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Gardner-Courageous Showing Area

Knight Township, Larder Lake Mining Division,
N.E. Ontario

41M11

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Introduction

The property is located 135 km NNW of Sudbury, 85 km south of Timmins and 90 km SW of Kirkland Lake in the eastern Shining Tree area, or what is also known as the Tyrrell-Knight gold area. It is accessible from Highway 560 via unmaintained, gravel forestry roads running north from a point just east of where the highway crosses Hydro Creek (and also where a major power crosses the Highway) in NW Tyrrell Township. There are 2 access roads, (1) the Arthur Lake road passing west of Moon Lake then via an east branch which passes north of Moon Lake and (2) via an access point a few hundred metres to the east in the large gravel pit, which passes east of Moon. The distance, by either road, from the highway to the Courageous-Gardner showings is about 5 km.

Most of the work was carried out on the Burda Claims, a group of 19 claims totaling 39 claim units. These claims are owned outright by T.A. Young of Vancouver. This group lies on the east side of a large group of claims known as Block A which is owned 70% by T.A. Young and 30% by Golden Harp Resources Inc. also of Vancouver. A small amount of work was also done on Block A. The Burda claim group is bordered on the east, more or less by Pigeon Lake.

The main purpose of the work was to build up geological picture around the Gardner-Courageous gold showings in order to evaluate the potential of the area and predict extensions of the mineralization.

Since the work by Battle Mountain, the forest of the area has been harvested and the area scarified and re-planted and the plantation now has trees up to 12 to 14 cm in diameter. Although 5 of the 7 casings of the Battle Mountain drill holes were found, there is nothing left of picket lines and very few of the claim posts, which were erected prior to the forestry operations, remain.

Control for the mapping was by GPS. The roads in the area were reconnoitered on 17th May 2016 and the mapping was done on the 9th to 14th June, and on 15th July 2016.

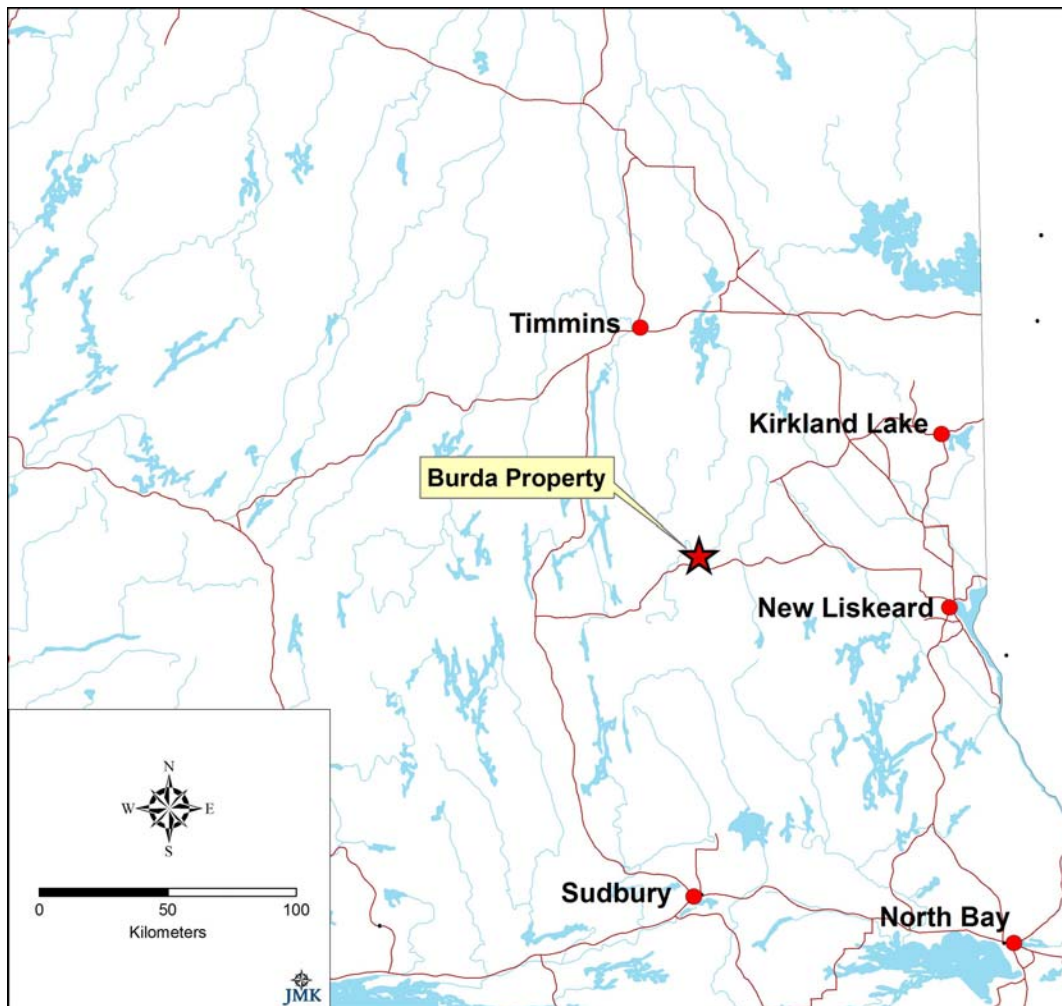


Fig. 1: Location Map

Description of Property

Table I

Burda Group - Claim List

Ownership: 100% T.A. Young Client # 302446

Claim #	Units	Recording Date	Claim Due Date	Work Required	Total Reserve
1220092	1	1996-Sep-17	2016-Sep-17	\$400	\$535
1220094	1	1996-Sep-17	2016-Sep-17	\$400	\$0
1220095	1	1996-Sep-17	2018-Oct-24	\$400	\$17
1220372	1	1996-Sep-18	2016-Sep-18	\$400	\$0
1220373	1	1996-Sep-18	2016-Sep-18	\$400	\$0
1220374	1	1996-Sep-18	2016-Sep-18	\$400	\$0
1220375	1	1996-Sep-18	2016-Sep-18	\$400	\$0
1220376	1	1996-Sep-18	2016-Sep-18	\$400	\$341
1220377	1	1996-Sep-18	2016-Sep-18	\$400	\$0
1221717	1	1996-Sep-17	2016-Sep-17	\$400	\$0
1221718	1	1996-Sep-17	2016-Sep-17	\$400	\$0
1221719	1	1996-Sep-17	2016-Oct-24	\$400	\$427
1221720	1	1996-Sep-17	2016-Sep-17	\$400	\$1,073
4247571	1	2009-Apr-03	2017-Apr-03	\$400	\$0
4251937	1	2009-Oct-27	2016-Oct-27	\$400	\$400
4257829	1	2010-Nov-26	2016-Nov-26	\$400	\$0
4258963	4	2010-Oct-29	2017-Oct-29	\$1,600	\$5,279
4270959	12	2012-Jul-13	2017-Jul-13	\$4,800	\$0
4283642	7	2015-Mar-18	2017-Mar-18	\$2,800	\$0
19 claims	39			\$15,600	\$8,072

Table II

List of Block A Claims where work carried out

Ownership: 70% T.A. Young; Client # 302446

30% Golden Harp Resources Inc. Client # 403237

Claim #	Units	Recording Date	Claim Due Date	Work Required	Total Reserve
1131036	1	1990-Apr-06	2018-Apr-06	400	\$ 57,484
1131053	1	1990-Apr-05	2018-Apr-05	400	\$ 10,800
1202743	1	1995-Mar-14	2018-Mar-14	400	\$ -
1221670	1	1996-Oct-23	2018-Jan-23	400	\$ 13,898
1221682	1	1996-Oct-25	2018-Oct-25	400	\$ -

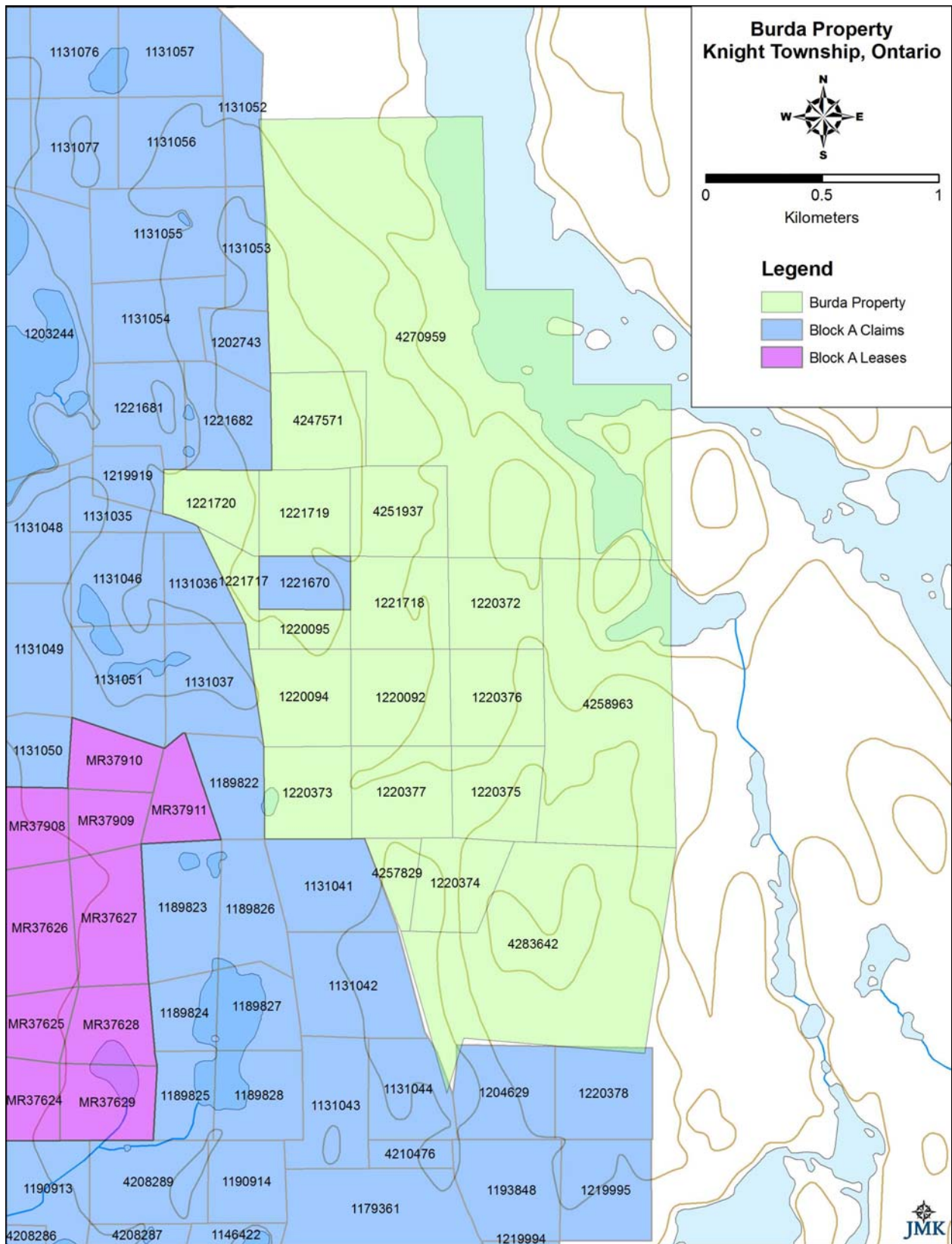


Figure 2. Claim Map

Previous Work

1933: Unknown; Carter (1983) reports original claim staked here in 1933; In 1936 claims here were held by D.H. Gardner;

1936: Erie Canadian Mines (Sylvanite Mines subsid); Gardner-Decker Options: (Kirkland Lk File CO-1323); trenching and sampling on main showings; They show significant gold values over narrow widths, intermittently along a strike of about 105° for a distance of 113m. One short, cross 'vein' strikes at 170°.

1939: Hollinger GM: undertook work on these claims and compiled and/or sampled the trenches; (files extracted from Cobalt resident geologist assessment files in 1994). This is the most comprehensive assay plan available of the Main Gardner-Courageous zone. There are significant assays intermittently along a 130m strike length; Hollinger seems to have extended trenching and sampling farther east (compared to Erie Canadian Mines) where there is another zone slightly to the north and an en echelon with the other zones, averaging 8.23 g/t Au over an average width of 1.0m along a strike length of 33.5m.

1959: Courageous G.M. Ltd.(Kirkland Lk Res. Geol File: CO-1319) 14 short diamond drill holes tested an ESE striking structure; Locations provided for these holes are ambiguous. Relating them to the old claims suggests they are from a showing about 250m SSW of the Main Showings. F. Racicot (file CO-3233) does report an old trench near this location and the Hollinger map shows significant grab sample assays from this southern location. However, relating the drill holes to the baseline which is tied to topography at Arthur Lake and considering the pattern of trenches shown on the drill plan provides a stronger argument that these holes tested the Main Gardner-Courageous Zone. Some of the better intersections are as follows:

Drill hole #9: 6.31 g/t Au over 3.35m;
Drill hole #10: 16.45 g/t Au over 1.07m
Drill hole #13 7.89 g/t Au over 0.76m

1964: New Senator Rouyn; (File: 41P11NE0013, or KL file CO-1332) trenching, sampling; one diamond drill hole tested the Main Gardner-Courageous showing near the eastern end.

1966-67: Sutherland & Associates, Temiskaming Nickel; diamond drilling holes C1-C-5, and KT-3 to KT-4; tested ultramafics for Ni SE, E and NE of the Courageous showing; casing of hole C-5 located 150m SE of the Gardner-Courageous main trenches; KT-3 to 5 were drilled a few hundred metres to SE. The large excavation exposing strongly magnetic serpentinites 150m east of the Gardner-Courageous trenches may possibly have been done at this time.

1977-1996: The area lies within what was known as the Temagami Land Caution. During this period, no claims could be staked within the land caution and therefore almost no mineral exploration was done. With the lifting of the caution in September 1996, this area was staked by Hemlo Gold in the ensuing staking rush. (Hemlo Gold, later merged with Battle Mountain who later merged with Newmont.)

1996-97: Battle Mountain (File: 41P11NE2004 or Klk file CO-2400) did trenching and saw-cut sampling, IP and soil sampling in the area of the main showings; 4 holes K97-1,4,5 & 6 tested the Gardner-Courageous. K97-2,3 & 7 tested targets (including IP anomalies) elsewhere on the property, north, south and to the east. Casings for 4 of these holes have been located. No record of the geophysics, soil

geochemistry and trench sampling has been found in the assessment files. Drill assays infer a 3 to 5m thick envelope of low grades gold over a strike length of at least 280m with a best value of 4.08 g/t over 2m in drill hole K97-1;

1998: Filo and Jones, (File: 41P11NE2013, or K.Lk file CO2627) financed by an OPAP grant drilled 2 holes on claim 1221670, the isolated Block A claim within the Burda group south of the Courageous showings. These casings were not found; Presumably pulled because of budget constraints. The western hole cut 2.55 g/t Au over 0.25m. This is approximately on the eastern strike projection of a southern zone noted in the Hollinger data and shown as a trench on mapping by F. Racicot for D. Burda (File CO3233)

2004: KRL GeoTem survey (airborne EM and magnetics), (File 41P11NE2025) flown mainly on Block A, but also covered western part of Burda group;

2007: Golden Harp Resources Inc. flew VTEM/Mag survey over their 'Block A' claims to the west covering a strip along the west side of the Burda Group.

2010-11: Burda, D. (File CO-3233 & CO-3604) Reconnaissance mapping, some MMI geochemical orientation/test sampling, by F. Racicot; Racicot reports finding #4 post of claim 1221670 (isolated claim of Block A) & shows an old trench east side of road and about 200m south of main showings;

2011-2012: Mineral Mountain: Basal till sampling for gold covered Block A; This was followed up by 21 hole program of cross-sectional diamond drilling which tested for the source of 3 gold in basal till anomalies. Eastern most holes of cross sections drilled lie just west of western boundary of area mapped;

Regional Geology & Mineral Deposits

The Shining Tree area is located in the Abitibi Greenstone belt west side of the 'Cobalt Proterozoic Embayment'. On the basis of available age dating, the Archean here consists of 5 assemblages. The volcanics generally top to the north or northeast. From the SW, the assemblages are progressively younger, from Pacaud in Asquith and Fawcett townships, through Deloro in MacMurphy and SW Tyrrell through to Kidd-Munro in northeast Tyrrell and Knight Townships. The Tisdale Assemblage is recognized to the NW in Kelvin and Cabot townships. Unconformably overlying these assemblages are Timiskaming-like sediments and volcanics. However, age dating in the Shining Tree area places these rocks as part of the Porcupine Assemblage. These sediments and volcanics cover a fairly large area in south-central Tyrrell and in Leonard Township to the south. They are also present as thin, discontinuous bands along the Tyrrell Shear, diagonally from SE to NW through Tyrrell Township and they underlie a large triangular area occupying most of the SE half of Natal and a narrow strip along the north boundary of MacMurphy Township. Intrusives of similar age are represented by the Milly Creek stock (at the Tyrannite mine) in SE Knight and the Hare Lake stock in NW Tyrrell and SW Knight townships.

Diagonally through Tyrrell Township and in northern MacMurphy, the volcanics are disrupted by a regional 120° to EW trending 'break structure', known as the Tyrrell Shear or to the west in the southern Swayze belt, as the Ridout Fault. The Tyrrell Shear is accompanied by a zone of moderate to

strong deformation. This structure is itself disrupted by N to NNW trending cross-structures such as that marked by the Hydro Creek Fault and the accompanying zone of deformation.

Numerous NNW Matachewan diabase dykes cut the volcanics. Unconformably overlying all of these rocks is the Proterozoic Huronian Supergroup, here including the Gowganda and Lorrain Formations. The Gowganda and Lorrain Formations are accompanied by the Nipissing gabbro ("Diabase") sills.

The Shining Tree/Knight-Tyrrell area has been explored for gold since the 1930's. Excluding the old Shining Tree village and Rhonda mine, areas to the southwest, there has been one, small past producer in the area, the Tyrannite mine on the Tyrrell-Knight township boundary, with a production of 203,000t at a recovered grade of 4.65 g/t Au. Here, gold is associated with a N-S shear zone cutting both volcanics and the Milly Creek stock. Located just south of Highway 560 in north-central Tyrrell, the Minto deposit is hosted in a steep breccia pipe. It has a resource of 170,000 t at a grade of 5.83 g/t Au. However, Creso Exploration, 2010, reported intersections of up to 13.3 g/t Au over 82.5m and 18.2 g/t Au over 65.7m in steep holes drilled down the plunge of the pipe. Other, significant resources have been outlined in the general area. Along the Tyrrell Shear, the Jubby deposit is reported to host a resource (indicated plus inferred) of 12.12 million tonnes at a grade of 1.70 g/t Au with a higher grade core. Similar grades of mineralization are present west-northwestward along the shear zone in the Goldeye-Lacarte zones and at the Cook Zone in NE MacMurchy. There are also numerous gold showings and occurrences in the general area. Included are the LG and Decker zones within Block A in SW Knight Twp.

Property Geology and Showings

In the area of Block A and Burda group claims, the volcanics consist of interlayered mafic and ultramafic flows. Intermediate to felsic volcanics make up only a minor part of the sequence. Two age dates in northern Tyrrell of 2727.1 Ma classifies these volcanics as part of the Kidd Munro Assemblage. The volcanics generally dip steeply, and although no definite top determinations were observed on the properties, north facing pillows are reported by Carter at the Tyrannite mine and by the author along Highway 560 near the Minto deposit. In the north-mid Tyrrell and south-mid Knight, the volcanics strike slightly north of west. However, westward, approaching the Knight-Natal boundary, and the Hydro Creek cross-structure, the strikes bend northward to about 345°. The volcanics are intruded by Timiskaming-type syenites, diorites dated in northern Tyrrell at 2686.8 +/-1 Ma (actually Porcupine Assemblage age.) These include the Milly Creek stock north of the Tyrannite mine and Hare Lake stock in NW Tyrrell and SW Knight.

The area mapped lies immediately east of the esker complex through Arthur Lake-Moon Lake and outcrop is generally sparse. However, the area of the Gardner-Courageous Showings lies within a small embayment on the east side the esker deposits (Alcock and Miller), where there is reasonably good outcrop. Hence, only around the showing can a detailed geological picture be put together. Interpreted strikes in the general showing area vary from 100° to 110°. No flow contacts were observed and the strikes are based on interpretation from outcrop to outcrop. Many of these interpreted strikes are actually intrusive contacts of diorite/gabbro with mafic or ultramafic volcanics. However, the 100 - 110° strike is substantiated by the magnetics from KRL's 2004, GeoTem survey and Golden Harpe's 2007 VTEM airborne survey. Foliation and schistosity dips where observed in the Gardner-Courageous and Battle Mountain trenches are estimated at 65° to 70° south.

In the central area, around the Gardner-Courageous Showings, the succession from south to north is as follows: (1) variolitic, pillowed mafic flows, (2) 300m +/- ultramafic rocks with minor, thin, mafic flows, and intruded by relatively thick lens-like sills of hornblende-phyric diorite/gabbro and massive, medium grained diorite/gabbro with acicular feldspar phenocrysts, and (3) pillowed, mafic flows. The sills intruding the ultramafic are texturally similar to intrusives of the Milly Creek and Hare Lake suites seen by the author in Hare Lake area of Tyrrell Township and at the Tyrinite mine. These rocks when unaltered are moderately magnetic. The diorite/gabbro sills have been previously identified in drill core as mafic flows. Around the showings, the sills are separated by layers of carbonate rock apparently formed from the ultramafics.

One strong shear is evident through the middle of the Battle Mountain eastern trench and is well exposed in the western trench. Matachewan diabase dykes intrude along this shear and the structure is recognized 150m west of the trenches in drill hole K97-4.

The area of old trenches and showings tested by Battle Mountain's drill holes K97-1, 4 and 5, coincides with old Gardner and Courageous showings. Erie Canadian (a Sylvanite subsidiary), Hollinger GM and New Senator Rouyn also investigated these showings. Carefully plotting of old data suggests there is second cluster of showings and drill holes located about 250m SW of main showings. This second showing location is substantiated by work by F. Racicot. In a brief mapping project for D. Burda, Racicot located an old trench just east of the road and just north of the road intersection.

Description of Work Done

Areas of previously known outcrop (mainly from Carter's preliminary geology maps) around the Gardner-Courageous showings were examined and outcrops tied in by GPS. As well, it was attempted to locate casings of important drill holes that had tested these showings. Four of the 7 by Battle Mountain casings were located and the locations of the two, Filo-Jones drill holes were estimated from the claim post locations. None of the 1959, Courageous Mines drill holes were found, either because there was no way to make approximate estimates of their location or because they had been destroyed by forestry operations. Prior to this mapping, the location of the Courageous Mines work was uncertain. It is now apparent that the Courageous drilling tested the main showing area, i.e. the area tested by Battle Mountains 2 trenches and drill holes K97-1, 5 & 6 and a careful search of the area south of the Main Showings might locate some of these casing. One Temiskaming Nickel drill hole casing was located, but no attempt was made to locate the remaining holes as they were drilled to test for Ni-Cu in the ultramafics rather than targeting gold occurrences.

Searches were made for claim posts of an area larger than known showings. However, only a few were located, as shown in Fig. 3.

Rock Type Note

Although exposed in only one large trench, east of the Main Showings, based on airborne magnetics, serpentinized ultramafic rocks underlie an appreciable area. Where exposed in one large

trench east of the main showings, they are strongly magnetic and polyhedral jointed and are interpreted to be flows. It appears that the carbonate rock, seen at the Main Showing is derived from these ultramafics.

The mafic volcanics are fine grained, non-magnetic and in the larger exposures, they include variolitic and pillowed types.

Distinctive fine to medium grained gabbro-diorite with mafic phenocrysts (hornblende) form sills within and south of the main showings. A second type of gabbro-diorite lies immediately to the south and as smaller intrusives at the southwest showing. These are mostly medium grained, more feldspar-rich and contain acicular feldspar phenocrysts. However, superficially, these rocks do not appear porphyritic. Both of these intrusives are massive and 'dyke-like', but, as contacts were not observed, there is the possibility that they are 'cores' of thick flows. However, their textures are similar to Timiskaming/Porcupine Assemblage, Millie Creek (Tyrannite area) and Hare Lake intrusives in Tyrrell Township. As well, in previous drilling, and at the exposure at the SW showing, they are weakly to moderately magnetic. This is further evidence that they are Timiskaming/Porcupine Assemblage rocks which have undergone less metamorphism than the older assemblages and thus retain some of their original magnetism. Although they have been previously logged in drill core as mafic volcanics, they are interpreted here to be Timiskaming/Porcupine assemblage.

Carbonate rocks are relatively massive and appear to be mainly derived from ultramafics. Lesser amounts seem to have formed from the gabbro-diorite intrusives.

A number of typical NNW trending, late, Matachewan-type diabase dykes are recognized. The limited exposure at the main showing suggests they have also intruded along the main, 110°-trending shear, (as is common along the Tyrrell Shear at the Juby and Goldeye-Lacarte and Cook gold deposits.

TABLE III

List of Samples, Burda Claim
Group

Sample	Field	UTM NAD83; Zone		Description	ppb Au	ppm Cu	ppm Ni
#	#	E	N				
1237110		495618	5281869	irregular qtz+carb veining with grey to green, massive (?) mafic volcanics, tr diss Py, generally unmineralized;	823		
1237111		495613	5281850	lt grey/green, altered mafic volcanics; strong pervasive carbonate about 1-2mm quartz+carb veinlets oriented at various angles. Tr finely disseminated Py within veinlets	9		
1237112		495583	5283002	Strongly altered mafic volcanics (bleached): Strong pervasive carbonate with lesser amount of quartz, veinlets<1mm to 5mm, locally cross-cutting each other; tr finely disseminated Py, generally unmineralized;	9		
36951	B008	495687	5282067	quartz from trench rubble; N edge main carbonate zone	1842		
36952	B014	495650	5282073	banded qv, chip sample over 1m +/-; Trench along 'main' carbonate zone	9		
36953	B016	495621	5282075	0.8 to 0.9m wide, 25% qv; a little limonite, tr Py; str. 115°; approx 65°S;	1556		
36954	B017	495844	5282074	chlorite-talc schist with blue mineral on schist planes; tr Cp?	8	25	2560
Specimen	B17A	495605	5282065	med. grained, hornblende-phyric diorite/gabbro; 6(f); Milly Creek suite?			
Specimen	B019	495620	5281878	variolithic basalt;			
Specimen	B021	495590	5281944	medium grained, diorite/gabbro with acicular feldspars;			
36955	B023	495704	5282075	siliceous, green carbonate rock with 'sub cm' white qtz veinlets, tr pale Py	11		
36956	B025	495708	5282088	N. end long (Battle Mtn) trench; dark green carbonate rock with stockwork fine white quartz-carbonate veins, tr Py	74		
Specimen	B027	495510	5281896	medium grained gabbro-diorite, moderately magnetic;			
36957	B028	495501	5281887	chips off N. wall of pit; silica-carbonate alteration with minor quartz vein & >1% Py	-		

Summary of Results

At the present stage of our understanding, the setting of the main Gardner- Courageous Showings seems to be as follows: There is a sequence of interlayered ultramafic and variolitic basalt flows striking about 110° and dipping fairly steeply south. A structure more or less parallel to the Tyrrell Shear (the main 'break-structure' in the Shining Tree camp located a few km. to the south) at about 110° develops within an ultramafic unit. This shear, and parallel shears are intruded by multiple sills of Timiskaming-type gabbro-diorite, leaving layers or 'screens' of ultramafics between the sills. There is continued movement on this shear along the ultramafic layers. The main Gardner-Courageous may have developed at a small flexure in the structure, where the ultramafics are selectively altered. They are carbonatized and silicified with the development of quartz veining with minor pyrite and gold. The strongest of these shears has been traced by old trenching and Battle Mountain's drilling along a strike length of 300m.

Within the area covered, only 2 showing areas are recognized, the main showing cluster explored by Battle Mountain's drill holes K97-1, 5 and 6 and a lesser showing located 250m to the southwest. It appears that most of the better values shown in the assessment files, from this general area, such as the Hollinger assays, 8.23 g/t Au over an average width of 1.0m along a strike length of 33.5m and the drill intersections by Courageous Mines, including 6.31 g/t Au over 3.35m and 16.45 g/t Au over 1.07m are all from this main showing area. In this work, it has not been possible to reconstruct the old trench pattern shown on Hollinger's map and it is therefore not possible to locate the old assays. Neither the Courageous mines, nor the New Senator Rouyn drill casings have been found and it is therefore not possible to accurately locate the old drill hole assays. However, the Battle Mountain work can be reconstructed from the drill hole and trench locations. The best of their values are in drill hole K97-1, an intersection which averaged 4.08 g/t Au over 2.0m. This lies within a 3 to 5m thick, envelope of low grade/anomalous gold values (>0.1 g/t Au) which appears to persist over the 300m strike length.

In the smaller, showing, 250m to the SW, Hollinger reported significant isolated assays, presumably from grab samples. This showing was examined in the field only after reviewing the paper copy assessment files in Kirkland Lake and at the time of writing, assays are not yet available. The Filo-Jones drill hole KN-2 cut narrow values, 2.45 g/t Au over 0.25m about 110m on strike to the ESE, and a grab sample of quartz vein, from this work located 120m east of the showing assayed 0.82 g/t Au.

Discussion and Recommendations

The main Gardner-Courageous zone, (as seen in this mapping and from previous sampling), although it appears to be sub-economic where exposed, it is a strong and probably a persistent structure. It can be expected to host other gold concentrations along strike and at depth. Concentrations of gold, to the west, along this structure could be the source of the gold in basal till in the Mineral Mountain survey on Block A. Projecting it westward, it would intersect Averill's Decker gold in till 'train' near the western boundary of claim 1221720.

In the KRL VTEM survey, a prominent magnetic anomaly appears to be associated with serpentinized, ultramafic flows (serpentinites usually contain magnetite). This anomaly widens and increases in intensity east of the showings, but narrows and decreases in intensity to the west. This decrease in magnetism to the west can be interpreted as progressive loss of magnetite due to

carbonatization. The inference is that conditions for gold mineralization are generally more favourable westward.

Battle Mountain did IP surveys over a fairly large area around the Gardner-Courageous Showings. This is noted in Filo's later assessment filing and it is also apparent that holes K97-2 and 3 were drilled to test IP anomalies. They presumably would also have done ground magnetics. The two long trenches with extensive saw-cut samples are also thought to have been done by Battle Mountain. Only the report of diamond drilling was found in the assessment files.

Continued exploration of the Gardner-Courageous structure westward from the showing is strongly recommended.

(1) An attempt should be made to obtain the Battle Mountain magnetic and IP surveys from their successor company and if this is not possible, a magnetic survey should be run over the showings and extended to the west beyond the western boundary of claim 1221720. Lines should be about 400 long using a 110° trending base line located about 100 south of the main showings. Magnetics, would very likely help trace geological units and structures to the west under the esker deposits. This survey could be done by gps control without cutting picket lines.

(2) The till sampling, as done by Mineral Mountain on Block A to the west, should be extended to test till that may have been derived from the Gardner-Courageous 'structure', particularly to the west of the main showings. In doing this survey, it is important that one of the sampling lines be located a short distance south the projected position of the Gardner-Courageous 'structure'.

(3) The Main Showing area should be mapped in more detail, say at 1:500 in order to re-establish the old trench and sampling pattern. Some limited re-sampling should be done. Fairly good control is necessary for this work, either base-station-corrected GPS or close-spaced picket lines.

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Appendix I: Statement of Qualifications

Statement of Qualifications

I, Joerg Martin Kleinboeck of 147 Lakeside Drive, North Bay, Ontario, do hereby certify that:

I am a graduate of Laurentian University, Sudbury, Ontario with a B.Sc. Geology, 2000, and have been practising my profession as a geologist since.

I am a member with the Association of Professional Geoscientists of Ontario (#1411).

I am a member of the Prospectors & Developers Association of Canada (PDAC).

I have no direct or indirect interest in the Properties.

The image shows a handwritten signature in cursive, which appears to read 'Joerg Kleinboeck'. To the right of the signature is a circular professional seal. The seal contains a stylized flower or star symbol in the center. The text around the inner border of the seal reads 'PROFESSIONAL GEOSCIENTISTS'. Below the symbol, it says 'JOERG M. KLEINBOECK', 'PRACTISING MEMBER', and '1411'. The word 'ONTARIO' is at the bottom of the seal.

Joerg Martin Kleinboeck
JMK Exploration Consulting
July 29th, 2016
North Bay, Ontario

Statement of Qualifications

This is to state that I, Arthur W. Beecham, resident of Haileybury, Ontario, hold a Bachelor of Science Degree (1962) in Geology from Carleton University, Ottawa and a Master of Science Degree in Geology (1969) from Queen's University, Kingston, Ontario.

I have practiced my profession as an Exploration and Mining Geologist continuously from graduation until 2000. Since that time, I have worked in mineral exploration in a prospecting role, in evaluation of properties, in management of mineral lands in Ontario and Quebec.

My experience includes exploration and mining of gold, base metal, nickel-copper, silver and tungsten deposits.

I have first-hand knowledge of the property from 10 days field work in May, June and July, 2016. I have been involved in exploration of adjacent and other nearby properties in the Shining Tree gold area from 1994 until 2012.

I have no direct or indirect interest in the property.

Haileybury, Ontario

29th July 2016



A.W. Beecham, B.Sc., M.Sc.

Appendix II: Assay Certificate



Established 1928

Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 1 of 1

Assay Certificate

Certificate Number: 16-844

Company: **Arthur Beecham**

Project: **TAY-KN**

Report Date: **11-Jul-16**

Attn: **A.W. Beecham**

We hereby certify the following Assay of 9 rock/grab samples
submitted 24-Jun-16 by A.W. Beecham

Sample Number	Au	Au Chk	Cu	Ni
	FA-AAS ppb	FA-AAS ppb	AR-AAS ppm	AR-AAS ppm
1237110	823			
1237111	9			
1237112	9			
36951	1842			
36952	9			
36953	1556			
36954	8		25	2560
36955	11			
36956	74			

Certified by

Denis Chartre

Appendix III: Lithological Legend

GEOLOGICAL LEGEND

<input type="checkbox"/>	16	931	Nipissing Gabbro			
<input type="checkbox"/>	15		Huronian Se (a) argillite, siltstone (b) greywacke (c) paracongl; (d) orthocongl; (i) feldspathic sandst.			
<input type="checkbox"/>	13	947	Diabase dykes, Matachewan type			
	12		Altered and Metamorphosed Rocks			
<input type="checkbox"/>	910	(a)	Carbonate rock	<input type="checkbox"/>	(c)	Chlorite schist 910
	10		Timiskaming Type Assemblage Sediments			
<input type="checkbox"/>	946	(a)	Argillite, siltstone	<input type="checkbox"/>	(d)	Conglomerate 944
<input type="checkbox"/>	946	(b)	Greywacke	<input type="checkbox"/>		
	6		Milly Creek (Temiskaming Type) Intrusives			
<input type="checkbox"/>	918	(a)	Fine syenite porphyry, "trachyte"	<input type="checkbox"/>	(h)	intermediate fsp-rich 932
<input type="checkbox"/>	932	(b)	Diorite/gabbro with mafic inclusions	<input type="checkbox"/>	(s)	Syenite 918
<input type="checkbox"/>	932	(c)	Gabbro	<input type="checkbox"/>	(m)	Monzonite, syenodiorite 918
<input type="checkbox"/>	932	(f)	m-fg hornblende/fsp porphyry			
	5		Mafic and Ultramafic Intrusives			
<input type="checkbox"/>	933	(c)	Gabbro	<input type="checkbox"/>	(f)	Fine grained mafic 933
<input type="checkbox"/>	933	(d)	Quartz diorite/gabbro	<input type="checkbox"/>		
	4		Sediments			
<input type="checkbox"/>	966	(a)	Argillite, siltstone	<input type="checkbox"/>	(f)	iron formation 956
	3		Intermediate to Felsic Volcanics & Subvolcanic Intrusives			
<input type="checkbox"/>	916	(a)	massive, aphyric felsic volc. "rhyolite"	<input type="checkbox"/>	(e)	Quartz (+/- fsp)phyric flows 916
<input type="checkbox"/>	916	(c)	Quartz (+/- fsp)phyric tuff, tuff breccia	<input type="checkbox"/>	(f)	Felsic tuff, tuff breccia, aphyric 916
<input type="checkbox"/>	939	(d)	Quartz (+/- fsp)phyric (sub-volc) intrusives	<input type="checkbox"/>	(h)	Feldspar porphyry intrusives 939
<input type="checkbox"/>	916	(i)	Feldspar crystal tuff, tuff breccia	<input type="checkbox"/>	(m)	massive intermediate/felsic volcanic
<input type="checkbox"/>	939	(k)	fine grained felsic dyke, aphyric	<input type="checkbox"/>		
	2		Mafic Volcanics			
<input type="checkbox"/>	909	(a)	massive; (b) breccia; flow bx; {c} coarse-grained; (d) pillowed; (g) amygdular (i) diabase textured			909
<input type="checkbox"/>	909	(e)	Variolitic flows	<input type="checkbox"/>		
	1		Komatiitic Volcanics			
<input type="checkbox"/>	907	(a)	Spinifex textured; (b) komatiitic volcanic bx; (d) polyhedral jointed; (m) massive;			907
<input type="checkbox"/>	907	(s)	Serpentinized UM flows	<input type="checkbox"/>		

SYMBOLS AND ABBREVIATIONS

sss	sericite alteration					schistosity, foliation
###	silicification					mineralized veins
	Fe carbonate alteration					bedding
	sulphides (Py); >1%					glacial striae
	geological contact					claim boundary
	shear zone,					diamond drill hole
	faults					overburden drill hole
▲	grab sample, # & assay g/t Au					channel or ddh sample:
						assay g/t Au/length m
alt	altered	fg; mg, cg				fine, medium & coarse grained
Asp	arsenopyrite	m				massive
Au	gold occurrence, showing	mt				magnetite
Cu	copper occurrence, showing	Ni				low grade Ni mineralization
chl	chlorite, chloritic	p				porphyritic
ep	epidote	Po				pyrrhotite
hem	specular hematite	Py				pyrite
G	gossan	qv				quartz vein
gf	graphite, graphitic	qc				quartz-carbonate vein

revised
16-Jun-16

APPENDIX IV

ADDRESSES OF CLAIM HOLDERS

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Maps

