULATION DRILL HOLE LOG

DATE 12 01 1988
SHIFT HOURS 7 to 5
TOTAL HOURS 10

HOLE NO. ADB-88-15 LOCATION L7+00E / 9m 7+00S (DENTON TWP.)
GEOLOGIST AJK DRILLER MW BIT NO./FTG. H000605
MOVE TO HOLE 11:35-11:45 BIT NO./FTG. 75'+38'=113'
DRILLING 11:45-1:15
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE 1:15-1:30

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	ppm As	Cu	Ni	Zn	Au opt
		0-4'		Organics					
		4'-5'	22082	LACUSTRINE SEDIMENTS - fine, well-sorted, light brown sand.	112	98	30	92	.035
10		5'-21'		DIAMICTON					
			NO SAMPLE	Slow drill penetration with low to moderate +10 return. 85% light grey, 0.25-0.75 cm soft to hard, gritty clayballs. 15% clastic material.	106	73	13	73	.001
20			22083						
			22084	dominantly assorted clasts consisting of granitic, limestone, intermediate to mafic and trace felsic volcanic material. Fine sandy matrix. 14'-15' - Felsic volcanic boulder.	26	473	511	95	.013
30		15'	22085	<10% clayballs vs. 90-95% clasts with thin interbedded sandy gravel horizons.	130	170	36	39	.005
			22086	60% intermediate to mafic / 40% granitic and other exotic, well-rounded to subrounded, 0.5 cm to cobble-sized clasts.	37	186	53	117	.004
40		21'-31'		GRAVEL Trace to <2% clayballs. 80% granitic / 20% intermediate to mafic volcanic clasts. Fine sand matrix with a 30/70%: matrix-clast ratio. Well-rounded, spherical to subrounded (low sphericity) 0.25 cm to cobble-sized clasts.					
50		31'-38'		BASAL TILL Moderately compact - 98% soft to hard 0.25 - 1.0 cm medium grey to dark greenish-grey clayballs. 2% clastic material. Dominantly fine angular, dark grey mafic fragments. Trace granitic and limestone pebbles.					
60		33'-38'		BEDROCK 33'-34.5' - strongly sheared, very dark grey to black soft, altered, mafic rock (possibly a metasediment). with 1-2%, 0.25 to 0.5 cm sheared pyrite cubes. Major dark-grey clay return. 34.5' - slightly harder dark grey to black with strong fe-staining (oxidized). H=2-3. Trace disseminated pyrite cubes. No reaction with HCl. 36' - minor light to medium yellowish-brown oxidized fragments. Possibly a strongly oxidized mafic volcanic ?					
70				STOP AT 38' - EOH -					
80									
90									
100									

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

OVERBURDEN EXPLORATION SERVICES LTD

REVERSE CIRCULATION DRILL HOLE LOG

DATE 10 AUG 1988
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. ADB-88-16 LOCATION L0+00 / Stn 7+00S (DENTON TWP.)
GEOLOGIST ASK DRILLER HW BIT NO./FTG. H000605
MOVE TO HOLE 1:15-1:30 BIT NO./FTG. 113'+51'+164'
DRILLING 1:30-3:45 / 3:45-4:00 Full Rods
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER 4:00-4:15 Drain water lines / 4:15-4:30 move
MOVE TO NEXT HOLE 4:30-4:45 travel out.

Depth (m)	Graphic Log	Int/Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
			0-2': Organics					.007
		22087	2-4': No Return.	15	64	25	59	.007
10			4'-45.5': Diamicton (Till)					
		22088	Slow drill penetration with low to moderate +10 return. 95 to 98% 0.25 to 1.0 cm light grey hard, gritty, clayballs. 2-5% rounded to sub-angular, 0.5 to +2.0 cm mafic pebbles. Trace to 1% granitic, limestone and felsic material. 18': similar to above.	35	73	20	78	.001
20		22089		33	51	32	78	.003
		22090	24'-26': gravel unit with ±10% clayballs vs. 90% clasts. 60% intermediate to mafic, rounded to subrounded, 0.5 to 2.0 cm pebbles; 40% well-rounded, spherical, ±2.0 cm granitic and limestone clasts. 26': 90% clayballs, 10% pebble to cobble-sized clasts. 82% intermediate to mafic, 2% granitic well-round to subangular pebbles. 32': 85% clayballs / 15% clasts - dominantly	44	125	16	81	.002
30		22091		54	201	34	131	.001
40		NO SAMPLE						
		22092	cobbles. 99% intermediate to mafic volcanic, 3% felsic volcanic, 3% granitic material. 41'-42': Intermediate to felsic volcanic boulder.	38	103	40	46	.001
50		22093	44.5'-45': diabase boulder.	23	18	12	42	.001
			45.5'-51': BEDROCK					
60			Altered, soft, foliated, light to medium greyish-green, oxidized intermediate to mafic volcanic (Altered Basalt). H=2-3. Non carbonatized. Trace to nil sulphide mineralization.					
			STOP AT 51'					
70			- EOH -					
80								
90								
100								

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE [redacted] 19 88
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. AOS-88-17 LOCATION L0+00 / Stn 9+00S (DENTON TWP.)
GEOLOGIST AJK DRILLER HW BIT NO./FTG. J000743
MOVE TO HOLE 8:15 - 1:00 BIT NO./FTG. New Bit 0'-62'
DRILLING
MECHANICAL DOWN TIME
DRILLING PROBLEMS 45 minute delay - wait for water
OTHER 7:15-7:30 : travel to site / 7:30-8:15 - Thaw equipment
MOVE TO NEXT HOLE 1100 - 1115

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
				0-2'. Organics					
			22094	2'-7': GRAVEL	38	200	120	71	.001
10			22095	Pebble - cobble gravel - Compact - slow drill penetration. 70% rounded to subrounded dark grey to medium greenish-grey mafic volcanic / sediment clasts. 25% granitic material & 5% assorted clasts. ie. jasper, limestone, syenite, ferruginous sediments. 25/75% matrix - clast ratio.	21	78	20	33	.001
			22096		16	33	12	59	.006
20			22097	7'-52': DIAMICTON to GRAVEL HORIZONS	72	106	14	53	.008
			22098	7-8.5': 95% light grey, silty, clayballs with 5% well-rounded, spherical, <1.0cm granitic and mafic pebbles. 8.5'-11': gravel similar to above:	81	97	43	94	.003
30			No SAMPLE						
			22098	11': 90-95% light to medium grey, 0.25 to 0.5 cm soft and hard, gritty, clayballs. 5-10% clastic material; dominantly angular to subrounded mafic pebbles + cobbles with trace to 2% granitic + limestone clasts. 21'-29': cobble-rich diamicton. <10% clayballs (trace ammonoid clasts). Dominantly mafic volcanic clasts with <20% granitic + felsic volcanic material.	80	97	43	94	.003
40			22099		90	236	962	84	.011
50			22100	29'-32.5': light greyish-green, fine grained, massive, altered intermediate volcanic boulders. H=4-5, non-carbonatized. Trace disseminate sulphides. 32.5'-34': 65% mafic / 35% granitic pebbles and cobbles; trace clayballs. 34'-41': 98% light grey 0.25 to 1.0cm hard, gritty, clayballs with 2 to 5% fine angular to subrounded mafic pebbles and cobbles. Trace granitic, limestone and other assorted clasts. 41'-52': till similar to above.	68	500	74	76	.028
60			22101		4	24	19	56	.001
70				52'-62'. BEDROCK Hard, massive, light to medium, greyish-green altered, intermediate to mafic volcanic. H=4-5 sheared in areas with strong chlorite alteration. H=2. No visible sulphide mineralization. Non-carbonatized.					
80				STOP AT 62' — EOH —					
90									
100									

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE [redacted] 1989

SHIFT HOURS
7 TO 5

TOTAL HOURS
10

HOLE NO. ADB-88-18 LOCATION L1400E/Sta. 9+00S (DENTON TWP.)
GEOLOGIST ASK DRILLER LLW BIT NO./FTG. J000943
MOVE TO HOLE 1:00-1:15 BIT NO./FTG. 62'+25=87'
DRILLING 1:15-2:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE 2:30-2:45

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
				0-4'. No Return					
10			22102	4'-13.5'. GRAVEL Moderately compact pebble to cobble gravel. 60% rounded to subrounded mafic clasts vs. 40% assorted material - dominantly granitic. Fine sand matrix with a 35/65% matrix: clast ratio. Trace clay balls and armoured clasts.	11	157	47	27	.005
20			22103		13	101	37	26	.001
			22104		16	20	44	110	.001
30				13.5'-19.5'. DIAMICTON Slow drill penetration with moderate +10 return. 65% light to medium grey, 0.25 to 1.0cm hard, gritty, clay balls. 35% clastic material - dominantly fine grained, light to medium grey-green mafic and altered mafic volcanic, angular to subrounded pebbles to cobbles. <10% granitic and limestone, well-rounded, spherical, <2.0cm pebbles.					
40				19.5'-25'. BEDROCK Light to medium greyish-green, massive fine grained to weakly granular intermediate to mafic volcanic (Andesite to Basalt). H=4-5. Non-carbonatized. Trace finely disseminated sulphide mineralization. Contains minute .01 to 0.25 cm dark chlorite-filled amygdules.					
50				STOP AT 25'					
60				- EOH -					
70									
80									
100									

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE [redacted] 1988
HOLE NO. ADB-88-19 LOCATION L2+00E / Stn. 9+00S (DENTON TWP)
GEOLOGIST AJK DRILLER HW BIT NO./FTG. J000743
SHIFT HOURS MOVE TO HOLE 2:30 - 2:45 BIT NO./FTG. 87'+11 = 98'
7 TO 5 DRILLING 2:45 - 3:15
MECHANICAL DOWN TIME
TOTAL HOURS DRILLING PROBLEMS
10 OTHER
MOVE TO NEXT HOLE 3:15 - 3:30

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	Au 10ppb				
				0-2'. No Return					
			22105	2'-6'. LACUSTRINE SEDIMENTS Fine to medium sand with trace to 2% intermediate to mafic volcanic and granitic pebbles + cobbles.	52	31	3	.71	001
10				6'-11'. BEDROCK Fine grained, strongly foliated, light greenish colored sericite-schist. Hol-2. Trace finely disseminated sulphide mineralization. Pearly lustre. Minor brown oxidized staining.					
20				STOP AT 11'					
30				-EOH-					
40									
50									
60									
70									
80									
100									

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE [redacted] 88

HOLE NO. ADB-88-20 LOCATION L3+00E / Sta. 9+00S (DENTON TWP.)
GEOLOGIST ASK DRILLER MW BIT NO./FTG. 3000743
MOVE TO HOLE 3:15-3:30 BIT NO./FTG. 48'+37'=135'
DRILLING 3:30-4:45 / 4:45-5:00 Full Rods.
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER 5:00-5:15 Drain water lines + pump / 5:15-5:30 travel out.
MOVE TO NEXT HOLE

SHIFT HOURS 7 TO 5

TOTAL HOURS 10

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	ppm As	Cu	Ni	Zn	due lopt
		0-3.5'		Organics					
		3.5-4.0'		FINE SAND.					
10		4-5'	22106	Medium grey/it--green, granular altered mafic volcanic / metased. boulder.	32	68	18	85	.001
		5-10'		NO RETURN					
20		10-32'	22107	DIAMICTON	31	80	21	111	.005
			22108	Moderately compact with moderate drill penetration and +10 return. 10-15% 0.25-0.5 cm, medium grey, hard, gritty, clay balls. 35% granitic pebbles and cobbles, well-rounded to subrounded. <50% medium	50	67	78	38	.007
30			22109		87	51	3	34	.002
			22110	grey-green, intermediate to mafic volcanic clasts. 18' 90-95% clayballs vs. 5-10% rounded to subangular, 0.25 to 2.0 cm mafic pebbles with trace to <3% granitic material.	39	292	3	104	.002
40				28.5'-29.5' Sericite-schist boulder.					
				29.5' light grey to white, silty, slightly gritty clay with 10% mafic and trace sericite-schist fragments.					
50		32'-37'		BEDROCK					
				Dark grey to greenish-grey, massive, fine grained to weakly granular mafic volcanic? / metasediment? HCl. Up to 5% cubic pyrite. Minor reaction with HCl.					
60				STOP AT 37					
				— EOH —					
70									
80									
90									
100									

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

OVERBURDEN EXPLORATION SERVICES LTD

REVERSE CIRCULATION DRILL HOLE LOG

DATE [illegible] 1988
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. ADO-88-21 LOCATION L4+00E / Stn 9+00.S (DENTON TWP)
GEOLOGIST ASK DRILLER MW BIT NO./FTG. D000359 - New Bit
MOVE TO HOLE 7:45-8:00 BIT NO./FTG. 0'-53'
DRILLING 8:00-10:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER 7:30-7:45 travel to site / 8:00-8:30 prepare to drill
MOVE TO NEXT HOLE 10:30-10:45

Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	As (ppm)	Cu (ppm)	Ni (ppm)	Zn (ppm)	Au (opt)
				0-5'. Organics					
				5'-11.5'. LACUSTRINE SEDIMENTS					
				Very fine, light grey, well-sorted sand with trace clay content.					
10			22111	11.5'-48'. DIAMICTON	20	71	32	119	.007
				Slow drill penetration with low +10 return.					
20			22112	45% light grey, soft, silty to hard, gritty, 0.25 to 0.75 cm clayballs. Minor thin, clay-rich interbeds. 65% clastic material → 40% light to medium greyish-green, fine grained intermediate to mafic, rounded to sub-angular pebbles. 25% well-rounded, spherical, granitic and limestone granules to 1.0cm pebbles. 22'-95% light to medium grey hard, gritty, clay balls, 0.25 to 1.0cm in diameter. 2-5% clastic material + 2-3% medium to dark greenish-grey, fine grained to granular 0.25 to 2.0cm angular to sub-rounded mafic pebbles - minor cobbles. Trace to 2% well-rounded spherical, <2.0cm granitic and limestone pebbles. 42'-98-100% clayballs with trace to 2% angular, fine mafic clasts. Several very thin horizons containing rounded to subangular <2.0cm, 7% mafic and 3% granitic pebbles vs. 90% clayballs.	28	100	56	92	.018
30			22113		10	52	10	56	.001
40			22114		12	59	13	40	.001
			22115		217	197	49	70	.076
50			22116		10	38	3	11	.001
				48'-53'. BEDROCK					
60				Fine grained, moderately foliated, light to medium green with light brown, Fe-staining, altered intermediate volcanic. Weak sericite alteration. H=3-4, sheared areas: H=1. Trace finely disseminated sulphide mineralization.					
70				STOP AT 53'					
80				- EOH -					
90									
100									

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

OVERBURDEN EXPLORATION SERVICES LTD
REVERSE CIRCULATION DRILL HOLE LOG

DATE JA 0 1933
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. ADB-88-27 LOCATION L 5+00E/Sta 9+00S (DENTON TWP)
GEOLOGIST ASK DRILLER HW BIT NO./FTG. D000359
MOVE TO HOLE 10:30-10:45 BIT NO./FTG. 53'+30'=83'
DRILLING 10:45-12:15
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE 12:15-12:30

Depth (m)	Graphic Log	Int/Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
			0-11': PEBBLY SAND 85% fine, light brownish-grey sand with 15% (10% granitic / 5% mafic) clasts.					
10		22117	11'-24.5': DIAMICTON 11'-12.5': clay rich; 98% clayballs vs. 2% well-rounded, spherical, <1.0cm granitic and mafic pebbles. 12.5'-14.5': trace clayballs. 40% mafic / 60% granitic clasts. 14.5'-18'. 45% clayballs / 55% clasts. 18'. 90% light grey, 0.25 - 1.0cm hard, gritty clayballs. 10% clastic material, dominantly mafic volcanic, medium to dark grey-green, subangular to rounded, 0.25 to cobble-sized clasts. Trace to 2% well-rounded, spherical, granitic and limestone granules. 23'. moderately compact pebble to cobble gravel. 70% mafic volcanic / 30% granitic composition. (18-24': BASALTILL)	7	39	20	60	.004
20		22118		17	85	19	116	.004
30		22119		5	18	6	60	.001
40			24.5'-30': BEDROCK 24.5-26': barren, white, quartz vein with minor yellow-brown-fe-staining. 26'. fine grained, light to medium greenish-grey, massive, altered, intermediate to mafic volcanic. (Andesite-Basalt). H=2-3. trace to 0.1% disseminated sulphide mineralization.					
50			STOP AT 30' - EOH -					
60								
70								
80								
90								
100								

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

REVERSE CIRCULATION DRILL HOLE LOG

DATE 14 01 19 88
SHIFT HOURS
7 TO 5
TOTAL HOURS
10

HOLE NO. ADS-88-23 LOCATION L6+00E / Stn. 9+00S (DENTON TWP)
GEOLOGIST ASK DRILLER MW BIT NO./FTG. D000359
MOVE TO HOLE 12:15-12:30 BIT NO./FTG. 85'+41'=124'
DRILLING 12:30-2:00
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE 2:00-2:15

Depth (m)	Graphic Log	Int/Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
10		22120	0'-34.5'- DIAMICTON 85-90% light brownish-grey, soft, silty and gritty, 0.25-0.5cm clayballs. 10-15% well-rounded, spherical, <1.0cm clastic material. 8-9% granitic vs. 6-7% mafic pebbles.	16	17	1	23	.001
20		22121	11.5': trace clayballs. 55% mafic / 45% granitic rounded to subrounded pebbles to cobbles. Slow drill penetration with low to moderate +10 return.	10	86	23	72	.001
30		22122	Contains thin clay-rich horizons several inches in diameter. 29.5': clay-rich till (basal) containing 75-80% 0.25-0.5 cm. medium grey hard, gritty clay balls. 20-25% angular to subrounded clasts dominantly mafic volcanic with	24	84	41	170	.001
		22123	trace well-rounded, spherical, <2.0 cm granitic pebbles.	34	100	78	269	.002
40		22124	34.5'-41'. BEDROCK Medium greenish-grey, fine grained; altered massive to weakly foliated mafic volcanic (Basalt). H=3. Trace finely disseminated sulphide mineralization. Minor barren white quartz-calcite stringers.	10	61	13	50	.001
50			STOP AT 41' - EOH -					
60								
70								
80								
90								
100								

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

REVERSE CIRCULATION DRILL HOLE LOG

DATE 14 Oct 1988
SHIFT HOURS 7 TO 5
TOTAL HOURS 10

HOLE NO. ADB-88-24 LOCATION 17+00E / 8+00S (DENTON TWP.)
GEOLOGIST AJH DRILLER MW BIT NO./FTG. D000359
MOVE TO HOLE 2:00-2:15 BIT NO./FTG. NA + 33' + 157'
DRILLING 2:15-3:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
MOVE TO NEXT HOLE 3:30-3:45

Depth (m)	Graphic Log	Int/Sample No.	Descriptive Log	ppm As	ppm Cu	ppm Ni	ppm Zn	Au opt
			0-4'. No Return					
			4'-22'. GRAVEL					
10		22125	Moderately compact pebble to cobble gravel 70% well-rounded, spherical, granitic to 30% dark greenish-grey mafic clasts (rounded to sub-rounded. Fine sand matrix. 35/65% matrix-clast ratio. Trace light grey, 0.25 to 0.5 cm clay balls.	12	19	1	17	.077
20		22126		12	70	33	71	.001
			22'-28'. TILL (BASAL).					
		22127	70% light to medium grey, 0.25 to 0.5 cm hard, gritty, clay balls. 30% medium to dark grey, angular to sub-rounded pebbles - cobbles. Trace limestone and granitic clasts. Slow drill penetration with low rib return.	26	83	37	75	.001
30		22128		9	33	24	73	.001
			28-33'. BEDROCK					
			Fine grained, foliated, medium greenish-grey, altered mafic volcanic (Basalt). H=1-2. Trace fine pyrite. Minor yellowish-brown Fe-staining.					
40			STOP AT 33'					
			— EOH —					
50								
60								
70								
80								
90								
100								

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P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

OVERBURDEN EXPLORATION SERVICES LTD

REVERSE CIRCULATION DRILL HOLE LOG

DATE 14 01 1988

SHIFT HOURS 7 TO 6

TOTAL HOURS 10

HOLE NO. ADB-88-25 LOCATION LB+00E / Stn. 9+00S (DENTON TWP.)
GEOLOGIST AJK DRILLER MW BIT NO./FTG. D000359'
MOVE TO HOLE 3:30 - 3:45 BIT NO./FTG. 157' + 43' = 200'
DRILLING 3:45 - 4:45 / 4:45 - 5:00 Pull Rods
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER 5:00 - 5:15 drain water lines, tank & pump.
MOVE TO NEXT HOLE 5:15 - 5:30 travel out.

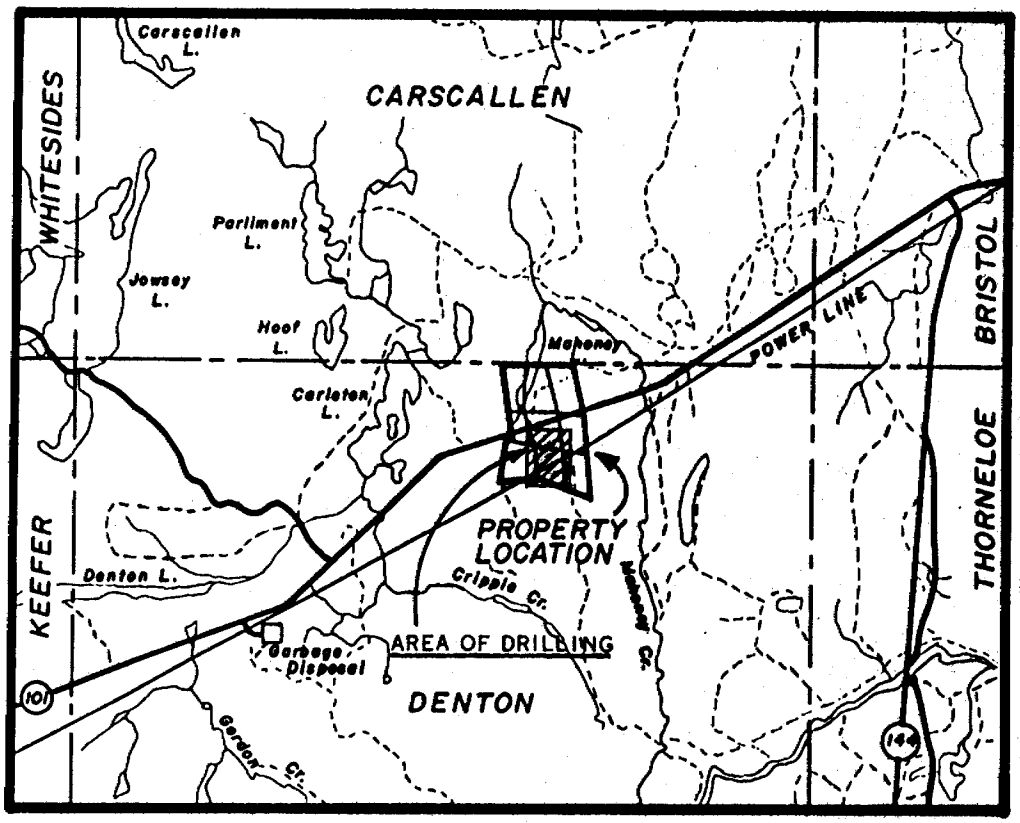
Depth (m)	Graphic Log	Int	Sample No.	Descriptive Log	ppm As	Cu	Ni	Zn	Au opt
				0-1'. Organics					
10			22129	1'-17'. SANDY GRAVEL Moderately to non-compact pebble gravel. 90% well-rounded, spherical, granitic clasts. 10% rounded, spherical, dark greenish-grey intermediate to mafic volcanic pebbles.	12	11	1	65	.043
20			22130	55/45% matrix-clast ratio. Fine, light brownish-grey sand. Low +10 return (material washed up hole).	6	57	24	59	.002
30			22131	17'-30'. DIAMICTON 25% light to medium grey, hard, gritty, clay balls. 75% clastic material - dominantly foliated to massive, medium to dark greenish grey, angular to subrounded intermediate to mafic volcanic fragments with approximately 20% granitic material. Slow drill penetration with low +10 return. Thin gravel-like lenses void of clay content.	18	136	29	101	.002
40			22132		20	116	30	54	.001
			22133		12	27	17	99	.001
50				30'-37'. GRAVEL 65% intermediate to mafic volcanic / 35% granitic material. Trace clayballs. Slow drill penetration. Fine sand matrix with a 40/60%: matrix-clast ratio.					
60				37'-43'. BEDROCK Fine grained, foliated, silver grey to light greenish-grey altered rock (Sericite Schist) H=+2, Trace finely disseminated sulphide mineralization. Minor brownish Fe-staining.					
70				STOP AT 43'					
80				- EOH - AJK.					
90									
100									

OVERBURDEN EXPLORATION SERVICES LTD.
P.O. BOX 1044, 33 IROQUOIS ROAD
TIMMINS, ONTARIO P4N 7H6

DIAMOND DRILLING PROGRAMME
on the property of
AUMO EXPLORATIONS INC.
Denton Township, Ontario

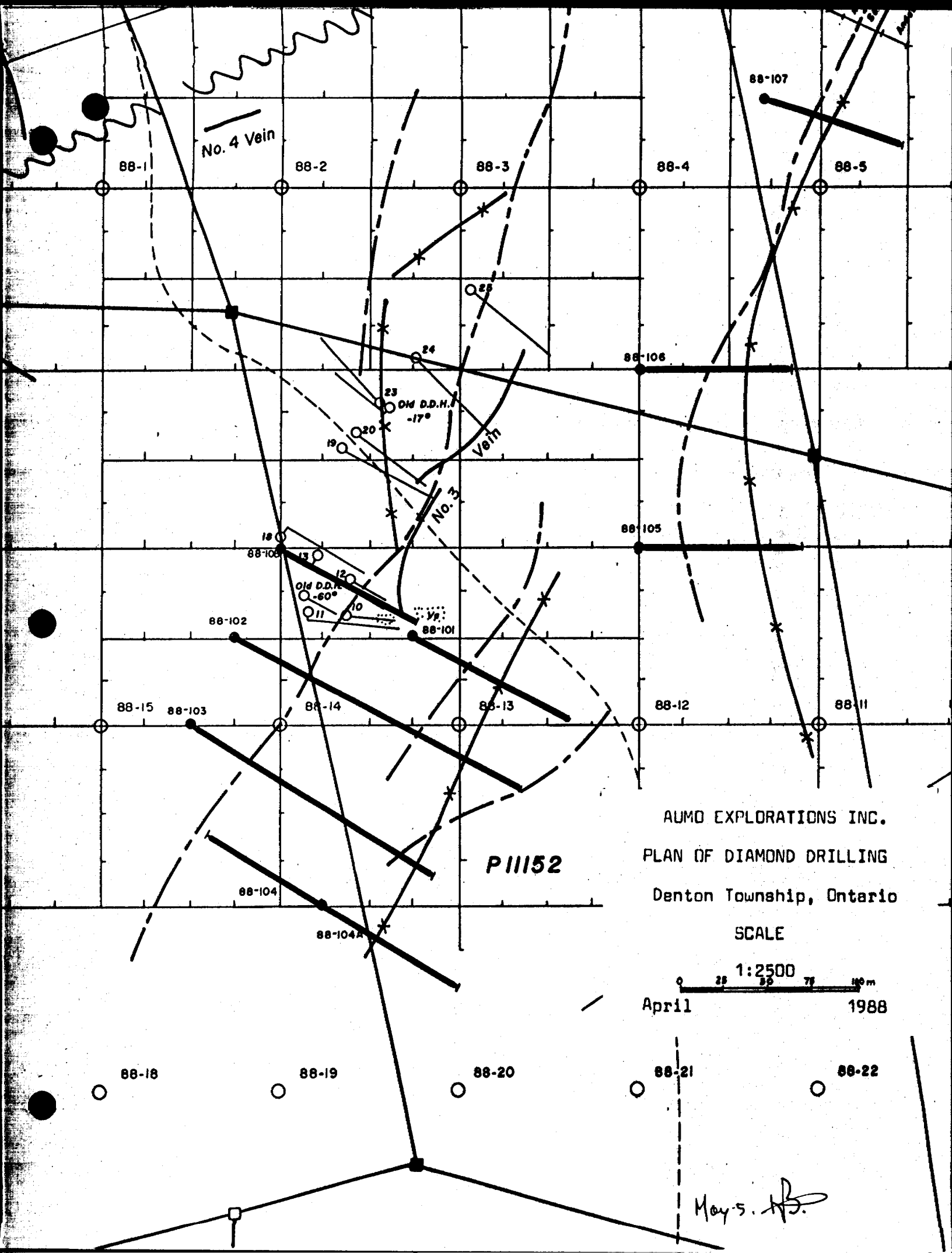
Timmins, Ontario
May 4, 1988.

R.J. Bradshaw, P. Eng.
Geologist



KEY MAP

SCALE:
1:100,000


No. 4 Vein
88-1
88-2
88-3
88-4
88-5
88-107
88-106
88-105
88-102
88-101
88-15
88-103
88-14
88-13
88-12
88-11
88-104
88-104A
88-18
88-19
88-20
88-21
88-22
25
24
23
Old D.D.H.
-17°
20
19
Vein
No. 3
18
88-108
13
12
Old D.D.H.
-60°
11
10
Vein
P11152
AUMO EXPLORATIONS INC.
PLAN OF DIAMOND DRILLING
Denton Township, Ontario
SCALE
1:2500
0 25 50 75 100 m
April 1988
May-5.

INTRODUCTION

During the period March 17 to April 12, 1988 a diamond drilling programme was undertaken on a property held by Aumo Explorations Inc. in Denton Township.

The group of nine patented claims has been intensely explored over the past 65 years. About 1981 the claims were covered by magnetic and electromagnetic surveys and in 1988 a 25 hole overburden drilling programme was carried out in the south half of the property.

The diamond drilling was undertaken in the south half of the property to investigate geophysical features associated with anomalous gold values detected by the overburden drilling. Essential references include reports by the writer dated May 12, 1987 and February 16, 1988 describing the geology and previous work on the property.

A plan showing the location of the holes and sections (Figures 1 to 7) of the holes accompany this report. A complete set of logs and assay results are also attached.

SUMMARY OF 1988 DIAMOND DRILLING

Hole No.	Location	Direction	Dip	Depth ft.	Target
88-101	275E;650S	118	45	421	geophysical and overburden anomalies
88-102	174E;650S	118	45	820	as above
88-103	147E;700S	118	50	800	geophysical anomaly
88-104	225E;800S	298	50	382	geophysical anomaly
88-104A	225E;800S	118	50	450	as above
88-105	400E;600S	090	50	450	geophysical and overburden anomaly
88-106	400E;500S	090	50	420	geophysical anomaly
88-107	470E;350S	118	50	420	geophysical and overburden anomaly
88-108	200E;600S	118	45	400	site of old drilling and gold values ?

Nine holes totalling 4563 feet (1391 m)

COSTS

The cost of the programme was substantially below budget. Costs attributed directly to the drill contractor, Norex Drilling Limited, amounted to $18.24 per foot. Including engineering services and assaying, cost of the programme amounted to approximately $21.15 per foot.

The diamond drill core is stored just north of highway 101 adjacent to the Malette timber road along the west boundary of the property.

RESULTS

In general, Figures 2, 3, and 4 display two iron formation units separated mainly by felsic pyroclastics and some intrusive rocks all of which dip about 70 degrees to the west. The deeper easternmost iron

formation is associated with a narrow bed of pyritized graphite and other fine grained clastic sediments over a width of about 100 feet. Farther to the east the volcanics are dominantly intermediate to mafic, suggesting thereby that the iron formation-graphite assemblage marks the boundary between the Deloro Group to the west and the Tisdale Group to the east. The Tisdale Group is much more favourable to economic concentrations of gold.

Conformable feldspar porphyry, quite common in the drilling, lacks mineralization or gold values.

Anomalous gold values within the drill secton are associated with disseminated pyrrhotite-pyrite ranging from 2 to 12 per cent in a host sometimes carbonatized, with or without quartz injections, but almost invariably sericitized and having lightly disseminated arsenopyrite.

The best intersection came from hole 88-104A which assayed 960 ppb (0.03 opt) over 6.5 feet. It is suspected that this value belongs to the adjacent sample containing 4 per cent pyrrhotite and pyrite and minor arsenopyrite. Of course, values below 0.03 oz. per ton gold, although anomalous, are not ore grade.

CONCLUSIONS AND RECOMMENDATIONS

The range of gold values detected in the diamond drilling reflect the comparitive low values encountered by the overburden drilling. Moreover the relationship of gold values to arsenopyrite mineralization and other sulphides is typical of the area.

No values were found with the pyrized graphite, identified as the No. 3 vein. Old reports indicated the presence of high values in this area.

In view of concentration of drilling, low gold values, and narrow widths, no additional drilling is justified in the area drilled. Results from work planned on adjacent properties may warrant a review of the potential of the Aumo property and consideration of additional drilling. In the meantime no further work is proposed.

Respectfully submitted,

Timmins, Ontario,
May 4, 1988.

R.J. Bradshaw, P. Eng.
Geologist

LEGEND AND SYMBOLS

AUMO 1988 DIAMOND DRILLING PROGRAMME

VOLCANIC ROCKS

V5 Intermediate to mafic volcanics
V7 Mafic volcanic flows
V9 Felsic tuff
V11 Felsic pyroclastics
V12 Mafic pyroclastics

SEDIMENTARY ROCKS

S2 Arkose
S3 Greywacke
S4 Argillite
S5 Quartzite

IRON FORMATION

F2 Sulphide iron formation
F3 Magnetite iron formation

INTRUSIVE ROCKS

1D Granodiorite
2D Diorite
3D Diabase
3 Mafic intrusive
Fp Feldspar porphyry

FORMS OF ALTERATION

σ silicified
λ sericitized
η carbonatized

MINERALIZATION

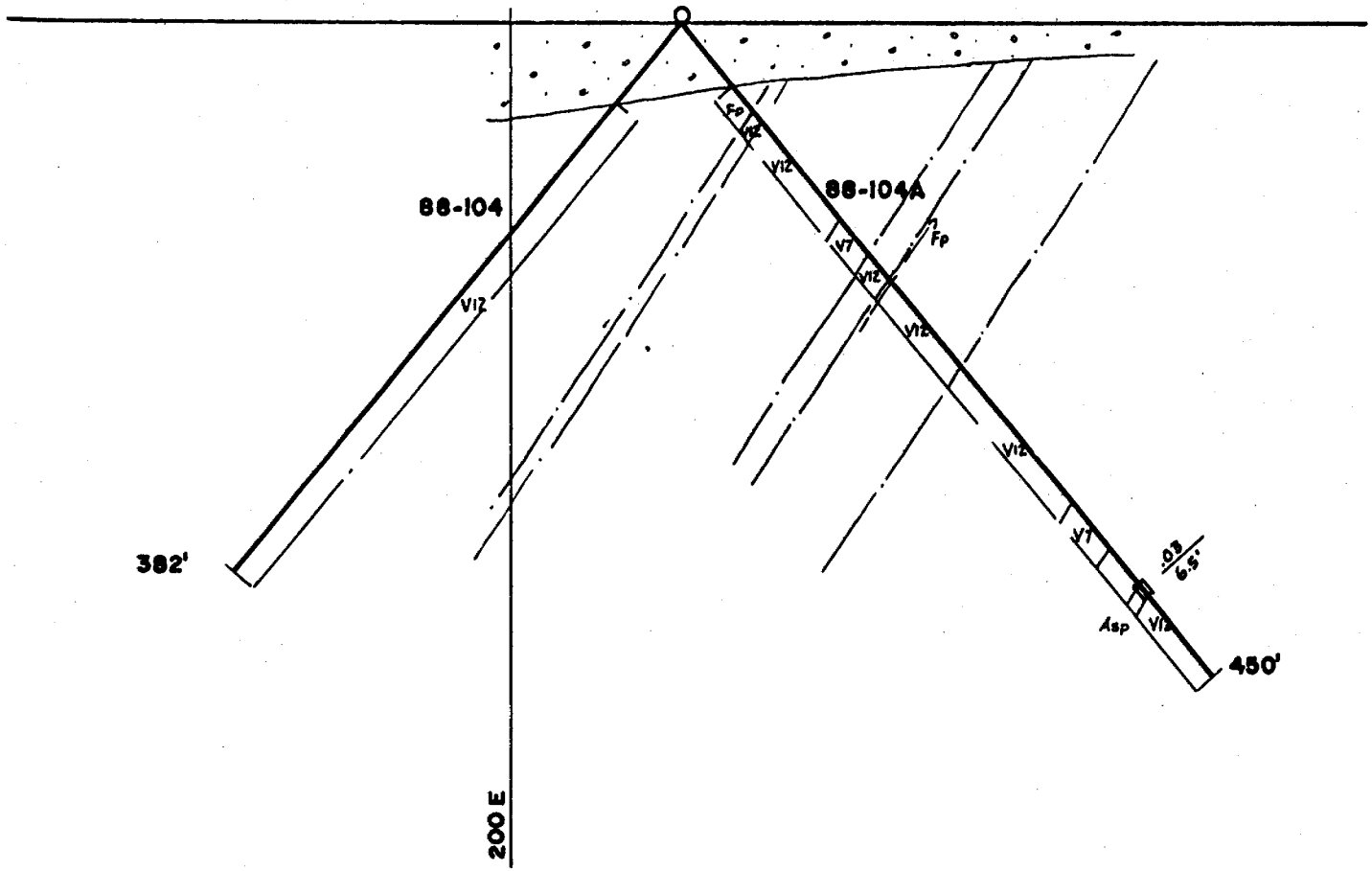
Asp *Arsenopyrite*
Cp Chalcopyrite
Py Pyrite
Po Pyrrhotite
Sp Sphalerite

METAMORPHIC ROCKS

M1 Schist
Gp Graphite

SYMBOLS

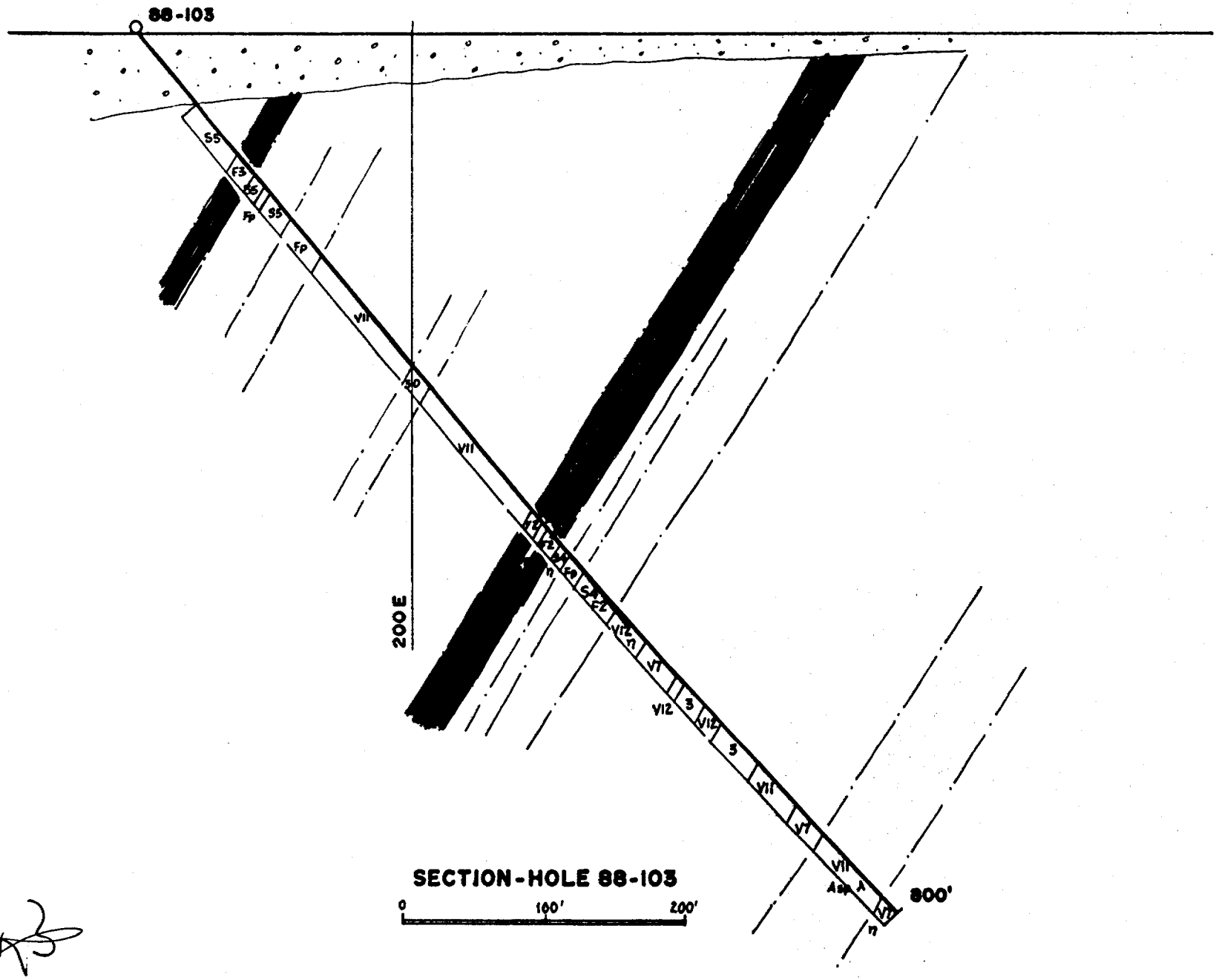
Overburden
VLF conductor
Axis of magnetic high
88-240 Overburden hole
88-104 0.2/5.0 Oz. per ton gold over width in feet



SECTION - HOLES 88-104, 104A

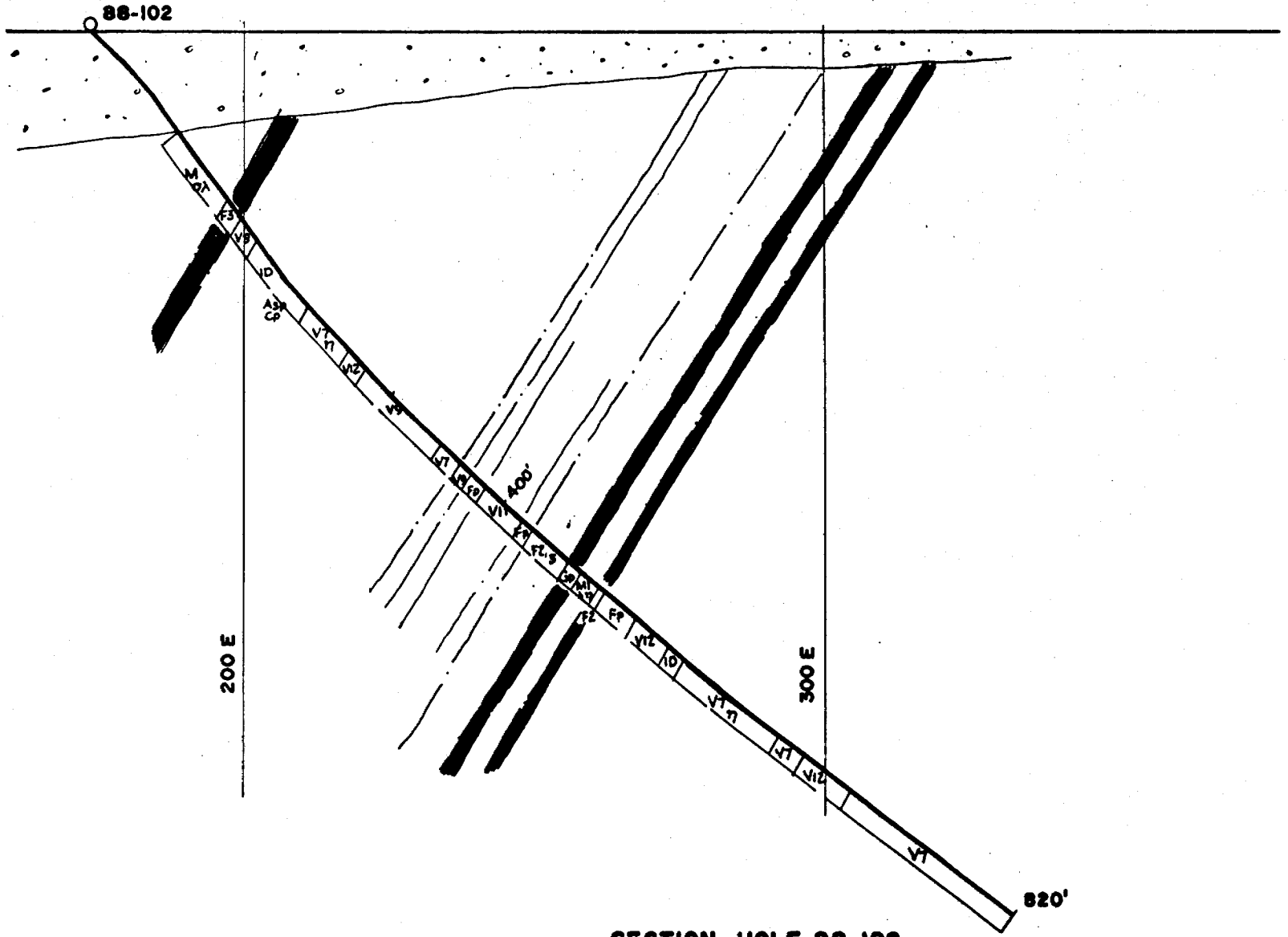
0 100' 200'

Figure 1



SECTION-HOLE 88-103

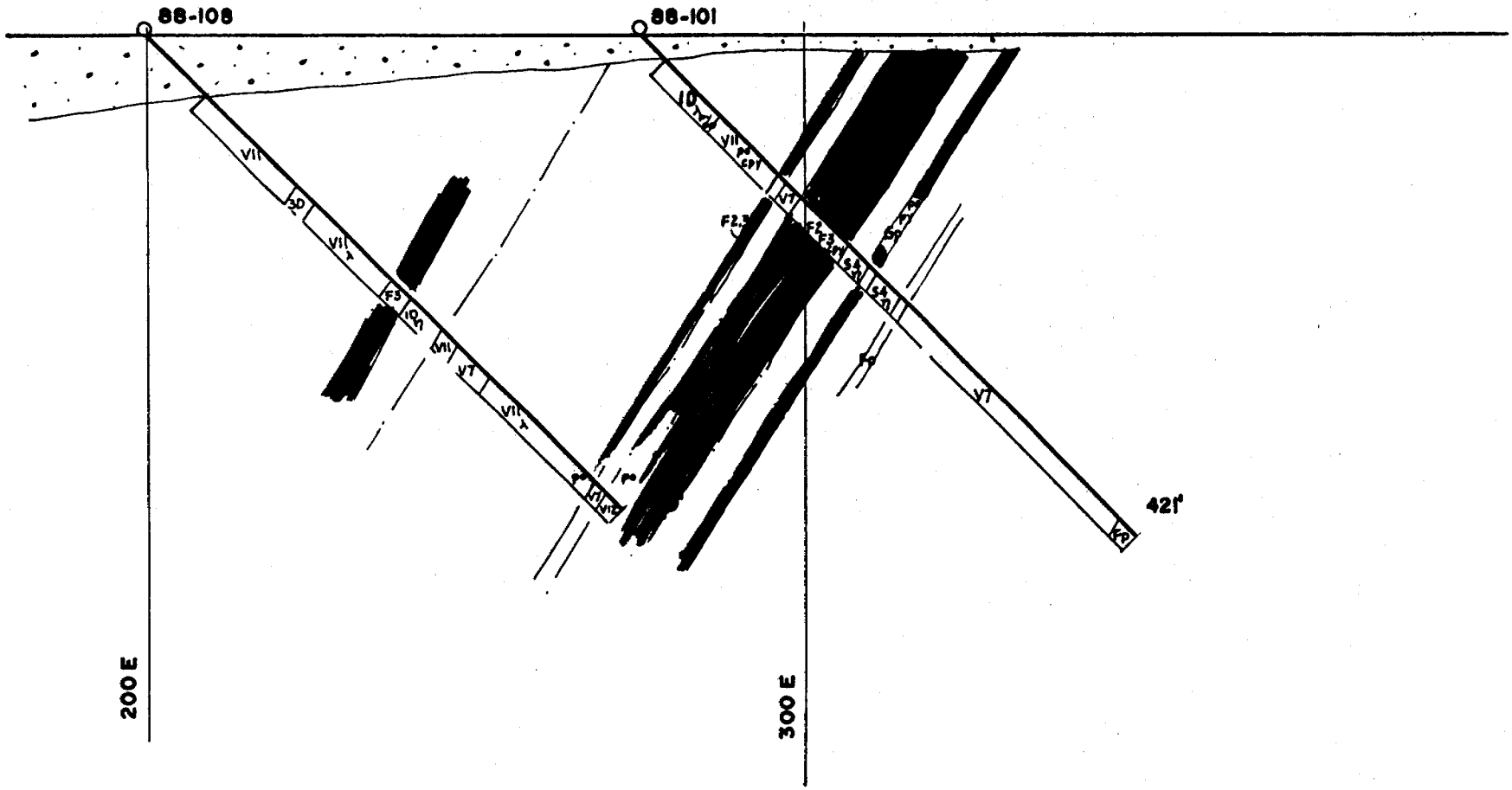
Figure 2



SECTION - HOLE 88-102

0 100' 200'

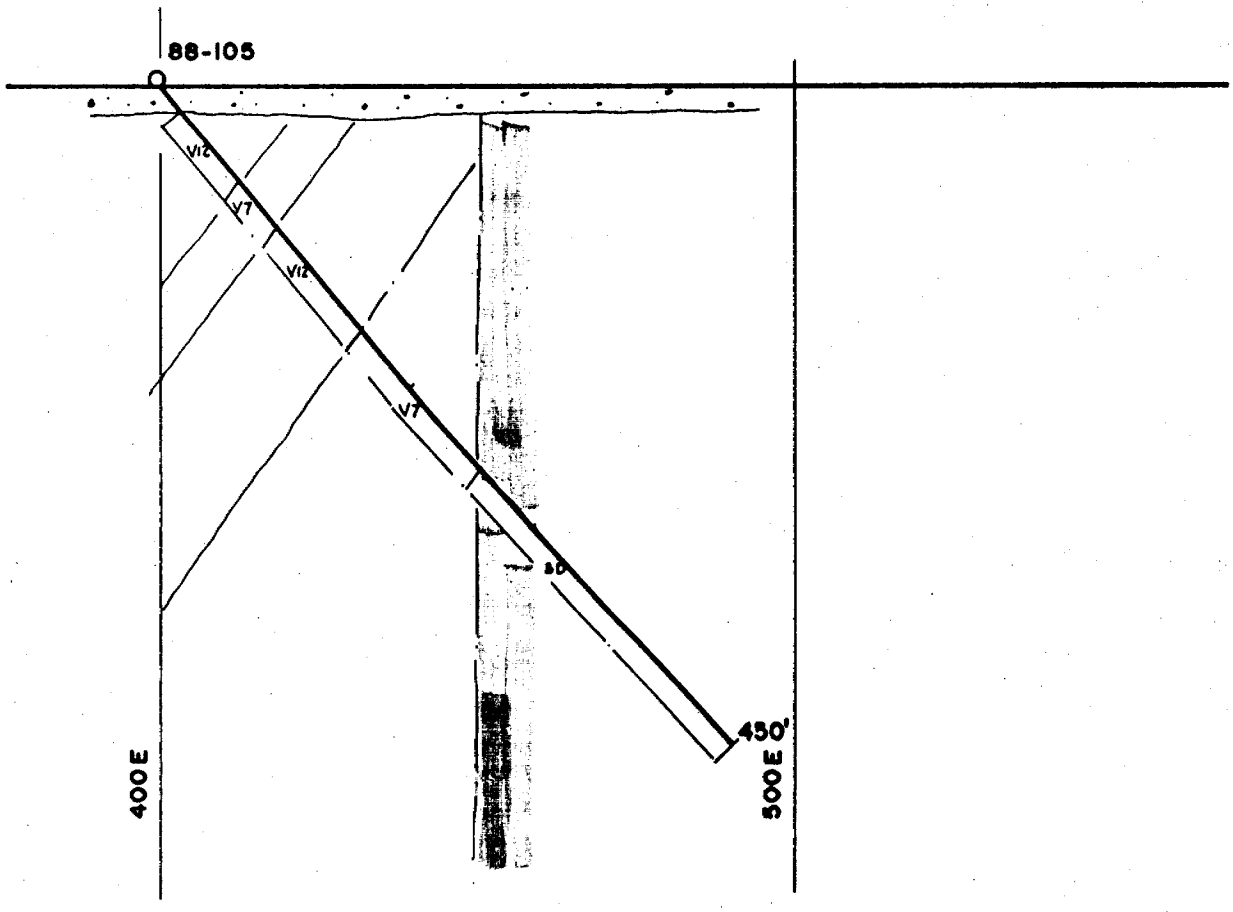
Figure 3



SECTION - HOLES 88-101, 108

0 100' 200'

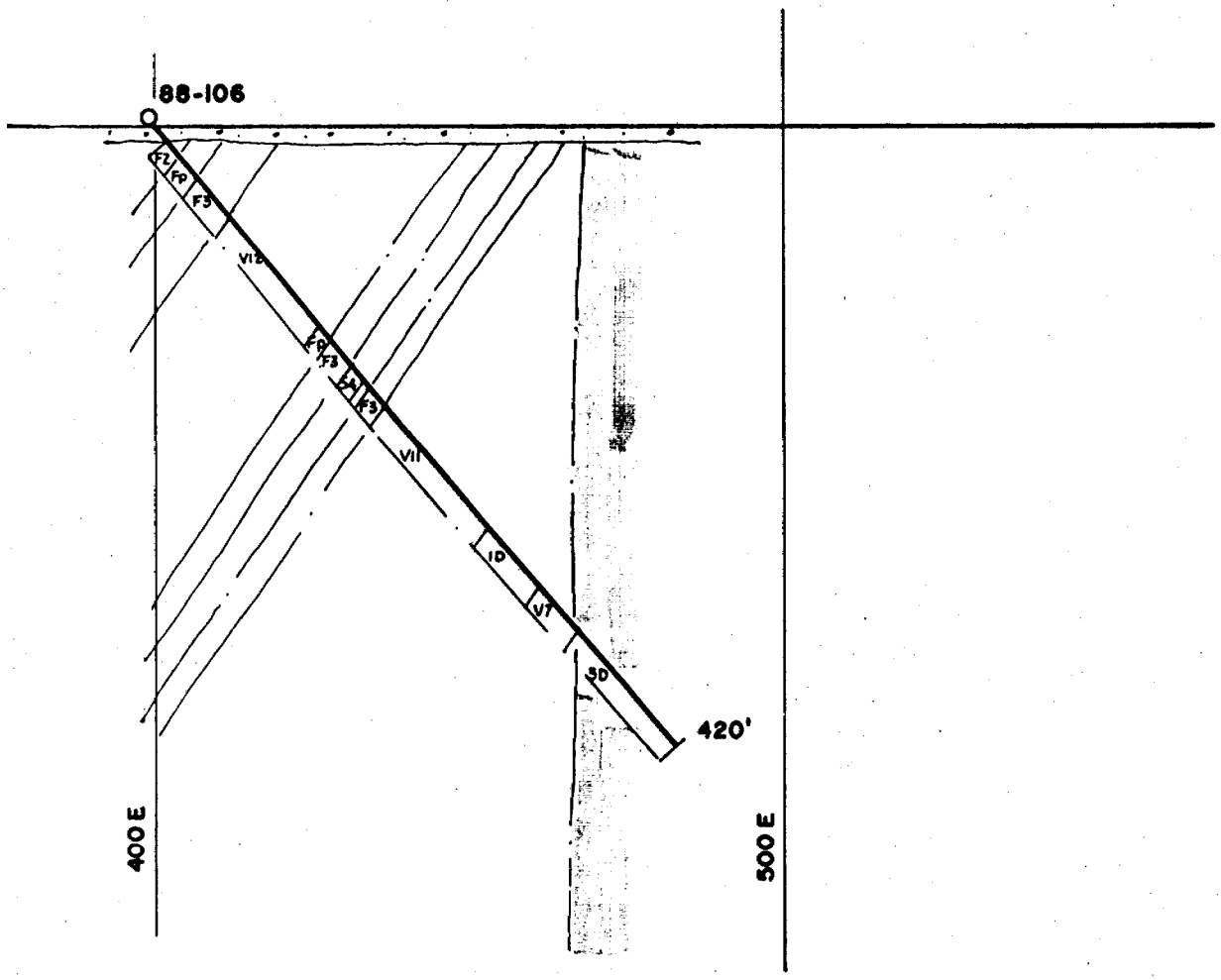
Figure 4



SECTION - HOLE 88-105

0 100' 200'

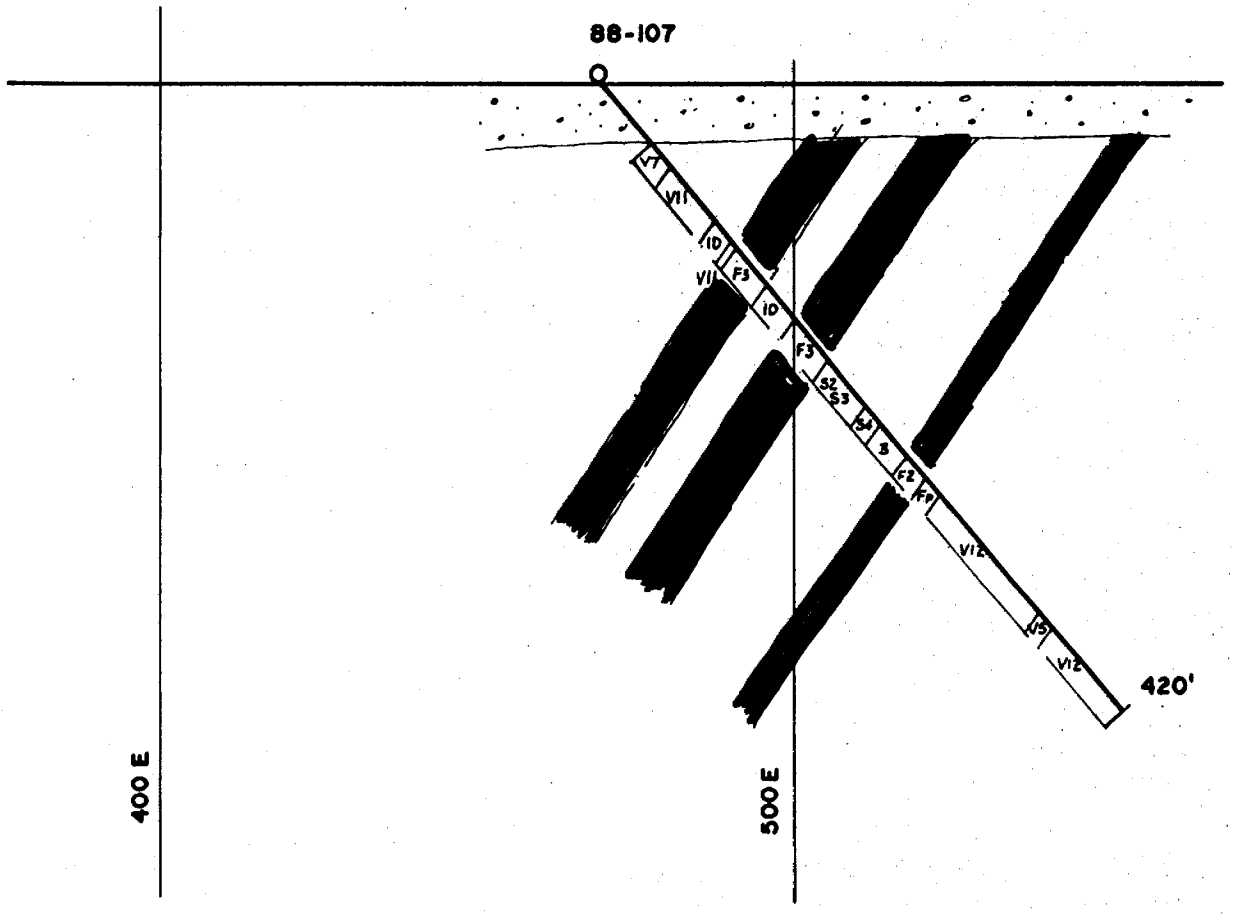
Figure 5



SECTION - HOLE 88-106

0 100' 200'

Figure 6



SECTION - HOLE 88-107

0 100' 200'

Figure 7

DIAMOND DRILL RECORD

PROPERTY Aumo Exploration Inc. HOLE NO. 88-101

TOWNSHIP Denton Tp. PAGE NO. 1

LOCATION 275E ; 650S
metric grid

CORE LOCATION property

DIRECTION Az 118°

DIP 45°

DEPTH 421'

STARTED March 17 1988

COMPLETED March 19

DIP TESTS 210 - 44°
420' - 44°

ELEVATION

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
0 - 20	Casing - overburden						
20 - 66	Granodiorite: medium grey, f/grained, hard, massive to foliated with zones of white feldspar phenocrysts, occasional seams of pyrite - pyrrhotite						
	initial 2' is schistose at 60°, sericitized & cream to grey colour						
	46.6 - flow structure at 60°						
	52 - sericite at 60°						
	54 - ½" patch of pyrrhotite (po)						
	57.5 - 1½" xenolith						
	58-66 fewer & smaller xenoliths, finer grained						
	66 - 1.5" qtz str at 0-40°						
66 - 115	Felsic Volcanic: grey to green, very hard except for chlorite sections, disuniform, f. to m. grained, composed of flow breccia & pyroclastics						
	initial 1.5' v.l.gr. & chloritic						
	74.5 1.5" of heavy pyrrhotite						

Drilled By Norex - Timmins

Signed
SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-101

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	83.5 1' vuggy white qtz vein						
	86.4 - 91.4 v.f.gr. massive green chloritic, mafic flow; contacts at 70°						
	91.4 - 115.0 tuff; numerous grey qtz. fragments, poorly defined foliation at 70°						
	108 - 113 2" po, sli cpy bearing qtz str at 45°; 4% po	1-1	5.0	8			
	113. - 115 15% pyrrhotite, sli cpy	1-2	2.0	10			
115 - 122	Iron Formation: banded chlorite, grey qtz, chert, pyrrhotite, some magnetite at 70-80°, po with some py may be irregular with sli chalcopyrite						
	115 - 120 10% po, minor py, sli cpy	1-3	5	11			
	120 - 122 6" irreg white qtz str, 6% po	1-4	2	7			
122 - 135	Mafic Volcanic Flow: med green, med-hard, v.f.gr. uniform, massive						
	128.5 - 130.0 70% qtz str at 75°, 3% po-py	1-5	1.5	16			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-101

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
135 - 174.4	Iron Formation: banded chlorite, magnetite, silica initially; deeper chert, sericite, pyrrhotite (po) at 75°						
	138 2" massive magnetite with dark green chloritic seabin						
	144-147 brown, fractured, vuggy limonite-stained w/k core						
	151-157 well banded, some secondary qtz, 4% po-py	1-6	6	43			
	157-162 banded chert, sericite, qtz. at 75°, 6% po-py	1-7	5	22			
	162-166 as above, 6" massive po, 3" qtz-carb-str. sli cpy	1-8	4	22			
	166-171.5 banded with 20% po-py; 4" cont. grey qtz str, sli cpy	1-9	5.5	32			
	171.5-174.4 1.2' cont qtz at 70°; 20% po-py, sli cpy @ 70°	1-10	2.9	5			
174.4 - 193.9	Carbonatized Argillite; light grey, v.f.gr. soft, fairly massive, well carbonatized (HCl ⇒ CO2)						
	176-185 gel-like texture suggests chemical sediment						
	191.4-193.9 3" qtz str @ 45° cont. to bedding	1-11	2.5	3			
193.9 - 199.5	Pyritic Graphite: carbonate, pyrrhotite, pyrite in graphite banded at 70°						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 80-101

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	193.9 - 200 15% po-py mostly in top half	1-12	6.1	41			
199.5 - 220	Carbonatized Argillite: med. grey, fairly massive, uniform, v very f.gr; sericitic conf. seamings, clots of tourmaline?; 2% diss. or seamed po-py						
220 - 226.3	Feldspar Porphyry: grey green, med. hard, massive, fine gr matrix with abundant feldspar phenocrysts up to 1/8", poorly defined flow structure at 30-45° adjacent to contacts, phenocrysts show no change in size						
226.3 - 406.7	Mafic Volcanic Flows: grey green, med. hard, massive fine to med. grained with felt-like texture in places						
	228.5 1" qtz stg. @ 50°						
	243. 3" qtz - epidote						
	279 - 281 irreg qtz - tourm vein, coarse tourm. with sli sericite, chlorite; minor grains & clots of py & po	1-13	3	4			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-101

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
	288 1" qtz str @ 40°						
	291.5 thin po seaming						
	292-293 chlorite seaming						
	313 flow contact at 50°						
	320.8 2" calcite str @ 20°						
	330 1.5' coarse barren qtz-calcite-tourmaline @ ± 45°						
	334-341 at 50° - coarse barren irreg. qtz-calcite-chlorite-tourmaline						
	341.5 - 2" qtz-chlorite str @ 50°						
	342. - 4" " " " @ 40°						
	346.6 - 347.8 coarse qtz-carbonate strs at 30-40°						
	351.5 - 360. v.f.gr banded @ 75° sli. carbonatized tuff unit gradational with more mass. rock above & below						
	360 - 406? sli carbonatized, occ. banded at 75°						
	363 - 1" qtz str.						
	387.5 - 2" barren qtz-carb. str @ 50°						
	394.5 - 395.2 feldspar porphyry as above including xenolith						
	395.2 more banded						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-101

TOWNSHIP ..... PAGE NO. 6

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
406.7 - 421	Feldspar Porphyry: abundant white feldspar phenocrysts in feldspathic f. to m. grained matrix @ 70°, intrusion is cont. to 70-80° with some zoning, some clots & seams of po-cpy						
	410.7 - 414.4 poorly banded grey-cream inclusion? texture suggests pyroclastic; 4" qtz-sulphide vein at 70° includes 20% po-cpy; 2% po-cpy in remaining section; vein is like the occurrences to N in granodiorite	1-14	3.7	2			
421	END						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY Aumo Exploration Inc. HOLE NO. 88-102

TOWNSHIP Denton Tp. PAGE NO. 1

LOCATION 6+50 South
1+74 East metric

CORE LOCATION Mallette Road

DIRECTION Az 118°

DIP 45°

DEPTH 820'

STARTED March 19, 1988

COMPLETED March 25

DIP TESTS 86' - 54°
410' - 42°
820' - 38.5°

ELEVATION

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb		
0 - 86	Casing - overburden					
86 - 137.8	Quartz Sericite Schist: grey-white, very hard, v.f. gr. schistose at 50°-70° with some mafic inclusions, ghosted lapilli & quartz eyes suggest derived from felsic pyroclastics.					
	96 - 100 grey-green, soft, sericitic schist					
	101 - 106 core ground					
	100 - 111 feldspar porphyry					
137.8 - 151.	Iron Formation: dark green to black, med. hard v.f. gr, banded chlorite, magnetite, & quartz, bottom contact gradational					
	142.7 - 146. 30% conf. qtz stks @ 60°, 2% pyrrhotite	2-1	3.3	B		
151. - 171	Felsic Tuff: grey-white, very hard, quartz eyes, fractured, colour zoned at 60-70°					
171 - 221	Granodiorite: grey, medium hard, v.f. to f. grained; colour is gradational as is contact zone;			-		

Drilled By Norex Drilling Ltd.

Signed
SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-102

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	presence of obscure fragments, zones of feldspar phenocrysts alternate with sericitic zones at 60°; weakly carbonatized						
	176. - 179.3 2-7" conf. qtz veins with tourmaline & sericite at contacts, sli sulphides	2-2	3.3	2			
	179.3 - 182.5 no mineralization	2-3	3.2	15			
	182.5 - 186.0 schistose & sericitic at 70°; 1" qtz - arsenopyrite str at 70°, ¼" seam of po, few chls dgpy	2-4	3.5	157			
	186. - 191. porphyritic, sericitized, 1% po-py	2-5	5	21			
	191 - 196 slightly fractured & sericitized	2-6	5	3			
	196 - 201 2" po seaming; few qtz filled fractures	2-7	5	4			
	200 - 217 feldspar phenocrysts throughout						
221 - 260	Carbonatized Mafic Volcanic: grey-green, soft, v.f. grained, massive with inclusions of semi porphyritic granodiorite; contact gradational						
	224 - 230.5 granodiorite						
	253.5 - 260. "						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-102

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
260 - 276	Mafic Tuff: grey-green, f. to m. grained, soft, with foliation at 60°						
276 - 343	Felsic Tuff: grey-green, f. to m. grained, hard, with foliation at 60-70°, similar to granodiorite except for more uniform foliation & smaller porphyroblasts, occasional angular lapilli; sli po-py 311 - 313.5 mafic volcanic 321 - 3" chloritic bomb 324.5 becoming fine grained						
343 - 361.4	Mafic Volcanic Flows: green, v.f. to f.gr. med. hard, massive, uniform & grades to mat-like texture; contact marked by qtz str at 50°						
361.4 - 370.4	Felsic Tuff: as above, contact sharp at 70°						
370.4 - 384.	Feldspar Porphyry: good white phenocrysts up to ¼" in grey f.gr. feldspathic matrix 376. - 378.8 1.5° volcanic incl. with 5% po-py	2-8	2.8	253			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO: 88-102

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
384 - 416.4	Felsic Pyroclastic: dark grey, hard, v.f. to f. grained, poorly defined banding at 50-70°; some large lapilli-like structures, 1% diss po-py						
	401.5 1" fragment						
	403. 5" bomb						
	411 - 416.4 v.f. gr. mass. mafic flow						
416.4 - 424.	Feldspar Porphyry: as above						
424 - 454	Iron Formation: initially chloritic & tuffaceous, then with seaming of pyrrhotite & magnetite, silica increases from 436						
	426 - 431 5% po seaming & pyrite crystals in chloritic zone	2-9	5	4			
	431 - 436 3% po-py as above; banding at 60°	2-10	5	3			
	436 - 441 5% po, py, magnetite with irreg. grey qtz in initial 2°	2-11	5	3			
	438.5 - 440 tuffaceous						
	441 - 446 5% po-py with irreg grey qtz	2-12	5	7			
	446.5 - 451 felsic tuff section						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-102

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	431 - 454 4% po-py	2-13	3	4			
454 - 465.9	Pyritic Graphite: black banded graphite at 70-75° with much po-py seaming						
	454 - 459 10% po-py seaming, 10% conf. qtz-carb seaming	2-14	5	86			
	459 - 464 10% po-py minor cpy seaming at 75°	2-15	5	55			
	464 - 466 as above & 8" conformable qtz v. with clots of po	2-16	2	21			
465.9 - 481.	Sericite Carbonate Schist: grey-green, soft carbonatized & schistose at 75°						
	471.2 - 476 1" qtz carb str at 80° with disseminated po, py, sphalerite; 2% po in carbonate seaming	2-17	4.8	43			
481 - 486	Iron Formation: sharp contact with chert at 80°; alternating chert, po-py seams, 2 - 6" qtz carb veins @ 50-80°; 15% sulphides	2-18	5.0	4			
486 - 511.5	Feldspar Porphyry: as above & conformable						
	491.5 - 495.8 mafic tuff						
	500 - 505 few scattered phenocrysts						
	507 - 508 " " "						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-102

TOWNSHIP ..... PAGE NO. 6

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
511.5 - 539.0	Mafic Tuff: grey, v.f. to f. gr. med. hard, foliation marked by colour, elongated grains at 75						
	516 - v.f. gr. & massive - perhaps flows						
	511.5 - 514.4 3% po-py as seams & grains	2-19	2.9	1			
	521 — 10" irreg. qtz-carb						
	528.5 - 6" irreg. qtz-carb, minor po						
	537.5 - 7" granodiorite						
539 - 552	Granodiorite: dark grey, hard, f to m. grained, massive, sericitized & carbonatized; sharp contact at 70°						
	540.5 - 546. 4% diss. pyrrhotite - pyrite	2-20	5.5	1			
	546. - 551.5 1% diss pyrrhotite	2-21	5.5	5			
552 - 630.5	Carbonatized Mafic Volcanic Flows: green, medium hard, f to m. grained with mat-like texture, massive, feathery calcite diss; contact is sharp with chlorite & calcite						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-102

TOWNSHIP ..... PAGE NO. 7

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	554 -6" qtz calcite						
	575-581.7 2-2", 3-1" qtz-carb stks @ 50°; 3% py-apy	2-22	6.7	30			
	581.7-586. 3-2", qtz stks @ 70°, sli sulphides	2-23	4.3	4			
	586.-591 35% qtz-carb stks, sli sulphides	2-24	5.	3			
	591-596 100% banded white qtz, some calcite	2-25	5	3			
	596-601 80% " 4 " " " ,	2-26	5	2			
	balance is chlorite						
630.5 - 652.3	Mafic Volcanics: green to cream, soft to hard, v.f.-gr. includes chert beds, bombs, possible pillows, slightly carbonatized, 1% pyrrhotite						
	632 - 2" cream to brown chert @ 45°						
652.3 - 689.	Mafic Tuff: grey-green, soft, schistose at 75°						
	660-669 mafic flow with some qtz & calcite veining; becoming coarse deeper; tuff interbedded with agglomerate						
689 - 820	Mafic Volcanic Flows: green, med. hard, v.f. gr, massive without structure						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-102

TOWNSHIP ..... PAGE NO. 6

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	707 – 2" qtz-carb stx at 50°						
	743 – 766 displays a granular texture; tiny dark						
	wisps in a grey v.f.gr. matrix are						
	alligned at 80°; may represent tuff unit, obscure contacts						
	806 – 807.4 2" of chert & carbonaceous rock with	2-27	1.4	168			
	crystalline pyrite at 80°; interruption of						
	volcanism?						
820	End.						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY Aumo Exploration Inc. HOLE NO. 88-103

TOWNSHIP Denton Township, Ontario PAGE NO. 1

LOCATION 7+00 S
1+47 E
metric

CORE LOCATION Hallette Road.

DIRECTION Az. 118°

DIP 50°

DEPTH 800'

STARTED March 26, 1988

COMPLETED March 28.

DIP TESTS 74' - 50°
400' - 48.5°
800' - 46°

ELEVATION

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
0 - 66	Casing - overburden						
66 - 75	Chlorite, Quartz Schist: soft, green, highly broken & fragmented						
75 - 107.5	Quartzite: very hard, cream, v.f. to f. grained & banded (bedded) at 50°; sericitic partings coincides with bedding; initially dirty & fractured then more uniform and lighter coloured						
	80.3 - 81.3 chlorite schist						
	82. - 82.6 limonite after pyrite, muddy, sericitic & vuggy at 50°						
	87 - 88.5 broken & chloritic						
	92 - 93.0 chloritic & vuggy						
107.5 - 124.7	Iron Formation: dark; alternating quartz, cherty, chlorite, magnetite bands at 60°						
	117 - 118 3% po diss.						
	119 - 124.7 highly siliceous, some secondary carbonate, 5% po	3-1	5.7	12			
124.7 - 136.7	Quartzite: hard, f. to m. grained, cream coloured; sericite marks bedding at 65°; sharp contact at 70°						

Drilled By Norex, Timmins

Signed

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-103

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
136.7 - 142.	Feldspar Porphyry: white feldspar phenocrysts up to ¼" in dark grey feldspathic matrix; sharp contact @ 65°						
142 - 165.	Quartzite: as above but darker (dirty), more feldspathic much less uniform; includes larger fragments & felsic stringers; bedding at 45-60°; upper contact sharp at 40°; lower contact obscure						
	159.8 - 161 minor undefined soft metallic	3-2	1.2	7			
	161 - 165 displays ghosted porphyroblasts						
165 - 199.5	Feldspar Porphyry: as above						
	173.4 - 176.5 3" irreg. qtz str with clasts of pp	3-3	3.1	11			
	176 - 199.5 fewer and smaller phenocrysts & some schistose sections are lacking phenocrysts; hybrid zone of intrusive and wallrock						
199.5 - 296.4	Felsic Pyroclastic: grey green, hard, variable texture includes, tuff, agglomerate & flow breccia; bedding - foliation at ≈65°; zones of rounded						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-89

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-103

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	ovoid cream or green fragments in part recrystallized; initial 2' is green, fsd, v.f.gr lacking primary structure - felsic intrusive?; bomb-like structures up to 7" may be green or grey chert						
	257-259 feldspar porphyry with sharp contacts @ 45°						
296.4 - 315.0	Mafic Volcanic Flow or Diabase: green, medium hard, v.f to m. grained, massive & lacking structure; initially v.f. gr then coarser grained, contacts at 70°; conformable						
315. - 425.6	Felsic Pyroclastic: as above but darker & more chloritic						
	379.5 - 8° of v.f.gr chlorite & clay mineral at 50° with 5% po-py						
	381 - 421 mainly tuff						
	416 - 421 9% pyrrhotite, some pyrite, slicpy in chlorite	3-4	5	27			
	421 - 425.6 4", 2-1" qtz. stks in feldspar porphyry	3-5	4.6	10			
	425 muddy fractures at 90°						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-103

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb		
425.6 - 433.9	Iron Formation: interbedded chert with qtz fragments, chlorite, minor qtz stks & pyrrhotite					
	425.6 - 433.9 20% pyrrhotite, sli pyrite, chalcopyrite on cont. seams.	3-6	8.3	18		
433.9 - 439.5	Contorted Graphitic Argillite: black, with folding marked by carbonate, pyrrhotite, pyrite					
	433.9 - 439.5	3-7	5.6	47 ~ → fold		
439.5 - 455.8	Iron Formation: mainly silica & pyrrhotite at 70°					
	439.5 - 444.0 20% po, sli py, cpy	3-8	4.5	16		
	444 - 450. Carbonatized mafic intrusive					
	450 - 455 3" massive po & some seams, folding at 70°, some angular qtz inclusions up to 1"	3-9	5.	27		
455.8 - 466.3	Carbonatized Argillite or Mafic Volcanic: grey green, f. gr. massive to schistose at 50°					
466.3 - 481.5	Feldspar Porphyry: unlike previous porphyry in that phenocrysts are densely packed & ghosted; sli py diss; contacts at 45 & 65° apparently conformable					

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-103

TOWNSHIP ..... PAGE NO. 5

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	471-476 less than 1% dis pyrite	3-10	5	16			
481.5 - 514	Argillite & Iron Formation: grey green, soft, foliation marked by weak shearing & mineral differentiation, carbonatized						
	486 - 488.5 bedded chert, chlorite, qtz						
	487 - 488.5 5% po-py	3-11	1.5	63			
	488.5-489.5 felsic porphyry						
	492. - 495.7 mainly I.F., 5% po-py with chlorite-chert	3-12	3.7	264			
	495.7 - 499.7 25% grey conf. qtz stks, 2% po-py	3-13	4.0	23			
	499.7 schistose and mineralized						
	503. 1" gouge, carbonate marking shear-fault						
	506 - 514 some chert & zones of black hard oxides - tourmaline?						
514 - 545.5	Carbonatized Mafic Pyroclastic: dark green, med. hard, f. gr; zones of chloritic bombs, lapilli, ash; becoming coarser at depth						
	535.8 - 538.8 25% irreg. white qtz; 2% clots of po-py	3-14	3.0	3			
	538.8 - 541.3 barren	3-15	2.5	5			

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-103

TOWNSHIP ..... PAGE NO. 6

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	541.3 - 546.3 few irreg. fractures filled with qtz, clots of po-py	3-16	5	4			
545.5 - 575.	Mafic Volcanic: v.f. gr. light green, hard, slightly carbonatized, perhaps pillowed						
	559.5 - 564.5 25% irreg fracture filling qtz-carb, 4% po-py, sl. cpy as clots	3-17	5	10			
575 - 582	Mafic Tuff: green, f. gr. hard, bedding at 60° with some po-py & calcite seaming; slightly carbonatized						
582 - 604.2	Mafic Intrusive: light grey-green, f. to m. grained, hard, massive, uniform, mat-like texture with irreg. upper contact, slightly carbonatized						
	594.5 7" boxwork white qtz v. at 50°						
604.2 - 621	Mafic Volcanic Tuff: light grey-green, hard, v.f. to f. grained, in part massive, elsewhere banded at 70°						
	605.5 - 608.0 feldspar porphyry; 1"-2" qtz-carb stks at upper and lower contacts						
	608 - 610.2 mafic intrusive						
	614 - 621 well defined coarse grained tuff						
621 - 659.5	Mafic Intrusive: as above; sharp upper contact at 70°						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-103

TOWNSHIP ..... PAGE NO. 7

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	647.2 -5" irreg. qtz-carbonate						
659.5 - 698.	Felsic Pyroclastic: v.f.gr, hard, colour variable from dark green to cream (chert) which form margins of bombs & tuff with lapilli, bedding at 65°						
698 - 726.6	Mafic Volcanic Flow or Intrusive: grey green, med. hard, v.f. to f gr massive, uniform without structures. 726.6 chilled irreg. contact against xenolith of felsic volcanic						
726.6 - 786.	Felsic Pyroclastic: includes tuff and agglomerate as above						
	726.6 - 735.5 f grained banded tuff						
	735.5 - mainly agglomerate & more mafic						
	746-751 2-2", 3" qtz. stks with clots of po-py, stringy py	3-18	5	5			
	751-756 5" banded qtz v. at 70°, 10% seamed po-py	3-19	5	133			
	2.5' sericitized section contains biss. py, stringy py						
	769-774 mafic altered volcanic						
786 - 800.	Carbonatized Volcanic Flow: dark green, soft, f. gr, weakly carbonatized, fairly massive except for shearing cont. to 2" qtz-chlorite stk at 799; 1-2% diss crystalline pyrite						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-103

TOWNSHIP ..... PAGE NO. 8

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
800	End						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY Aumo Exploration Inc. HOLE NO. BB-104

TOWNSHIP Denton Tp. Ontario PAGE NO. 1

LOCATION 8+00 S
2+25 E

CORE LOCATION Mallette road

DIRECTION Az. 298°

DIP 50°

DEPTH 382'

STARTED March 30

COMPLETED March 31, 1988

DIP TESTS 225' - 50°

ELEVATION

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
0 - 55	Casing - overburden						
55 - 382	Intermediate to Mafic Pyroclastic: initially light grey then dark green, f. gr. hard; initially irreg. texture and structure marked by cream coloured chert in and around lapilli; at 71 becomes more massive with fine lapilli & porphyroblasts showing foliation at 30-40°						
	55-60.5 6% po-py as irreg. clots & seams	4-1	5	7			
	66-71 2% py-po in irreg. fractures; in first 3 vuggy cavities conf. to bedding	4-2	5	4			
	71-76 2% py as crystals & seams	4-3	5	8			
	101.5 few chloritic fragments						
	102 - becoming coarser gr. with dark green & cream ovoids having obscure 40° foliation						
	127-130 5% po-py seaming assoc. with chloritic zone	4-4	3.	8			
	131 fracture, foliation contact @ 40°						
	134-136 f. gr. dyke rock at 20°						
	136-149 quasi porphyritic texture; perhaps a form of granitization						

Drilled By Noyes - Timmins

Signed

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 83-104

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	148 - 153 chlorite-carbonate section with 5% po-py	4-5	5	18			
	161.3 - 167 3% pyrrhotite-pyrite as seams & clots	4-6	5.7	4			
	167 - 174.5 3% po-py in chlorite-carbonate section	4-7	7.5	4			
	181 v.f.gr unit above abuts against c.gr unit below at 35°, tops down hole?						
	185.5 as above except contacts offset by fault						
	202.5 - 13" & 2" of v.f.g dark brown massive diabasic rock with dis. py						
	358-382 finer grained with quasi-porphyritic texture						
382	End.						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY Ammo Exploration Inc. HOLE NO. 88-104A

TOWNSHIP Denton Township, Ontario PAGE NO. 1

LOCATION 8+00 S
2+25 E
metric grid

CORE LOCATION Mallette road.

DIRECTION Az 118°

DIP -50°

DEPTH 450'

STARTED March 31, 1988

COMPLETED April 1

DIP TESTS 225'-50°
450'-48°

ELEVATION

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
0 - 45	Casing - overburden						
45 - 61.4	Feldspar Porphyry: grey-green, med to c.gr. hard, closely packed white feldspar phenocrysts in a green matrix, lower contact at 65°						
61.4 - 69.0	Intermediate to Mafic Pyroclastic: grey-green, hard tuffaceous sections mixed with large bombs all stretched at about 65° to c.a.						
	64-69. seamed heavy po-py at 65° at bottom; elsewhere 2% diss. pyrite	4A-1	S.	5			
69. - 136.5	Mafic Tuff: grey green, hard, f. to m.gr.; lapilli and ash foliated at 65°						
	84 - 2" qtz str. at 40° in massive unfoliated rock						
	96-98.7 sericitic, schistose at 55°, 4-1" conf. qtz stgs, sli. sulf.	4A-2	2.7	22			
	98.7-102.7 cont. qtz. v. with 15% po-py, sli cpy, aspy; 4" at bottom is secondary qtz with some rugs	4A-3	4.	64			
	102.7-107.7 5% seams of po-py in buff green sericitic rock	4A-4	S.	5			
	sericitization continues to 114'						
	116 - po-py seaming over 3" at 75°						

Drilled By Norex, Timmins

Signed

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88 - 104A

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	120.9 - 122.8 15% po-py	4A-5	1.9	10			
	122.8 - 128.0 local concentrations of po-py						
136.5 - 160.2	Matic Volcanic Flows: grey-green, v.f.gr. hard, massive, nonfoliated						
	159.5 - 8" cont. quartz, calcite, chlorite						
160.2 - 177.5	Matic Tuff: dark grey-green, f. gr. hard, foliated at 70°, calcite seaming, few crystals of pyrite						
177.5 - 179.7	Feldspar Porphyry: as above						
179.7 - 237.5	Matic Tuff & Agglomerate: green, hard, v.f to c.gr. initially massive like flows above except obscure v.f.gr foliation, then more c.gr. with stretched lapilli and bombs at 65°						
	184.5 - 189.5 25% irreg. qtz-calcite-chlorite veining	4A-6	5	7			
	192. - 1" qtz-calcite str at 70°						
	193 - 2" qtz-calcite chlorite str at 55°						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-4A

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	209 - 216 open vuggy fractures mostly cont to bedding planes						
	226 - 232 scattered irreg. black tourmaline? clots up to 1"						
237.5 - 331	Mafic Volcanic Tuff, Agglomerate & Flow: grey-green,						
	v.f. to c.gr, hard; initially massive v.f. gr; perhaps						
	flow or uniform tuff in contact with agglomerate						
	above; occasional bombs in otherwise massive						
	uniform flow-like volcanic.						
	245.5 - 246.6 rusty cavity						
	254 - 256 core ground						
	256 - 262 irreg. qtz - calcite in chlorite	4A-7	6	5			
	263 - 264 " " "						
	276 - 70° bedding foliation						
	296 - 331 tuff & agglomerate						
	306 - 307 70% cont. qtz - calcite						
	329.5 few tourmaline clots over 5"						
331 - 362.7	Mafic Volcanic flow or Sill: grey-green, f. to c. gr						
	hard, massive with coarse ghosted felt-like texture;						
	occasional 1"-2" sections of chlorite suggests pillows or flows,						
	slightly carbonatized						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88 - 4A

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
362.7 - 450.	Mafic Tuff and Agglomerate: grey-green, v.f. to m. gr hard, bedded at 75°; v.f. gr tuff beds contain cherty lapilli up to 2"; variably carbonatized with calcite seaming						
	366 - 367 3" clot of po-py	4A-8	1	10			
	382 - 387.5 25% irreg. qtz-calcite; 2% crystalline py	4A-9	5.5	67			
	387.5-394.0 fairly uniform chloritic tuff, 2% po-py	4A-10	6.5	960			
	394. - 396. 4% py, po, aspy assoc. with 1" qtz str at 50°	4A-11	2.0	217			
	396 - 399 2% py-po	4A-12	3.0	43			
	411 - 6" qtz. calcite at 40°						
	413 - 450 dark green chloritized, epidotized and carbonatized with carbonate forming small crystals & blebs; foliation or cleavage at 50°						
	416 - 421 3" qtz-calcite at 45°, 4% py-po	4A-13	5	21			
	421 - 426 3% py-po	4A-14	5	32			
	447 3" qtz-calcite str at 65°						
450	END						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY Humo Exploration Inc. HOLE NO. 88-105

TOWNSHIP Denton Tp. Ontario PAGE NO. 1

LOCATION 6+00 S
4+00 E

CORE LOCATION Mallette Road

DIRECTION Az 090°

DIP 50°

DEPTH 450'

STARTED April 5, 1988

COMPLETED April 6

DIP TESTS 225° - 48°
450' - 46°

ELEVATION

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
0 - 16	Casing - overburden						
16 - 62	Intermediate to Mafic Pyroclastic: grey-green,						
	basal agglomerate; cream white chert may form						
	stretched fragments, thin beds or stringers in chloritic						
	matrix; scattered clots of pyrrhotite						
	52.5-54. barren white quartz, chlorite vein						
	59. - 6" " " " " "						
	61. bedding cleavage at 45°						
	60.5-64. well bedded chert & tuff						
64 - 93.5	Mafic Volcanic flow: grey-green, basal, v.l. gr						
	massive without primary structure						
	79.2-84.6 15% irreg. qtz. carb stks having buff bleached	5-1	5.4	2			
	contact zones & clots of po; few amygdules						
	84.6-87.2 barren white qtz v. little po at contacts	5-2	2.6	4			
	87.2-92.2 10% cont qtz stks; 2% po-py in sericitic	5-3	5.	14			
	section of agglomerate						
93.5 -	Intermediate to Mafic Agglomerate: as above						
	92.2-97.2 scattered clots & seams of po in agglom	5-4	5	3			

Drilled By Norex, Timmins

Signed

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-105

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	97.2 - 103.7 4% scattered dots & veins of po	5-5	6.5	3			
	103.7 - 106.6 mafic flows? without structure						
	115 - 122 mafic flows? without structure except for local bedding plane						
	131.5 - 139. bedding marked by occ. white clasty materia(at 60°						
	152.4 rounded & stretched lapilli up to 1.5" (3mm) in light grey tuff bedded at 65°						
	143. - 144.2 5" slightly carbonaceous well pyritized shear at 50°	5-6	1.2	7			
144 - 256.3	Mafic Volcanic: dark green, hard, v.f. gr; sharp contact at 75° against chert bed; composed of brecciated flows, pillows, bombs, tuff						
	176 - 178 few scattered tourmaline? clots						
	193.5 " " " " assoc. with chloritic fractures						
	194. rock is generally massive (flow)						
256.3 - 450.	Diabase: dark green, hard, med. gr, massive except at start where cleavage parallels contact at 30°						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-105

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	366-367.5 4-6% carb stks from 1" to 4" wide at 50°, slight sulphides	5-7	1.5	4			
	438.3-441.5 v.f. gr. green mafic volcanic inclusion						
450	End.						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY Aumo Exploration Inc. HOLE NO. 88-106

TOWNSHIP Denton Township, Ontario PAGE NO. 1

LOCATION 5100S
4+00E

CORE LOCATION Hebbette Road

DIRECTION Az 090°

DIP 50°

DEPTH 420'

STARTED April 6

COMPLETED April 7, 1988

DIP TESTS 210' - 49°
420' - 49°

ELEVATION

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
0 - 11	Casing - overburden						
11 - 21	Iron Formation: white to dark green, hard to soft, chlorite bands alternate with grey to cream coloured chert at 70°; py-po seaming with calcite is common						
	11-16 5% py-po as contorted seam with chlorite	6-1	5	5			
	16-21 5% py-po " " " " "	6-2	5	12			
21 - 35	Feldspar Porphyry: grey, hard, scattered white feldspar phenocrysts in grey matrix						
	21-26 3-2" qtz stks, sli sulphides	6-3	5	4			
	26-31 20% irreg qtz, 1% py-po; last bit schistose & sericitized	6-4	5	4			
	31-36 schistose, sericitized, slight sulphides	6-5	5	3			
35 - 62	Iron Formation: mainly dark green chlorite with magnetite banded with hard, grey, siliceous beds at 50-60°						
62 - 136.7	Mafic Tuff: light grey-green, hard to soft, v.f gr banding - bedding at 50° initially; several cherty beds then becomes softer						

Drilled By Norex, Timmins

Signed
SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 82-106

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	84.7 clots of black tourmaline? assoc. with epidote						
	87. - 4" qtz-calcite, chlorite vein						
	86-98 soft, massive, chloritic with very obscure bedding/cleavage						
	91.2 - 6" qtz, calcite, chlorite vein at 40°						
	101 gouge & qtz str over 2" marks shear fault						
	105 - 136.7 uniform texture & lack of bleaching structures suggests argillaceous sediment; cleavage at 40°						
	129.5 7" qtz-chlorite vein						
136.7 - 144.	Sheared Feldspar Porphyry: grey, soft, mod. qz. phenocrysts & feldspar phenocrysts are aligned at 50° Cont. with contacts & adj. bedding						
144. - 161	Iron Formation: as above but more magnetite						
	159 - 160.8 10% pyrite with calcite seaming at 60°	6-6	1.8	26			
	162 & 162.8 chloritic gouge along bedding planes						
161 - 170.8	Mafic Tuff or Argillite: grey-green, soft, f.gr. with cont. calcite seaming at 60-65°						
	167 - 168.6 sheared felsic intrusive?						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-106

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
170.8 - 176.2	Sheared felsic Intrusive: grey, hard, f. to m. gr. obscure cleavage at 65°						
	170.8 - 175.8 2% diss. po-py	6-7	5	23			
176.2 - 189.	Iron Formation: alternating dark green chlorite grey qtz, seams of po, some magnetite						
	186 - 189 3% po-py stringers	6-8	5	15			
189 - 271.6	Felsic Pyroclastic: grey, hard, variable texture; initially scattered lapilli in a chloritic tuff matrix to 213; then well packed stretched but angular bombs of chert & matic material foliated at about 60°; with depth lapilli fewer & smaller						
	230 - 232 dark f. gr diabase						
	267.3 - 272.3 3% veined & clotted po-py	6-9	5	4			
271.6 - 312.0	Granodiorite: grey-green, v. f. to f. gr. hard, generally massive except for foliation of sericite at 65°; some apparent inclusions						
	272 - 6" inclusions of pyroclastic wkt						
	286 - 288 inclusions of altered wkt						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-106

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	290 muddy shears at 60° over 5"						
	290.5 - 293.5 aphanitic, grey siliceous inclusion with some tourmaline						
	293.5 - 1/4" muddy shear at 50°						
	312. bottom contact is sharp at 50°, v.f.gr.						
312 - 343	Intermediate to Mafic Volcanic: grey green, hard, f.gr., fairly massive & uniform except for occ. shears, bombs, flow tops of cream chert; may include pillows						
343 - 420	Diabase: dark green, f. to m. gr, hard, massive, granular						
	351 - 3" barren white qtz stk						
	361 - 366 black, v.f. gr strongly magnetic dyke with sharp contacts at 35°						
	382 1.5' barren white qtz vein						
	389.5 - 391. 80% white qtz v. at 45° with clots of Po, Py, Sil. chl	6-10	1.5	22			
	393 - 4" irreg. white barren qtz calcite						
	398 - 4 white qtz - calcite v. at 45°						
	401.3 1" qtz stk at 45°						
420	END						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY Aumo Exploration Inc. HOLE NO. 88-107

TOWNSHIP Denton Township, Ontario PAGE NO. 1

LOCATION 3+50 S
4+70 E

CORE LOCATION Hallecle Lead.

DIRECTION Az 118°

DIP 50°

DEPTH 420'

STARTED April 8

COMPLETED April 10, 1988

DIP TESTS 210' - 50.5°
420' - 48.5°

ELEVATION

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
0 - 40	Casing - overburden						
40 - 55.5	Mafic Volcanic: v.f. gr. grey green, soft, massive rock						
	40 - 40.7 felsic pyroclastic						
	51 - 54 black v.f. gr mafic intrusive with contact parallelling core axis						
55.5 - 91	felsic Pyroclastic: cream to green, hard to soft, composed mostly of large cream coloured felsic bombs in a chloritic matrix, occ. large clots of py-py in chlorite						
91 - 104.5	Mafic Intrusive: black, v.f. gr. soft, massive 2-3% fine diss. pyrite, strongly carbonatized.						
	91-96 2-3% diss pyrite	7-1	5	4			
	100-101 fractured & broken felsic pyroclastic						
104.5 - 107.5	felsic Pyroclastic:						

Drilled By

Signed

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. BB-107

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
107.5 - 132.6	Iron Formation: interbanded black magnetite, grey qtz & green chlorite at 50°, slight sulphides						
	114-116 core ground						
	121-126.5 feldspar porphyry apparently conf. at 60°						
132.6 - 157.2	Intermediate Intrusive: grey green, v.f. to f.gr., hard & massive; without structure except for very obscure foliation at 45°; sharp contacts at 50-60°						
	153 seam and bits of black tourmaline						
157.2 - 182.8	Iron Formation: as above						
	177.7-181.2 9" heavy po-py, sli cpy	7-2	3.5	34			
182.8 - 213.0	Greywacke - Arkose: f to m.gr. light grey, soft to hard, massive; mineral foliation & schistosity at 50-60° becomes better defined deeper						
	205-206 pyritized graphitic argillite @ 60°						
	206-213 arkosic, sericitized, weak schistosity at 60°						
213 - 226	Argillite: black, with seaming of po-py, calcite at 65°						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-107

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	211-216 4% po-py mainly in black argillite	7-3	5	11			
	216-221 7% po-py	7-4	5	19			
	221-226 10% po-py	7-5	5	29			
226 - 246.5	Mafic Intrusive: grey-green, f. to m. gr. soft, massive, except for obscure ghosted porphyroblasts of darker mineral alligned at 60°, upper contact gradational & v.f. gr. over several inches; bottom contact sharp at 45° abutting po						
246.5 - 261.	Iron Formation: interbedded quartz, chert, pyrrhotite-pyrite at 65°						
	246-251 20% po-py seaming	7-6	5	22			
	251-256 12% po-py local aggy with white qtz	7-7	5	775			
261 - 273	Feldspar Porphyry: scattered feldspar phenocrysts in dark grey fine gr. matrix; contacts at 63°						
273 - 353	Mafic Pyroclastic: cream to dark green, hard to soft, variable texture; composed of bombs, lapilli, pillows?, breccia?;						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-107

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
	chloritized, carbonatized & epidotized, patchy po-py						
	276 - 281 3% po-py; alternately strongly silicified & chloritized	7-8	5	8			
	308 - 310.5 qtz, calcite, chlorite vein at 50°; few bits of pyrite	7-9	2.5	4			
	324.5 3" qtz-calcite str at 50°						
353 - 363	Mafic to Intermediate Tuff: f. to m. gr. soft to hard,						
	green to grey, massive except for obscure bedding planes,						
	and sericitized foliation						
	356 - 361 includes distinctive grey bed with 4% dis.	7-10	5	5			
	po-py; sharp contacts at 70°						
363 - 420.	Mafic Pyroclastic: as above except smaller sized						
	ejecta; initially f. gr. & banded at 70°; deeper ejecta become						
	coarser						
	377.5 - 384.3 feldspar porphyry, phenocrysts and contacts						
	at 75° poorly defined						
	384.3 includes bands & pillows:						
420	END						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY Aumo Exploration Inc. HOLE NO. 88-108

TOWNSHIP Denton Tp. Ontario PAGE NO. 1

LOCATION 6+00 S
2+00 E

CORE LOCATION Mallette road
DIRECTION Az 118°
DIP 45°
DEPTH 400'

STARTED April 11
COMPLETED April 12. 1988
DIP TESTS 200' - 45°
400' - 41°

ELEVATION

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
0 - 50	Casing - overburden						
50 - 125.5	Felsic Lapilli Tuff: light grey, very hard, initially v.f. gr. well banded at 65°; deeper med to coarse gr., more massive.						
	50.5 - 51.4 dark coloured						
	57 - 61 weathered, oxidized, broken feldspar porphyry at 65°						
	61 - 110.5 coarse grained						
	81.2 - 82.0 grey sericitic, v.f. gr. soft dyke rock						
	101 sericitic over 4"						
	110.5 - 111.5 v.f. gr. darker						
	111.5 - 112.5 mafic crumbled, vuggy						
	112.5 - 116. v.f. gr. dark grey, felsic						
	116 - 118 barren white qtz - chlorite vein						
	118 - 125.5 light to dark grey, variable texture, banded at 70°						
125.5 - 141.4	Diabase or Mafic Dyke: grey-green, v.f. to f. gr. with scattered porphyroblasts of epidote; chilled subcontact						

Drilled By Norex - Timmins

Signed
SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-108

TOWNSHIP ..... PAGE NO. 2

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE				
141.4 - 206	Felsic lapilli Tuff & Agglomerate: as above, v.c. grained with stretched & sericitized fragments						
	159 - 2" chert at 70° followed by 5" chloritic green v.f. gr. rock then 3" of banded chert or tuff						
	160-163 grey feldspar porphyry						
	163 fragments become larger with depth						
206 - 222.6	Iron Formation: dark green chloritic bands alternate with yellow brecciated chert bands & deeper magnetite						
	205 - 3" irreg white qtz						
	219 - dominantly black magnetite						
222.6 - 247.5	Granodiorite: dark grey, hard, f. gr. with widely scattered faded phenocrysts; carbonatized, HCl → CO2, upper contact at 45°						
	236.6 - 239.6 felsic agglomerate xenolith encloses 1' length of feldspar porphyry which indicates granodiorite younger than feldspar porphyry; little po-py in agglomerate						

Drilled By Norex: Timmins

Signed .....
SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-69

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-108

TOWNSHIP ..... PAGE NO. 3

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
	242, 243.7 2" qtz stks						
247.5 - 260.8	Felsic Agglomerate: as above						
	256.4 - 4" irregular qtz-carb str.						
260.8 - 287	Matic Volcanic flows & pillows: dark green, v.f. to f.gr, hard, massive, except for sharp textural changes suggesting flow or pillow; gab-like flow structure						
287 - 376	Granitized felsic Pyroclastic: light to dark green, variable texture, hard banded at 70°; fragments are stretched at 70° & partially assimilated, scattered porphyroblasts, weakly sericitized, some manganese						
	301-305 dark grey feldspar porphyry; irreg upper contact						
	290-296 2" cont. qtz str adjacent to 2" of heavy sulphides, sericitic apartings at 60°	B-1	6	56			
	352 6" irreg qtz-calcite						
	369 pyrrhotite seaming						
	366 becoming more matic						
376 - 386.5	Matic Volcanic: as above						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-80

DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 88-108

TOWNSHIP ..... PAGE NO. 4

LOCATION ..... CORE LOCATION ..... STARTED .....

..... DIRECTION ..... COMPLETED .....

..... DIP ..... DIP TESTS .....

ELEVATION ..... DEPTH ....

DEPTH FEET/METRES	FORMATION - MINERALIZATION	SAMPLE NO.	WIDTH OF SAMPLE	Au ppb			
386.5 – 400	Mafic Lapilli Tuff: dark green, hard, variable texture, rounded lapilli up to 1"						
	386 - 389.5 sericitized, carbonatized, 1-2% po, aspy	B-2	3.5	331			
	389.5-393. 2% pyrrhotite	B-3	4.5	40			
	393. -398 5% seamed pyrrhotite, crystalline py, dispy	B-4	5.	5			
	394-393. feldspar porphyry						
400	END						

Drilled By .....

Signed .....

SHIELD GEOPHYSICS LIMITED

P.A.P. - 1-88

CARSCALLEN TWP.

DENTON TWP.

P.8751

P.10739

P17404

P 8775

P10740

P 17405

P 11153

P11152

P17406

MAGNETIC LAKE

No. 1 Vein

No. 5 Vein

No. 2 Vein

No. 4 Vein

No. 3 Vein

Hazelton No. 2

BRISTOL - PORCUPINE - DESTOR FAULT

HWY 101

POWER LINE

BL O

L2+00W L1+00W BL O L1+00E L2+00E L3+00E L4+00E L5+00E L6+00E L7+00E L8+00E

4+00N 3+00N 2+00N 1+00N 1+00S 2+00S 3+00S 4+00S 5+00S 6+00S 7+00S 8+00S

80-1 80-2 80-4 80-6 80-7 80-8 80-9 80-10 80-11 80-12 80-13 80-14 80-15 80-16 80-17 80-18 80-19 80-22 80-23 80-24 80-25 80-26

81-1 81-2 81-3 81-5 81-6 81-7 81-8 81-10 81-12

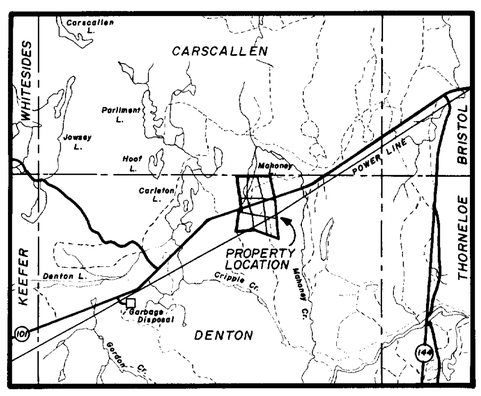
80-20 Rhyolite Mafic Tuff Andesite Lapilli Tuff Rhyolite Andesite

80-21 Rhyolite Andesite Andesite

Old D.D.H. -17°

Old D.D.H. -60°

88-1 88-2 88-3 88-4 88-5 88-6 88-7 88-8 88-9 88-10 88-11 88-12 88-13 88-14 88-15 88-16 88-17 88-18 88-19 88-20 88-21 88-22 88-23 88-24 88-25



KEY MAP

SCALE: 1:100,000

LEGEND

- Tonalite (Quartz Diorite)
- AUMO 1944 Drilling
- 1980-81 Drilling
- Proposed location of Overburden hole (COMPLETED)
- Fault, inferred
- V L F Conductor – After Geoex 1979 map
- Axis of Magnetic high – After Geoex 1979 map
- Anomalous sample - for details see text
- Proposed diamond drill hole 1988

OM87-5-C-266

63.5483

GEOLOGICAL COMPILATION

on the property of

AUMO EXPLORATIONS INC.

DENTON TOWNSHIP

SCALE

50 0 25 50 75 100 150

1:2500

October, 1986

R. J. Bradshaw

Figure 2