

Report on the Exploration of the Tomas Claims, Watson Lake Mining Division, Yukon Territory
Geological, geophysical and geochemical surveys and prospecting.

Brian Atkinson P.Geol.

December 12, 2019

Claims:

Name Grant Numbers

Tomas 1 YE85887

Tomas 2 YE85888

Tomas 3 YF50161

Tomas 4 YF50162

NTS 105/B01 1:50000

Registered claim holder: Brian Atkinson

Mining District: Watson Lake, Yukon

Author: Brian Atkinson P.Geo.

Date of Work: June 27 to July 7, 2018

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Introduction

The Tomas claims are located approximately 120 km west of the town of Watson Lake in the Watson Lake Mining Division. Access is via the Silver Tip Mine road off the Alaska Highway. The 4 quartz mining claims were originally staked in June 2016 and this report documents exploration work completed in the summer of 2018 with the objective of mineral discovery for gold and base metals. The visitation to my exposed mountain camp by a young curious grizzly bear prompted my hasty and premature departure on the morning of July 7th. Hence additional surveying remains to be completed in following years. I had previously worked north of the Alaska Highway at the start of my geological career with J.C. Stephen Explorations Ltd. (1977-1979) so I had some exposure and familiarity to the area geology.

Previous Work

Although much work has been carried out in the immediate area above the tree line, originating back in the 1940s and continuing intermittently since, no direct evidence of exploration on the Tomas claims was observed during the course of the present work. That earlier work has included prospecting, geological mapping, soil sampling, geophysical surveys, line cutting, bedrock trenching and diamond drilling. The previous work required construction of a bulldozed diamond drill exploration trail to the higher alpine terrain and the trail bisects the Tomas claim group.

Regional scale (1:250 000) geological mapping by the Geological Survey of Canada has detailed the regional geology of the area (Gordey and Makepeace 2001).

Data collection

For survey control, a north-south and an east-west cut line grid was established across the claim group with a baseline origin located at the intersection of the two control lines. This was located adjacent to claim post No 1 of the Tomas claim group, UTM coordinates 425417E, 6656976N. The cut lines measured approximately 1 m in width and spanned the breadth of the claim group for a total distance of approximately 6000 feet. Wooden pickets were erected at 25 m intervals on both lines as measured by hip chain and string and the stations pinpointed by global positioning (GPS). UTM coordinates for each station are listed in the attached Table 1 and the

stations provided the locale for both magnetic survey and geochemical sample collection. Because the claim group lies at the transition from tree line to open alpine, the nature of the bush made machette line cutting very difficult. Indeed, the near continuous buck brush necessitated labour intensive effort to establish the survey lines. And having squandered my youth in the pursuit of corporate greed, science and other young manly endeavours, the required effort was in short supply. Geological and prospecting traverses were completed in a reconnaissance fashion across the claims but due to thick alpine glacial till and talus, no bedrock outcrop was identified.

Soil sampling survey

A 500 gram sample of soil was collected at each station along the entire distance of the cut lines. This amounted to 81 samples in total. Each sample was obtained from the poorly developed B-horizon using a grub hoe to excavate a small hole to extract the sample and the hole subsequently back filled. Soil samples were collected into individual bags and labelled with a unique identification number. Sample depth seldom exceed 25 cm. Samples remained in my custody until delivery to Actlabs in Ancaster Ontario for analytical treatment. All samples were analyzed for gold using the lab's atomic absorption-fire assay method. This yielded gold results down to a detection limit of 5 ppb Au. Results are provided in Table 1 and assay certificates, invoice and documentation are appended to this report.

Geophysical Survey

Using a GFM Systems GSM -19TW proton magnetometer, serial # 2121241, magnetic readings were recorded at each picket station on 25 m spacing. Readings were recorded internally to the instrument and were also recorded in a notebook at the time of field data collection. A total of 85 stations were surveyed.

Because no base station magnetometer was available to record diurnal magnetic flux, the 0+00N picket station was used as a control point and repeatedly surveyed over the course of field data collection. As a further magnetic control, the cut lines were magnetically surveyed in both directions departing from the 0+00N control point and returning to it. Duplicate recordings were then averaged and corrected for diurnal variation. Those results and corrections are listed in Table 1.

Survey Results

Geological traverses and prospecting disclosed no available outcrop for mapping.

Soil sampling results

Analytical results from the laboratory indicate a range of gold values from below detection limit (i.e. <5 ppb) to a high of 715 ppb gold. Samples from number 1000 to 1034 all assayed 8 ppb Au or less, then sample 1035 yielded a strongly anomalous value of 715 ppb Au. Subsequent samples with 4 exceptions all yielded weakly anomalous values ranging from 12 to 22 ppb Au.

As a result, more detailed soil sampling and further exploration is warranted concentrating in the vicinity of sample 1035.

A soil sample submitted for X-ray diffraction analysis identified mineral abundances of 49.3% quartz, 47.3% illmenite, 2.3% garnet and 1.2% rutile. This composition reflects the granitic source of much of the till overburden that is dominated by the felsic intrusive boulders derived from the nearby Cassiar Batholith. Nearby local skarns are the most likely source of the garnet content. There appears to be a natural heavy mineral concentration effect to the till, probably due to natural glacial and periglacial actions.

Magnetic survey results

Survey results are not contoured because only two lines at right angles were established over the claim group. The data shows only minor variation across the claims and generally ranges around 56850 Nt. No meaningful interpretation can be deduced from the magnetic survey due to the limited amount of data.

Statement of Expenditures

Travel: Bright Ontario to Rancheria YK area and return 10800Km @ \$0.60/km = \$6480	
Geological day rate* \$750 X 11 days	8250
Geochemical analyses	2110.56
Groceries 11 days@ \$50/day	550
Magnetometer 2 days@ \$100/day	200
Total	\$17590.56

*Line cutting, soil sampling and magnetometer survey and prospecting included in day rate.

Statement of Qualifications

I, Brian Atkinson, P.Geo., with postal address at Bright, Ontario, do hereby certify that:

1. I am a consulting/contract geologist.
2. I graduated with an Hon.Bachelor (Geology/Phys. Geography), from McMaster University.

3. I am a Professional Geoscientist registered with the Association of Professional Geoscientists of Ontario.

4. I have worked as a geologist for 40 years.

5. I personally completed 11 days of line cutting, geological mapping, prospecting, soil sampling and magnetic surveys on the Tomas claim group, YK from June 27 to July 7, 2018

Dated this December 10, 2019

A handwritten signature in black ink that reads "Brian Atkinson". The signature is written in a cursive style with a prominent loop at the end of the last name.

Brian Atkinson P.Ge

References

Gordey, S.P. and Makepeace, A.J. (compilers) 2001. Bedrock Geology, Yukon Territory; Geological Survey of Canada, Open File 3754 and Exploration and Geological Services Division, Yukon Indian and Northern Affairs Canada, Open File 2001-1, scale 1:1000000.

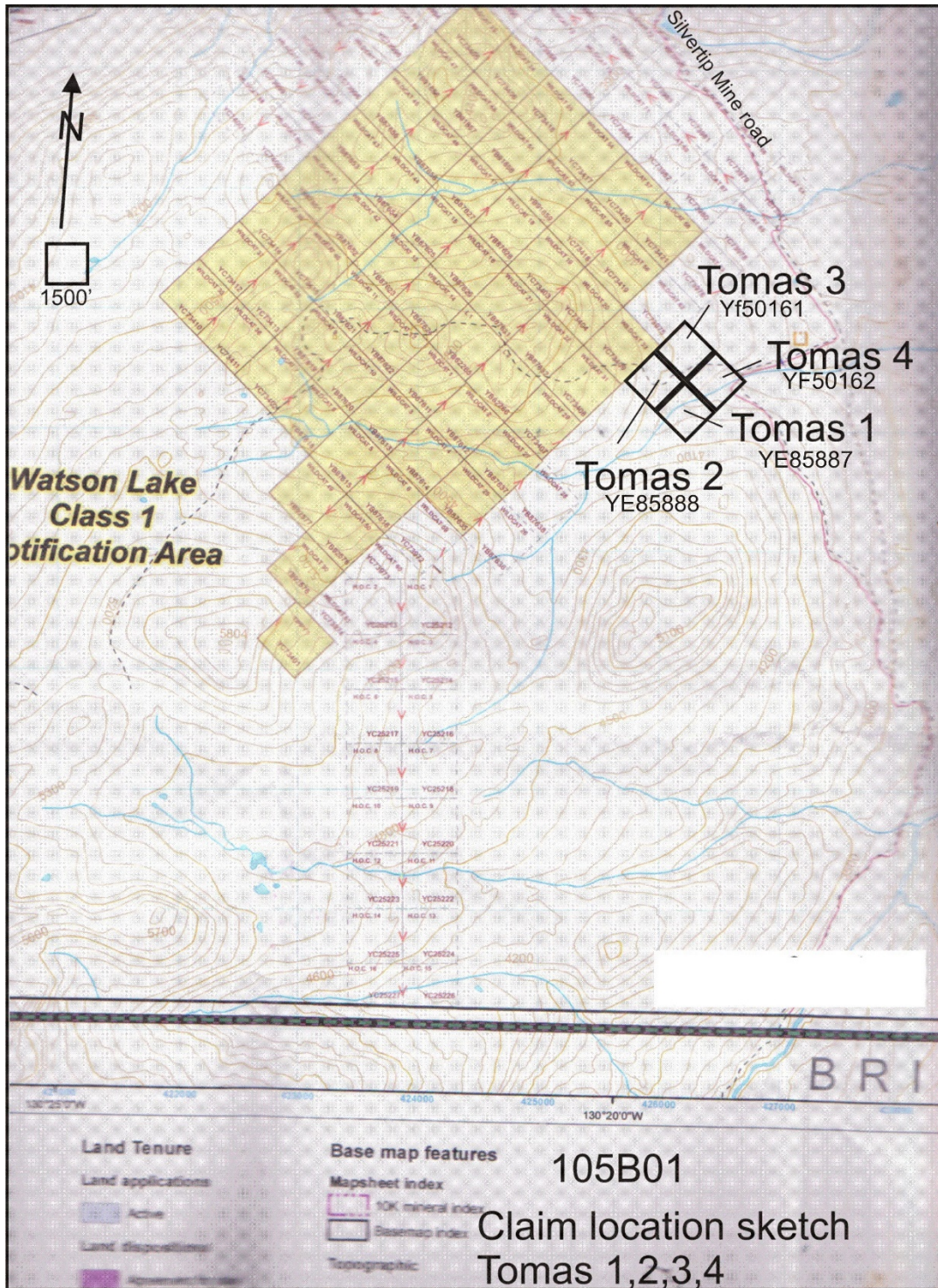


Figure 1. Claim location sketch, Tomas 1, YE85887, Tomas 2, YE85888, Tomas 3, YF 50161, Tomas 4, YF50162.

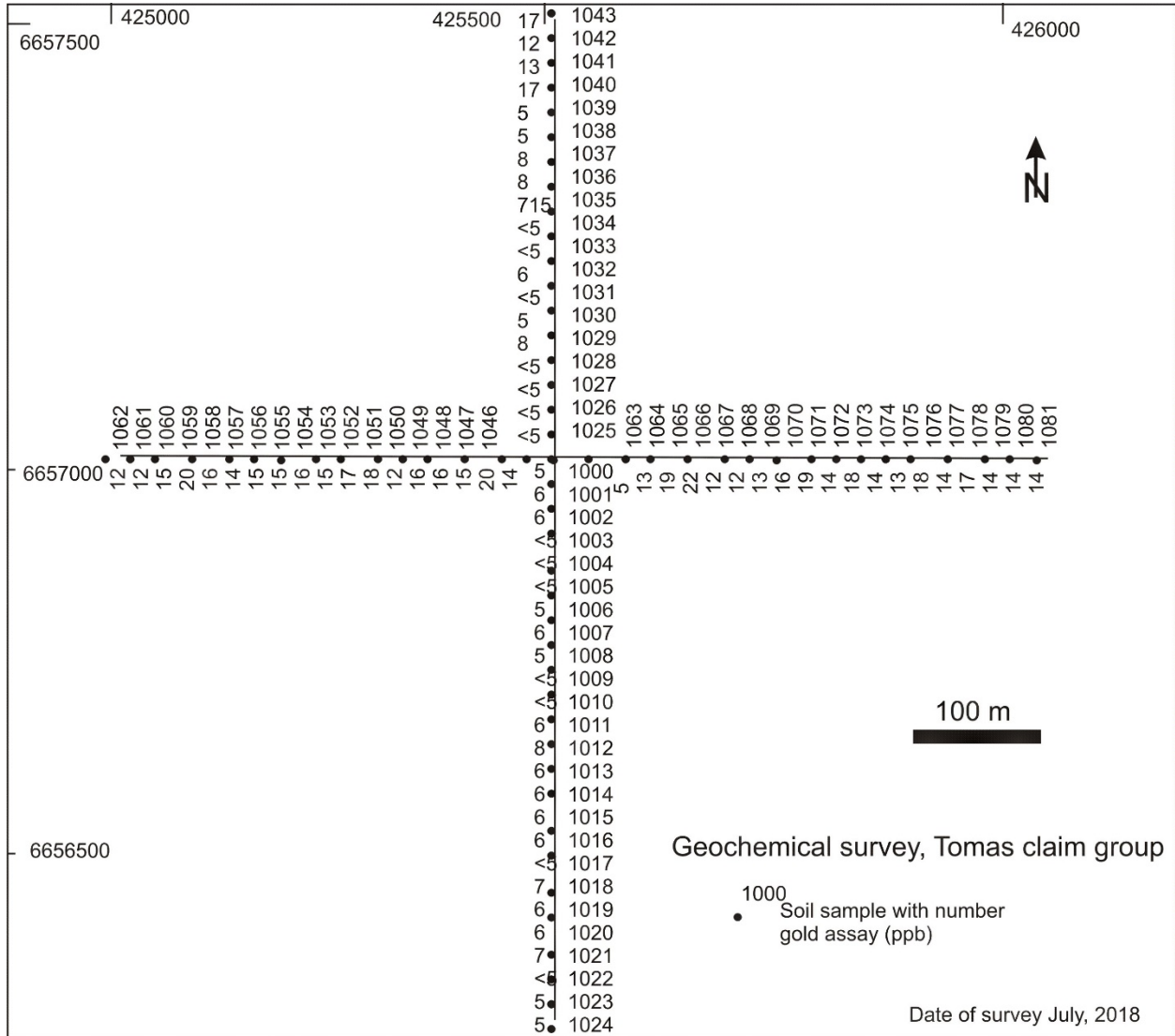


Figure 2. Tomas claim group geochemical sampling survey and results.

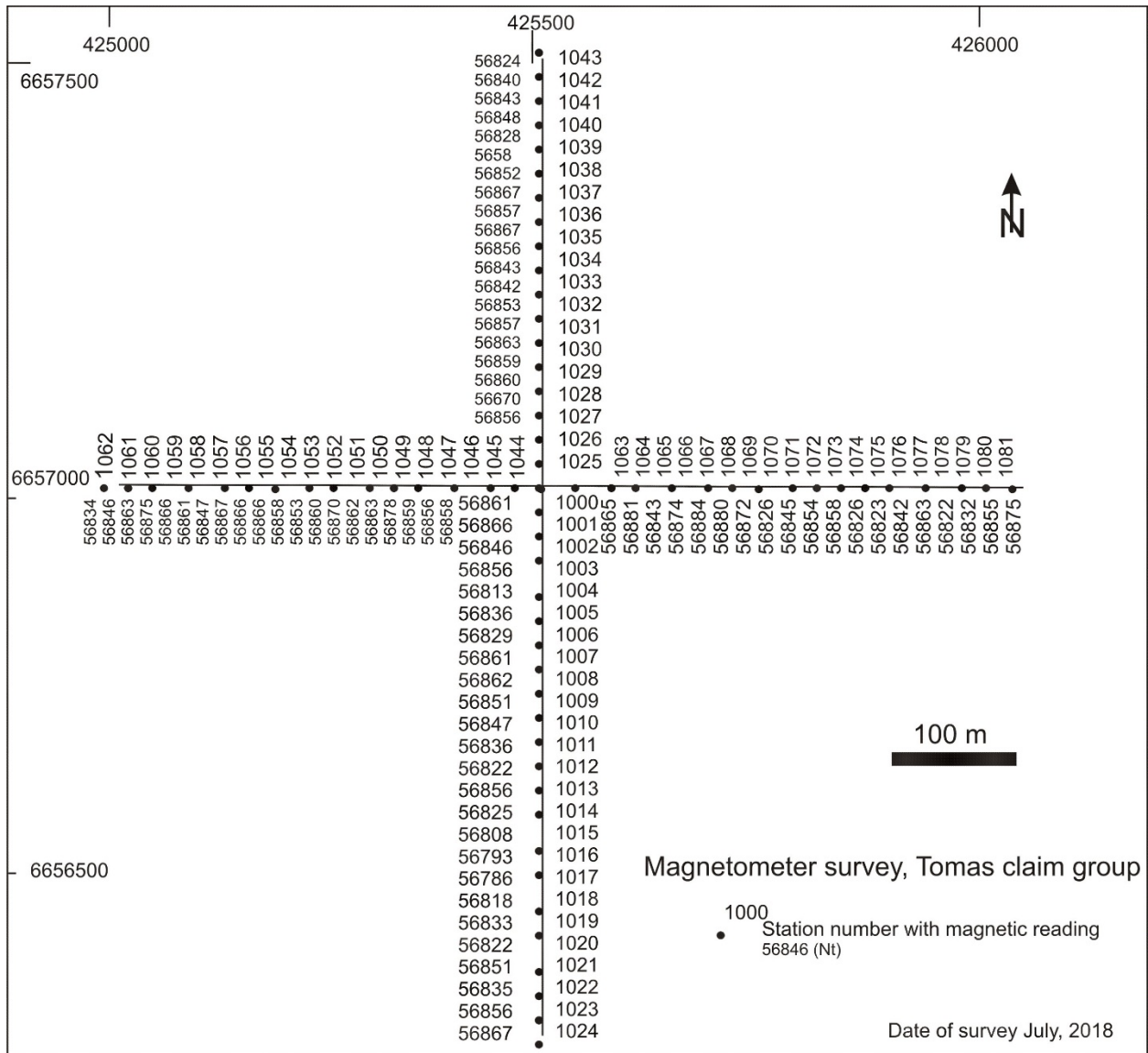


Figure 3. Tomas claim group magnetometer survey location and results.

Table 1. Sample location UTM coordinates in UTM NAD 83 datum, Zone 9 with magnetic survey data and gold in soil geochemical results.

Station Grid	Station #	UTM location		Elevation (m)	Magnetic reading		Diurnal correction	Gold assay (ppb)
		Easting	Northing		Reading south (Nt)	Reading north (Nt)		
North South Line								
0+00S	1000	425418	6656974	1252	56846.07	56850.64	2	5
0+25S	1001	425410	6656949	1250	56861.31	56866.97	3	6
0+50S	1002	425403	6656925	1249	56866.59	56867.06	0	6
0+75S	1003	425396	6656904	1245	56856.71	56857.89	0	<5
1+00S	1004	425390	6656879	1232	56813.01	56815.84	1	<5
1+25S	1005	425382	6656856	1230	56836.87	56840.64	2	<5
1+50S	1006	425374	6656834	1230	56829.94	56835.91	3	5
1+75S	1007	425367	6656810	1230	56861.56	56863.19	1	6
2+00S	1008	425360	6656784	1228	56862.63	56864.11	1	5
2+25S	1009	425353	6656759	1223	56851.37	56853.12	1	<5
2+50S	1010	425344	6656735	1217	56847	56848.13	0	<5
2+75S	1011	425336	6656710	1216	56836.94	56838.01	1	6
3+00S	1012	425330	6656687	1220	56822.75	56823.88	0	8
3+25S	1013	425322	6656662	1217	56856.43	56854.88	-1	6
3+50S	1014	425316	6656636	1217	56825.6	56826.09	0	6
3+75S	1015	425311	6656614	1218	56808.11	56809.03	0	6
4+00S	1016	425302	6656590	1218	56793.86	56793.02	0	6
4+25S	1017	425294	6656566	1222	56786.19	56786.55	0	<5
4+50S	1018	425286	6656543	1225	56818.05	56816.37	1	7

Station Grid	Station #	UTM		Elevation (m)	Magnetic reading		Diurnal correction	Gold assay (ppb)
		location	location		Reading			
		Easting	Northing		south (Nt)	Reading north (Nt)		
4+75S	1019	425280	6656522	1229	56833.55	56833.09	0	6
5+00S	1020	425270	6656495	1236	56822.43	56821.47	0	6
5+25S	1021	425264	6656469	1245	56851.33	56854.88	1	7
5+50S	1022	425264	6656446	1247	56835.24	56837.21	1	<5
5+75S	1023	425260	6656423	1252	56856.51	56858.45	1	5
5+83S	1024	425258	6656410	1254	56867.23	56867.75	0	5
0+00N	1000	425418	6656974	1252	56856.04	56854.47	-1	5
0+25N	1025	425427	6657002	1257	56670.96	56734.52	-17	<5
0+50N	1026	425435	6657026	1254	56860.68	56863.87	1	<5
0+75N	1027	425443	6657054	1259	56859.25	56857.4	0	<5
1+00N	1028	425451	6657076	1261	56863.02	56861.7	-1	<5
1+25N	1029	425458	6657104	1263	56857.3	56857.03	0	8
1+50N	1030	425466	6657131	1266	56853.77	56852.74	0	5
1+75N	1031	425476	6657159	1268	56842.71	56837.79	-2	<5
2+00N	1032	425482	6657179	1266	56843.41	56840.47	-1	6
2+25N	1033	425490	6657205	1267	56856.45	56857.01	0	<5
2+50N	1034	425498	6657232	1266	56867.6	56864.48	-1	<5
2+75N	1035	425505	6657257	1267	56857.98	56855.14	-1	715
3+00N	1036	425514	6657283	1269	56867.12	56855.9	-6	8
3+25N	1037	425524	6657312	1268	56852.42	56847.86	-2	8
3+50N	1038	425531	6657339	1267	56858.02	56859.74	0	5
3+75N	1039	425539	6657364	1266	56828.56	56830.59	1	5
4+00N	1040	425547	6657392	1268	56848.74	56846.08	-1	17
4+25N	1041	425553	6657419	1266	56843.8	56842.27	-8	13

Station Grid	Station #	UTM		Elevation (m)	Magnetic reading		Diurnal correction	Gold assay (ppb)
		location	location		Reading	Reading		
		Easting	Northing		south (Nt)	north (Nt)		
4+50N	1042	425563	6657443	1263	56840.42	56836.56	-2	12
4+75N	1043	425571	6657467	1263	56824.42	56823.01	0	17
East-West Line								
0+00E	1000	425417	6656976	1252	56868.26	56891.33	11	5
0+25E	1063	425441	6656968	1249	56865.69	56896.17	15	13
0+50E	1064	425469	6656964	1246	56881.04	56903.95	10	19
0+75E	1065	425497	6656955	1242	56843.57	56860	9	22
1+00E	1066	425525	6656953	1242	56874.38	56889.94	7	12
1+25E	1067	425553	6656947	1241	56884.71	56902.39	9	12
1+50E	1068	425578	6656944	1236	56880.29	56900.94	10	13
1+75E	1069	425607	6656937	1238	56872.65	56885.55	6	16
2+00E	1070	425632	6656933	1218	56826.57	56889.62	31	19
2+25E	1071	425663	6656920	1214	56845.83	56859.57	7	14
2+50E	1072	425694	6656917	1205	56854.18	56857.02	1	18
2+75E	1073	425721	6656913	1202	56858.23	56865.94	3	14
3+00E	1074	425750	6656907	1197	56826.09	56841.47	7	13
3+25E	1075	425786	6656898	1194	56823.58	56834.32	5	18
3+50E	1076	425814	6656890	1189	56842.88	56846.13	2	14
3+75E	1077	425847	6656882	1191	56863.35	56862.97	0	17
4+00E	1078	425884	6656870	1184	56822.64	56822.68	0	14
4+25E	1079	425905	6656861	1188	56832.55	56832.99	0	14
4+50E	1080	425930	6656855	1192	56855.2	56857.44	1	14
4+75E	1081	425955	6656846	1195	56875.39	56873.57	-1	18
0+00W	1000	425416	6656976	1254	56858.83	56855.06	-1	5

Station Grid	Station #	UTM		Elevation (m)	Magnetic reading		Diurnal correction	Gold assay (ppb)
		location	location		Reading			
		Easting	Northing		south (Nt)	Reading north (Nt)		
0+25W	1044	425392	6656980	1258	56856.19	56851.94	-2	14
0+50W	1045	425367	6656985	1260	56859.14	56854.66	-2	13
0+75W	1046	425341	6656992	1265	56878.8	56876.94	-1	20
1+00W	1047	425316	6656995	1273	56863.98	56862.26	0	15
1+25W	1048	425301	6656998	1276	56862.42	56860.58	-2	16
1+50W	1049	425271	6657005	1276	56870.79	56869.88	0	16
1+75W	1050	425242	6657012	1284	56860.9	56861.75	0	12
2+00W	1051	425218	6657016	1288	56853.52	56854.04	0	18
2+25W	1052	425195	6657021	1290	56858.41	56859.71	0	17
2+50W	1053	425169	6657027	1292	56866.75	56866.87	0	15
2+75W	1054	425144	6657034	1299	56866.12	56868.62	1	16
3+00W	1055	425121	6657038	1304	56867.76	56870.4	1	15
3+25W	1056	425097	6657042	1304	56847.67	56853.98	3	15
3+50W	1057	425070	6657048	1311	56861.34	56862.55	0	14
3+75W	1058	425043	6657054	1314	56866.05	56867.69	0	16
4+00W	1059	425020	6657061	1315	56875.18	56876.66	0	20
4+25W	1060	424999	6657067	1314	56863.19	56864.39	0	15
4+50W	1061	424975	6657071	1316	56846.6	56846.83	0	12
4+75W	1062	424950	6657079	1317	56834.29	56833.39	Gold fire assay	12

Appendix



A18-09639 XRD
Report.pdf



A18-09639cert&res.
pdf



A18-09639Final.xlsx



Invoice
A18-09639.pdf