NTS 082K 15E, TRIM 082K.098
LAT. 50 54' 12" N
LONG. 116 33' 16" W

# GEOLOGICAL, GEOCHEMICAL & CORE DRILLING REPORT ON MINERAL TENURE 511333 DRIFTWOOD MAGNESITE MINERAL OCCURRENCE BRISCO, B.C.



Golden Mining Division

by

Andris Kikauka, P.Geo.
4199 Highway 101,
Powell River, BC V8A 0C7



January 5, 2015

Amended- August 22, 2015

BRITISH COLUMBIA
The Best Place on Earth

RECEIVED
AUG 25 2015
MINISTRY OF ENERGY AND MINES

**Ministry of Energy and Mines**
BC Geological Survey

**Assessment Report**
**Title Page and Summary**

**TYPE OF REPORT [type of survey(s)]:** Geological, Geochemical, Drilling **TOTAL COST:** $89,850.30

**AUTHOR(S):** Andris Kikauka **SIGNATURE(S):** A. Kikauka

**NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):** MX-5-644 **YEAR OF WORK:** 2014

**STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S):** 5536217

**PROPERTY NAME:** Driftwood Creek

**CLAIM NAME(S) (on which the work was done):** 511333

NOTE: Core storage at Vine 2 km N of N tip of Moyie Lk 585,771E, 5,472,530N, elv. 953 m

**COMMODITIES SOUGHT:** Magnesite

**MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:** 082K NE 068

**MINING DIVISION:** Golden **NTS/BCGS:** 082K 15/E, 082K.098

**LATITUDE:** 50 ° 54 ' 12.2" **LONGITUDE:** 116 ° 33 ' 16.3" **(at centre of work)**

**OWNER(S):**
1) Andris Kikauka
2) Glen Rodgers
3) Peter Klewchuk

**MAILING ADDRESS:**
1) 4199 Hwy 101, Powell R, BC V8A 0C7
2) Box 215, Cranbrook, BC V1C 4H7
3) 408 Aspen Rd., Kimberley BC V1A 3B5

**OPERATOR(S) [who paid for the work]:**
1) MGX Minerals Inc
2)

**MAILING ADDRESS:**
303-1080 Howe St.
Vancouver BC V6Z 2T1

**PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):**
Middle Proterozoic Purcell Supergroup Mt Nelson Fm quartzite, dolomite (Helikian). Magnesite occurs as lenses/layers within an area affected by low grade regional metamorphism, quartz veining occurs as metamorphic sweats. The regional trend of lithology is ESE, dip is variable (depending on folding), there are numous N to NE trending steep dip late faults

**REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:** 8760, 19416, 26345, 30243, 31353

Next Page

| TYPE OF WORK IN THIS REPORT | EXTENT OF WORK (IN METRIC UNITS) | ON WHICH CLAIMS | PROJECT COSTS APPORTIONED (incl. support) |
|---|---|---|---|
| **GEOLOGICAL (scale, area)** | | | |
| Ground, mapping | 1:1,250 1:2,500 5 hectares | 511333 | 6,305.70 |
| Photo interpretation | | | |
| **GEOPHYSICAL (line-kilometres)** | | | |
| Ground | | | |
| Magnetic | | | |
| Electromagnetic | | | |
| Induced Polarization | | | |
| Radiometric | | | |
| Seismic | | | |
| Other | | | |
| Airborne | | | |
| **GEOCHEMICAL (number of samples analysed for...)** | | | |
| Soil | | | |
| Silt | | | |
| Rock | 21 XRF Li Borate Whole Rock MEXRF-06(2) | 511333 | 4,933.10 |
| Other | Split core 141 XRF Li Borate Whole Rock | 511333 | 16,852.20 |
| **DRILLING (total metres; number of holes, size)** | | | |
| Core | 437.52 m, 8, BQTW 42 mm, 1.6" | 511333 | 61,759.30 |
| Non-core | | | |
| **RELATED TECHNICAL** | | | |
| Sampling/assaying | | | |
| Petrographic | | | |
| Mineralographic | | | |
| Metallurgic | | | |
| **PROSPECTING (scale, area)** | | | |
| **PREPARATORY / PHYSICAL** | | | |
| Line/grid (kilometres) | | | |
| Topographic/Photogrammetric (scale, area) | | | |
| Legal surveys (scale, area) | | | |
| Road, local access (kilometres)/trail | | | |
| Trench (metres) | | | |
| Underground dev. (metres) | | | |
| Other | | | |
| | | TOTAL COST: | $89,850.30 |

TABLE OF CONTENTS AND LIST OF FIGURES

LIST OF FIGURES

## SUMMARY

The Driftwood Creek sparry magnesite deposit is located along a ridge top located about 1 kilometer north of Driftwood Creek . MGX Minerals (CSE: XMG) has completed core drilling in September, 2014 on the Driftwood East Magnesite Zone, located on the east-central portion of the mineral property. A total of 437.52 m (1,435.07 ft) from 8 holes drilled in a 100 X 300 m area were located along the ridge top in the area of the Driftwood East Zone (Fig 6, 7). Also, a total of 14 rock chip samples across a width of 42 m (137.75 ft) were taken near the west portion of the East Zone, and one sample from the West Zone(Fig 4, 6, & 16) . The Driftwood magnesite property consists of contiguous claims totalling approximately 450 hectares (1,112 acres) located approximately 50 km (31.1 miles) south of Golden, BC (Fig 1, 2).

Drill core was split at 3 m (9.84 ft) intervals and sampled using quality control/quality assurance protocol defined by NI 43-101. The samples were analyzed using Li Borate fusion, whole rock analysis ME-XRF-06 (XRF26), performed by ALS Minerals, Kamloops/North Vancouver, BC.

2014 Highlights of significant results from East Zone are listed as follows:

| DDH # | From m (ft) | To m (ft) | length m (ft) | MgO % | CaO % | SiO2 % | Fe2O3 % | LOI % |
|---|---|---|---|---|---|---|---|---|
| 14 1 | 1 m (3.28 ft) | 27 m (88.56 ft) | 26 m (85.28 ft) | 42.55 | 0.75 | 5.86 | 0.75 | 47.93 |
| 14 2 | 2 m (6.56 ft) | 51 m (167.28 ft) | 49 m (160.72 ft) | 43.04 | 1.06 | 5.18 | 0.74 | 48.55 |
| 142A | .35 m (1.15 ft) | 36 m (118.08 ft) | 35.65 m (116.93 ft) | 41.83 | 1.5 | 6.83 | 0.93 | 46.91 |
| 14 3 | 2.8 m (9.18 ft) | 9 m (29.52 ft) | 6.2 m (20.34 ft) | 41.04 | 1.16 | 8.33 | 0.98 | 46.05 |
| 14 3 | 21 m (68.88 ft) | 63 m (206.64 ft) | 42 m (137.76 ft) | 41.52 | 1.33 | 6.49 | 0.88 | 47.44 |
| 14 4 | 0.8 m (2.62 ft) | 9 m (29.52 ft) | 8.2 m (26.9 ft) | 43.2 | 1.24 | 4.12 | 0.86 | 48.64 |
| 14 4 | 21 m (68.88 ft) | 66 m (216.48 ft) | 45 m (147.6 ft) | 41.92 | 2.08 | 4.71 | 0.77 | 48.54 |
| 14 5 | 24 m (78.72 ft) | 71.63 m (234.94 ft) | 47.63 m (156.23 ft) | 41.48 | 1.64 | 6.87 | 0.78 | 47.5 |
| 14 6 | 3 m (9.64 ft) | 18 m (59.04 ft) | 15 m (49.2 ft) | 42.62 | 1.92 | 5.54 | 0.86 | 47.48 |
| 14 6 | 30 m (98.4 ft) | 36.58 m (119.98 ft) | 6.58 m (21.58 ft) | 41.92 | 0.69 | 9.01 | 0.97 | 45.53 |
| 14 7 | .2 m (0.67 ft) | 54 m (177.12 ft) | 53.8 m (176.46 ft) | 43.1 | 1.17 | 4.93 | 0.93 | 47.13 |

The magnesium oxide content ranging from 41.04-43.2% MgO from 6.2-54 m (20.34-177.12 ft) sample length intervals in drill core are encouraging for development of magnesite resources on the Driftwood East Zone The relatively high SiO2 content (4.12-9.01%) can be removed by flotation process (source: SGS Lakefield 2008, Mineral Processing Report of Driftwood Magnesite). The other compounds of interest (MgO, CaO, Fe2O3) approach specifications required for producing calcined or deadburned magnesite that are suitable materials for export markets.

## 1.0 Introduction

This technical report has been prepared on behalf of MGX Minerals Inc, and describes geological, geochemical and drilling work done on the Driftwood Creek magnesite mineral occurrence.

## 2.0 Location, Access, Infrastructure, & Physiography

The Driftwood Creek Magnesite property is located approximately 53 kilometres southeast of Golden, B.C., and approximately 164 kilometres northwest of Cranbrook, B.C. (Figure 1). The property is located on NTS map sheet 082K/15E and on TRIM map sheet 082K 098.The Driftwood Creek Magnesite showing is located at Latitude 50°54' 16" N and Longitude 116°34' 34" W. The property covers a northwest trending ridge that is located between Driftwood and Bobbie Burns Creeks in the Golden Mining Division of southern British Columbia, Canada. (Figure 2). The property covers part of a prominent isolated ridge that trends about 115° azimuth between Driftwood Creek to the south and Bobbie Burns Creek to the north (Figure 2). Topography is moderate except for the magnesite itself which locally forms steep cliffs more than 15m (50 ft) high on both the north and south sides of the deposit. East of the claims and the magnesite, the host dolomite continues as a prominent ridge. Elevations on the claim block range from 1190 to 1370 meters.

The Driftwood Creek Magnesite property can be accessed from either Brisco or Spillimacheen, both of which are located on paved Interprovincial Highway 95 east of the property. From Brisco the Bugaboo Creek and Driftwood Creek Forest Service Roads (FSR) are followed for about 39 km. From here a 1 km access trail leads onto the western edge of the magnesite deposit. There is good infrastructure in the form of paved highways, a CPR spur line and a major power line all of which are within 15 kilometres of the property.

Magnesite weathers prominently and the Driftwood Creek deposit is well exposed as an isolated ridge within relatively low valley bottom topography, at an elevation of 1250 meters. Numerous cliff exposures are present, with some cliff walls greater than 15 meters (50 feet) high. A series of cross-cutting faults produce some offset of geologic contacts but displacement is minor.

Vegetation on the property consists mainly of Lodgepole Pine with lesser Douglas Fir and Western Yellow Larch, with minor birch and aspen.
The nearest towns are Brisco and Spillimacheen on Highway 95. These are small towns with limited resources. The nearest population centers with significant services are Golden, population 4200, a road distance of approximately 97 kilometres to the northwest and Invermere, population 3000, a road distance of approximately 67 kilometres to the southeast (Figure 3). Radium Hot Springs, population 900, is also close to the property but it is primarily a tourist town with limited services. Both Golden and Invermere have hotels, grocery stores, hardware stores, gas stations, medical services and heavy equipment service companies that work in the logging industry. Helicopter charters are also available from both communities. The property is 53 kilometres by air from Golden and 57 kilometres by air from Invermere.

Both Golden and Invermere are on paved Interprovincial Highway 95 and a CPR railway spur line serving the southeast B.C. coal fields that runs up the Southern Rocky Mountain Trench and parallels the Columbia River. Golden is on the Trans-Canada Highway and the CPR main line. A power transmission line parallels Highway 93 and is located approximately 14 kilometres due east of the Driftwood Creek property.

### 3.0 Property Status

The Driftwood Creek Magnesite claim group consists of five (5) contiguous mineral tenures (listed below) that are located within the Golden Mining Division (Figure 2).

| Tenure number | Claim Name | Issue Date | Good To Date | Area in hectares |
|---|---|---|---|---|
| 511333 | | 2005/apr/21 | 2024/sep/04 | 224.17 |
| 511335 | | 2005/apr/21 | 2024/sep/04 | 40.76 |
| 1027955 | Driftwood Road W | 2014/apr/30 | 2024/apr/30 | 61.13 |
| 1032687 | Driftwood East B | 2014/sep/07 | 2024/sep/07 | 122.31 |
| 1032688 | Driftwood East A | 2014/sep/07 | 2024/sep/07 | 61.14 |

The total area of the mineral tenures that comprise the property is 509.51 hectares (1,259.02 acres). Details of the status of tenure ownership for the Driftwood property were obtained from the Mineral-Titles-Online (MTO) electronic staking system managed by the Mineral Titles Branch of the Province of British Columbia. This system is based on mineral tenures acquired electronically online using a grid cell selection system. Tenure boundaries are based on lines of latitude and longitude. There is no requirement to mark claim boundaries on the ground as these can be determined with reasonable accuracy using a GPS. The Driftwood Creek Magnesite claims have not been surveyed.

The mineral tenures comprising the Driftwood Creek Magnesite property are shown in Figure 2. The claim map shown in Figure 2 was generated from GIS spatial data downloaded from the Government of BC GeoBC website. These spatial layers are the same as those incorporated into the Mineral-Titles-Online (MTO) electronic staking system that is used to locate and record mineral tenures in British Columbia. Information posted on the MTO website indicates that mineral tenures 511333 and 511335 are owned 33% by Peter Klewchuk, 33% by Glen Munro Rodgers and 34% by Andris Arturs Kikauka whereas mineral tenure 1027955 is owned 100% by Mr. Rodgers, and mineral tenure 1032687 & 1032688 are owned 100% by Mr Kikauka. The mineral tenures are under option to MGX Minerals Inc. ("MGX") as outlined in an agreement signed on the July 7, 2014 between MGX and the property owners (P. Klewchuk, G. Rodgers and A. Kikauka). The option agreement specifies that MGX can earn a 90% interest in the Driftwood Creek property by completing $300,000 in exploration expenditures, making payments of $50,000 to the property owners and issuing 900,000 common shares to the owners prior to July 1, 2017.

There has not been any mining or other exploration related physical disturbances on the Driftwood Creek Magnesite property that would be considered an environmental liability. The author is not aware of any environmental issues or liabilities related to historical exploration or mining activities that would have an impact on future exploration of the property

## 4.0 Driftwood Property History

Magnesite was first discovered in the Brisco area in the 1960's and a series of small deposits are described by McCammon (1965) in British Columbia Minister of Mines Annual Report for 1964. The Driftwood Creek Deposit is not included in McCammon's summary but was evidently discovered about this time as it was first staked in 1968.

In 1978, Kaiser Resources Ltd acquired the Driftwood Creek deposit and carried out a program of surface geologic mapping and some very minor and poorly-documented diamond drilling. From their surface work, a resource of 22,500,000 tonnes of magnesite was inferred (using a specific gravity of 2.5). This resource estimate is not NI43-101 compliant. Publicly-available reports indicate some minor diamond drilling was done, but no data is provided. According to Rodgers (1989) Kaiser drilled 12 short holes between 0.6 to 2.0 metres deep using a small plugger type drill in order to test near surface purity. The property was held for ten years, and then the claims were allowed to expire.

Magnesite has been mapped over a strike length of 1900 meters and maximum width of about 220 meters. The magnesite occurs at surface in two discrete bodies; a larger 'Western Magnesite' and a smaller 'Eastern Magnesite'. The deposits have been folded into a series of anticline-syncline pairs that trend northwest along the ridge crest.

Two previous studies of the Driftwood Creek magnesite deposit have estimated tonnages, based primarily on surface mapping. These resource estimates are not NI43-101 compliant and cannot be relied upon. Kaiser Resources inferred 22,500,000 tonnes of magnesite using a specific gravity of 2.5 while Canadian Occidental inferred a resource of 29,400,000 tonnes using a specific gravity of 3.0.

From the southwest edge of the Driftwood mineral property, a 1 km access trail leads onto the western edge of the magnesite deposit and to the site of a small quarry where Kaiser Resources Ltd excavated a small bulk sample in 1978. A new road was built from this point in 2008 to provide access to both the Western and Eastern magnesite deposits.

In 1987, the Driftwood Creek magnesite deposit was staked by Canadian Occidental Petroleum Ltd. ('Canoxy'). In 1989, a 2500 metre baseline was established at azimuth 115° that was parallel to the magnesite area shown in Figure 4 (Rodgers, 1989). Cross lines at 100 metres spacing were established across the magnesite and ranged from 50-500 metres in length. The lines were flagged at 50 metre intervals. This survey grid was used to do geological mapping and build cross sections at 1:2,000 and 1:1,000 scales As part of the geologic mapping program, a total of 68 – 5 kilogram samples of magnesite were also collected along 17 cross-section survey lines. Samples were analyzed by Chemex Laboratories Ltd., Vancouver B.C. The analyses were done for $SiO_2$, $Al_2O_3$, $Fe_2O_3$, MgO, CaO, $Na_2O$, $K_2O$, $TiO_2$, $P_2O_5$, MnO, BaO and L.O.I. As well, a "dead-burned" assay was done for each sample. This involves analysis for %MgO after roasting at 1000°C for an hour. In 1990, Canadian Occidental did 219.8 metre of NQ diamond drilling in 4 holes (Figure 4). This drilling targeted the Eastern magnesite deposit. Drill core was split on site and samples taken at 1.5 metre intervals. Only sections through the magnesite were sampled. The core samples were shipped to Chemex Labs Ltd. in North Vancouver and were analysed for major oxides and loss on ignition (LOI). As well,

a "dead-burned" assay was done for each sample. This involved analysis for %MgO after roasting at 1000°C for one hour.

In 1999, the magnesite ridge was staked by the present owners and some additional rock geochemistry was completed on part of the Western magnesite (Kikauka, 2000). This work involved sampling along north and northeast trending lines over exposed outcrop in ten locations within a 325 X 125 m. area (Kikauka, 2000). Weighted average values ranged from 41.1 to 45.5% for MgO and 0.4 to 8.3% for $SiO_2$.

Additional geochemistry, along with bulk sampling and access trail construction, was conducted in 2001 (Klewchuk, 2002). Twenty samples collected in 2001 provided the following range of values:

Oxide Range of values
MgO 39.98 to 44.42%
$SiO_2$ 2.48 to 13.1%
$Al_2O_3$ 0.05 to 1.11%
$Fe_2O_3$ 0.71 to 1.11%
CaO 0.34 to 3.21%
$TiO_2$ <0.01 to0.1%
$P_2O_5$ 0.09 to 0.19%
MnO 0.02 to 0.04%
$Cr_2O_3$ 001 to 0.12%

A total of 911 metres of diamond drilling in 11 drill holes has been done on the Driftwood Creek magnesite property. The first drilling was done in 1990, by Canadian Occidental. This work targeted the Eastern Magnesite deposit. The 2008 diamond drilling was done by Tusk Exploration Ltd. and targeted the Western Magnesite deposit. Drilling indicates that there are zones of impurity especially at the base of the magnesite where it is in contact with underlying dolomite. Above this basal zone the grade and purity improves, approaching nearly pure magnesite in places

In 2008 SGS Lakefield Research conducted a beneficiation study on samples from the Driftwood Creek magnesite deposit (Rodgers, 2008). This work was done on behalf of Tusk Exploration Ltd. The objective of this work was to perform a metallurgical assessment of the Driftwood Creek magnesite deposit. The results of this study are contained in a report date June 24, 2008 and authored by M. Aghamirian and D. Imeson. The first phase of beneficiation studies on two composite samples of magnesite, one each from the Western and Eastern deposits, was done by SGS. The objective of this work was to develop a process to recover magnesite from the "ore". A preliminary flotation flow sheet and reagent scheme was developed. This flow sheet consisted of pyrite and silicate flotation circuits. Magnesite concentrate was recovered as silicate flotation tailings. The magnesite recoveries from the Western and Eastern zone composites using reverse flotation were 91 and 92% respectively (Aghamirian and Imeson, 2008).

Aghamirian and Imeson (2008) derived the following conclusions from the results obtained;
- The "ore" has a high magnesite grade estimated at 93.4% for the Eastern deposit and

86.3% for the Western deposit. It responded well to beneficiation by silicate flotation with the magnesite concentrate generated as a silicate tailings.

- Efforts to reduce the iron coutent of the magnesite concentrate were not suecessful possibly due to the presence of iron in magnesite crystal structure as solid solution;
- Heavy media separation can be considered as a potentially suitable process for primary upgrading to reject a large portion of silicate minerals at approximately 73 to 80% and calcite at nearly 40% in a coarse fraction;
- Grinding and screening to different fractions, failed to generate an acceptable magnesite concentrate.
- High intensity dry and wet magnetic separations were tired to separate iron containing minerals. These methods failed to perform a reasonable tasks to reduce iron content of the magnesite concentrate.

Aghamirian and Imeson (2008) go on to state that the flowsheet and reagent scheme developed in the investigation was preliminary in nature, and more detailed test work should be conducted to optimize the floatation process.

In the fall of 2008, a program of trail access construction and diamond drilling was also completed on the property. This work was under the direction of Peter Klewchuk, P.Geo., on of the property owners, on behalf of Tusk Exploration Ltd. of Vaneouver, B.C. Trails were constructed from existing access at the west end of the magnesite ridge onto the Western Magnesite where the thickest zone of magnesite exists and additional trail was constructed to access the Eastern Magnesite. In total about 3300 meters of trail was constructed. In late October and early November, seven NQ diamond drill holes were completed from an area near the thickest part of the Western Magnesite, for a total of 692 meters of diamond drilling. Core from this drilling was bagged and prepared for shipment to a laboratory but was never submitted. This core was subsequently analyzed by Torch River Resources in 2012 who were considering an option on the property. Torch River decided not to proceed with the option.

## 5.0 Regional Geology

The Driftwood Creek magnesite deposit is hosted by the Helikian (Precambrian) age Mount Nelson Formation, part of the Purcell Supergroup. The Mount Nelson Formation is about 1300 meters (4300 feet) thick and includes mainly dolomitic and quartzitic units with minor Argillite (Fig 3). The magnesite occurs in the upper part of the formation. The Driftwood Creek deposit is classified as a stratabound Sparry Magnesite deposit that is most likely of an evaporitic origin. Lithological units in the area of Driftwood Creek are described as follows:

**LITHOLOGY LEGEND**

**CmOM** Cambrian to Ordovician McKay Grp
Mudstone, siltstone, shale

**uPrHsc** Upper Proterozoic Horsethief Ck Grp
coarse clastic sedimentary rocks

**uPrWT** Upper Proterozoic Windmere Supergroup
Toby Fm conglomerate, coarse clastic sediments

**mPrPM** Middle Proterozoic Purcell Supergroup
Mt Nelson Fm quartzite, quartz arenite,
dolomite, magnesite, argillite

The area of the Driftwood Creek magnesite deposit was first mapped by Reesor (1973), although the magnesite deposits west of Brisco are not included in his work. The following regional geologic information is extracted from Simandl and Hancock (1991).
The Brisco and Driftwood Creek deposits are situated west of the Southern Rocky Mountain Trench fault (Figure 6). They are hosted by dolomites of the Middle Proterozoic (Helikian) Mount Nelson Formation of the Purcell Supergroup within the Purcell anticlinorium. Stratigraphic sections applicable to the area of the magnesite deposits were established by Walker (1926), Reesor (1973) and Bennett (1985). The geology of the Toby and Horsethief Creek areas has been described by Pope (1989, 1990). The upper part of the Mount Nelson Formation hosts the magnesite deposits.

The Mount Nelson Formation, is separated from the overlying Toby Formation of the Windermere Supergroup (Hadrinian) by an unconformity (Reesor, 1973; Pope 1989). This unconformity records East Kootenay orogenic events of regional uplift & thermal metamorphism dated at 750-850 Ma & submarine volcanics within the Purcell anticlinorium (Pope, 1989).

The magnesite deposits are located within an area affected by low-grade regional metamorphism (Reesor, 1973; Bennett, 1985). All known magnesite occurrences are located outside the contact metamorphic aureole of Mid Cretaceous intrusions.

In the Toby-Horsethief Creek map area the Mount Nelson Formation is at least 1320 metres thick and is the uppermost unit of the Purcell Supergroup (Pope, 1990). It is divided into seven members. The descriptions below, in order from oldest to youngest are summarized from Pope (1990). The "lower quartzite" is 50 to 150 metres thick, white, well sorted, thin-bedded (<20 cm), ripple laminated, fine to medium-grained quartz arenite. The "lower dolomite sequence" is characterized by its grey colour and light grey weathering surface, laminated beds 20 to 50 centimetres thick, soft sediment features, cryptalgai laminations and laterally linked hemispherical stromatolites. This dolomite also contains black argillite layers 1 to 2 centimetres thick and oolitic laminae. The top of the sequence is the cream coloured, cherty "cream marker dolomite" which is approximately 20 metres thick.

The "middle dolomite sequence" comprises the "middle quartzite", "orange dolomite" and "white markers". The "middle quartzite" is characterized by apple green colour. It consists of graded, crossbedded and massive arenites, siltstones and argillites. Beds are 10 to 50 centimetres thick with undulate bases and truncated tops. The orange dolomite consists of well-bedded silty or light beige to dark grey dolomites weathering orange-brown or orange-buff. Stromatolitic textures, cryptalagal lamination, chert intercalations, halite casts, solution-collapse breccias and dewatering features have been described in this unit. The stromatolitic dolomite most commonly forms the footwall to the Driftwood Creek magnesite deposit (Simandl and Hancock, 1992).

The "white markers" sequence is less than 70 metres thick and conformably overlies the orange dolomite. It consists of cream to medium grey dolomites and locally contains white magnesite beds up to 1 metre thick as well as purple, green and buff dolomitie mudstones and beds with dolomite-replaced halite crystals. It is assumed that the Driftwood Creek magnesite deposit occurs at this stratigraphic level.

The "purple sequence" conformably overlies the white markers. It consists of dolomites as well as dolomitic siltstones and sandstones consisting of 20 percent quartz, 70 percent dolomite and 10 percent hematite. These rocks contain halite casts and grade upward into purple shales with green reduction spots. Several mud chip breccias and monomictic conglomerates occur within this sequence. The upper part of the purple sequence is referred to as "purple shale unit". It consists of purple argillites with or without green reduction spots and laminae. The purple sequence is separated from the overlying upper middle dolomite by a conglomerate consisting of angular to rounded dolomite and quartzite clasts of variable dimensions, cemented by purple sandy argillite

The "upper middle dolomite" is 80 metres thick and similar to the lower main dolomite, however it contains abundant allochems (oncolites and oolitic peloidal and pisolitic laminations) replaced by chert. The "upper quartzite" is over 260 metres thick. It is a cliff-forming well-sorted, quartz cemented and medium to coarse-grained arenite, characterized by massive bedding and poorly preserved sedimentary features. The "upper dolomite" has a conformable gradational contact with upper quartzite. Pale beige to dark grey, dolomite beds, 10 to 50 centimetres thick, are interbedded with quartz and dolomite-pebble conglomerates and dolomitic sandstones. The unit is characterized by abundant chert layers, cryptalgal structures replaced by black chert and by a distinctive, laminated, strongly contorted and locally brecciated blue-grey dolomite. The contact with underlying quartzite is transitional and consists of interbeds of purple argillite, quartzite and dolomite.

The earliest tectonic event in the area responsible for the syncline/anticline development within the Purcell Supergroup is likely related to formation of the Rocky Mountain fold and thrust belt in Late Cretaceous to Early Tertiary time. The northwest trending fault which parallels the Spillimacheen River, 4 kilometres north of the claims (Rodgers, 1990) probably formed at this time. The magnesite ridge, which trends the same as the main syncline/anticline axes (115 degrees) is frequently cut by north-northeast trending cross-faults of uncertain age.

The Driftwood Creek magnesite deposit is hosted by the Helikian (Precambrian) age Mount Nelson Formation, part of the Purcell Supergroup. The Mount Nelson Formation is about 1300 meters (4300 feet) thick and includes mainly dolomitic and quartzitic units with minor argillite.. According to Simandl and Hancock (1992), magnesite and sparry carbonate form stratabound lenses and pockets within the "white marker beds" subdivision of the "middle dolomite" unit of the upper Mount Nelson Formation at the Driftwood Creek property. The magnesite is either white, pale grey or beige and weathers buff. The unit is characterized by coarse to sparry crystals and locally contains light green interbeds less than 1 centimetre in thickness. The interbeds are either regular or disrupted by growth of sparry magnesite crystals within the coarsest magnesite-rich zones (Simandl and Hancoek, 1992). Vestiges of hemispherical stromatolites are observed locally in finer-grained magnesite-bearing rocks. Chert, quartz veinlets and dolomite are the most common impurities especially within the lower part of the magnesite deposit. Calcite, pyrite and talc are typically present in trace amounts. The abundance and proportion of impurities change irregularly both along strike and across bedding (Simandl and Hancock, 1992).

Magnesite weathers prominently and the Driftwood Creek deposit is well exposed as an isolated ridge within relatively low valley bottom topography, at an elevation of 1250 meters (Klewchuk, 2010). Numerous cliff exposures are present, with some cliff walls greater than 15 meters (50 feet) high. A series of cross-cutting faults produce some offset of geologic contacts but displacement is minor.

## 6.0 2015 Field Program

### 6.1 Scope & Purpose

The 2014 drilling was carried out in order to define industrial mineral resources in a 100 X 300 m area of the west portion of Driftwood East Magnesite in the area where Canadian Occidental drilled 4 holes in 1990. The results of 2014 drilling are planned for use to define a NI 43-101 compliant resource estimate on behalf of MGX Minerals Inc.

### 6.2 Methods and Procedures

The 2014 drilling program involved a total of 8 drill holes and 437.52 m (1,435.1 ft) total depth of BQTW core (42 mm, or 1.65 inches diameter). By contract agreement, Neill's Mining Ltd, Burns Lake provided a Longyear 28 drill, and Woodside Excavating Ltd, Langley provided a Bobcat for access trails, drill moves and reclamation. The core was tabled, photographed and logged by the author (Appendix C). A screw feed-blade equipped core splitter was used to split the core in half. Each piece of core was split, and half of the core was placed in marked poly ore bags at 3 metre intervals and shipped to ALS Minerals, in Kamloops/North Vancouver. The other half of the core was placed in a duplicate orientation position back into the core box for storage. The 2014 core is stored at the 'Vine' (local drill core depository) near Cranbrook.

A total of 14 rock chip samples were taken across 3 meter intervals along exposures of bedrock in the West and East Magnesite Zones (Fig 4, 6). Rock chip samples were taken with rock hammer and chisel and consist of acorn to walnut sized bedrock pieces for a total weight ranging from 1.35 to 2.98 kgs. Sample material was placed in marked poly ore bags at 3 metre intervals and shipped to ALS Minerals, in Kamloops/North Vancouver.

Samples submitted to ALS Minerals consist of 142 split core, 14 rock chip, and 7 blank samples. The blank samples were inserted in the sample stream every 20 samples in order to verify data from the lab. The 7 blank samples consisted of 0.84 to 1.4 kg size of rock chips from a nearly pure boulder of magnesite and were inserted for QA/QC protocol.

ALS Minerals crushed, split and pulverized samples using prep-31 code. This involves crushing to better than 70% passing a 2 mm screen. A split of 250 grams is pulverized to better than 85% passing a 75 micron screen. The sample pulp is analyzed using ME-XRF-06 (XRF-26) Li borate flux major oxide whole rock geochemical analytical methods (Appendix B).

## 6.3 Property Geology & Mineralization

Magnesite has been mapped over a strike length of 1900 meters and maximum width of about 220 meters (Klewchuk, 2010). The magnesite occurs at surface in two discrete bodies; a larger 'Western Magnesite' and a smaller 'Eastern Magnesite'. Freshly broken magnesite is typically a milky white color but weathers to a pale yellow to slightly pinkish color. Exposures of magnesite are commonly coated with a black lichen which appears to locally favour this rock type. The host dolomite to the south of the Eastern Magnesite is a much darker buff to reddish brown color while the (silty and cherty) dolomite to the north of the thicker Eastern Magnesite is a medium gray color. Where magnesite contacts with dolomite are exposed, they tend to be quite sharp and are easily recognized.

Even where bedding transgressive contacts exist, the boundary tends to be fairly sharp (Klewchuk, 2010). Texture of the magnesite is variable, ranging from fine and medium grained to very coarse grained. Most of the deposit is of medium and fine-grained texture with irregular patches of more coarse-grained texture. Areas of coarse-grained magnesite appear to be irregularly developed within the area of exposed magnesite and are not obviously related to any structure. Thin quartz veins occur as metamorphic sweats, and are irregularly distributed through the magnesite, in a near-ubiquitous manner, although the concentration of quartz veins does vary. The more prominent quartz veins and quartz vein swarms tend to be oriented from N15°E to N60°E. Similar quartz veins are present in the host dolomite (seen mainly to the south of the Eastern Magnesite) indicating these quartz veins are not related to development of the magnesite.

A total of 911 metres of diamond drilling in 11 drill holes has been done on the Driftwood Creek magnesite property. The first drilling was done in 1990, by Canadian Occidental. This work targeted the Eastern Magnesite deposit. The 2008 diamond drilling was done by Tusk Exploration Ltd. and targeted the Western Magnesite deposit. Previous drill hole collar data is listed as follows:

**List of 1990 & 2008 diamond drill holes, Driftwood Creek property.**

| Hole | Easting | Northing | Elevation | Azimuth | Dip | Length(m) |
|---|---|---|---|---|---|---|
| 90-1 | 531327 | 5639108 | 1400 | 25 | -80 | 39.9 |
| 90-2 | 531328 | 5639113 | 1400 | 25 | -50 | 47.6 |
| 90-3 | 531512 | 5638945 | 1410 | 25 | -45 | 61 |
| 90-4 | 531406 | 5639034 | 1410 | 25 | -45 | 71.9 |
| MG-08-1 | 530427 | 5639563 | 1375 | 236 | -46 | 141.5 |
| MG-08-2 | 530490 | 5639481 | 1386 | 210 | -46 | 133.5 |
| MG-08-3 | 530578 | 5639391 | 1389 | 210 | -44 | 52.2 |
| MG-08-4 | 530612 | 5639469 | 1393 | 215 | -44 | 82.7 |
| MG-08-5 | 530611 | 5639465 | 1393 | 139 | -49 | 99.4 |
| MG-08-6 | 530555 | 5639498 | 1383 | 210 | -46 | 100 |
| MG-08-7 | 530477 | 5639524 | 1383 | 215 | -47 | 82.7 |

Drilling indicates that there are zones of impurity especially at the base of the magnesite where it is in contact with underlying dolomite. Above this basal zone the grade and purity improves, approaching nearly pure magnesite in places

Two previous studies of the Driftwood Creek magnesite deposit have estimated tonnages, based primarily on surface mapping. These resource estimates are not NI43-101 compliant

and cannot be relied upon. Kaiser Resources (Morris, 1978) inferred 22,500,000 tonnes of magnesite using a specific gravity of 2.5 while Canadian Occidental (Rodgers, 1989) inferred a resource of 29,400,000 tonnes using a specific gravity of 3.0.

The Driftwood Creek and Brisco magnesite occurrences are classified as Sparry Magnesite deposits (E09) by the B.C. Ministry of Energy and Mines (Simandl and Hancock, 1998). This deposit type is characterized by stratabound and typically stratiform, lens-shaped zones of coarse-grained magnesite mainly occurring in carbonates but also observed in sandstones or other clastic sediments. Magnesite exhibits characteristic sparry texture.

There are two preferred theories regarding the origin of sparry magnesite deposits:

1. Replacement of dolomitized, permeable carbonates by magnesite due to interaction with a metasomatic fluid.

2. Diagenetic recrystallization of a magnesia-rich protolith deposited as chemical sediments in marine or lacustrine settings. The sediments would have consisted of fine-grained magnesite, hydromagnesite, huntite or other low temperature magnesia-bearing minerals.

The main difference between these hypotheses is the source of magnesia; external for metasomatic replacement and in situ in the case of diagenetic recrystalization. Temperatures of homogenization of fluid inclusions constrain the temperature of magnesite formation or recrystalization to 110° to 240°C. In British Columbia the diagenetic recrystalization theory may best explain the stratigraphic association with gypsum and halite casts, correlation with paleotopographic highs and unconformities, and shallow marine depositional features of the deposits (Simandl and Hancock, 1998).

All the magnesite deposits in the Brisco and Driftwood Creek area are located within the upper half of the Mount Nelson Formation. Most are lenticular and seem to form chains as illustrated by the Driftwood Creek deposits. All deposits are stratigraphically associated with red to purple dolomites, cherty dolomites, stromatolitic dolomites, dissolution breccias and other rocks containing dolomite pseudomorphs after halite and lenticular gypsum crystals. Locally, stromatolitic textures are preserved, even within magnesite-bearing rocks.

Canadian Occidental did 219.8 metre of NQ diamond drilling in 4 holes (Figure 9) in 1990. This drilling targeted the Eastern magnesite deposit. Drill core was split on site and samples taken at 1.5 metre intervals. Only sections through the magnesite were sampled. The core samples were shipped to Chemex Labs Ltd. in North Vancouver and were analysed for major oxides and loss on ignition (LOI). As well, a "dead-burned" assay was done for each sample. This involved analysis for %MgO after roasting at 1000°C for one hour. Rodgers (1990) suggested that an "ore grade" cutoff would be greater than 87% dead-burned MgO (MgO*), less than 2.1% $Al_2O_3$ and less than 3.0% $SiO_2$. Based on these criteria the drill interseetions listed in Table 4 from the 1990 drilling program would be considered "ore grade". Note that pure magnesite, $MgCO_3$, has a theoretical magnesia (MgO) content of 47.61%. Some of the samples listed below approach this magnesia content indicating some very high grade magnesite occurs in the Eastern Magnesite deposit.

**High grade magnesite drill hole intersections from the 1990 drilling program.**

| HoleSampleNo. | From(m) | To(m) | Length | MgO% | Al2O3% | SiO2% | MgO*% |
|---|---|---|---|---|---|---|---|
| 90-1 421901 | 6.71 | 7.62 | 0.91 | 46.17 | 0.25 | <0.01 | 91.5 |
| 90-1 421902 | 7.62 | 9.14 | 1.52 | 45.02 | 0.71 | <0.01 | 88.1 |
| 90-2 421914 | 7.62 | 9.14 | 1.52 | 46.77 | 0.23 | 0.40 | 87.9 |
| 90-2 421915 | 12.19 | 13.72 | 1.52 | 44.61 | 0.41 | 1.48 | 89.2 |
| 90-2 421916 | 16.76 | 18.29 | 1.52 | 44.51 | 0.78 | 0.98 | 88.7 |
| 90-2 421917 | 18.29 | 19.81 | 1.52 | 44.47 | 0.53 | 0.96 | 88.7 |
| 90-2 421918 | 19.81 | 21.34 | 1.52 | 45.14 | 0.48 | 1.67 | 88.8 |
| 90-2 421919 | 21.34 | 22.86 | 1.52 | 45.29 | 0.66 | 1.82 | 87.2 |
| 90-2 421920 | 22.86 | 24.38 | 1.52 | 45.43 | 0.36 | 2.02 | 90.2 |
| 90-2 421921 | 24.38 | 25.91 | 1.52 | 44.73 | 0.40 | 1.77 | 88.5 |
| 90-2 421922 | 25.91 | 27.43 | 1.52 | 44.30 | 0.65 | 0.56 | 87.9 |
| 90-2 421923 | 27.43 | 28.96 | 1.52 | 41.10 | 0.35 | 0.33 | 89.5 |
| 90-2 421925 | 30.48 | 32.00 | 1.52 | 42.47 | 0.26 | 0.14 | 89.1 |
| 90-2 421928 | 35.05 | 36.58 | 1.52 | 47.23 | 0.41 | 0.53 | 89.6 |
| 90-2 421929 | 36.58 | 38.10 | 1.52 | 43.49 | 0.47 | 1.35 | 89.2 |
| 90-4 421723 | 15.24 | 16.76 | 1.52 | 44.89 | 0.12 | 1.19 | 87.9 |
| 90-4 421726 | 19.81 | 21.34 | 1.52 | 45.16 | 0.79 | 1.66 | 87.0 |
| 90-4 421729 | 24.38 | 25.91 | 1.52 | 45.68 | 0.05 | 0.73 | 89.4 |
| 90-4 421730 | 25.91 | 27.43 | 1.52 | 46.05 | 0.12 | 0.80 | 90.0 |
| 90-4 421731 | 27.43 | 28.96 | 1.52 | 43.59 | 0.82 | 2.56 | 90.5 |
| 90-4 421732 | 28.96 | 30.48 | 1.52 | 42.74 | 0.76 | 4.10 | 89.4 |
| 90-4 421733 | 30.48 | 32.00 | 1.52 | 43.24 | 0.73 | 3.62 | 90.7 |
| 90-4 421734 | 32.00 | 33.53 | 1.52 | 43.15 | 0.78 | 3.31 | 89.4 |
| 90-4 421735 | 33.53 | 35.05 | 1.52 | 43.60 | 0.92 | 2.80 | 89.6 |
| 90-4 421736 | 35.05 | 36.58 | 1.52 | 43.61 | 0.88 | 2.96 | 89.4 |
| 90-4 421738 | 38.10 | 39.62 | 1.52 | 43.97 | 0.58 | 2.72 | 90.7 |
| 90-4 421739 | 39.62 | 41.15 | 1.52 | 43.98 | 0.38 | 2.25 | 91.5 |
| 90-4 421740 | 41.15 | 42.67 | 1.52 | 44.08 | 0.66 | 2.64 | 91.1 |
| 90-4 421741 | 42.67 | 44.20 | 1.52 | 42.78 | 1.03 | 4.31 | 89.8 |

A fine-grained intrusive sill was intersected near the bottom of drill holes 90-1 and 90-2. A similar rock was exposed on surface during road construction. It is of unknown thickness but according to Rodgers (1990a) is likely on the order of 9 metres thick. This rock unit appears to dip 15-20 degrees to the south and may underlie most of the Eastern Magnesite. Rodgers (1990a) speculates that this intrusive body may be the heat source that has produced recrystallization of the Eastern Magnesite body. Mafic trachyte sills or dykes were also intersected. The 1990 drilling results also showed that there is a higher concentration of silica and alumina along the bottom contact of the magnesite with the dolomite. The best magnesite grades appear to be in the core of the syncline that forms the Eastern Magnesite deposit. The iron oxide content is generally less than 1% overall. In addition to the standard major oxide and LOI determinations, the core samples were also "dead-burned". As pointed out by Rodgers (1990a) the procedure used by Chemex actually implies only a caustic-calcined level of calcination as the maximum temperature possible in the laboratory setting was 1000 degrees Celsius. Ideally a temperature of 1450 degrees Celcius is required to obtain a proper "dead-burned" assay. Rodgers (1990a) suggested that the "dead-burned" MgO values obtained by Chemex could have been somewhat higher if it were possible to attain the higher temperature in the lab.

## 6.4 Drilling 2014

A total of 437.52 m (1,435.07 ft) from 8 holes drilled in a 100 X 300 m area were located along the ridge top in the area of the Driftwood East Zone (Fig 6, 7). Also, a total of 14 rock chip samples across a width of 42 m (137.75 ft) were taken near the west portion of the East Zone, and one sample from the West Zone(Fig 4, 6).

Drill core was split at 3 m (9.84 ft) intervals and sampled using quality control/quality assurance protocol defined by NI 43-101. The samples were analyzed using Li Borate fusion, whole rock analysis ME-XRF-06 (XRF26), performed by ALS Minerals, Kamloops/North Vancouver, BC.

Highlights of significant results are listed as follows:

| DDH # | From m (ft) | To m (ft) | length m (ft) | MgO % | CaO % | SiO2 % | Fe2O3 % | LOI % |
|---|---|---|---|---|---|---|---|---|
| 14 1 | 1 m (3.28 ft) | 27 m (88.56 ft) | 26 m (85.28 ft) | 42.55 | 0.75 | 5.86 | 0.75 | 47.93 |
| 14 2 | 2 m (6.56 ft) | 51 m (167.28 ft) | 49 m (160.72 ft) | 43.04 | 1.06 | 5.18 | 0.74 | 48.55 |
| 142A | .35 m (1.15 ft) | 36 m (118.08 ft) | 35.65 m (116.93 ft) | 41.83 | 1.5 | 6.83 | 0.93 | 46.91 |
| 14 3 | 2.8 m (9.18 ft) | 9 m (29.52 ft) | 6.2 m (20.34 ft) | 41.04 | 1.16 | 8.33 | 0.98 | 46.05 |
| 14 3 | 21 m (68.88 ft) | 63 m (206.64 ft) | 42 m (137.76 ft) | 41.52 | 1.33 | 6.49 | 0.88 | 47.44 |
| 14 4 | 0.8 m (2.62 ft) | 9 m (29.52 ft) | 8.2 m (26.9 ft) | 43.2 | 1.24 | 4.12 | 0.86 | 48.64 |
| 14 4 | 21 m (68.88 ft) | 66 m (216.48 ft) | 45 m (147.6 ft) | 41.92 | 2.08 | 4.71 | 0.77 | 48.54 |
| 14 5 | 24 m (78.72 ft) | 71.63 m (234.94 ft) | 47.63 m (156.23 ft) | 41.43 | 1.64 | 6.87 | 0.78 | 47.5 |
| 14 6 | 3 m (9.64 ft) | 18 m (59.04 ft) | 15 m (49.2 ft) | 42.62 | 1.92 | 5.54 | 0.86 | 47.48 |
| 14 6 | 30 m (98.4 ft) | 36.58 m (119.98 ft) | 6.58 m (21.58 ft) | 41.92 | 0.69 | 9.01 | 0.97 | 45.53 |
| 14 7 | .2 m (0.67 ft) | 54 m (177.12 ft) | 53.8 m (176.46 ft) | 43.1 | 1.17 | 4.93 | 0.93 | 47.13 |

The main lithology encountered by drilling is magnesite but there are also a number of other lithologies including dolomite, quartzite, siltstone, and an occurrence of fine-grained intrusive (volcanic-associated?) unit at 10.17-19.45 m depth in diamond drill hole 14-3 (Appendix C).

Quartz veining occurs as a result of metamorphic sweats, and is generally common in the magnesite with a few narrow zones of more intense veining intersected. Contacts between magnesite and other non-carbonate lithologies are typically quite sharp to narrowly gradational and these contacts are typically more disturbed by late tectonic activity. These zones of broken ground and faulting at lithologic contacts proved difficult to drill through. Especially the fine-grained intrusive intersected at 10.17-19.45 m depth in diamond drill hole 14-3. None of the other 2014 drill holes intercepted the fine-grained intrusive (which is strikingly different from country rock) suggesting that it is a sill that is prominent at the west end of the East Magnesite Zone where it was intersected by DDH 1990-1 & 1990-2. The intrusive lenses encountered by drilling are generally fine-grained felsic composition and are probably volcanic-associated. These intrusive lenses have been described as 'trachyte', 'rhyolite' and 'mafic dike' (in the West Magnesite Zone).

The magnesite intersected in drill core is generally white, pale gray or slightly yellowish in color. Texture is typically massive to mottled and grain size ranges from coarsely to finely crystalline. Faint banding, which may reflect original bedding, is rarely evident. Very minor wavy to styolitic gray talc laminae are present through the magnesite in a seemingly irregular manner. White to very light gray quartz veins are scattered through the magnesite; in the fresh core, quartz veins are generally very similar in color to magnesite.

### 6.5 Rock Chip sampling and Geological Mapping

A total of 13 rock chip samples were taken on the East Magnesite Zone (Fig 4, 6, & 16). A summary of the 11 rock chip samples taken across a 33 meter total length (at 3 meter sample intervals) are listed as follows:

| ID # | Width | MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % | LOI % | Total % |
|---|---|---|---|---|---|---|---|---|
| 501 | 3 | **43.6** | 0.95 | 0.81 | 4.68 | 0.77 | 48.92 | 100.15 |
| 502 | 3 | **43.8** | 1.45 | 0.69 | 2.94 | 0.85 | 49.79 | 99.86 |
| 503 | 3 | **40.2** | 2.14 | 0.75 | 8.94 | 0.77 | 46.44 | 99.59 |
| 504 | 3 | **44.6** | 0.55 | 0.66 | 2.39 | 0.65 | 50.15 | 99.34 |
| 505 | 3 | **42.9** | 0.68 | 0.49 | 7.27 | 0.69 | 47.78 | 100.15 |
| 506 | 3 | **40.7** | 0.59 | 0.77 | 11.35 | 0.61 | 45.48 | 99.94 |
| 507 | 3 | 38.2 | 2.31 | 1.81 | 12.1 | 1.01 | 44.27 | 100.2 |
| 508 | 3 | 27.6 | 4.33 | 3.69 | 29.2 | 1.05 | 33.94 | 100.5 |
| 509 | 3 | 14.95 | 4.57 | 6.67 | 48.2 | 2.09 | 22.37 | 100.05 |
| 510 | 3 | 12.9 | 0.21 | 9.46 | 56.1 | 1.96 | 17.63 | 99.85 |
| 511 | 3 | 34.5 | 3.4 | 2.04 | 17.65 | 1.04 | 41.14 | 100.3 |

An additional 3 surface rock chip samples, weighing between 8.83 to 12.83 kgs, were taken across 3 meter intervals on the East & West Magnesite Zones, sample numbers 23291-93 (Fig 4, Reconnaissance Rock Chip Samples). Results indicate MgO content ranges from 40.6 to 44.6%. The highest grade of MgO (44.6%) is located near the collar of DDH 2014-7, a vertical diamond drill hole with 53.8 meters of continuous magnesite. Geological mapping was carried out over 5 hectares and mapped at 1:2,500 scale (Fig 6), and 1,250 scale (Fig16). Mapping of outcrop along ridge crest indicates the magnesite (Hmn 1b) is sparry, coarse grained texture and contains variable chert and minor siderite as principal impurities. Unit Hmn 1a dolomite and magnesite occurs variably along strike in the West portion of the East Zone, and a 5-15 meter thick band of Unit Hmn 1a dolomite and magnesite occurs in the upper portion of DDH 2014-3, 4, 5, & 6 (Fig 16). The stratigraphy and lithology contacts generally trend 295 degrees and dip sub-vertically. Late stage faults are steeply dipping (west) and NNE trending, and have offset the WNW trending stratigraphy in the order of 5-10 meters. It appears that the west portion of the East Zone is more displaced than the East portion of the East Zone. The west portion of the East Zone is in close proximity to a late stage NNE trending fault and parallel faults near the collars of drill holes 2104-1, 3, & 6 (Fig 16).

## 7.0 Discussion of Results

The magnesium oxide content ranging from 41.04-43.2% MgO from 6.2-54 m (20.34-177.12 ft) sample length intervals in drill core are encouraging for development of magnesite resources on the Driftwood East Zone The relatively high SiO2 content (4.12-9.01%) can be removed by flotation process (source: SGS Lakefield 2008, Mineral Processing Report of Driftwood Magnesite). The other compounds of interest (MgO, CaO, Fe2O3) approach specifications required for producing calcined or deadburned magnesite that are suitable materials for export markets.

## 8.0 Conclusion

Reviewing available data, the writer offers the following interpretations & conclusions:

- The Driftwood Creek deposit is a significant magnesite resource, comparing favourably in size with other deposits in BC e.g. Mt. Brussilof, Marysville, Anzac, Topaz Lake.
- Access to the property is relatively good with a reasonable access road connecting to the Driftwood FSR.
- There is good infrastructure in the form of a paved highway, CPR spur line and powerline all of which are located approximately 15 kilometres due east of the property.
- The deposit is hosted by Proterozoic (Helikian) carbonates and clastic sediments of the Mt. Nelson Formation. The deposit is cut by younger felsic and mafic dykes. These have locally resulted in recrystallization of the magnesite.
- The deposit appears to be folded into a number of syncline-anticline pairs that occur along the crest of a northwest trending ridge. Fold axis also trend northwest.
- The orientation of the deposit along the crest of a ridge presents an ideal open pit mining situation with a relatively low stripping ratio.
- Magnesite has been mapped over a strike length of 1900 metres and a maximum width of about 220 metres. The magnesite occurs at surface in two discreet bodies; a larger "Western Magnesite" drill tested in 2008 and a smaller "Eastern Magnesite" drill tested in 1990 and 2014.
- Kaiser Resources (Morris, 1978) inferred 22,500,000 tonnes of magnesite using a specific gravity of 2.5 while Canadian Occidental (Rodgers, 1989) inferred a resource of 29,400,000 tonnes using a specific gravity of 3.0. These estimates are not NI 43-101 compliant and cannot be relied upon.
- An important factor in determining the economic viability of the deposit is the overall grade of the main magnesite deposit. Previous drilling indicates that there are zones of impurity especially at the base of the magnesite where it is in contact with underlying dolomite. Above this basal zone the grade and purity improves, approaching nearly pure magnesite in places. Drilling in 2014 confirms that the East

Magnesite Zone consists of massive magnesite with minor quartz veining. There are 12-21 meter intervals of impure dolomite mixed with magnesite in drill holes 14-1, 3, 4, 5, & 6.

- The Driftwood Creek deposit is classified as a Sparry Magnesite deposit that is most likely of an evaporitic origin. As such one could expect some very pure beds of magnesite with low impurities.
- The local coarse crystallinity of the magnesite is believed to be related to recrystallization during a thermal metamorphic event associated with emplacement of intrusive sills into the host stratigraphy.
- A limited Beneficiation study by SGS on behalf of Tusk Exploration indicates that Fe is tied up in the magnesite crystal structure. They were not successful in reducing the Fe content of the test concentrate using conventional grinding and screening and wet and dry magnetic separation techniques. However, overall the study indicates that an acceptable magnesite concentrate can be produced using conventional beneficiation techniques.

## 9.0 Recommendations

Future exploration and development of the Driftwood Creek should be focused on defining the extensions of known magnesite mineralization of primarily the East Zone and secondarily of the West Zone near the magnesite cliffs near DDH 08-1 & 08-2. It is important to outline zones of high purity magnesite. Geochemical data collected from the East and West Magnesite Zones can be used to interpret economics of projected cost vs benefit analysis of mining, mineral processing and marketing. It is likely that current data from the East and West magnesite Zones can be used to for a preliminary scoping study under the supervision of mining engineers. This data interpretation may lead to a production decision.

## 10.0 References


Aghamirian, M. and Imeson, D., 2008: An Investigation into the Beneficiation of Magnesite from Driftwood Magnesite Property, B.C., internal company report prepared for Tusk ExplorationLtd. by SGS Lakefield Research Ltd.

Kikauka, A., 2000: Geological and Geochemical report on the MG 1-7 claims, Driftwood Creek, Brisco, B.C., Golden Mining Division. B.C. Ministry of Energy, Mines and Petroleum Resources, Assessment Report 26,345.

Klewchuk, P., 2002: Prospectors Assistance Grant Report on MG 1-7 mineral claims, Driftwood Creek area, Golden Mining Division.

Klewchuk, P. 2010: Assessment Report on Access Trail Construction and Diamond Drilling, Driftwood Creek Magnesite property; B.C. Ministry of Energy and Mines Assessment Report 31353, 43 pages.

Klewchuk, P. 2010a: Report on the 2008 diamond drilling program, Driftwood Creek magnesite deposit, unpublished internal company report.

MacIntyre, D., 2014, Technical Report Driftwood Creek Magnesite Property, for MGX Minerals Inc, filed on Sedar for CSE listing.

McCammon, J.W., 1965: The Brisco Magnesite area; in B.C. Minister of Mines and Petroleum Resources, Annual report for 1964.

Morris, R.J., 1978: Fish Magnesite Deposit; B.C. Ministry of Energy, Mines and Petroleum Resources, Assessment Report 8760.

Rodgers, G.M., 1989: Geological Report on the Tarn 1-8 mineral claims; B.C. Ministry of Energy, Mines and Petroleum Resources, Assessment Report 19,416.

Rodgers, G.M., 2008: An Investigation into the Beneficiation of Magnesite from Driftwood Magnesite property, B.C. Report prepared for Tusk Exploration Ltd. by SGS Lakefield Research Ltd.; B.C. Ministry of Energy, Mines & Petroleum Res, Assessment Rpt 30,243.

Reesor, J.E., 1973: Geology of the Lardeau Map Area, east-half, B.C., GSC Memoir 369.

Simandl, G.J., and Hancock, K.D., 1991: Geology of dolomite-hosted magnesite deposits of the Brisco and Driftwood Creek areas, Geological Fieldwork, 1991: B.C. Ministry of Energy, Mines and Petroleum Resources, Paper 1992-1, pp 461-477.

Simandl, G.J. and Hancock, K.D., 1998: Sparry Magnesite, in Geological Fieldwork 1997, British Columbia Ministry of Employment and Investment, Paper 1998-1, pages 24E-1 to 24E-3.

**CERTIFICATE AND DATE**

I, Andris Kikauka, of 4199 Highway, Powell River, BC am a self-employed professional geoscientist. I hereby certify that:

**1.** I am a graduate of Brock University, St. Catharines, Ont., with an Honours Bachelor of Science Degree in Geological Sciences, 1980.
**2.** I am a Fellow in good standing with the Geological Association of Canada.
**3.** I am registered in the Province of British Columbia as a Professional Geoscientist.
**4.** I have practiced my profession for twenty five years in precious and base metal exploration in the Cordillera of Western Canada, U.S.A., Mexico, Central America, and South America, as well as for three years in uranium exploration in the Canadian Shield.
**5.** The information, opinions, and recommendations in this report are based on fieldwork carried out in my presence on the subject property during which time a technical evaluation consisting of geological mapping, core logging, surveying, geochemical rock & split core sampling of mineralized zones.
**6.** I have a direct interest in the Driftwood Property and MGX Minerals Inc. The recommendations in this report cannot be used for the purpose of public financing.
**7.** I am not aware of any material fact or material change with respect to the subject matter of this Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
8. This technical work report supports requirements of BCEMPR for Exploration and Development Work/Expiry Date Change.

Andris Kikauka, P. Geo.,


A. Kikauka

Jan 5, 2015

Amended Aug. 22, 2015

**ITEMIZED COST STATEMENT-**
**DRIFTWOOD ADJOINING MINERAL TENURES 511333, 511335, 1027955, 1030819**
**FIELDWORK PERFORMED SEPT 8-SEPT 28, 2014**
**WORK PERFORMED ON MINERAL TENURES 511333**
**GOLDEN MINING DIVISION, NTS 82K 15E (TRIM 082K 098)**

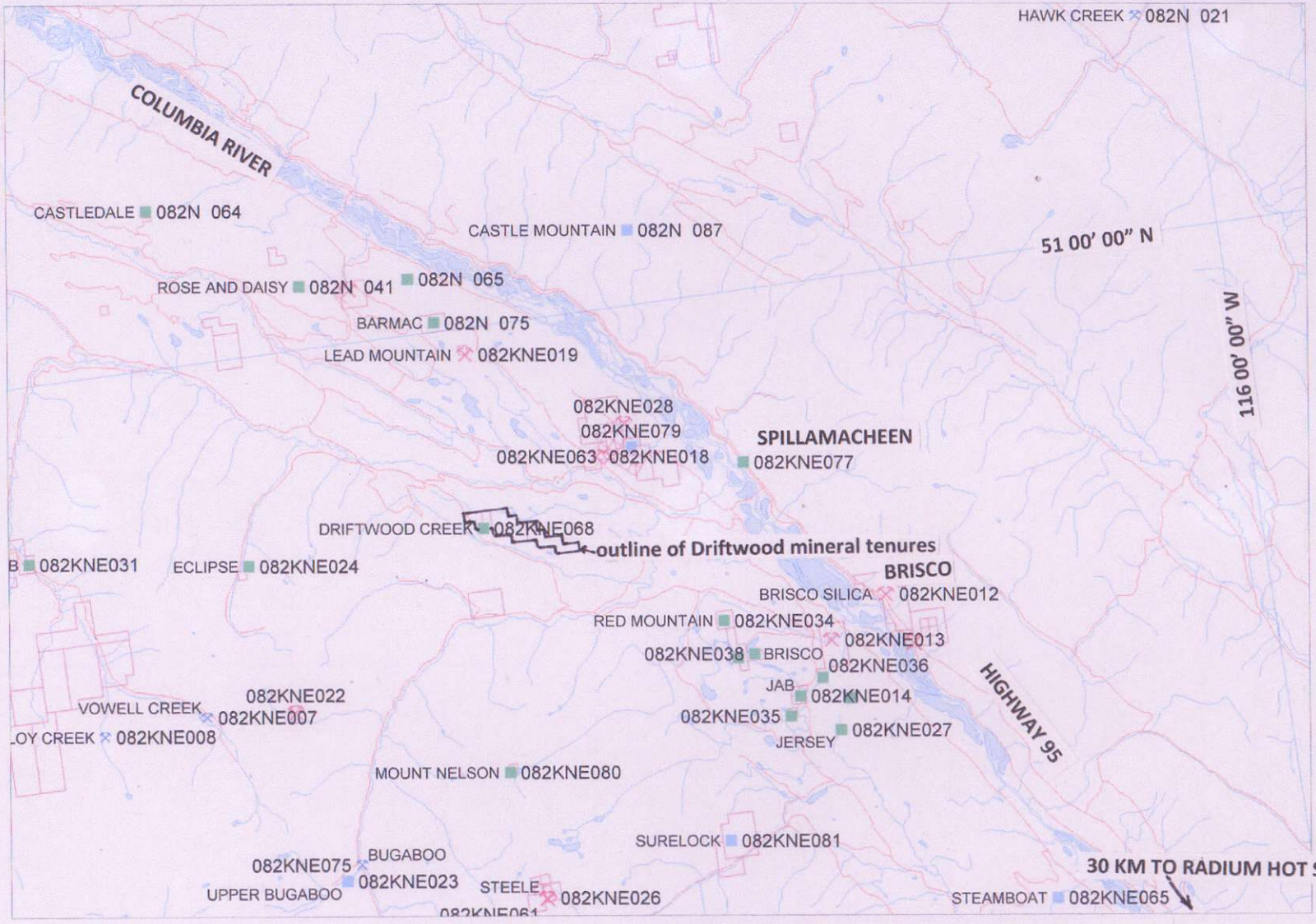
**FIELD CREW:**

| | | |
|---|---|---|
| A. Kikauka (Geologist) 7 days (surveying, drill logs, mapping) | $ | 3,097.50 |
| J. Lazerson (Geotechnician) 22 days (survey and drill log asst) | | 8,085.00 |

**FIELD COSTS:**

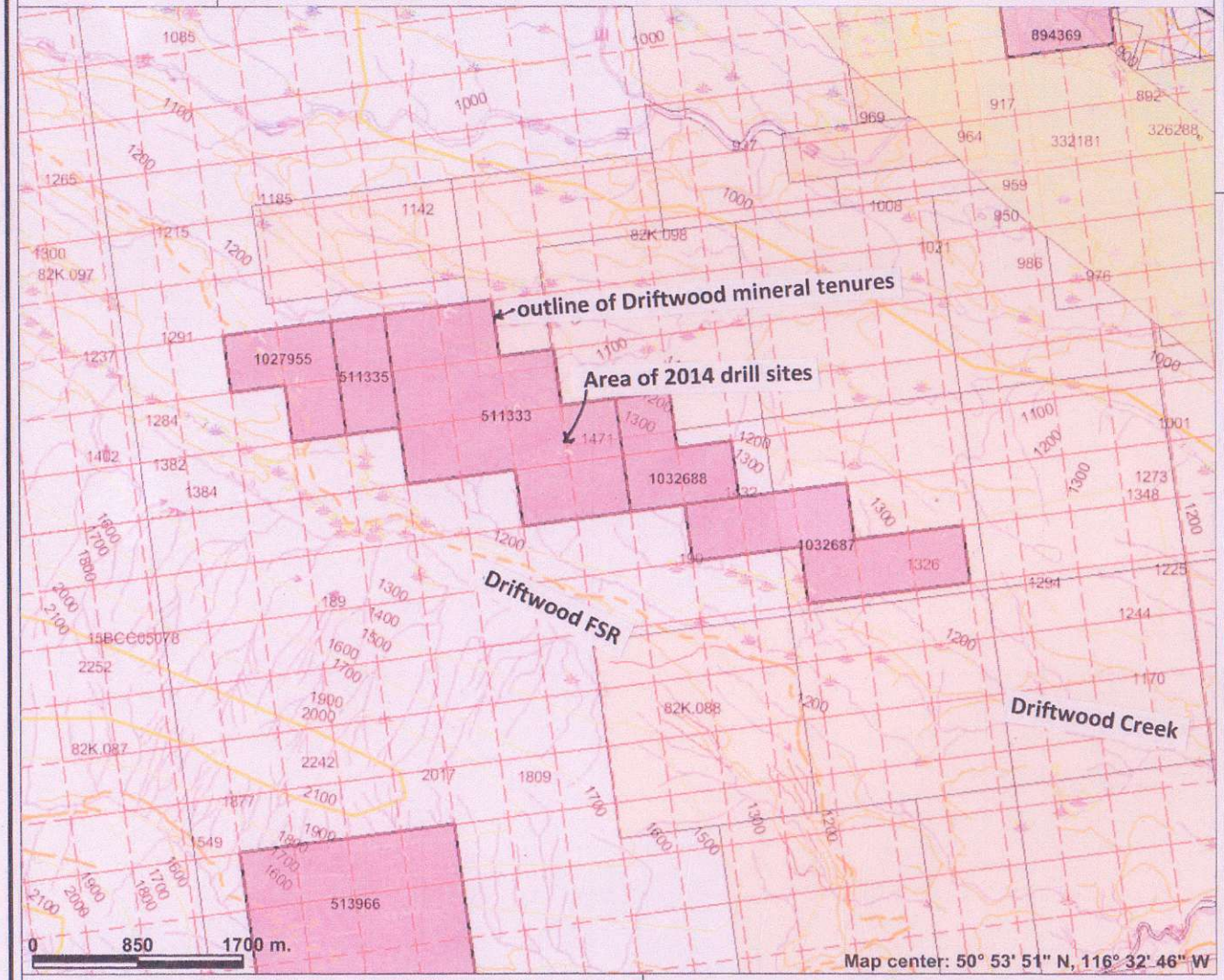
| | |
|---|---|
| Mob/demob/preparation | 1,912.30 |
| Meals and accommodations | 2,604.00 |
| Truck mileage & fuel | 2,909.20 |
| Equipment and Supplies | 963.22 |
| Woodside Excavating Ltd (drill moves, access trails) | 17,892.22 |
| Neill's Drilling & Mining (437.52 m, 1,435 ft BQTW core drilling, 8 drill holes on MTO tenure 511333) | 43,581.25 |
| Transport cost moving core boxes, and sample shipments | 1,366.11 |
| Li Borate Fusion ICP AES geochemical analysis (11 rock samples, 141 drill core samples, 7 QC/QA rock samples, total=159 samples) | 6,439.50 |
| Report | 1,000.00 |
| Total= | $89,850.30 |

# Driftwood Creek Magnesite Property General Location Fig 1




**MGX MINERALS INC DRIFTWOOD PROJECT**
**FIG 1 GENERAL LOCATION (MTO Tenures)**
**NTS 082K 15E, BCGS 08K.098 Golden Mining Division**

# Fig 2 Driftwood Project MTO Tenures





## Legend

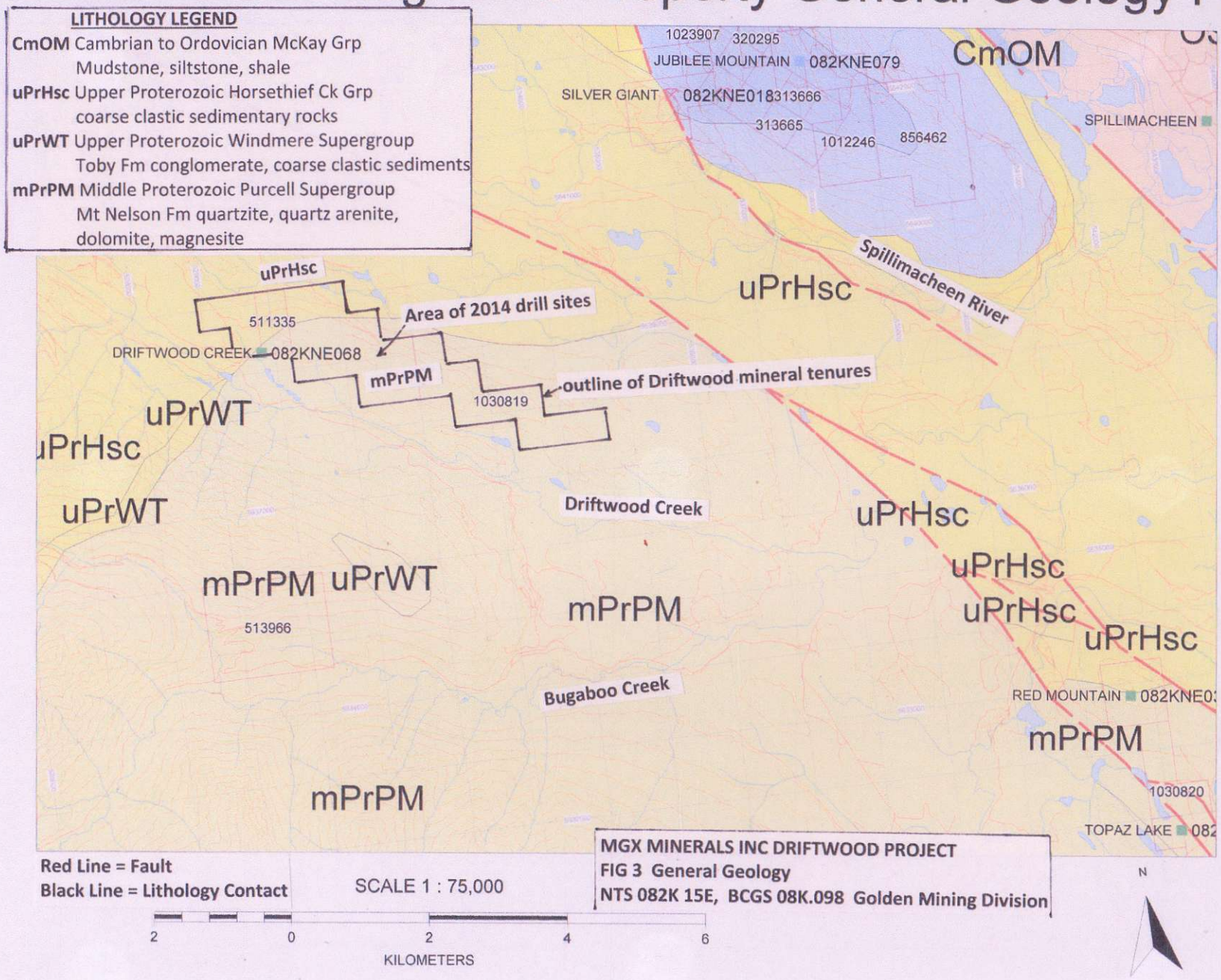
- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- Federal Transfer Lands
- MTO Grid (MTO)
- Mineral Tenure (current)
- Mineral Claim
- Mineral Lease
- Mineral Reserves (current)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- First Nations Treaty Related Lands
- First Nations Treaty Lands
- Survey Parcels
- BCGS Grid
- Contours (1:250K)
- Contour - Index
- Contour - Intermediate
- Areaof Exclusion
- Areaof Indefinite Contours
- Transportation - Points (TRIM)
- Helipad
- Transportation - Lines (TRIM)

Scale: 1:48,405

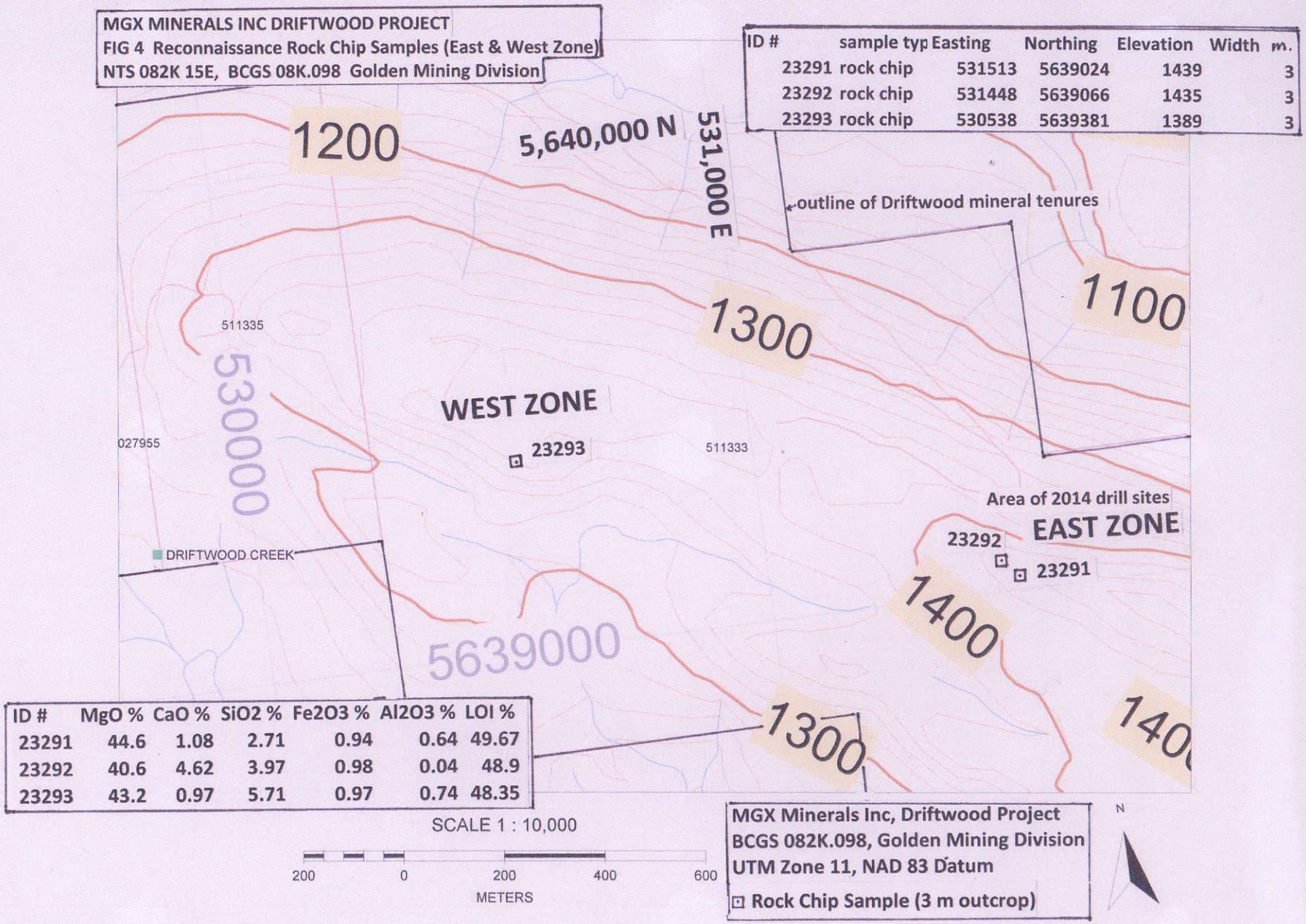


**MGX MINERALS INC DRIFTWOOD PROJECT**
**FIG 2 Location of MTO Tenures**
**NTS 082K 15E, BCGS 08K.098 Golden Mining Division**

# Driftwood Creek Magnesite Property General Geology Fig 3



# Driftwood East & West Zone Rock Chip Sampling



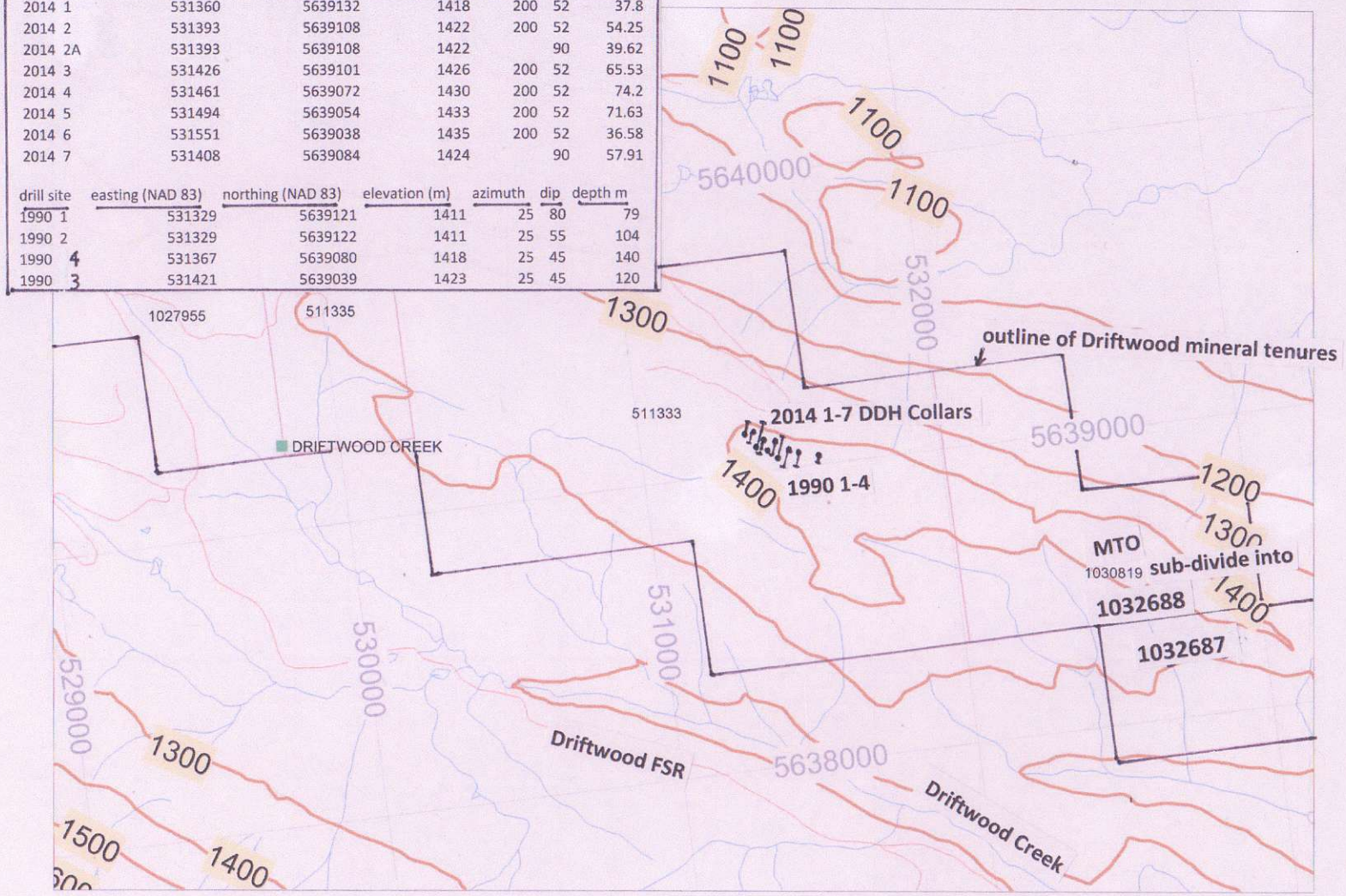

| ID # | sample typ | Easting | Northing | Elevation | Width m. |
|---|---|---|---|---|---|
| 23291 | rock chip | 531513 | 5639024 | 1439 | 3 |
| 23292 | rock chip | 531448 | 5639066 | 1435 | 3 |
| 23293 | rock chip | 530538 | 5639381 | 1389 | 3 |

| ID # | MgO % | CaO % | SiO2 % | Fe2O3 % | Al2O3 % | LOI % |
|---|---|---|---|---|---|---|
| 23291 | 44.6 | 1.08 | 2.71 | 0.94 | 0.64 | 49.67 |
| 23292 | 40.6 | 4.62 | 3.97 | 0.98 | 0.04 | 48.9 |
| 23293 | 43.2 | 0.97 | 5.71 | 0.97 | 0.74 | 48.35 |

# Driftwood Magnesite 2014 DDH Locations

| drill site | easting (NAD 83) | northing (NAD 83) | elevation (m) | azimuth | dip | depth m |
|---|---|---|---|---|---|---|
| 2014 1 | 531360 | 5639132 | 1418 | 200 | 52 | 37.8 |
| 2014 2 | 531393 | 5639108 | 1422 | 200 | 52 | 54.25 |
| 2014 2A | 531393 | 5639108 | 1422 | | 90 | 39.62 |
| 2014 3 | 531426 | 5639101 | 1426 | 200 | 52 | 65.53 |
| 2014 4 | 531461 | 5639072 | 1430 | 200 | 52 | 74.2 |
| 2014 5 | 531494 | 5639054 | 1433 | 200 | 52 | 71.63 |
| 2014 6 | 531551 | 5639038 | 1435 | 200 | 52 | 36.58 |
| 2014 7 | 531408 | 5639084 | 1424 | | 90 | 57.91 |

| drill site | easting (NAD 83) | northing (NAD 83) | elevation (m) | azimuth | dip | depth m |
|---|---|---|---|---|---|---|
| 1990 1 | 531329 | 5639121 | 1411 | 25 | 80 | 79 |
| 1990 2 | 531329 | 5639122 | 1411 | 25 | 55 | 104 |
| 1990 4 | 531367 | 5639080 | 1418 | 25 | 45 | 140 |
| 1990 3 | 531421 | 5639039 | 1423 | 25 | 45 | 120 |




SCALE 1 : 20,000

500 0 500 1,000

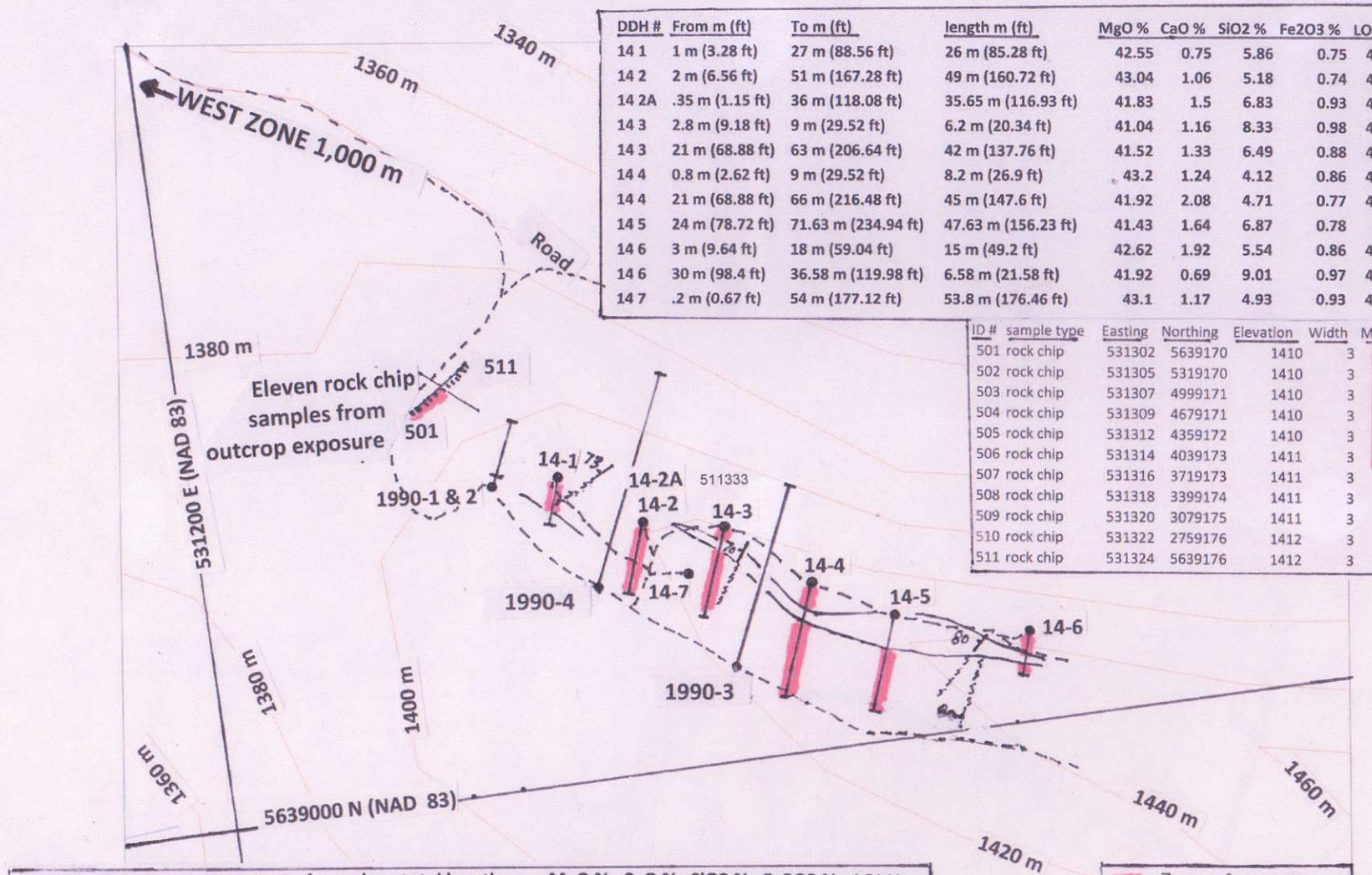
METERS

DDH collar Projected EOH

N

**MGX MINERALS INC DRIFTWOOD PROJECT**
**FIG 5 DDH Locations (2014 & 1990)**
**NTS 082K 15E, BCGS 08K.098 Golden Mining Division**

# Driftwood Magnesite 2014 DDH Locations (Detail)




| DDH # | From m (ft) | To m (ft) | length m (ft) | MgO % | CaO % | SiO2 % | Fe2O3 % | LOI % |
|---|---|---|---|---|---|---|---|---|
| 14 1 | 1 m (3.28 ft) | 27 m (88.56 ft) | 26 m (85.28 ft) | 42.55 | 0.75 | 5.86 | 0.75 | 47.93 |
| 14 2 | 2 m (6.56 ft) | 51 m (167.28 ft) | 49 m (160.72 ft) | 43.04 | 1.06 | 5.18 | 0.74 | 48.55 |
| 14 2A | .35 m (1.15 ft) | 36 m (118.08 ft) | 35.65 m (116.93 ft) | 41.83 | 1.5 | 6.83 | 0.93 | 46.91 |
| 14 3 | 2.8 m (9.18 ft) | 9 m (29.52 ft) | 6.2 m (20.34 ft) | 41.04 | 1.16 | 8.33 | 0.98 | 46.05 |
| 14 3 | 21 m (68.88 ft) | 63 m (206.64 ft) | 42 m (137.76 ft) | 41.52 | 1.33 | 6.49 | 0.88 | 47.44 |
| 14 4 | 0.8 m (2.62 ft) | 9 m (29.52 ft) | 8.2 m (26.9 ft) | 43.2 | 1.24 | 4.12 | 0.86 | 48.64 |
| 14 4 | 21 m (68.88 ft) | 66 m (216.48 ft) | 45 m (147.6 ft) | 41.92 | 2.08 | 4.71 | 0.77 | 48.54 |
| 14 5 | 24 m (78.72 ft) | 71.63 m (234.94 ft) | 47.63 m (156.23 ft) | 41.43 | 1.64 | 6.87 | 0.78 | 47.5 |
| 14 6 | 3 m (9.64 ft) | 18 m (59.04 ft) | 15 m (49.2 ft) | 42.62 | 1.92 | 5.54 | 0.86 | 47.48 |
| 14 6 | 30 m (98.4 ft) | 36.58 m (119.98 ft) | 6.58 m (21.58 ft) | 41.92 | 0.69 | 9.01 | 0.97 | 45.53 |
| 14 7 | .2 m (0.67 ft) | 54 m (177.12 ft) | 53.8 m (176.46 ft) | 43.1 | 1.17 | 4.93 | 0.93 | 47.13 |

| ID # | sample type | Easting | Northing | Elevation | Width | MgO % | CaO % |
|---|---|---|---|---|---|---|---|
| 501 | rock chip | 531302 | 5639170 | 1410 | 3 | 43.6 | 0.95 |
| 502 | rock chip | 531305 | 5319170 | 1410 | 3 | 43.8 | 1.45 |
| 503 | rock chip | 531307 | 4999171 | 1410 | 3 | 40.2 | 2.14 |
| 504 | rock chip | 531309 | 4679171 | 1410 | 3 | 44.6 | 0.55 |
| 505 | rock chip | 531312 | 4359172 | 1410 | 3 | 42.9 | 0.68 |
| 506 | rock chip | 531314 | 4039173 | 1411 | 3 | 40.7 | 0.59 |
| 507 | rock chip | 531316 | 3719173 | 1411 | 3 | 38.2 | 2.31 |
| 508 | rock chip | 531318 | 3399174 | 1411 | 3 | 27.6 | 4.33 |
| 509 | rock chip | 531320 | 3079175 | 1411 | 3 | 14.95 | 4.57 |
| 510 | rock chip | 531322 | 2759176 | 1412 | 3 | 12.9 | 0.21 |
| 511 | rock chip | 531324 | 5639176 | 1412 | 3 | 34.5 | 3.4 |

| Sample | ID # From | ID # To | # of samples | total length | MgO % | CaO % | SiO2 % | Fe2O3 % | LOI % |
|---|---|---|---|---|---|---|---|---|---|
| Rock chip | 501 | 506 | 6 | 18 m (59.04 ft) | 42.63 | 0.94 | 6.26 | 0.72 | 48.09 |

Zone of >40% MgO

Fault (strike & dip)

SCALE 1 : 2,500

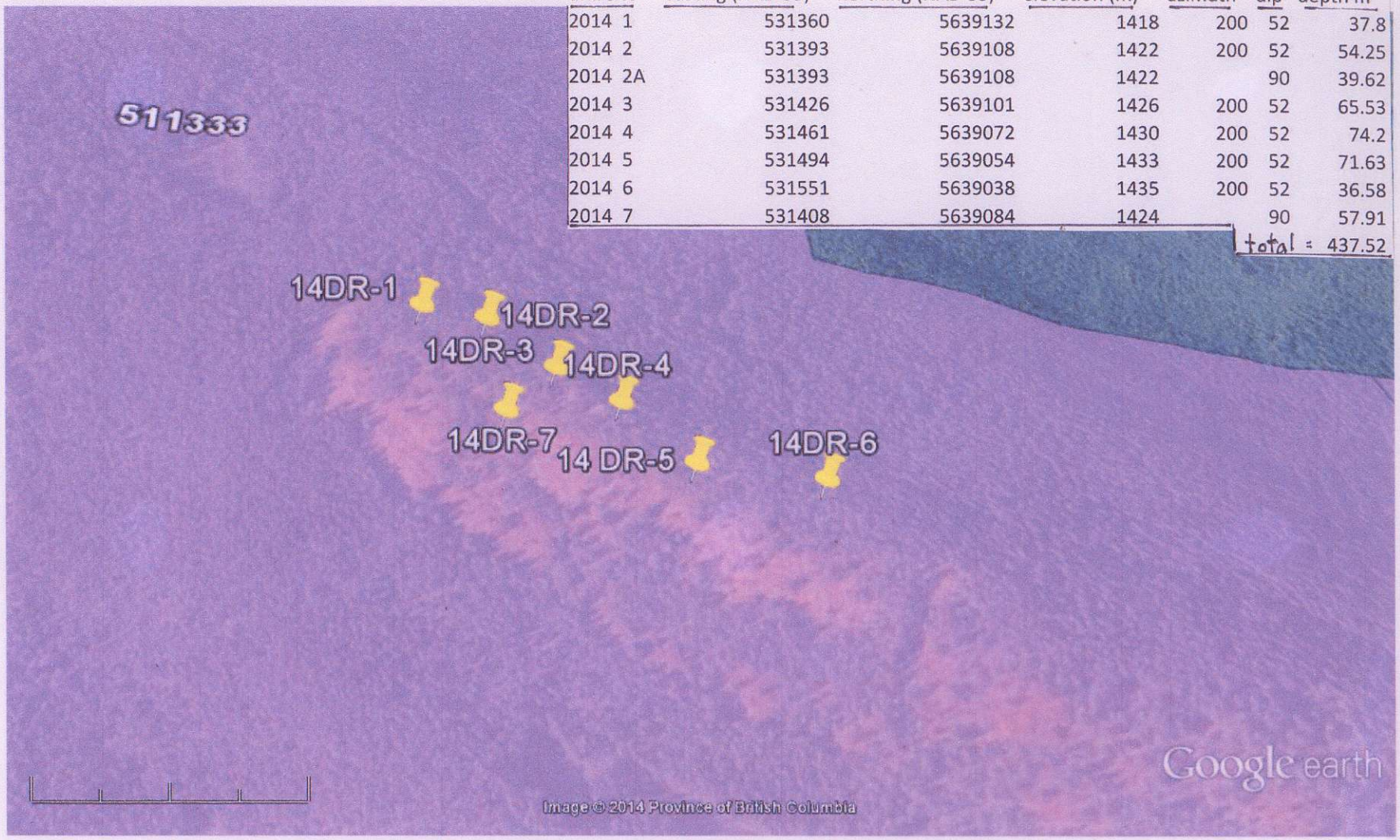
50 100 150
METERS

DDH collar Projected EOH

**MGX MINERALS INC DRIFTWOOD PROJECT**
**FIG 6 DDH (2014 & 1990) & Rock Chip Analysis Results**
**NTS 082K 15E, BCGS 08K.098 Golden Mining Division**

**MGX Minerals Inc**
**Driftwood Magnesite Project**
**BCGS 082K.098, Golden Mining Division**

| drill site | easting (NAD 83) | northing (NAD 83) | elevation (m) | azimuth | dip | depth m |
|---|---|---|---|---|---|---|
| 2014 1 | 531360 | 5639132 | 1418 | 200 | 52 | 37.8 |
| 2014 2 | 531393 | 5639108 | 1422 | 200 | 52 | 54.25 |
| 2014 2A | 531393 | 5639108 | 1422 | | 90 | 39.62 |
| 2014 3 | 531426 | 5639101 | 1426 | 200 | 52 | 65.53 |
| 2014 4 | 531461 | 5639072 | 1430 | 200 | 52 | 74.2 |
| 2014 5 | 531494 | 5639054 | 1433 | 200 | 52 | 71.63 |
| 2014 6 | 531551 | 5639038 | 1435 | 200 | 52 | 36.58 |
| 2014 7 | 531408 | 5639084 | 1424 | | 90 | 57.91 |
| | | | | | total = | 437.52 |




Google earth

feet 1000
meters 300

N

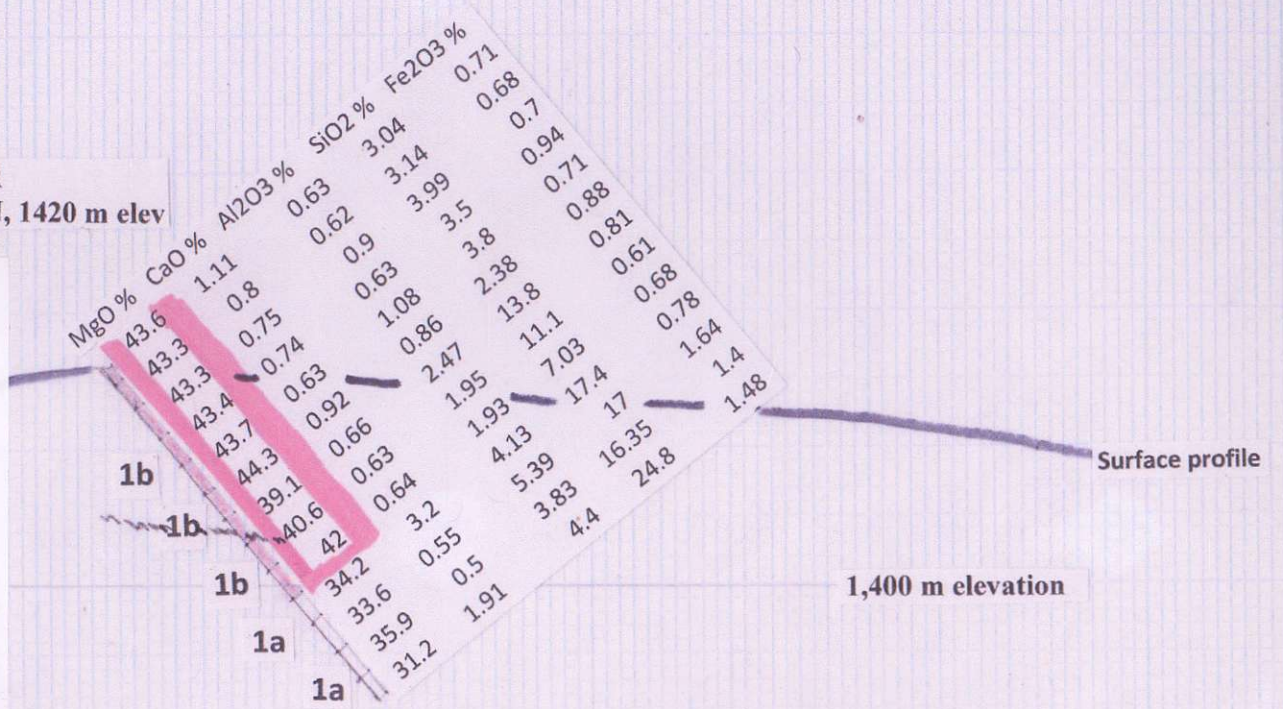
**MGX MINERALS INC DRIFTWOOD PROJECT**
**FIG 7 Google Earth 2014 DDH Locations**
**NTS 082K 15E, BCGS 08K.098 Golden Mining Division**

| DDH # | From m (ft) | To m (ft) | length m (ft) | MgO % | CaO % | SiO2 % | Fe2O3 % | LOI % |
|---|---|---|---|---|---|---|---|---|
| 14 1 | 1 m (3.28 ft) | 27 m (88.56 ft) | 26 m (85.28 ft) | 42.55 | 0.75 | 5.86 | 0.75 | 47.93 |

**DDH 14-1 COLLAR**
**531360 E, 5639132 N, 1420 m elev**

**LITHOLOGY LEGEND Helikian Mount Nelson Fm**

- Hmn 1A — Grey/LightGrey/Cream, Fine Grained DOLOMITE Stromatolites to 25cm D, Occational Cherty Layers, Contains Magnesite
- Hmn 1B — MAGNESITE
- Hmn 2 — Dark Red/ Brown, V. Fine Grained ARGILLACEOUS DOLOMITE Foliated, Occational Cherty/Light Coloured Wisps & Blebs to 4cm Thick.
- Hmn 3 — Light Grey/Buff/Green/Purple, Fine Grained DOLOMITE
- Hmn 4 — Light Grey/White QUARTZITE, V. Fine Grained/ Aphanitic Locally Thin Bedded, Locally Stromatolitic
- Hmn 5a — Indurated sandstone
- Hmn 5b — Indurated sandstone, chloritic




**14-1 -52 degrees dip**
**37.8 m depth**

0 3 6 9 12 15 18 21 24 27 30 m

**Scale bar (3 m sample interval)**

**1b Magnesite**
**1a Magnesite + Dolomite**

**Fig 8**

**MGX Minerals Inc, Driftwood Project**
**Cross Section DDH 14-1 Looking 110 Degrees**

Zone of >40% MgO — Fault

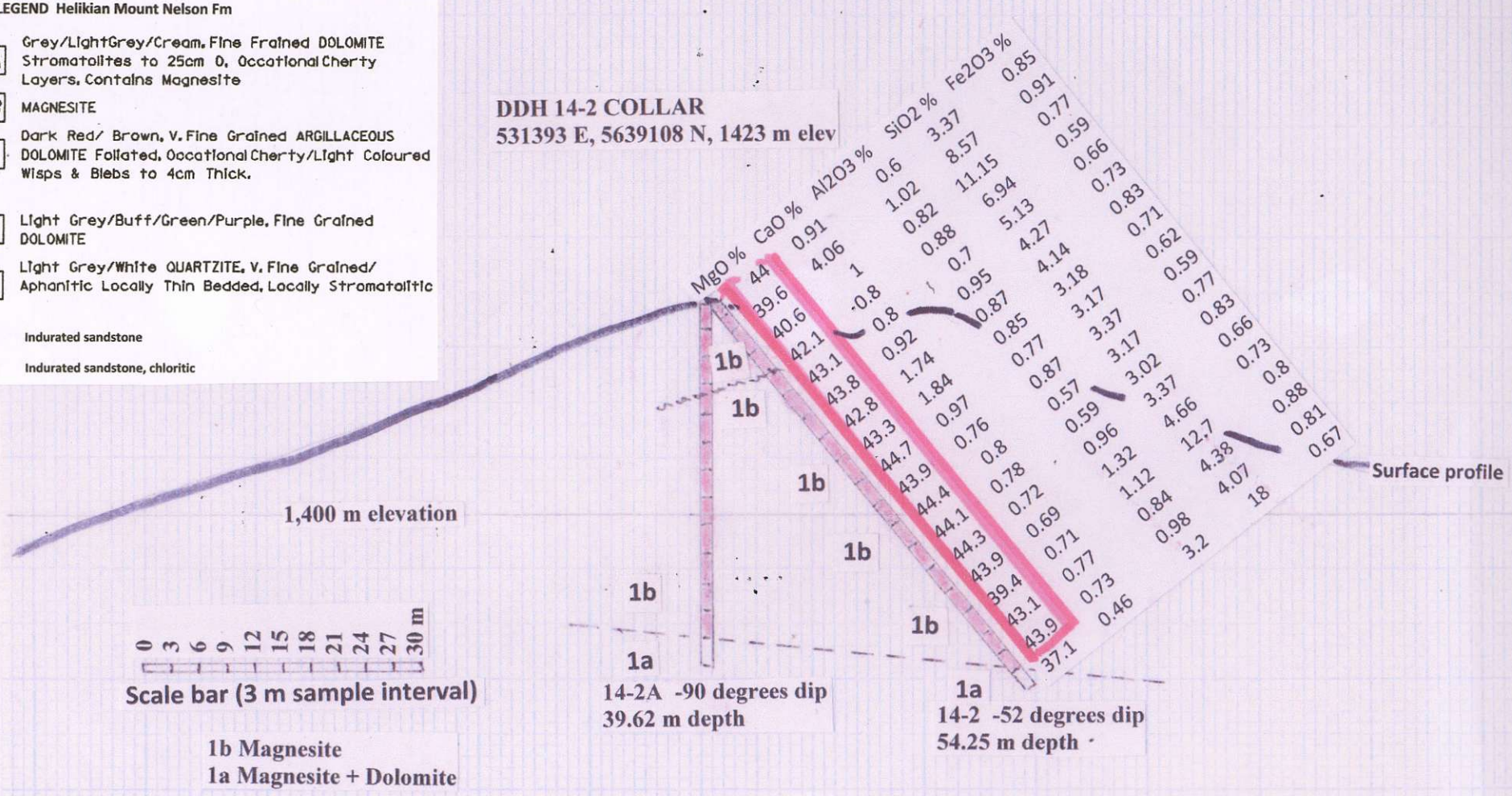
| DDH # | From m (ft) | To m (ft) | length m (ft) | MgO % | CaO % | SiO2 % | Fe2O3 % | LOI % |
|---|---|---|---|---|---|---|---|---|
| 14 2 | 2 m (6.56 ft) | 51 m (167.28 ft) | 49 m (160.72 ft) | 43.04 | 1.06 | 5.18 | 0.74 | 48.55 |

Zone of >40% MgO  Fault

**Fig 9** MGX Minerals Inc, Driftwood Project
Cross Section DDH 14-2 Looking 110 Degrees

**LITHOLOGY LEGEND Helikian Mount Nelson Fm**

- Hmn 1A — Grey/LightGrey/Cream. Fine Grained DOLOMITE Stromatolites to 25cm D. Occational Cherty Layers. Contains Magnesite
- Hmn 1B — MAGNESITE
- Hmn 2 — Dark Red/ Brown. V. Fine Grained ARGILLACEOUS DOLOMITE Foliated. Occational Cherty/Light Coloured Wisps & Blebs to 4cm Thick.
- Hmn 3 — Light Grey/Buff/Green/Purple. Fine Grained DOLOMITE
- Hmn 4 — Light Grey/White QUARTZITE. V. Fine Grained/ Aphanitic Locally Thin Bedded. Locally Stromatolitic
- Hmn 5a — Indurated sandstone
- Hmn 5b — Indurated sandstone, chloritic




1b Magnesite
1a Magnesite + Dolomite

| DDH # | From m (ft) | To m (ft) | length m (ft) | MgO % | CaO % | SiO2 % | Fe2O3 % | LOI % |
|---|---|---|---|---|---|---|---|---|
| 14 2A | .35 m (1.15 ft) | 36 m (118.08 ft) | 35.65 m (116.93 f) | 41.83 | 1.5 | 6.83 | 0.93 | 46.91 |

1b Magnesite
1a & 3 Magnesite + Dolomite

**Fig 10** MGX Minerals Inc, Driftwood Project
Cross Section DDH 14-2A Looking 110 Degrees

Zone of >40% MgO  Fault

0 3 6 9 12 15 18 21 24 27 30 m

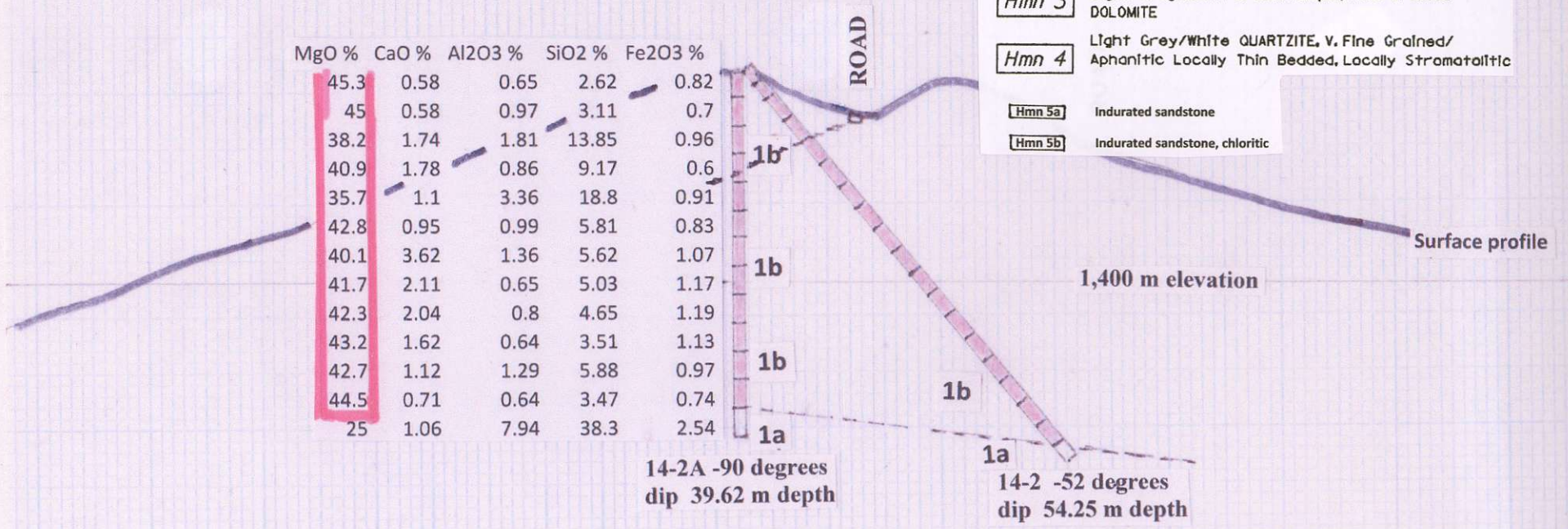
Scale bar (3 m sample interval)

LITHOLOGY LEGEND Helikian Mount Nelson Fm

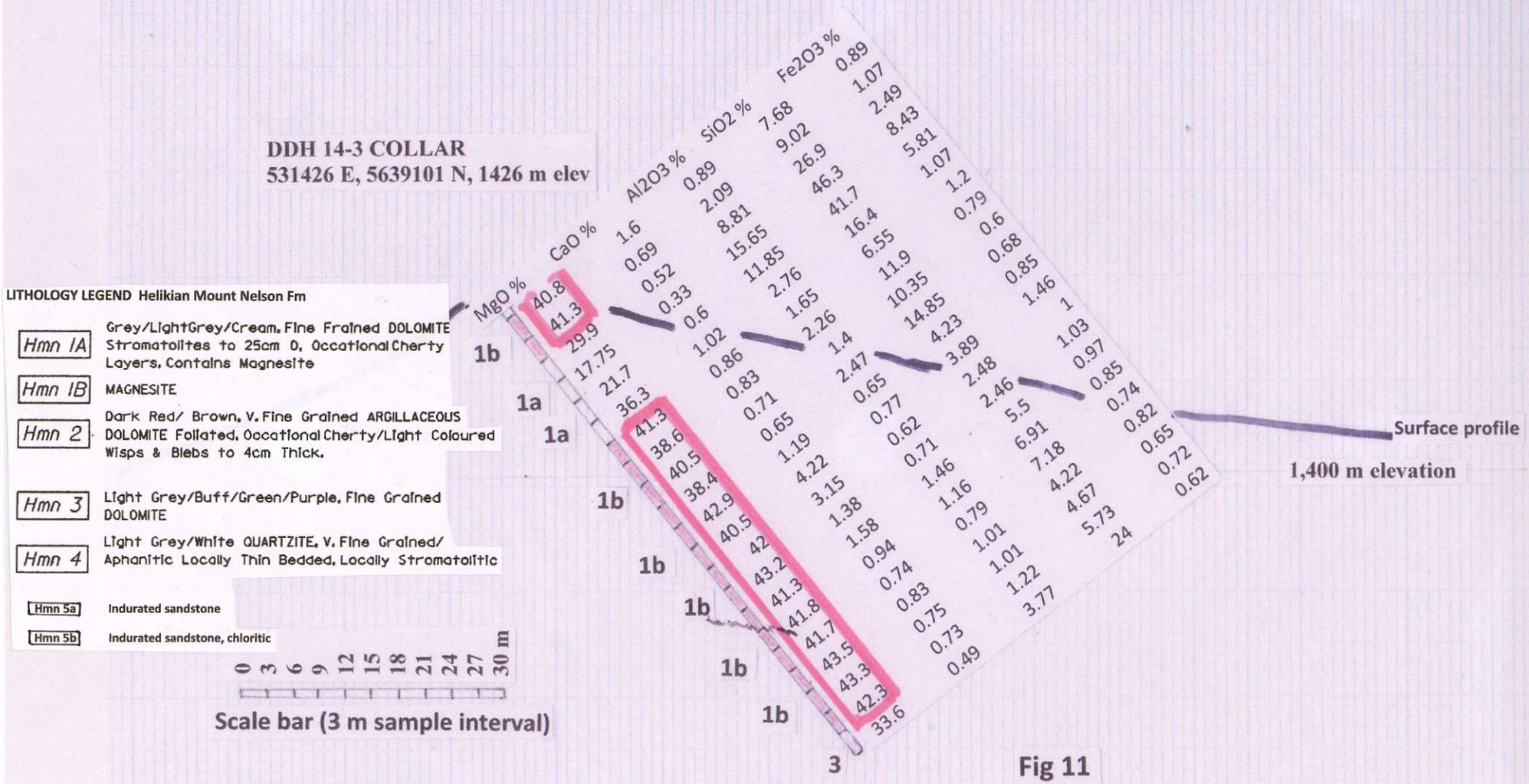
- Hmn 1A — Grey/LightGrey/Cream. Fine Grained DOLOMITE Stromatolites to 25cm D. Occational Cherty Layers. Contains Magnesite
- Hmn 1B — MAGNESITE
- Hmn 2 — Dark Red/ Brown. V. Fine Grained ARGILLACEOUS DOLOMITE Foliated. Occational Cherty/Light Coloured Wisps & Blebs to 4cm Thick.
- Hmn 3 — Light Grey/Buff/Green/Purple. Fine Grained DOLOMITE
- Hmn 4 — Light Grey/White QUARTZITE. V. Fine Grained/ Aphanitic Locally Thin Bedded. Locally Stromatolitic
- Hmn 5a — Indurated sandstone
- Hmn 5b — Indurated sandstone, chloritic

DDH 14-2A COLLAR
531393 E, 5639108 N, 1423 m elev

| MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % |
|---|---|---|---|---|
| 45.3 | 0.58 | 0.65 | 2.62 | 0.82 |
| 45 | 0.58 | 0.97 | 3.11 | 0.7 |
| 38.2 | 1.74 | 1.81 | 13.85 | 0.96 |
| 40.9 | 1.78 | 0.86 | 9.17 | 0.6 |
| 35.7 | 1.1 | 3.36 | 18.8 | 0.91 |
| 42.8 | 0.95 | 0.99 | 5.81 | 0.83 |
| 40.1 | 3.62 | 1.36 | 5.62 | 1.07 |
| 41.7 | 2.11 | 0.65 | 5.03 | 1.17 |
| 42.3 | 2.04 | 0.8 | 4.65 | 1.19 |
| 43.2 | 1.62 | 0.64 | 3.51 | 1.13 |
| 42.7 | 1.12 | 1.29 | 5.88 | 0.97 |
| 44.5 | 0.71 | 0.64 | 3.47 | 0.74 |
| 25 | 1.06 | 7.94 | 38.3 | 2.54 |



| DDH # | From m (ft) | To m (ft) | length m (ft) | MgO % | CaO % | SiO2 % | Fe2O3 % | LOI % |
|---|---|---|---|---|---|---|---|---|
| 14 3 | 2.8 m (9.18 ft | 9 m (29.52 ft) | 6.2 m (20.34 ft) | 41.04 | 1.16 | 8.33 | 0.98 | 46.05 |
| 14 3 | 21 m (68.88 ft | 63 m (206.64 ft) | 42 m (137.76 ft) | 41.52 | 1.33 | 6.49 | 0.88 | 47.44 |



| DDH # | From m (ft) | To m (ft) | length m (ft) | MgO % | CaO % | SiO2 % | Fe2O3 % | LOI % |
|---|---|---|---|---|---|---|---|---|
| 14 4 | 0.8 m (2.62 ft) | 9 m (29.52 ft) | 8.2 m (26.9 ft) | 43.2 | 1.24 | 4.12 | 0.86 | 48.64 |
| 14 4 | 21 m (68.88 ft) | 66 m (216.48 ft) | 45 m (147.6 ft) | 41.92 | 2.08 | 4.71 | 0.77 | 48.54 |

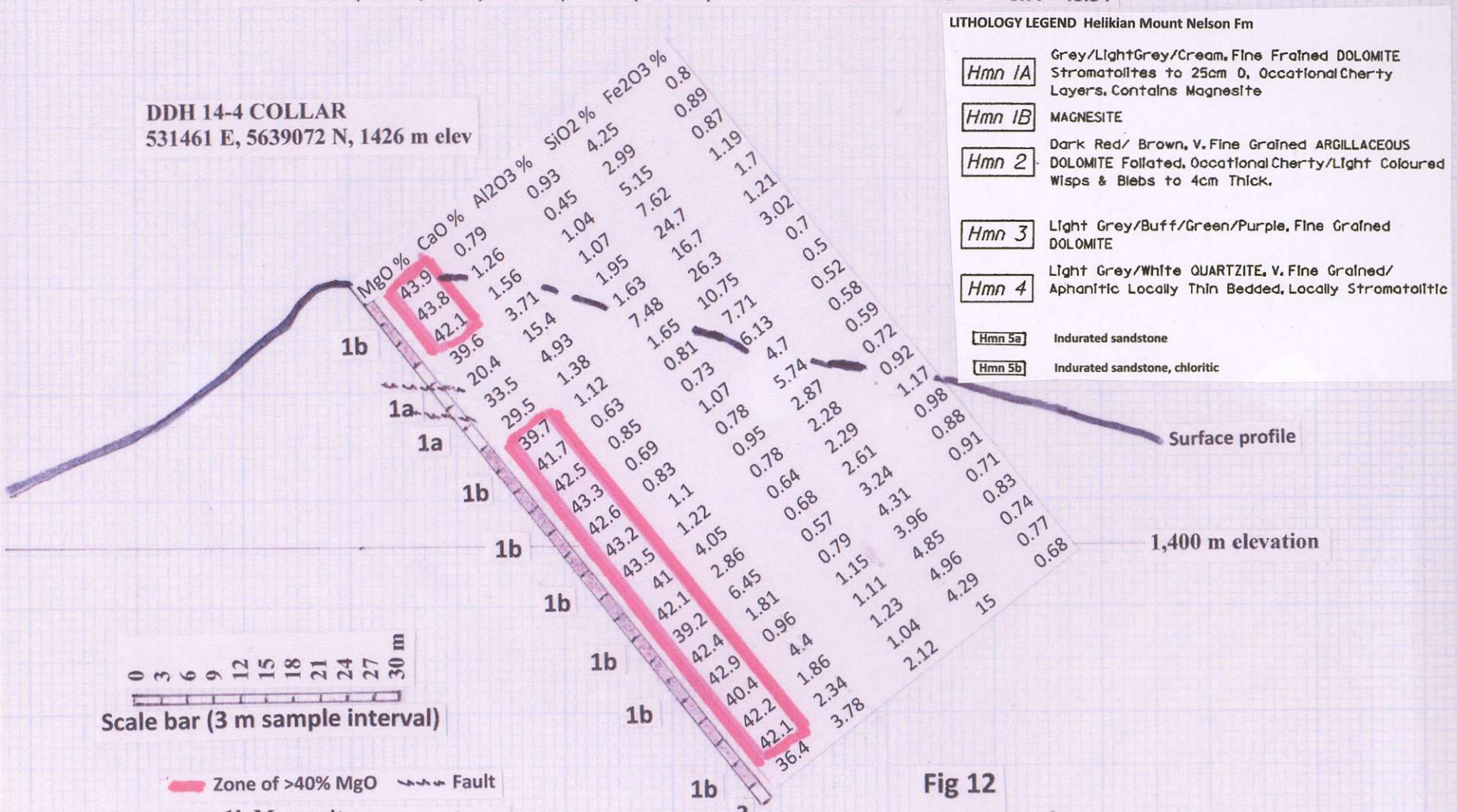



**Fig 12**

**MGX Minerals Inc, Driftwood Project**
**Cross Section DDH 14-4 Looking 110 Degrees**

| DDH # | From m (ft) | To m (ft) | length m (ft) | MgO % | CaO % | SiO2 % | Fe2O3 % | LOI % |
|---|---|---|---|---|---|---|---|---|
| 14 5 | 24 m (78.72 f | 71.63 m (234.94 f | 47.63 m (156.23 f | 41.43 | 1.64 | 6.87 | 0.78 | 47.5 |

**LITHOLOGY LEGEND Helikian Mount Nelson Fm**

| | |
|---|---|
| Hmn 1A | Grey/LightGrey/Cream, Fine Grained DOLOMITE Stromatolites to 25cm D, Occational Cherty Layers, Contains Magnesite |
| Hmn 1B | MAGNESITE |
| Hmn 2 | Dark Red/ Brown, V. Fine Grained ARGILLACEOUS DOLOMITE Foliated, Occational Cherty/Light Coloured Wisps & Blebs to 4cm Thick. |
| Hmn 3 | Light Grey/Buff/Green/Purple, Fine Grained DOLOMITE |
| Hmn 4 | Light Grey/White QUARTZITE, V. Fine Grained/ Aphanitic Locally Thin Bedded, Locally Stromatolitic |
| Hmn 5a | Indurated sandstone |
| Hmn 5b | Indurated sandstone, chloritic |

**DDH 14-5 COLLAR**
**531494 E, 5639054 N, 1433 m elev**

| MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % |
|---|---|---|---|---|
| 39.8 | 0.8 | 1.82 | 10.75 | 0.95 |
| 34.8 | 2.85 | 2.38 | 18.55 | 1.19 |
| 18.85 | 12.4 | 1.46 | 36.2 | 1.35 |
| 21.6 | 10.7 | 1.85 | 34.1 | 1.05 |
| 37.6 | 0.58 | 2.75 | 17.2 | 1.05 |
| 38.6 | 0.77 | 2.6 | 14.85 | 0.96 |
| 37.8 | 1.34 | 1.17 | 15.4 | 1.22 |
| 41.2 | 0.92 | 1.27 | 9.31 | 0.99 |
| 42.9 | 0.83 | 0.96 | 5.81 | 0.75 |
| 41.2 | 0.86 | 0.93 | 8.02 | 0.76 |
| 40 | 0.89 | 0.95 | 10.65 | 1 |
| 41.2 | 1.17 | 1.05 | 6.4 | 0.96 |
| 33.3 | 11.5 | 0.84 | 5.21 | 0.78 |
| 42.4 | 2.05 | 0.6 | 3.26 | 1.04 |
| 43.4 | 0.95 | 0.88 | 3.5 | 0.69 |
| 43.9 | 1.26 | 0.83 | 3.84 | 0.7 |
| 44.5 | 0.95 | 0.55 | 2.18 | 0.61 |
| 44.5 | 0.9 | 0.81 | 3.32 | 0.72 |
| 42.3 | 0.88 | 1.45 | 6.2 | 0.59 |
| 41 | 0.74 | 1.22 | 8.87 | 0.65 |
| 37.1 | 0.58 | 1.24 | 18.2 | 0.66 |
| 40.9 | 0.79 | 0.79 | 9.71 | 0.75 |
| 43.1 | 0.94 | 0.78 | 5.45 | 0.75 |

1a
1a
1a
1b
1b
1b
1b
1b
1b
1b

Surface profile

0 3 6 9 12 15 18 21 24 27 30 m

Scale bar (3 m sample interval)

1,400 m elevation

Zone of >40% MgO  Fault

1b Magnesite
1a Magnesite + Dolomite

14-5 -52 degrees dip
71.63 m depth

**Fig 13**

**MGX Minerals Inc, Driftwood Project**
**Cross Section DDH 14-5 Looking 110 Degrees**

| DDH # | From m (ft) | To m (ft) | length m (ft) | MgO % | CaO % | SiO2 % | Fe2O3 % | LOI % |
|---|---|---|---|---|---|---|---|---|
| 14 6 | 3 m (9.64 ft) | 18 m (59.04 ft) | 15 m (49.2 ft) | 42.62 | 1.92 | 5.54 | 0.86 | 47.48 |
| 14 6 | 30 m (98.4 ft) | 36.58 m (119.98 f | 6.58 m (21.58 ft) | 41.92 | 0.69 | 9.01 | 0.97 | 45.53 |

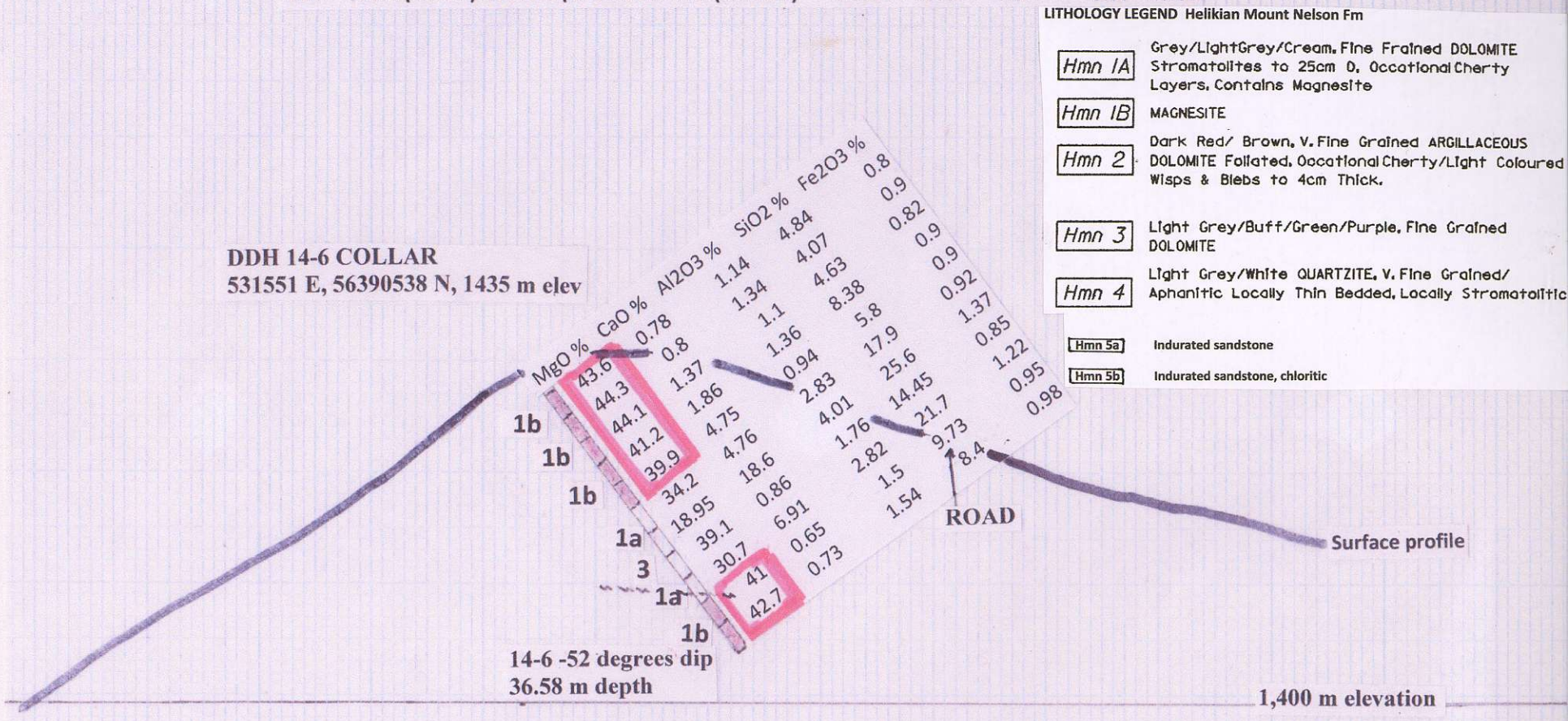



**Fig 14**

**MGX Minerals Inc, Driftwood Project**
**Cross Section DDH 14-6 Looking 110 Degrees**

| DDH # | From m (ft) | To m (ft) | length m (ft) | MgO % | CaO % | SiO2 % | Fe2O3 % | LOI % |
|---|---|---|---|---|---|---|---|---|
| 14 7 | .2 m (0.67 ft) | 54 m (177.12 ft) | 53.8 m (176.46 ft) | 43.1 | 1.17 | 4.93 | 0.93 | 47.13 |

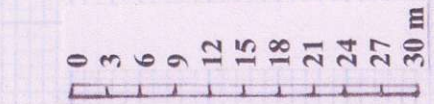
ROAD

**DDH 14-7 COLLAR**
**531408 E, 5639084 N, 1424 m elev**

ROAD

**LITHOLOGY LEGEND Helikian Mount Nelson Fm**

- Hmn 1A — Grey/LightGrey/Cream. Fine Grained DOLOMITE Stromatolites to 25cm D. Occational Cherty Layers. Contains Magnesite
- Hmn 1B — MAGNESITE
- Hmn 2 — Dark Red/ Brown. V. Fine Grained ARGILLACEOUS DOLOMITE Foliated. Occational Cherty/Light Coloured Wisps & Blebs to 4cm Thick.
- Hmn 3 — Light Grey/Buff/Green/Purple. Fine Grained DOLOMITE
- Hmn 4 — Light Grey/White QUARTZITE. V. Fine Grained/ Aphanitic Locally Thin Bedded. Locally Stromatolitic
- Hmn 5a — Indurated sandstone
- Hmn 5b — Indurated sandstone, chloritic




Scale bar (3 m sample interval)

| | MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % |
|---|---|---|---|---|---|
| 1b | 42.1 | 0.77 | 0.82 | 7.36 | 1.04 |
| 1b | 41.4 | 1.02 | 0.77 | 8.07 | 0.88 |
| 1b | 42.3 | 1.02 | 0.78 | 8.12 | 0.89 |
| 1b | 43.3 | 1.23 | 0.8 | 5.52 | 0.81 |
| 1b | 41.8 | 1.44 | 0.74 | 7.84 | 0.78 |
| 1b | 43.4 | 1.04 | 0.78 | 4.15 | 0.74 |
| 1b | 43.7 | 0.94 | 0.64 | 3.99 | 0.74 |
| 1b | 43.7 | 1.34 | 0.68 | 3.31 | 0.75 |
| 1b | 44.4 | 1.04 | 0.93 | 3.47 | 0.84 |
| 1b | 44 | 1.04 | 0.7 | 3.35 | 1.08 |
| 1b | 42 | 3.21 | 0.59 | 3.21 | 1.2 |
| 1b | 43.5 | 1.03 | 0.8 | 4.51 | 1.28 |
| 1b | 44.4 | 0.86 | 0.48 | 3.53 | 1.15 |
| 1b | 43.9 | 1.69 | 0.52 | 2.75 | 1.13 |
| 1b | 44.8 | 0.79 | 0.56 | 3.5 | 0.97 |
| 1b | 43.6 | 0.9 | 0.68 | 3 | 0.88 |
| 1b | 43.1 | 0.92 | 0.51 | 3.65 | 0.83 |
| 1a | 40.4 | 0.86 | 2.13 | 9.51 | 0.74 |
| | 35.9 | 1.28 | 3.87 | 17.55 | 0.89 |

Surface profile

1,400 m elevation

**14-7 -90 degrees dip**
**57.91 m depth**

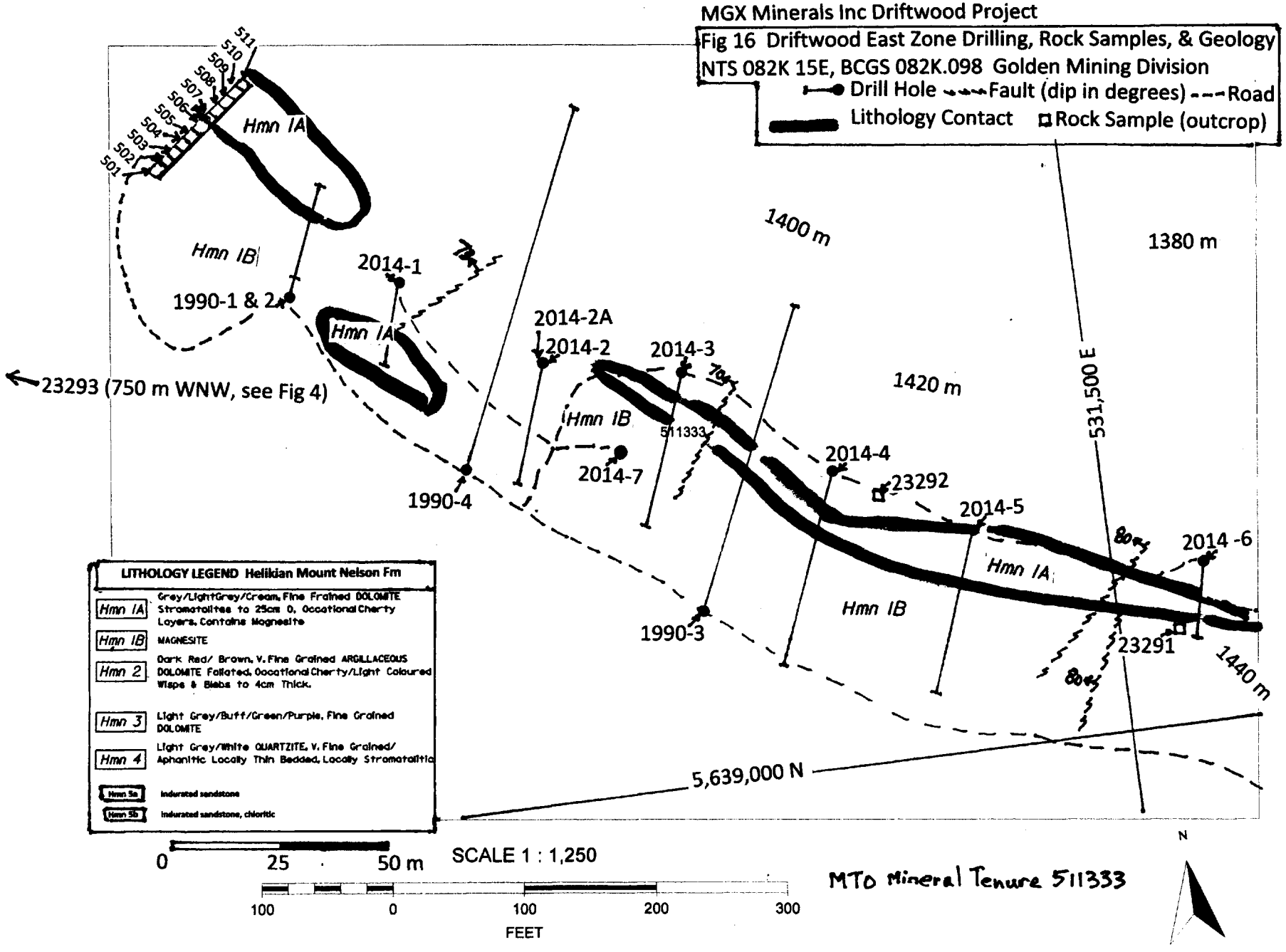
Zone of >40% MgO  Fault

**1b Magnesite**
**1a Magnesite + Dolomite**

**Fig 15**

**MGX Minerals Inc, Driftwood Project**
**Cross Section DDH 14-7 Looking 110 Degrees**

# Fig 16 Driftwood East Zone Drilling, Rock Samples, & Geology



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

APPENDIX A

To: MGX MINERALS INC
303-1080 HOWE STREET
VANCOUVER BC V6Z 2T1


Finalized Date: 12-NOV-2014
This copy reported on
9-DEC-2014
Account: MGXMIN

## CERTIFICATE KL14167811

Project: Driftwood Creek Magnesite

This report is for 162 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 28-OCT-2014.

The following have access to data associated with this certificate:

JARED LAZERSON

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize split to 85% <75 um |
| SPLIT-Z | Pulp split for send out |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |

## APPENDIX A ALS MINERALS CERTIFICATE KL14167811
## (141 Split core + 21 rock chip= 162 samples)

To: MGX MINERALS INC
ATTN: JARED LAZERSON
303-1080 HOWE STREET
VANCOUVER BC V6Z 2T1

| DDH # | ID # From | ID # To | QC/QA ID # | # of QC/QA samples | # of samples |
|---|---|---|---|---|---|
| 14 1 | 1 | 9 | | | 9 |
| 14 2 | 14 | 31 | 20 | 1 | 18 |
| 14 2A | 33 | 45 | 40 | 1 | 13 |
| 14 3 | 47 | 48 | | | 2 |
| 14 3 | 53 | 67 | 60 | 1 | 15 |
| 14 4 | 69 | 71 | | | 3 |
| 14 4 | 76 | 91 | 80 | 1 | 16 |
| 14 5 | 101 | 116 | | | 16 |
| 14 6 | 117 | 122 | 120 | 1 | 6 |
| 14 6 | 127 | 128 | | | 2 |
| 14 7 | 129 | 148 | 140 | 1 | 19 |

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **MGX MINERALS INC**
**303-1080 HOWE STREET**
**VANCOUVER BC V6Z 2T1**


**Finalized Date: 7-DEC-2014**
**This copy reported on**
**9-DEC-2014**
**Account: MGXMIN**

## CERTIFICATE KL14186883

Project: Driftwood Creek Magnesite

This report is for 162 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 2-DEC-2014.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| JARED LAZERSON | | |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| FND-02 | Find Sample for Addn Analysis |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-XRF26 | Whole Rock By Fusion/XRF | XRF |
| OA-GRA05x | LOI for XRF | WST-SEQ |

To: **MGX MINERALS INC**
**ATTN: JARED LAZERSON**
**303-1080 HOWE STREET**
**VANCOUVER BC V6Z 2T1**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: ME-XRF26 High total was obtained due to partial Sulphur being reported twice (in individual data and also in LOI data).

**Signature:**

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **MGX MINERALS INC**
**303-1080 HOWE STREET**
**VANCOUVER BC V6Z 2T1**


**Finalized Date: 7-DEC-2014**
**Account: MGXMIN**

Project: Driftwood Creek Magnesite

# CERTIFICATE OF ANALYSIS KL14186883

| | CERTIFICATE COMMENTS |
|---|---|
| | **LABORATORY ADDRESSES** |
| Applies to Method: | Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.<br>ME-XRF26 OA-GRA05x |

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: MGX MINERALS INC
303-1080 HOWE STREET
VANCOUVER BC V6Z 2T1


Finalized Date: 7-DEC-2014
Account: MGXMIN

Project: Driftwood Creek Magnesite

# CERTIFICATE OF ANALYSIS KL14186883

| Sample Description | Method | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SO3 | SiO2 | SrO | TiO2 | Total |
| | Units | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 001 14-1 1-3M | | 0.63 | 0.02 | 1.11 | <0.01 | 0.71 | 0.12 | 43.6 | 0.03 | 0.17 | 0.01 | <0.01 | 3.04 | <0.01 | 0.05 | 99.20 |
| 002 14-1 3-6M | | 0.62 | 0.02 | 0.80 | <0.01 | 0.68 | 0.10 | 43.3 | 0.03 | 0.16 | 0.01 | <0.01 | 3.14 | <0.01 | 0.03 | 98.67 |
| 003 14-1 6-9M | | 0.90 | 0.03 | 0.75 | <0.01 | 0.70 | 0.15 | 43.3 | 0.02 | 0.18 | 0.02 | 0.02 | 3.99 | <0.01 | 0.05 | 99.29 |
| 004 14-1 9-12M | | 0.63 | 0.03 | 0.74 | <0.01 | 0.94 | 0.16 | 43.4 | 0.03 | 0.18 | 0.01 | <0.01 | 3.50 | <0.01 | 0.04 | 99.14 |
| 005 14-1 12-15M | | 1.08 | 0.03 | 0.63 | <0.01 | 0.71 | 0.14 | 43.7 | 0.03 | 0.17 | 0.01 | <0.01 | 3.80 | <0.01 | 0.13 | 99.89 |
| 006 14-1 15-18M | | 0.86 | 0.03 | 0.92 | <0.01 | 0.88 | 0.09 | 44.3 | 0.03 | 0.17 | 0.02 | <0.01 | 2.38 | <0.01 | 0.09 | 99.81 |
| 007 14-1 18-21M | | 2.47 | 0.03 | 0.66 | <0.01 | 0.81 | 0.37 | 39.1 | 0.02 | 0.17 | 0.03 | 0.03 | 13.80 | <0.01 | 0.23 | 100.75 |
| 008 14-1 21-24M | | 1.95 | 0.03 | 0.63 | <0.01 | 0.61 | 0.13 | 40.6 | 0.02 | 0.16 | 0.01 | <0.01 | 11.10 | <0.01 | 0.10 | 99.91 |
| 009 14-1 24-27M | | 1.93 | 0.03 | 0.64 | <0.01 | 0.68 | 0.44 | 42.0 | 0.02 | 0.17 | 0.01 | 0.01 | 7.03 | <0.01 | 0.22 | 100.05 |
| 010 14-1 27-30M | | 4.13 | 0.02 | 3.20 | <0.01 | 0.78 | 0.25 | 34.2 | 0.02 | 0.13 | 0.04 | 0.10 | 17.40 | <0.01 | 0.40 | 100.15 |
| 011 14-1 30-33M | | 5.39 | 0.02 | 0.55 | <0.01 | 1.64 | 0.29 | 33.6 | 0.01 | 0.15 | 0.06 | 1.33 | 17.00 | <0.01 | 0.59 | 99.82 |
| 012 14-1 33-36M | | 3.83 | 0.02 | 0.50 | <0.01 | 1.40 | 0.19 | 35.9 | 0.02 | 0.14 | 0.03 | 1.30 | 16.35 | <0.01 | 0.32 | 100.90 |
| 013 14-1 36-37.8M | | 4.40 | 0.02 | 1.91 | <0.01 | 1.48 | 0.09 | 31.2 | 0.02 | 0.13 | 0.05 | 1.44 | 24.8 | <0.01 | 0.42 | 101.00 |
| 014 14-2 2-4M | | 0.60 | 0.03 | 0.91 | <0.01 | 0.85 | <0.01 | 44.0 | 0.03 | 0.17 | 0.01 | <0.01 | 3.37 | 0.01 | 0.04 | 99.48 |
| 015 14-2 4-6M | | 1.02 | 0.02 | 4.06 | <0.01 | 0.91 | <0.01 | 39.6 | 0.03 | 0.16 | 0.02 | <0.01 | 8.57 | <0.01 | 0.07 | 99.89 |
| 016 14-21 6-9M | | 0.82 | 0.02 | 1.00 | <0.01 | 0.77 | 0.04 | 40.6 | 0.03 | 0.15 | 0.01 | <0.01 | 11.15 | <0.01 | 0.07 | 100.25 |
| 017 14-2 9-12M | | 0.88 | 0.02 | 0.80 | <0.01 | 0.59 | 0.03 | 42.1 | 0.02 | 0.15 | 0.01 | <0.01 | 6.94 | <0.01 | 0.06 | 99.21 |
| 018 14-2 12-15M | | 0.70 | 0.02 | 0.80 | <0.01 | 0.66 | 0.02 | 43.1 | 0.02 | 0.16 | 0.02 | <0.01 | 5.13 | <0.01 | 0.06 | 99.15 |
| 019 14-2 15-18M | | 0.95 | 0.03 | 0.92 | <0.01 | 0.73 | 0.06 | 43.8 | 0.02 | 0.17 | 0.02 | <0.01 | 4.27 | <0.01 | 0.07 | 99.87 |
| 020 BLK-1 | | 0.02 | 0.03 | 0.62 | <0.01 | 0.25 | <0.01 | 46.6 | 0.02 | 0.18 | 0.01 | <0.01 | 0.07 | <0.01 | <0.01 | 99.25 |
| 021 14-2 18-21M | | 0.87 | 0.03 | 1.74 | <0.01 | 0.83 | 0.15 | 42.8 | 0.03 | 0.19 | 0.01 | <0.01 | 4.14 | <0.01 | 0.05 | 99.68 |
| 022 14-2 21-24M | | 0.85 | 0.03 | 1.84 | <0.01 | 0.71 | 0.04 | 43.3 | 0.03 | 0.16 | 0.01 | <0.01 | 3.18 | <0.01 | 0.04 | 99.50 |
| 023 14-2 24-27M | | 0.77 | 0.03 | 0.97 | <0.01 | 0.62 | 0.01 | 44.7 | 0.02 | 0.17 | 0.02 | <0.01 | 3.17 | <0.01 | 0.04 | 99.98 |
| 024 14-2 27-30M | | 0.87 | 0.02 | 0.76 | <0.01 | 0.59 | 0.03 | 43.9 | 0.02 | 0.17 | 0.02 | <0.01 | 3.37 | <0.01 | 0.05 | 99.11 |
| 025 14-2 30-33M | | 0.57 | 0.03 | 0.80 | <0.01 | 0.77 | 0.06 | 44.4 | 0.02 | 0.17 | 0.01 | <0.01 | 3.17 | <0.01 | 0.03 | 99.93 |
| 026 14-2 33-36M | | 0.59 | 0.02 | 0.78 | <0.01 | 0.83 | 0.09 | 44.1 | 0.03 | 0.17 | 0.01 | <0.01 | 3.02 | <0.01 | 0.02 | 99.56 |
| 027 14-2 36-39M | | 0.96 | 0.02 | 0.72 | <0.01 | 0.66 | 0.07 | 44.3 | 0.02 | 0.17 | 0.01 | <0.01 | 3.37 | <0.01 | 0.07 | 99.96 |
| 028 14-2 39-42M | | 1.32 | 0.02 | 0.69 | <0.01 | 0.73 | 0.04 | 43.9 | 0.02 | 0.16 | 0.02 | 0.05 | 4.66 | <0.01 | 0.11 | 99.94 |
| 029 14-2 42-45M | | 1.12 | 0.02 | 0.71 | <0.01 | 0.80 | 0.05 | 39.4 | 0.02 | 0.15 | 0.02 | 0.04 | 12.70 | <0.01 | 0.08 | 99.69 |
| 030 14-2 45-48M | | 0.84 | 0.03 | 0.77 | <0.01 | 0.88 | 0.06 | 43.1 | 0.02 | 0.17 | 0.02 | 0.01 | 4.38 | <0.01 | 0.06 | 99.44 |
| 031 14-2 48-51M | | 0.98 | 0.02 | 0.73 | <0.01 | 0.81 | 0.07 | 43.9 | 0.03 | 0.17 | 0.02 | <0.01 | 4.07 | <0.01 | 0.09 | 100.05 |
| 032 14-2 51-54.25M | | 3.20 | 0.02 | 0.46 | <0.01 | 0.67 | 0.07 | 37.1 | 0.01 | 0.14 | 0.05 | 0.15 | 18.00 | <0.01 | 0.28 | 99.93 |
| 033 14-2A 0.35-3M | | 0.65 | 0.03 | 0.58 | <0.01 | 0.82 | <0.01 | 45.3 | 0.03 | 0.17 | 0.01 | <0.01 | 2.62 | <0.01 | 0.04 | 100.25 |
| 034 14-2A 3-6M | | 0.97 | 0.03 | 0.58 | <0.01 | 0.70 | 0.01 | 45.0 | 0.02 | 0.17 | 0.01 | <0.01 | 3.11 | <0.01 | 0.05 | 100.20 |
| 035 14-2A 6-9M | | 1.81 | 0.02 | 1.74 | <0.01 | 0.96 | 0.18 | 38.2 | 0.02 | 0.14 | 0.02 | 0.05 | 13.85 | <0.01 | 0.15 | 100.10 |
| 036 14-2A 9-12M | | 0.86 | 0.03 | 1.78 | <0.01 | 0.60 | 0.03 | 40.9 | 0.02 | 0.16 | 0.01 | <0.01 | 9.17 | <0.01 | 0.07 | 99.47 |
| 037 14-2A 12-15M | | 3.36 | 0.02 | 1.10 | <0.01 | 0.91 | 0.14 | 35.7 | 0.02 | 0.14 | 0.02 | 0.40 | 18.80 | <0.01 | 0.32 | 98.99 |
| 038 14-2A 15-18M | | 0.99 | 0.03 | 0.95 | <0.01 | 0.83 | 0.01 | 42.8 | 0.03 | 0.16 | 0.01 | <0.01 | 5.81 | <0.01 | 0.08 | 99.28 |
| 039 14-2A 18-21M | | 1.36 | 0.03 | 3.62 | <0.01 | 1.07 | 0.04 | 40.1 | 0.03 | 0.14 | 0.01 | 0.05 | 5.62 | <0.01 | 0.11 | 99.51 |
| 040 BLK-2 | | 0.01 | 0.03 | 0.70 | <0.01 | 0.28 | <0.01 | 47.2 | 0.02 | 0.17 | <0.01 | <0.01 | 0.04 | <0.01 | <0.01 | 99.76 |

Comments: ME-XRF26 High total was obtained due to partial Sulphur being reported twice (in individual data and also in LOI data).

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **MGX MINERALS INC**
**303-1080 HOWE STREET**
**VANCOUVER BC V6Z 2T1**


**Finalized Date: 7-DEC-2014**
**Account: MGXMIN**

Project: Driftwood Creek Magnesite

# CERTIFICATE OF ANALYSIS KL14186883

| Sample Description | Method / Analyte / Units / LOR | OA-GRA05x<br>LOI 1000<br>%<br>0.01 |
|---|---|---|
| 001 14-1 1-3M | | 49.70 |
| 002 14-1 3-6M | | 49.77 |
| 003 14-1 6-9M | | 49.17 |
| 004 14-1 9-12M | | 49.47 |
| 005 14-1 12-15M | | 49.45 |
| 006 14-1 15-18M | | 50.03 |
| 007 14-1 18-21M | | 43.00 |
| 008 14-1 21-24M | | 44.56 |
| 009 14-1 24-27M | | 46.85 |
| 010 14-1 27-30M | | 39.48 |
| 011 14-1 30-33M | | 38.39 |
| 012 14-1 33-36M | | 40.86 |
| 013 14-1 36-37.8M | | 35.03 |
| 014 14-2 2-4M | | 49.45 |
| 015 14-2 4-6M | | 45.42 |
| 016 14-21 6-9M | | 45.59 |
| 017 14-2 9-12M | | 47.60 |
| 018 14-2 12-15M | | 48.45 |
| 019 14-2 15-18M | | 48.82 |
| 020 BLK-1 | | 51.44 |
| 021 14-2 18-21M | | 48.83 |
| 022 14-2 21-24M | | 49.30 |
| 023 14-2 24-27M | | 49.45 |
| 024 14-2 27-30M | | 49.29 |
| 025 14-2 30-33M | | 49.89 |
| 026 14-2 33-36M | | 49.89 |
| 027 14-2 36-39M | | 49.58 |
| 028 14-2 39-42M | | 48.21 |
| 029 14-2 42-45M | | 44.57 |
| 030 14-2 45-48M | | 49.09 |
| 031 14-2 48-51M | | 49.16 |
| 032 14-2 51-54.25M | | 39.77 |
| 033 14-2A 0.35-3M | | 49.99 |
| 034 14-2A 3-6M | | 49.53 |
| 035 14-2A 6-9M | | 42.97 |
| 036 14-2A 9-12M | | 45.83 |
| 037 14-2A 12-15M | | 38.04 |
| 038 14-2A 15-18M | | 47.57 |
| 039 14-2A 18-21M | | 47.31 |
| 040 BLK-2 | | 51.30 |

Comments: ME-XRF26 High total was obtained due to partial Sulphur being reported twice (in individual data and also in LOI data).

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: MGX MINERALS INC
303-1080 HOWE STREET
VANCOUVER BC V6Z 2T1


Finalized Date: 7-DEC-2014
Account: MGXMIN

Project: Driftwood Creek Magnesite

# CERTIFICATE OF ANALYSIS KL14186883

| Sample Description | Method | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SO3 | SiO2 | SrO | TiO2 | Total |
| | Units | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 041 14-2A 21-24M | | 0.65 | 0.03 | 2.11 | <0.01 | 1.17 | 0.01 | 41.7 | 0.04 | 0.15 | 0.01 | <0.01 | 5.03 | <0.01 | 0.05 | 99.34 |
| 042 14-2A 24-27M | | 0.80 | 0.03 | 2.04 | <0.01 | 1.19 | <0.01 | 42.3 | 0.03 | 0.16 | 0.01 | <0.01 | 4.65 | <0.01 | 0.08 | 99.42 |
| 043 14-2A 27-30M | | 0.64 | 0.03 | 1.62 | <0.01 | 1.13 | <0.01 | 43.2 | 0.04 | 0.16 | 0.01 | <0.01 | 3.51 | <0.01 | 0.04 | 99.44 |
| 044 14-2A 30-33M | | 1.29 | 0.03 | 1.12 | <0.01 | 0.97 | 0.01 | 42.7 | 0.03 | 0.16 | 0.01 | 0.06 | 5.88 | <0.01 | 0.14 | 99.61 |
| 045 14-2A 33-36M | | 0.64 | 0.03 | 0.71 | <0.01 | 0.74 | <0.01 | 44.5 | 0.03 | 0.16 | 0.01 | <0.01 | 3.47 | <0.01 | 0.05 | 99.73 |
| 046 14-2A 36-39M | | 7.94 | 0.02 | 1.06 | 0.01 | 2.54 | 0.70 | 25.0 | 0.01 | 0.11 | 0.09 | 2.57 | 38.3 | <0.01 | 1.34 | 102.45 |
| 047 14-3 2.8-6M | | 0.89 | 0.02 | 1.60 | <0.01 | 0.89 | 0.07 | 40.8 | 0.03 | 0.15 | 0.01 | <0.01 | 7.68 | <0.01 | 0.07 | 99.22 |
| 048 14-3 6-9M | | 2.09 | 0.03 | 0.69 | <0.01 | 1.07 | 0.05 | 41.3 | 0.02 | 0.15 | 0.03 | 0.31 | 9.02 | <0.01 | 0.23 | 100.05 |
| 049 14-3 9-12M | | 8.81 | 0.03 | 0.52 | 0.01 | 2.49 | 0.90 | 29.9 | 0.01 | 0.12 | 0.13 | 0.63 | 26.9 | <0.01 | 1.29 | 100.05 |
| 050 14-3 12-15M | | 15.65 | 0.02 | 0.33 | 0.01 | 8.43 | 0.36 | 17.75 | 0.01 | 0.09 | 0.22 | 1.42 | 46.3 | 0.01 | 3.53 | 101.15 |
| 051 14-3 15-18M | | 11.85 | 0.02 | 0.60 | 0.01 | 5.81 | 0.28 | 21.7 | 0.01 | 0.09 | 0.16 | 0.90 | 41.7 | <0.01 | 1.88 | 100.10 |
| 052 14-3 18-21M | | 2.76 | 0.03 | 1.02 | <0.01 | 1.07 | 0.35 | 36.3 | 0.03 | 0.13 | 0.03 | 0.01 | 16.40 | <0.01 | 0.28 | 99.31 |
| 053 14-3 21-24M | | 1.65 | 0.03 | 0.86 | <0.01 | 1.20 | 0.13 | 41.3 | 0.03 | 0.15 | 0.01 | <0.01 | 6.55 | <0.01 | 0.13 | 99.43 |
| 054 14-3 24-27M | | 2.26 | 0.03 | 0.83 | <0.01 | 0.79 | 0.13 | 38.6 | 0.02 | 0.14 | 0.01 | <0.01 | 11.90 | <0.01 | 0.22 | 99.33 |
| 055 14-3 27-30M | | 1.40 | 0.03 | 0.71 | <0.01 | 0.60 | 0.08 | 40.5 | 0.02 | 0.14 | 0.01 | <0.01 | 10.35 | <0.01 | 0.10 | 99.70 |
| 056 14-3 30-33M | | 2.47 | 0.02 | 0.65 | <0.01 | 0.68 | 0.08 | 38.4 | 0.02 | 0.13 | 0.02 | <0.01 | 14.85 | <0.01 | 0.04 | 99.34 |
| 057 14-3 33-36M | | 0.85 | 0.03 | 1.19 | <0.01 | 0.85 | 0.08 | 42.9 | 0.03 | 0.16 | 0.01 | <0.01 | 4.23 | <0.01 | 0.04 | 99.33 |
| 058 14-3 36-39M | | 0.77 | 0.03 | 4.22 | <0.01 | 1.46 | 0.06 | 40.5 | 0.04 | 0.15 | 0.01 | <0.01 | 3.89 | <0.01 | 0.07 | 99.51 |
| 059 14-3 39-42M | | 0.62 | 0.03 | 3.15 | <0.01 | 1.00 | 0.11 | 42.0 | 0.03 | 0.17 | 0.01 | <0.01 | 2.48 | <0.01 | 0.05 | 99.26 |
| 060 BLK-3 | | 0.02 | 0.03 | 0.51 | <0.01 | 0.24 | <0.01 | 46.7 | 0.02 | 0.18 | <0.01 | <0.01 | 0.05 | <0.01 | 0.01 | 99.07 |
| 061 14-3 42-45M | | 0.71 | 0.03 | 1.38 | <0.01 | 1.03 | 0.14 | 43.2 | 0.04 | 0.16 | 0.01 | <0.01 | 2.46 | <0.01 | 0.04 | 99.24 |
| 062 14-3 45-48M | | 1.46 | 0.02 | 1.58 | <0.01 | 0.97 | 0.18 | 41.3 | 0.03 | 0.16 | 0.01 | 0.06 | 5.50 | <0.01 | 0.14 | 99.07 |
| 063 14-3 48-51M | | 1.16 | 0.03 | 0.94 | <0.01 | 0.85 | 0.11 | 41.8 | 0.02 | 0.16 | 0.01 | 0.02 | 6.91 | <0.01 | 0.10 | 99.22 |
| 064 14-3 51-54M | | 0.79 | 0.03 | 0.74 | <0.01 | 0.74 | 0.16 | 41.7 | 0.02 | 0.16 | 0.02 | 0.05 | 7.18 | <0.01 | 0.06 | 99.17 |
| 065 14-3 54-57M | | 1.01 | 0.03 | 0.83 | <0.01 | 0.82 | 0.14 | 43.5 | 0.02 | 0.16 | 0.01 | 0.01 | 4.22 | <0.01 | 0.09 | 99.80 |
| 066 14-31 57-60M | | 1.01 | 0.03 | 0.75 | <0.01 | 0.65 | 0.15 | 43.3 | 0.02 | 0.16 | 0.01 | 0.05 | 4.67 | <0.01 | 0.10 | 99.70 |
| 067 14-3 60-63M | | 1.22 | 0.03 | 0.73 | <0.01 | 0.72 | 0.17 | 42.3 | 0.02 | 0.15 | 0.02 | 0.29 | 5.73 | <0.01 | 0.12 | 99.40 |
| 068 14-3 63-65.53M | | 3.77 | 0.02 | 0.49 | <0.01 | 0.62 | 0.09 | 33.6 | 0.01 | 0.11 | 0.06 | 0.06 | 24.0 | <0.01 | 0.34 | 99.45 |
| 069 14-4 0.8.3M | | 0.93 | 0.03 | 0.79 | <0.01 | 0.80 | <0.01 | 43.9 | 0.03 | 0.16 | 0.01 | <0.01 | 4.25 | <0.01 | 0.08 | 99.36 |
| 070 14-4 3-6M | | 0.45 | 0.03 | 1.26 | <0.01 | 0.89 | <0.01 | 43.8 | 0.03 | 0.15 | 0.01 | <0.01 | 2.99 | <0.01 | 0.03 | 99.17 |
| 071 14-4 6-9M | | 1.04 | 0.03 | 1.56 | <0.01 | 0.87 | 0.01 | 42.1 | 0.03 | 0.15 | 0.01 | <0.01 | 5.15 | <0.01 | 0.07 | 98.99 |
| 072 14-4 9-12M | | 1.07 | 0.03 | 3.71 | <0.01 | 1.19 | 0.01 | 39.6 | 0.04 | 0.14 | 0.01 | <0.01 | 7.62 | <0.01 | 0.12 | 99.99 |
| 073 14-4 12-15M | | 1.95 | 0.02 | 15.40 | 0.01 | 1.70 | 0.11 | 20.4 | 0.05 | 0.09 | 0.03 | 0.18 | 24.7 | 0.01 | 0.24 | 99.58 |
| 074 14-4 15-18M | | 1.63 | 0.03 | 4.93 | <0.01 | 1.21 | 0.02 | 33.5 | 0.03 | 0.13 | 0.03 | 0.08 | 16.70 | <0.01 | 0.16 | 99.50 |
| 075 14-4 18-21M | | 7.48 | 0.02 | 1.38 | 0.01 | 3.02 | 0.27 | 29.5 | 0.02 | 0.12 | 0.10 | 0.99 | 26.3 | <0.01 | 1.10 | 99.58 |
| 076 14-4 21-24M | | 1.65 | 0.02 | 1.12 | <0.01 | 0.70 | 0.13 | 39.7 | 0.02 | 0.16 | 0.02 | 0.01 | 10.75 | <0.01 | 0.13 | 99.46 |
| 077 14-4 24-27M | | 0.81 | 0.03 | 0.63 | <0.01 | 0.50 | 0.19 | 41.7 | 0.02 | 0.18 | 0.01 | <0.01 | 7.71 | <0.01 | 0.08 | 99.13 |
| 078 14-4 27-30M | | 0.73 | 0.03 | 0.85 | <0.01 | 0.52 | 0.06 | 42.5 | 0.02 | 0.17 | 0.01 | <0.01 | 6.13 | <0.01 | 0.07 | 99.24 |
| 079 14-4 30-33M | | 1.07 | 0.03 | 0.69 | <0.01 | 0.58 | 0.05 | 43.3 | 0.02 | 0.17 | 0.02 | <0.01 | 4.70 | <0.01 | 0.10 | 99.15 |
| 080 BLK-4 | | 0.06 | 0.03 | 0.41 | <0.01 | 0.25 | <0.01 | 47.0 | 0.02 | 0.20 | 0.01 | 0.02 | 0.11 | <0.01 | 0.01 | 99.57 |

Comments: ME-XRF26 High total was obtained due to partial Sulphur being reported twice (in individual data and also in LOI data).

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: MGX MINERALS INC
303-1080 HOWE STREET
VANCOUVER BC V6Z 2T1


Finalized Date: 7-DEC-2014
Account: MGXMIN

Project: Driftwood Creek Magnesite

## CERTIFICATE OF ANALYSIS KL14186883

| Sample Description | Method / Analyte / Units / LOR | OA-GRA05x<br>LOI 1000<br>%<br>0.01 |
|---|---|---|
| 041 14-2A 21-24M | | 48.38 |
| 042 14-2A 24-27M | | 48.11 |
| 043 14-2A 27-30M | | 49.04 |
| 044 14-2A 30-33M | | 47.18 |
| 045 14-2A 33-36M | | 49.38 |
| 046 14-2A 36-39M | | 22.67 |
| 047 14-3 2.8-6M | | 46.99 |
| 048 14-3 6-9M | | 45.04 |
| 049 14-3 9-12M | | 28.27 |
| 050 14-3 12-15M | | 7.92 |
| 051 14-3 15-18M | | 15.00 |
| 052 14-3 18-21M | | 40.88 |
| 053 14-3 21-24M | | 47.38 |
| 054 14-3 24-27M | | 44.38 |
| 055 14-3 27-30M | | 45.74 |
| 056 14-3 30-33M | | 41.76 |
| 057 14-3 33-36M | | 49.15 |
| 058 14-3 36-39M | | 48.29 |
| 059 14-3 39-42M | | 49.59 |
| 060 BLK-3 | | 51.29 |
| 061 14-3 42-45M | | 50.03 |
| 062 14-3 45-48M | | 47.64 |
| 063 14-3 48-51M | | 47.10 |
| 064 14-3 51-54M | | 47.51 |
| 065 14-3 54-57M | | 48.95 |
| 066 14-31 57-60M | | 48.79 |
| 067 14-3 60-63M | | 47.88 |
| 068 14-3 63-65.53M | | 36.26 |
| 069 14-4 0.8.3M | | 48.36 |
| 070 14-4 3-6M | | 49.52 |
| 071 14-4 6-9M | | 47.96 |
| 072 14-4 9-12M | | 46.43 |
| 073 14-4 12-15M | | 34.68 |
| 074 14-4 15-18M | | 41.04 |
| 075 14-4 18-21M | | 29.24 |
| 076 14-4 21-24M | | 45.04 |
| 077 14-4 24-27M | | 47.26 |
| 078 14-4 27-30M | | 48.14 |
| 079 14-4 30-33M | | 48.41 |
| 080 BLK-4 | | 51.44 |

Comments: ME-XRF26 High total was obtained due to partial Sulphur being reported twice (in individual data and also in LOI data).

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **MGX MINERALS INC**
**303-1080 HOWE STREET**
**VANCOUVER BC V6Z 2T1**


**Finalized Date: 7-DEC-2014**
**Account: MGXMIN**

Project: Driftwood Creek Magnesite

## CERTIFICATE OF ANALYSIS KL14186883

| Sample Description | Method / Analyte / Units / LOR | ME-XRF26 Al2O3 % 0.01 | ME-XRF26 BaO % 0.01 | ME-XRF26 CaO % 0.01 | ME-XRF26 Cr2O3 % 0.01 | ME-XRF26 Fe2O3 % 0.01 | ME-XRF26 K2O % 0.01 | ME-XRF26 MgO % 0.01 | ME-XRF26 MnO % 0.01 | ME-XRF26 Na2O % 0.01 | ME-XRF26 P2O5 % 0.01 | ME-XRF26 SO3 % 0.01 | ME-XRF26 SiO2 % 0.01 | ME-XRF26 SrO % 0.01 | ME-XRF26 TiO2 % 0.01 | ME-XRF26 Total % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 081 14-4 33-36M | | 0.78 | 0.03 | 0.83 | <0.01 | 0.59 | 0.10 | 42.6 | 0.02 | 0.16 | 0.01 | <0.01 | 5.74 | <0.01 | 0.07 | 99.23 |
| 082 14-4 36-39M | | 0.95 | 0.03 | 1.10 | <0.01 | 0.72 | 0.23 | 43.2 | 0.03 | 0.22 | 0.02 | <0.01 | 2.87 | <0.01 | 0.09 | 99.12 |
| 083 14-4 39-42M | | 0.78 | 0.03 | 1.22 | <0.01 | 0.92 | 0.13 | 43.5 | 0.02 | 0.18 | 0.02 | <0.01 | 2.28 | <0.01 | 0.07 | 99.28 |
| 084 14-4 42-45M | | 0.64 | 0.03 | 4.05 | <0.01 | 1.17 | 0.14 | 41.0 | 0.03 | 0.16 | 0.01 | 0.04 | 2.29 | <0.01 | 0.03 | 99.21 |
| 085 14-4 45-48M | | 0.68 | 0.03 | 2.86 | <0.01 | 0.98 | 0.14 | 42.1 | 0.03 | 0.17 | 0.01 | <0.01 | 2.61 | <0.01 | 0.05 | 99.36 |
| 086 14-4 48-51M | | 0.57 | 0.03 | 6.45 | <0.01 | 0.88 | 0.06 | 39.2 | 0.03 | 0.15 | 0.01 | <0.01 | 3.24 | <0.01 | 0.04 | 99.46 |
| 087 14-4 51-54M | | 0.79 | 0.03 | 1.81 | <0.01 | 0.91 | 0.05 | 42.4 | 0.03 | 0.16 | 0.01 | <0.01 | 4.31 | <0.01 | 0.07 | 99.65 |
| 088 14-4 54-57M | | 1.15 | 0.03 | 0.96 | <0.01 | 0.71 | 0.07 | 42.9 | 0.02 | 0.16 | 0.01 | 0.01 | 3.96 | <0.01 | 0.09 | 99.28 |
| 089 14-4 57-60M | | 1.11 | 0.03 | 4.40 | <0.01 | 0.83 | 0.10 | 40.4 | 0.03 | 0.16 | 0.02 | 0.17 | 4.85 | <0.01 | 0.09 | 100.40 |
| 090 14-4 60-63M | | 1.23 | 0.03 | 1.86 | <0.01 | 0.74 | 0.12 | 42.2 | 0.02 | 0.16 | 0.02 | 0.18 | 4.96 | <0.01 | 0.14 | 99.73 |
| 091 14-4 63-66M | | 1.04 | 0.03 | 2.34 | 0.01 | 0.77 | 0.11 | 42.1 | 0.02 | 0.16 | 0.02 | 0.17 | 4.29 | <0.01 | 0.12 | 99.71 |
| 092 14-4 66-69M | | 2.12 | 0.02 | 3.78 | <0.01 | 0.68 | 0.02 | 36.4 | 0.02 | 0.14 | 0.04 | 0.09 | 15.00 | 0.01 | 0.20 | 99.54 |
| 093 14-5 2.8-6M | | 1.82 | 0.03 | 0.80 | <0.01 | 0.95 | 0.02 | 39.8 | 0.02 | 0.15 | 0.03 | 0.02 | 10.75 | <0.01 | 0.20 | 99.23 |
| 094 14-5 6-9M | | 2.38 | 0.02 | 2.85 | 0.01 | 1.19 | 0.01 | 34.8 | 0.03 | 0.13 | 0.05 | 0.02 | 18.55 | <0.01 | 0.22 | 99.19 |
| 095 14-5 9-12M | | 1.46 | 0.02 | 12.40 | 0.02 | 1.35 | 0.09 | 18.85 | 0.06 | 0.15 | 0.05 | 0.02 | 36.2 | 0.01 | 0.21 | 100.50 |
| 096 14-5 12-15M | | 1.85 | 0.02 | 10.70 | 0.01 | 1.05 | 0.04 | 21.6 | 0.03 | 0.18 | 0.03 | 0.05 | 34.1 | 0.01 | 0.20 | 100.10 |
| 097 14-5 15-18M | | 2.75 | 0.02 | 0.58 | 0.01 | 1.05 | 0.01 | 37.6 | 0.02 | 0.14 | 0.03 | 0.18 | 17.20 | <0.01 | 0.18 | 99.64 |
| 098 14-5 18-21M | | 2.60 | 0.03 | 0.77 | 0.01 | 0.96 | 0.01 | 38.6 | 0.02 | 0.15 | 0.03 | 0.18 | 14.85 | <0.01 | 0.17 | 99.71 |
| 099 14-5 21-24M | | 1.17 | 0.02 | 1.34 | <0.01 | 1.22 | 0.01 | 37.8 | 0.02 | 0.15 | 0.02 | 0.48 | 15.40 | <0.01 | 0.12 | 99.92 |
| 100 BLK-5 | | 0.03 | 0.03 | 0.47 | <0.01 | 0.23 | <0.01 | 46.9 | 0.02 | 0.19 | 0.01 | 0.01 | 0.07 | <0.01 | <0.01 | 99.38 |
| 101 14-5 24-27M | | 1.27 | 0.03 | 0.92 | <0.01 | 0.99 | 0.01 | 41.2 | 0.02 | 0.16 | 0.02 | <0.01 | 9.31 | <0.01 | 0.12 | 99.51 |
| 102 14-5 27-30M | | 0.96 | 0.03 | 0.83 | <0.01 | 0.75 | <0.01 | 42.9 | 0.02 | 0.16 | 0.01 | <0.01 | 5.81 | <0.01 | 0.08 | 99.32 |
| 103 14-51 30-33M | | 0.93 | 0.03 | 0.86 | <0.01 | 0.76 | 0.02 | 41.2 | 0.02 | 0.16 | 0.01 | <0.01 | 8.02 | <0.01 | 0.09 | 99.07 |
| 104 14-5 33-36M | | 0.95 | 0.03 | 0.89 | <0.01 | 1.00 | 0.02 | 40.0 | 0.02 | 0.15 | 0.01 | <0.01 | 10.65 | <0.01 | 0.09 | 99.38 |
| 105 14-5 36-39M | | 1.05 | 0.02 | 1.17 | <0.01 | 0.96 | 0.05 | 41.2 | 0.02 | 0.15 | 0.01 | <0.01 | 8.40 | <0.01 | 0.08 | 98.84 |
| 106 14-5 39-42M | | 0.84 | 0.02 | 11.50 | <0.01 | 0.78 | 0.03 | 33.3 | 0.04 | 0.13 | 0.01 | 0.02 | 5.21 | 0.01 | 0.07 | 98.88 |
| 107 14-5 42-45M | | 0.60 | 0.02 | 2.05 | <0.01 | 1.04 | 0.01 | 42.4 | 0.03 | 0.16 | 0.01 | 0.13 | 3.26 | <0.01 | 0.04 | 99.26 |
| 108 14-5 45-48M | | 0.88 | 0.02 | 0.95 | <0.01 | 0.69 | 0.02 | 43.4 | 0.02 | 0.16 | 0.01 | 0.01 | 3.50 | <0.01 | 0.06 | 99.39 |
| 109 14-5 48-51M | | 0.83 | 0.02 | 1.26 | <0.01 | 0.70 | 0.02 | 43.9 | 0.01 | 0.16 | 0.01 | <0.01 | 3.84 | <0.01 | 0.04 | 100.30 |
| 110 14-5 51-54M | | 0.55 | 0.02 | 0.95 | <0.01 | 0.61 | <0.01 | 44.5 | 0.01 | 0.15 | 0.01 | <0.01 | 2.18 | <0.01 | 0.03 | 99.33 |
| 111 14-5 54-57M | | 0.81 | 0.02 | 0.90 | <0.01 | 0.72 | 0.01 | 44.5 | 0.02 | 0.15 | 0.01 | 0.01 | 3.32 | <0.01 | 0.07 | 100.00 |
| 112 14-5 57-60M | | 1.45 | 0.02 | 0.88 | <0.01 | 0.59 | 0.03 | 42.3 | 0.01 | 0.15 | 0.01 | 0.01 | 6.20 | <0.01 | 0.11 | 99.52 |
| 113 14-5 60-63M | | 1.22 | 0.02 | 0.74 | <0.01 | 0.65 | 0.03 | 41.0 | 0.01 | 0.14 | 0.01 | 0.09 | 8.87 | <0.01 | 0.11 | 99.35 |
| 114 14-5 63-66M | | 1.24 | 0.02 | 0.58 | <0.01 | 0.66 | 0.04 | 37.1 | 0.01 | 0.13 | 0.01 | 0.11 | 18.20 | <0.01 | 0.09 | 100.00 |
| 115 14-5 66-69M | | 0.79 | 0.02 | 0.79 | <0.01 | 0.75 | 0.02 | 40.9 | 0.02 | 0.14 | 0.01 | 0.04 | 8.71 | <0.01 | 0.08 | 99.70 |
| 116 14-5 69-71.63M | | 0.78 | 0.02 | 0.94 | <0.01 | 0.75 | 0.02 | 43.1 | 0.02 | 0.16 | 0.01 | 0.06 | 5.45 | <0.01 | 0.05 | 100.15 |
| 117 14-6 3-6M | | 1.14 | 0.02 | 0.78 | <0.01 | 0.80 | <0.01 | 43.6 | 0.02 | 0.15 | 0.01 | 0.01 | 4.84 | <0.01 | 0.10 | 99.79 |
| 118 14-6 6-9M | | 1.34 | 0.02 | 0.80 | <0.01 | 0.90 | <0.01 | 44.3 | 0.02 | 0.15 | 0.01 | 0.01 | 4.07 | <0.01 | 0.11 | 100.10 |
| 119 14-6 9-12M | | 1.10 | 0.02 | 1.37 | <0.01 | 0.82 | <0.01 | 44.1 | 0.01 | 0.15 | 0.01 | 0.16 | 4.63 | <0.01 | 0.09 | 100.40 |
| 120 BLK-6 | | <0.01 | 0.02 | 0.40 | <0.01 | 0.21 | <0.01 | 47.3 | 0.01 | 0.16 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | 99.26 |

Comments: ME-XRF26 High total was obtained due to partial Sulphur being reported twice (in individual data and also in LOI data).

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **MGX MINERALS INC**
**303-1080 HOWE STREET**
**VANCOUVER BC V6Z 2T1**


**Finalized Date: 7-DEC-2014**
**Account: MGXMIN**

Project: Driftwood Creek Magnesite

## CERTIFICATE OF ANALYSIS KL14186883

| Sample Description | Method / Analyte / Units / LOR | OA-GRA05x LOI 1000 % 0.01 |
|---|---|---|
| 081 14-4 33-36M | | 48.29 |
| 082 14-4 36-39M | | 49.65 |
| 083 14-4 39-42M | | 50.12 |
| 084 14-4 42-45M | | 49.61 |
| 085 14-4 45-48M | | 49.69 |
| 086 14-4 48-51M | | 48.79 |
| 087 14-4 51-54M | | 49.07 |
| 088 14-4 54-57M | | 49.20 |
| 089 14-4 57-60M | | 48.20 |
| 090 14-4 60-63M | | 48.06 |
| 091 14-4 63-66M | | 48.51 |
| 092 14-4 66-69M | | 41.01 |
| 093 14-5 2.8-6M | | 44.63 |
| 094 14-5 6-9M | | 38.92 |
| 095 14-5 9-12M | | 29.59 |
| 096 14-5 12-15M | | 30.20 |
| 097 14-5 15-18M | | 39.86 |
| 098 14-5 18-21M | | 41.32 |
| 099 14-5 21-24M | | 42.16 |
| 100 BLK-5 | | 51.41 |
| 101 14-5 24-27M | | 45.45 |
| 102 14-5 27-30M | | 47.76 |
| 103 14-51 30-33M | | 46.96 |
| 104 14-5 33-36M | | 45.56 |
| 105 14-5 36-39M | | 47.72 |
| 106 14-5 39-42M | | 46.91 |
| 107 14-5 42-45M | | 49.49 |
| 108 14-5 45-48M | | 49.66 |
| 109 14-5 48-51M | | 49.50 |
| 110 14-5 51-54M | | 50.31 |
| 111 14-5 54-57M | | 49.47 |
| 112 14-5 57-60M | | 47.75 |
| 113 14-5 60-63M | | 46.45 |
| 114 14-5 63-66M | | 41.81 |
| 115 14-5 66-69M | | 46.41 |
| 116 14-5 69-71.63M | | 48.76 |
| 117 14-6 3-6M | | 48.31 |
| 118 14-6 6-9M | | 48.35 |
| 119 14-6 9-12M | | 47.92 |
| 120 BLK-6 | | 51.12 |

Comments: ME-XRF26 High total was obtained due to partial Sulphur being reported twice (in individual data and also in LOI data).

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **MGX MINERALS INC**
**303-1080 HOWE STREET**
**VANCOUVER BC V6Z 2T1**


**Finalized Date: 7-DEC-2014**
**Account: MGXMIN**

Project: Driftwood Creek Magnesite

# CERTIFICATE OF ANALYSIS KL14186883

| Sample Description | Method | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SO3 | SiO2 | SrO | TiO2 | Total |
| | Units | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 121 14-6 12-15M | | 1.36 | 0.02 | 1.86 | <0.01 | 0.90 | <0.01 | 41.2 | 0.02 | 0.14 | 0.02 | 0.02 | 8.38 | <0.01 | 0.10 | 99.68 |
| 122 14-6 15-18M | | 0.94 | 0.01 | 4.75 | <0.01 | 0.90 | <0.01 | 39.9 | 0.02 | 0.30 | 0.02 | <0.01 | 5.80 | 0.01 | 0.10 | 99.92 |
| 123 14-6 18-21M | | 2.83 | 0.02 | 4.76 | <0.01 | 0.92 | <0.01 | 34.2 | 0.03 | 0.28 | 0.04 | 0.01 | 17.90 | <0.01 | 0.25 | 99.98 |
| 124 14-6 21-24M | | 4.01 | 0.01 | 18.60 | <0.01 | 1.37 | 0.04 | 18.95 | 0.06 | 0.07 | 0.06 | 0.01 | 25.6 | 0.01 | 0.37 | 100.40 |
| 125 14-6 24-27M | | 1.76 | 0.04 | 0.86 | <0.01 | 0.85 | <0.01 | 39.1 | 0.01 | 0.12 | 0.03 | 0.01 | 14.45 | <0.01 | 0.16 | 99.56 |
| 126 14-6 27-30M | | 2.82 | 0.02 | 6.91 | <0.01 | 1.22 | 0.01 | 30.7 | 0.03 | 0.11 | 0.04 | 0.02 | 21.7 | <0.01 | 0.27 | 100.05 |
| 127 14-6 30-33M | | 1.50 | 0.05 | 0.65 | <0.01 | 0.95 | <0.01 | 41.0 | 0.02 | 0.14 | 0.02 | 0.02 | 9.73 | <0.01 | 0.13 | 99.46 |
| 128 14-6 33-36.58M | | 1.54 | 0.03 | 0.73 | <0.01 | 0.98 | <0.01 | 42.7 | 0.02 | 0.16 | 0.02 | 0.01 | 8.40 | <0.01 | 0.14 | 100.30 |
| 129 14-7 0.2-3M | | 0.82 | 0.02 | 0.77 | <0.01 | 1.04 | 0.02 | 42.1 | 0.02 | 0.16 | 0.01 | <0.01 | 7.36 | <0.01 | 0.07 | 100.10 |
| 130 14-7 3-6M | | 0.77 | 0.02 | 1.02 | <0.01 | 0.88 | 0.01 | 41.4 | 0.02 | 0.15 | 0.01 | <0.01 | 8.07 | <0.01 | 0.07 | 99.58 |
| 131 14-7 6-9M | | 0.78 | 0.01 | 1.02 | <0.01 | 0.86 | 0.01 | 42.3 | 0.02 | 0.15 | 0.01 | <0.01 | 8.12 | <0.01 | 0.05 | 99.10 |
| 132 14-7 9-12M | | 0.80 | 0.02 | 1.23 | <0.01 | 0.81 | 0.02 | 43.3 | 0.02 | 0.15 | 0.01 | <0.01 | 5.52 | <0.01 | 0.07 | 100.45 |
| 134 14-7 12-15M | | 0.74 | 0.01 | 1.44 | <0.01 | 0.78 | 0.06 | 41.8 | 0.02 | 0.14 | 0.01 | <0.01 | 7.84 | <0.01 | 0.05 | 100.20 |
| 135 14-7 15-18M | | 0.76 | 0.02 | 1.04 | <0.01 | 0.74 | 0.08 | 43.4 | 0.02 | 0.15 | 0.01 | <0.01 | 4.15 | <0.01 | 0.06 | 99.67 |
| 136 14-7 8-21M | | 0.64 | 0.02 | 0.94 | <0.01 | 0.74 | 0.02 | 43.7 | 0.02 | 0.15 | 0.01 | <0.01 | 3.99 | <0.01 | 0.07 | 99.57 |
| 137 14-7 21-24M | | 0.68 | 0.02 | 1.34 | <0.01 | 0.75 | 0.04 | 43.7 | 0.02 | 0.16 | 0.01 | <0.01 | 3.31 | <0.01 | 0.05 | 99.69 |
| 138 14-7 24-27M | | 0.93 | 0.02 | 1.04 | <0.01 | 0.84 | 0.10 | 44.4 | 0.02 | 0.15 | 0.01 | <0.01 | 3.47 | <0.01 | 0.07 | 100.20 |
| 139 14-7 27-30M | | 0.70 | 0.02 | 1.04 | <0.01 | 1.08 | 0.08 | 44.0 | 0.02 | 0.18 | 0.01 | <0.01 | 3.35 | <0.01 | 0.04 | 99.92 |
| 140 BLK 7 | | 0.07 | 0.02 | 0.50 | <0.01 | 0.28 | <0.01 | 47.4 | 0.01 | 0.18 | <0.01 | 0.04 | 0.10 | <0.01 | <0.01 | 99.70 |
| 141 14-7 30-33M | | 0.59 | 0.02 | 3.21 | <0.01 | 1.20 | 0.13 | 42.0 | 0.05 | 0.20 | 0.01 | <0.01 | 3.21 | 0.01 | 0.03 | 99.73 |
| 142 14-7 33-36M | | 0.80 | 0.02 | 1.03 | <0.01 | 1.28 | 0.02 | 43.5 | 0.03 | 0.15 | 0.01 | 0.01 | 4.51 | <0.01 | 0.05 | 99.94 |
| 143 14-7 36-39M | | 0.48 | 0.02 | 0.86 | <0.01 | 1.15 | 0.05 | 44.4 | 0.03 | 0.15 | 0.01 | <0.01 | 3.53 | <0.01 | 0.02 | 100.30 |
| 144 14-7 39-42M | | 0.52 | 0.02 | 1.69 | <0.01 | 1.13 | 0.09 | 43.9 | 0.03 | 0.16 | 0.01 | 0.03 | 2.75 | <0.01 | 0.02 | 100.25 |
| 145 14-7 42-45M | | 0.56 | 0.02 | 0.79 | <0.01 | 0.97 | 0.06 | 44.8 | 0.02 | 0.15 | 0.01 | <0.01 | 3.50 | <0.01 | 0.03 | 100.45 |
| 146 14-7 45-48M | | 0.68 | 0.03 | 0.90 | <0.01 | 0.88 | 0.11 | 43.6 | 0.02 | 0.19 | 0.01 | <0.01 | 3.00 | <0.01 | 0.04 | 99.44 |
| 147 14-7 48-51M | | 0.51 | 0.02 | 0.92 | <0.01 | 0.83 | 0.12 | 43.1 | 0.02 | 0.17 | 0.01 | <0.01 | 3.65 | <0.01 | 0.02 | 98.94 |
| 148 14-7 51-54M | | 2.13 | 0.02 | 0.86 | <0.01 | 0.74 | 0.16 | 40.4 | 0.01 | 0.16 | 0.01 | 0.01 | 9.51 | <0.01 | 0.21 | 100.05 |
| 149 14-7 54-57.91M | | 3.87 | 0.02 | 1.28 | 0.01 | 0.89 | 0.33 | 35.9 | 0.01 | 0.14 | 0.01 | 0.13 | 17.55 | <0.01 | 0.44 | 99.81 |
| KM4409 23291 | | 0.64 | 0.02 | 1.08 | 0.01 | 0.94 | <0.01 | 44.6 | 0.02 | 0.17 | 0.02 | <0.01 | 2.71 | <0.01 | 0.05 | 99.94 |
| KM4409 23292 | | 0.04 | 0.02 | 4.62 | 0.01 | 0.98 | <0.01 | 40.6 | 0.05 | 0.16 | 0.01 | <0.01 | 3.97 | <0.01 | <0.01 | 99.37 |
| KM4409 23293 | | 0.74 | 0.03 | 0.97 | <0.01 | 0.97 | <0.01 | 43.2 | 0.03 | 0.17 | 0.02 | <0.01 | 5.71 | <0.01 | 0.05 | 100.25 |
| KM4409 501 | | 0.81 | 0.03 | 0.95 | 0.01 | 0.77 | 0.07 | 43.6 | 0.02 | 0.17 | 0.02 | <0.01 | 4.68 | <0.01 | 0.07 | 100.15 |
| KM4409 502 | | 0.69 | 0.02 | 1.45 | <0.01 | 0.85 | 0.05 | 43.8 | 0.02 | 0.17 | 0.02 | <0.01 | 2.94 | <0.01 | 0.05 | 99.86 |
| KM4409 503 | | 0.75 | 0.02 | 2.14 | <0.01 | 0.77 | 0.07 | 40.2 | 0.02 | 0.15 | 0.02 | <0.01 | 8.94 | <0.01 | 0.06 | 99.59 |
| KM4409 504 | | 0.66 | 0.02 | 0.55 | <0.01 | 0.65 | 0.08 | 44.6 | 0.01 | 0.17 | 0.01 | <0.01 | 2.39 | <0.01 | 0.04 | 99.34 |
| KM4409 505 | | 0.49 | 0.03 | 0.68 | <0.01 | 0.69 | 0.10 | 42.9 | 0.01 | 0.17 | 0.01 | <0.01 | 7.27 | <0.01 | 0.03 | 100.15 |
| KM4409 506 | | 0.77 | 0.02 | 0.59 | <0.01 | 0.61 | 0.15 | 40.7 | 0.01 | 0.16 | 0.02 | <0.01 | 11.35 | 0.01 | 0.06 | 99.94 |
| KM4409 507 | | 1.81 | 0.03 | 2.31 | <0.01 | 1.01 | 0.10 | 38.2 | 0.02 | 0.15 | 0.05 | <0.01 | 12.10 | <0.01 | 0.15 | 100.20 |
| KM4409 508 | | 3.69 | 0.02 | 4.33 | 0.01 | 1.05 | 0.11 | 27.6 | 0.02 | 0.12 | 0.02 | <0.01 | 29.2 | <0.01 | 0.38 | 100.50 |
| KM4409 509 | | 6.67 | 0.02 | 4.57 | 0.01 | 2.09 | 0.18 | 14.95 | 0.02 | 0.07 | 0.03 | 0.22 | 48.2 | <0.01 | 0.64 | 100.05 |

Comments: ME-XRF26 High total was obtained due to partial Sulphur being reported twice (in individual data and also in LOI data).

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **MGX MINERALS INC**
**303-1080 HOWE STREET**
**VANCOUVER BC V6Z 2T1**


**Finalized Date: 7-DEC-2014**
**Account: MGXMIN**

Project: Driftwood Creek Magnesite

# CERTIFICATE OF ANALYSIS KL14186883

| Sample Description | Method<br>Analyte<br>Units<br>LOR | OA-GRA05x<br>LOI 1000<br>%<br>0.01 |
|---|---|---|
| 121 14-6 12-15M | | 45.65 |
| 122 14-6 15-18M | | 47.16 |
| 123 14-6 18-21M | | 38.73 |
| 124 14-6 21-24M | | 31.21 |
| 125 14-6 24-27M | | 42.16 |
| 126 14-6 27-30M | | 36.20 |
| 127 14-6 30-33M | | 45.24 |
| 128 14-6 33-36.58M | | 45.56 |
| 129 14-7 0.2-3M | | 47.67 |
| 130 14-7 3-6M | | 47.15 |
| 131 14-7 6-9M | | 45.73 |
| 132 14-7 9-12M | | 48.46 |
| 134 14-7 12-15M | | 47.30 |
| 135 14-7 15-18M | | 49.20 |
| 136 14-7 8-21M | | 49.26 |
| 137 14-7 21-24M | | 49.60 |
| 138 14-7 24-27M | | 49.15 |
| 139 14-7 27-30M | | 49.39 |
| 140 BLK 7 | | 51.09 |
| 141 14-7 30-33M | | 49.08 |
| 142 14-7 33-36M | | 48.52 |
| 143 14-7 36-39M | | 49.59 |
| 144 14-7 39-42M | | 49.89 |
| 145 14-7 42-45M | | 49.53 |
| 146 14-7 45-48M | | 49.97 |
| 147 14-7 48-51M | | 49.56 |
| 148 14-7 51-54M | | 45.81 |
| 149 14-7 54-57.91M | | 39.22 |
| KM4409 23291 | | 49.67 |
| KM4409 23292 | | 48.90 |
| KM4409 23293 | | 48.35 |
| KM4409 501 | | 48.92 |
| KM4409 502 | | 49.79 |
| KM4409 503 | | 46.44 |
| KM4409 504 | | 50.15 |
| KM4409 505 | | 47.78 |
| KM4409 506 | | 45.48 |
| KM4409 507 | | 44.27 |
| KM4409 508 | | 33.94 |
| KM4409 509 | | 22.37 |

Comments: ME-XRF26 High total was obtained due to partial Sulphur being reported twice (in individual data and also in LOI data).

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **MGX MINERALS INC**
**303-1080 HOWE STREET**
**VANCOUVER BC V6Z 2T1**


**Finalized Date: 7-DEC-2014**
**Account: MGXMIN**

Project: Driftwood Creek Magnesite

# CERTIFICATE OF ANALYSIS KL14186883

| Sample Description | Method | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SO3 | SiO2 | SrO | TiO2 | Total |
| | Units | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % |
| | LOR | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| KM4409 510 | | 9.46 | 0.02 | 0.21 | 0.01 | 1.96 | 0.49 | 12.90 | <0.01 | 0.07 | 0.02 | 0.09 | 56.1 | <0.01 | 0.85 | 99.85 |
| KM4409 511 | | 2.04 | 0.02 | 3.40 | <0.01 | 1.04 | 0.07 | 34.5 | 0.02 | 0.13 | 0.05 | 0.03 | 17.65 | <0.01 | 0.19 | 100.30 |

Comments: ME-XRF26 High total was obtained due to partial Sulphur being reported twice (in individual data and also in LOI data).

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **MGX MINERALS INC**
**303-1080 HOWE STREET**
**VANCOUVER BC V6Z 2T1**


**Finalized Date: 7-DEC-2014**
**Account: MGXMIN**

Project: Driftwood Creek Magnesite

# CERTIFICATE OF ANALYSIS KL14186883

| Sample Description | Method<br>Analyte<br>Units<br>LOR | OA-GRA05x<br>LOI 1000<br>%<br>0.01 |
|---|---|---|
| KM4409 510 | | 17.63 |
| KM4409 511 | | 41.14 |

Comments: ME-XRF26 High total was obtained due to partial Sulphur being reported twice (in individual data and also in LOI data).

***** See Appendix Page for comments regarding this certificate *****

## WHOLE ROCK GEOCHEMISTRY

# ME- XRF06

### SAMPLE DECOMPOSITION

**50% - 50% $Li_2B_4O_7$ - $LiBO_2$** (WEI- GRA06)

### ANALYTICAL METHOD

**X-Ray Fluorescence Spectroscopy** (XRF)

A calcined or ignited sample (0.9 g) is added to 9.0g of Lithium Borate Flux (50 % - 50 % $Li_2B_4O_7$ - $LiBO_2$), mixed well and fused in an auto fluxer between 1050 - 1100°C. A flat molten glass disc is prepared from the resulting melt. This disc is then analysed by X-ray fluorescence spectrometry.

| ELEMENT | SYMBOL | UNITS | LOWER LIMIT | UPPER LIMIT |
|---|---|---|---|---|
| Aluminum Oxide | $Al_2O_3$ | % | 0.01 | 100 |
| Barium Oxide | BaO | % | 0.01 | 100 |
| Calcium Oxide | CaO | % | 0.01 | 100 |
| Chromium Oxide | $Cr_2O_3$ | % | 0.01 | 100 |
| Ferric Oxide | $Fe_2O_3$ | % | 0.01 | 100 |
| Potassium Oxide | $K_2O$ | % | 0.01 | 100 |
| Magnesium Oxide | MgO | % | 0.01 | 100 |
| Manganese Oxide | MgO | % | 0.01 | 100 |
| Sodium Oxide | $Na_2O$ | % | 0.01 | 100 |
| Phosphorus Oxide | $P_2O_2$ | % | 0.01 | 100 |
| Silicon Oxide | $SiO_2$ | % | 0.01 | 100 |
| Strontium Oxide | $SrO_2$ | % | 0.01 | 100 |
| Titanium Oxide | $TiO_2$ | % | 0.01 | 100 |
| Loss On Ignition | LOI | % | 0.01 | 100 |
| | Total | % | 0.01 | 101 |

**NOTE:** Since samples that are high in sulphides or base metals can damage Platinum crucibles, a ME- ICP06 finish method can be selected as an alternative method.

APPENDIX C

| drill site | easting (NAD 83) | northing (NAD 83) | elevation (m) | azimuth | dip | depth m |
|---|---|---|---|---|---|---|
| 2014 1 | 531360 | 5639132 | 1418 | 200 | 52 | 37.8 |
| 2014 2 | 531393 | 5639108 | 1422 | 200 | 52 | 54.25 |
| 2014 2A | 531393 | 5639108 | 1422 | | 90 | 39.62 |
| 2014 3 | 531426 | 5639101 | 1426 | 200 | 52 | 65.53 |
| 2014 4 | 531461 | 5639072 | 1430 | 200 | 52 | 74.2 |
| 2014 5 | 531494 | 5639054 | 1433 | 200 | 52 | 71.63 |
| 2014 6 | 531551 | 5639038 | 1435 | 200 | 52 | 36.58 |
| 2014 7 | 531408 | 5639084 | 1424 | | 90 | 57.91 |
| | | | | | | 437.52 |

# APPENDIX D

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | lithology | alteration | minerals |
|---|---|---|---|---|---|---|---|---|
| 1 | 14 1 | 1 | 3 | 99.9 | 2 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 2 | 14 1 | 3 | 6 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 3 | 14 1 | 6 | 9 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 4 | 14 1 | 9 | 12 | 97 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 5 | 14 1 | 12 | 15 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 6 | 14 1 | 15 | 18 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 7 | 14 1 | 18 | 21 | 98 | 3 | Hmn 1B & 1A | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite, dolomite |
| 8 | 14 1 | 21 | 24 | 99.9 | 3 | Hmn 1A | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite, dolomite |
| 9 | 14 1 | 24 | 27 | 99.9 | 3 | Hmn 1A | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite, dolomite |
| 10 | 14 1 | 27 | 30 | 99.9 | 3 | Hmn 1A | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite, dolomite |
| 11 | 14 1 | 30 | 33 | 98 | 3 | Hmn 1A | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite, dolomite |
| 12 | 14 1 | 33 | 36 | 99.9 | 3 | Hmn 1A | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite, dolomite, pyrite |
| 13 | 14 1 | 36 | 37.8 | 99.9 | 1.8 | Hmn 1A | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite, dolomite, pyrite |
| | | | | | 36.8 | | | |

| ddh no | from (m) | to (m) | fault & or fracture (% recov) | compositional layering (bedding) | sulphides | contacts |
|---|---|---|---|---|---|---|
| 14 1 | 1 | 3 | | | | |
| 14 1 | 3 | 6 | | | | |
| 14 1 | 6 | 9 | | | | |
| 14 1 | 9 | 12 | broken grd 10.12-10.36 m (75% recov) | | | |
| 14 1 | 12 | 15 | | | | |
| 14 1 | 15 | 18 | | | | |
| 14 1 | 18 | 21 | fault 19.4-19.45 m, yellow clay (25% recov) | 30-70 degrees to core axis | | 19.05 m gradational contact |
| 14 1 | 21 | 24 | | 10-70 degrees to core axis | | |
| 14 1 | 24 | 27 | | 10-70 degrees to core axis | | |
| 14 1 | 27 | 30 | | 10-70 degrees to core axis | | |
| 14 1 | 30 | 33 | broken grd 30.25-30.7 m (90% recov) | 10-70 degrees to core axis | | |
| 14 1 | 33 | 36 | | 70-80 degrees to core axis | 34.9-37.8 m diss pyrite, 0.1-2 mm blebs | |
| 14 1 | 36 | 37.8 | | 70-80 degrees to core axis | | |

| ID # | ddh no | from | to (m) | % recov. | width (m) | lithology | alteration | minerals | comments |
|---|---|---|---|---|---|---|---|---|---|
| 14 | 14 2 | 2 | 4 | 98 | 2 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 15 | 14 2 | 4 | 6 | 96 | 2 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 16 | 14 2 | 6 | 9 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 17 | 14 2 | 9 | 12 | 98.5 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 18 | 14 2 | 12 | 15 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 19 | 14 2 | 15 | 18 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 21 | 14 2 | 18 | 21 | 98.5 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 22 | 14 2 | 21 | 24 | 97 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 23 | 14 2 | 24 | 27 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 24 | 14 2 | 27 | 30 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 25 | 14 2 | 30 | 33 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 26 | 14 2 | 33 | 36 | 96.8 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 27 | 14 2 | 36 | 39 | 98 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 28 | 14 2 | 39 | 42 | 99 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 29 | 14 2 | 42 | 45 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 30 | 14 2 | 45 | 48 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 31 | 14 2 | 48 | 51 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 32 | 14 2 | 51 | 54.25 | 99.9 | 3.25 | Hmn 1B & 1A | quartz, siderite, chlorite, talc | dolomite | magnesite,dolomite,layering @50-68 degrees to core |
| | | | | | 52.25 | | | | |

| ID # | ddh no | from | to (m) | fault & or fracture (% recov) | compositional layering | contacts |
|---|---|---|---|---|---|---|
| 14 | 14 2 | 2 | 4 | broken grd 2.1-2.3 m (75% recov) | | |
| 15 | 14 2 | 4 | 6 | broken grd 4.8-5.75 m (88% recov) | | |
| 16 | 14 2 | 6 | 9 | | | |
| 17 | 14 2 | 9 | 12 | fault 10.71-10.73 m, brown clay (70% recov) | | |
| 18 | 14 2 | 12 | 15 | | | |
| 19 | 14 2 | 15 | 18 | | | |
| 21 | 14 2 | 18 | 21 | broken grd 18.34-18.79 m (75% recov) | | |
| 22 | 14 2 | 21 | 24 | broken grd 23.59-24 m (70% recov) | | |
| 23 | 14 2 | 24 | 27 | | | |
| 24 | 14 2 | 27 | 30 | | | |
| 25 | 14 2 | 30 | 33 | | | |
| 26 | 14 2 | 33 | 36 | broken grd 34.8-35.25 m (65% recov) | | |
| 27 | 14 2 | 36 | 39 | broken grd 35.91-36.27 m (70% recov) | | |
| 28 | 14 2 | 39 | 42 | broken grd 39.2-39.53 m (70% recov) | | |
| 29 | 14 2 | 42 | 45 | broken grd 41.52-43.89 m (85% recov) | | |
| 30 | 14 2 | 45 | 48 | | | |
| 31 | 14 2 | 48 | 51 | | | |
| 32 | 14 2 | 51 | 54.25 | | 50-68 degrees to core axis | 1A & 1B @60 deg to core axis 51.7 m |

| ID # | ddh no | from | to (m) | % recov. | width | lithology | alteration | minerals | comments |
|---|---|---|---|---|---|---|---|---|---|
| 33 | 14 2A | 0.35 | 3 | 99.9 | 2 | Hmn 1B | quartz (sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 34 | 14 2A | 3 | 6 | 99.9 | 2 | Hmn 1B & 1A | quartz (sweats), siderite | magnesite | grey magnesite, grey dolomite, layering/bedding @10-30 degrees to core axis, |
| 35 | 14 2A | 6 | 9 | 97 | 3 | Hmn 1A | quartz (sweats), siderite | magnesite | grey magnesite, grey dolomite, layering/bedding @10-30 degrees to core axis, |
| 36 | 14 2A | 9 | 12 | 99.5 | 3 | Hmn 1B & 1A | quartz (sweats), siderite | magnesite | grey megnesite, grey dolomite, layering/bedding @10-30 degrees to core axis, |
| 37 | 14 2A | 12 | 15 | 99.9 | 3 | Hmn 1B & 1A | quartz (sweats), siderite | magnesite | grey magnesite, grey dolomite, layering/bedding @28-35 degrees to core axis, |
| 38 | 14 2A | 15 | 18 | 99.9 | 3 | Hmn 1B & 1A | quartz (sweats), siderite | magnesite | grey magnesite, grey dolomite, layering/bedding @28-35 degrees to core axis, |
| 39 | 14 2A | 18 | 21 | 99.9 | 3 | Hmn 1B | quartz (sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 41 | 14 2A | 21 | 24 | 99.9 | 3 | Hmn 1B | quartz (sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 42 | 14 2A | 24 | 27 | 99.9 | 3 | Hmn 1B | quartz (sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 43 | 14 2A | 27 | 30 | 99.9 | 3 | Hmn 1B | quartz (sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 44 | 14 2A | 30 | 33 | 99.9 | 3 | Hmn 1B | quartz (sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 45 | 14 2A | 33 | 36 | 99.9 | 3 | Hmn 1B | quartz (sweats), siderite | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 46 | 14 2A | 36 | 39 | 97 | 3 | Hmn 1B & 3 | quartz (sweats), siderite | magnesite | grey magnesite, grey dolomite, layering/bedding @15-30 degrees to core axis, |



| ID # | ddh no | from (m) | to (m) | fault & or fracture (% recov) | compositional layering (bedding) |
|---|---|---|---|---|---|
| 33 | 14 2A | 0.35 | 3 | | |
| 34 | 14 2A | 3 | 6 | | bedding @10-30 degrees to core axis (from 5.2-9.47 m) |
| 35 | 14 2A | 6 | 9 | broken grd 6.12-7.5 m (85% recov) | |
| 36 | 14 2A | 9 | 12 | fault 10.71-10.73 m, brown clay (70% recov) | |
| 37 | 14 2A | 12 | 15 | | bedding @28-35 degrees to core axis (from 12.32-15.56 m) |
| 38 | 14 2A | 15 | 18 | | |
| 39 | 14 2A | 18 | 21 | | |
| 41 | 14 2A | 21 | 24 | | |
| 42 | 14 2A | 24 | 27 | | |
| 43 | 14 2A | 27 | 30 | | |
| 44 | 14 2A | 30 | 33 | | |
| 45 | 14 2A | 33 | 36 | | |
| 46 | 14 2A | 36 | 39 | broken grd 38-39.62 m (75% recov) | bedding @15-30 degrees to core axis (from 37-39.62 m) |

| ID # | ddh no | from (m) | to (m) | contacts | quartz veining |
|---|---|---|---|---|---|
| 33 | 14 2A | 0.35 | 3 | | |
| 34 | 14 2A | 3 | 6 | 5.2 m gradational contact (1B above, 1A below) | |
| 35 | 14 2A | 6 | 9 | | |
| 36 | 14 2A | 9 | 12 | 9.47 m gradational contact (1A above, 1B below) | |
| 37 | 14 2A | 12 | 15 | 12.32 m gradational contact (1B above, 1A below) | |
| 38 | 14 2A | 15 | 18 | 15.56 m gradational contact (1A above, 1B below) | |
| 39 | 14 2A | 18 | 21 | | |
| 41 | 14 2A | 21 | 24 | | |
| 42 | 14 2A | 24 | 27 | | |
| 43 | 14 2A | 27 | 30 | | |
| 44 | 14 2A | 30 | 33 | | |
| 45 | 14 2A | 33 | 36 | | |
| 46 | 14 2A | 36 | 39 | sharp contact Hmn 3 (below) @30-60 degrees to core axis at 37 m | 37.05-37.25 m two qtz vns (7 & 10 cm wide) @36 degrees to core axis |

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | lithology | alteration |
|---|---|---|---|---|---|---|---|
| 47 | 14 3 | 2.8 | 6 | 95 | 3.2 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 48 | 14 3 | 6 | 9 | 99.9 | 3 | Hmn 1B & 1A | quartz (as metamorphic sweats), siderite, chlorite, talc |
| 49 | 14 3 | 9 | 12 | 99.9 | 3 | Hmn 1A & Grey-black, fine grained ~~intrusive~~ felsite | limonite, quartz (sweats, stringer veins), siderite, chlorite, talc |
| 50 | 14 3 | 12 | 15 | 99.9 | 3 | Grey-black, fine grained ~~intrusive~~ felsite | limonite, silicification (minor 0.1-3 mm cross-cutting qtz veins) |
| 51 | 14 3 | 15 | 18 | 99.9 | 3 | Grey-black, fine grained ~~intrusive~~ felsite | limonite, silicification (minor 0.1-3 mm cross-cutting qtz veins) |
| 52 | 14 3 | 18 | 21 | 99.9 | 3 | Grey-black, fine grained ~~intrusive~~ felsite & Hmn 1A | limonite, silicification (minor 0.1-3 mm cross-cutting qtz veins) |
| 53 | 14 3 | 21 | 24 | 99.9 | 3 | Hmn 1B & 1A | silicification, quartz (as metamorphic sweats), siderite, chlorite |
| 54 | 14 3 | 24 | 27 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 55 | 14 3 | 27 | 30 | 99.9 | 3 | Hmn 1B & 1A | quartz (as metamorphic sweats), siderite, chlorite, talc |
| 56 | 14 3 | 30 | 33 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 57 | 14 3 | 33 | 36 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 58 | 14 3 | 36 | 39 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 59 | 14 3 | 39 | 42 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 61 | 14 3 | 42 | 45 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 62 | 14 3 | 45 | 48 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 63 | 14 3 | 48 | 51 | 97.8 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 64 | 14 3 | 51 | 54 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 65 | 14 3 | 54 | 57 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 66 | 14 3 | 57 | 60 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 67 | 14 3 | 60 | 63 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite |
| 68 | 14 3 | 63 | 65.53 | 95 | 2.47 | Hmn 1B & Hmn 3 | quartz (as metamorphic sweats), siderite, chlorite, talc |
| | | | | | 62.67 | | |

| ddh no | from (m) | to (m) | minerals | comments |
|---|---|---|---|---|
| 14 3 | 2.8 | 6 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 6 | 9 | magnesite, pyrite | grey magnesite, grey dolomite, layering/bedding @10-40 degrees to core axis, |
| 14 3 | 9 | 12 | magnesite, pyrite | grey magnesite, grey dolomite, layering/bedding @10-40 degrees to core axis, |
| 14 3 | 12 | 15 | pyrite | indurated and strongly silicified late stage (cross-cutting) dyke/sill, 0.1% disseminated pyrite |
| 14 3 | 15 | 18 | pyrite | indurated and strongly silicified late stage (cross-cutting) dyke/sill, 0.1% disseminated pyrite |
| 14 3 | 18 | 21 | magnesite, pyrite | grey magnesite, grey dolomite, layering/bedding @30-55 degrees to core axis, |
| 14 3 | 21 | 24 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 24 | 27 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 27 | 30 | magnesite | grey magnesite, grey dolomite, layering/bedding @30-60 degrees to core axis, |
| 14 3 | 30 | 33 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 33 | 36 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 36 | 39 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 39 | 42 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 42 | 45 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 45 | 48 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 48 | 51 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 51 | 54 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 54 | 57 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 57 | 60 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 60 | 63 | magnesite | sparry, coarse grained, pearl white to grey magnesite |
| 14 3 | 63 | 65.53 | magnesite | grey magnesite, grey dolomite, layering/bedding @50-65 degrees to core axis, |

| ID # | ddh no | from (m) | to (m) | fault & or fracture (% recov) | compositional layering (bedding) |
|---|---|---|---|---|---|
| 47 | 14 3 | 2.8 | 6 | broken grd 3.8-5.75 m (80% recov) | |
| 48 | 14 3 | 6 | 9 | | bedding @10-34 degrees to core axis (from 7.95-10.17 m) |
| 49 | 14 3 | 9 | 12 | | |
| 50 | 14 3 | 12 | 15 | | |
| 51 | 14 3 | 15 | 18 | | |
| 52 | 14 3 | 18 | 21 | | bedding @30-55 degrees to core axis (from 19.45-21.3 m) |
| 53 | 14 3 | 21 | 24 | | |
| 54 | 14 3 | 24 | 27 | | |
| 55 | 14 3 | 27 | 30 | | bedding @30-60 degrees to core axis (from 27.1-29.1 m) |
| 56 | 14 3 | 30 | 33 | | |
| 57 | 14 3 | 33 | 36 | | |
| 58 | 14 3 | 36 | 39 | | |
| 59 | 14 3 | 39 | 42 | | |
| 61 | 14 3 | 42 | 45 | | |
| 62 | 14 3 | 45 | 48 | | |
| 63 | 14 3 | 48 | 51 | fault 48.9-49.23 m, 2% brown clay (50% recov) | |
| 64 | 14 3 | 51 | 54 | | |
| 65 | 14 3 | 54 | 57 | | |
| 66 | 14 3 | 57 | 60 | | |
| 67 | 14 3 | 60 | 63 | | |
| 68 | 14 3 | 63 | 65.53 | broken grd 63.2-65.53 m (85% recov) | bedding @55-60 degrees to core axis (from 63.15-65.53 m) |

| ID # | ddh no | from (m) | to (m) | contacts | quartz veining |
|---|---|---|---|---|---|
| 47 | 14 3 | 2.8 | 6 | | |
| 48 | 14 3 | 6 | 9 | 7.95 m gradational contact (1B above, 1A below) | |
| 49 | 14 3 | 9 | 12 | 10.17 m sharp contact (1A above, fine grained silicified intrusive below) | 10.17-19.45 m 0.3% qtz as 0.1-3 mm veins |
| 50 | 14 3 | 12 | 15 | | |
| 51 | 14 3 | 15 | 18 | | |
| 52 | 14 3 | 18 | 21 | 19.45 m sharp contact (1A above, fine grained silicified intrusive below) | |
| 53 | 14 3 | 21 | 24 | | |
| 54 | 14 3 | 24 | 27 | | |
| 55 | 14 3 | 27 | 30 | | |
| 56 | 14 3 | 30 | 33 | | |
| 57 | 14 3 | 33 | 36 | | |
| 58 | 14 3 | 36 | 39 | | |
| 59 | 14 3 | 39 | 42 | | |
| 61 | 14 3 | 42 | 45 | | |
| 62 | 14 3 | 45 | 48 | | |
| 63 | 14 3 | 48 | 51 | | |
| 64 | 14 3 | 51 | 54 | | |
| 65 | 14 3 | 54 | 57 | | |
| 66 | 14 3 | 57 | 60 | | |
| 67 | 14 3 | 60 | 63 | | |
| 68 | 14 3 | 63 | 65.53 | | |

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | lithology | alteration | minerals |
|---|---|---|---|---|---|---|---|---|
| 69 | 14 4 | 0.8 | 3 | 99.9 | 2.2 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 70 | 14 4 | 3 | 6 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 71 | 14 4 | 6 | 9 | 98 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 72 | 14 4 | 9 | 12 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 73 | 14 4 | 12 | 15 | 99.9 | 3 | Hmn 1B & 1A | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 74 | 14 4 | 15 | 18 | 98 | 3 | Hmn 1A | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 75 | 14 4 | 18 | 21 | 96 | 3 | Hmn 1B & 1A | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 76 | 14 4 | 21 | 24 | 96 | 3 | Hmn 1A | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 77 | 14 4 | 24 | 27 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 78 | 14 4 | 27 | 30 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 79 | 14 4 | 30 | 33 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 81 | 14 4 | 33 | 36 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 82 | 14 4 | 36 | 39 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 83 | 14 4 | 39 | 42 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 84 | 14 4 | 42 | 45 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 85 | 14 4 | 45 | 48 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 86 | 14 4 | 48 | 51 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 87 | 14 4 | 51 | 54 | 93 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 88 | 14 4 | 54 | 57 | 95 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 89 | 14 4 | 57 | 60 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 90 | 14 4 | 60 | 63 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 91 | 14 4 | 63 | 66 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 92 | 14 4 | 66 | 69 | 99.9 | 3 | Hmn 1B & Hmn 3 | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| | | | | | 68.2 | | | |

| ID # | ddh no | from (m) | to (m) | comments | fault & or fracture (% recov) |
|---|---|---|---|---|---|
| 69 | 14 4 | 0.8 | 3 | sparry, coarse grained, pearl white to grey magnesite | |
| 70 | 14 4 | 3 | 6 | sparry, coarse grained, pearl white to grey magnesite | |
| 71 | 14 4 | 6 | 9 | sparry, coarse grained, pearl white to grey magnesite | broken ground 7.75-7.93 m (70% recov) |
| 72 | 14 4 | 9 | 12 | sparry, coarse grained, pearl white to grey magnesite | |
| 73 | 14 4 | 12 | 15 | grey magnesite, grey dolomite, layering/bedding @20-50 degrees to core axis, | |
| 74 | 14 4 | 15 | 18 | grey magnesite, grey dolomite, layering/bedding @20-50 degrees to core axis, | fault 15-15.2 m, 1% brown clay (60% recov) |
| 75 | 14 4 | 18 | 21 | grey magnesite, grey dolomite, layering/bedding @20-50 degrees to core axis, | broken ground 18.29-22.22 m (70% recov) |
| 76 | 14 4 | 21 | 24 | grey magnesite, grey dolomite, layering/bedding @20-50 degrees to core axis, | fault 22.22-22.56 m, 3% brown clay (60% recov) |
| 77 | 14 4 | 24 | 27 | grey magnesite, grey dolomite, layering/bedding @20-50 degrees to core axis, | |
| 78 | 14 4 | 27 | 30 | sparry, coarse grained, pearl white to grey magnesite | |
| 79 | 14 4 | 30 | 33 | sparry, coarse grained, pearl white to grey magnesite | |
| 81 | 14 4 | 33 | 36 | sparry, coarse grained, pearl white to grey magnesite | |
| 82 | 14 4 | 36 | 39 | sparry, coarse grained, pearl white to grey magnesite | |
| 83 | 14 4 | 39 | 42 | sparry, coarse grained, pearl white to grey magnesite | |
| 84 | 14 4 | 42 | 45 | sparry, coarse grained, pearl white to grey magnesite | |
| 85 | 14 4 | 45 | 48 | sparry, coarse grained, pearl white to grey magnesite | |
| 86 | 14 4 | 48 | 51 | sparry, coarse grained, pearl white to grey magnesite | |
| 87 | 14 4 | 51 | 54 | sparry, coarse grained, pearl white to grey magnesite | broken ground 51.3-55.07 m (85% recov) |
| 88 | 14 4 | 54 | 57 | sparry, coarse grained, pearl white to grey magnesite | |
| 89 | 14 4 | 57 | 60 | sparry, coarse grained, pearl white to grey magnesite | |
| 90 | 14 4 | 60 | 63 | sparry, coarse grained, pearl white to grey magnesite | |
| 91 | 14 4 | 63 | 66 | sparry, coarse grained, pearl white to grey magnesite | |
| 92 | 14 4 | 66 | 69 | grey magnesite, grey dolomite, layering/bedding @50-65 degrees to core axis, | |

| ID # | ddh no | from (m) | to (m) | compositional layering (bedding) | contacts |
|---|---|---|---|---|---|
| 69 | 14 4 | 0.8 | 3 | | |
| 70 | 14 4 | 3 | 6 | | |
| 71 | 14 4 | 6 | 9 | | |
| 72 | 14 4 | 9 | 12 | | |
| 73 | 14 4 | 12 | 15 | bedding @20-50 degrees to core axis (from 12.2-24 m) | 12.2 m gradational contact (1B above, 1A below) |
| 74 | 14 4 | 15 | 18 | | |
| 75 | 14 4 | 18 | 21 | | |
| 76 | 14 4 | 21 | 24 | | |
| 77 | 14 4 | 24 | 27 | | 24 m gradational contact (1A above, 1B below) |
| 78 | 14 4 | 27 | 30 | | |
| 79 | 14 4 | 30 | 33 | | |
| 81 | 14 4 | 33 | 36 | | |
| 82 | 14 4 | 36 | 39 | | |
| 83 | 14 4 | 39 | 42 | | |
| 84 | 14 4 | 42 | 45 | | |
| 85 | 14 4 | 45 | 48 | | |
| 86 | 14 4 | 48 | 51 | | |
| 87 | 14 4 | 51 | 54 | | |
| 88 | 14 4 | 54 | 57 | | |
| 89 | 14 4 | 57 | 60 | | |
| 90 | 14 4 | 60 | 63 | | |
| 91 | 14 4 | 63 | 66 | | |
| 92 | 14 4 | 66 | 69 | bedding @55-65 degrees to core axis (from 68-74.2 m) | 68 m gradational contact (Hmn 1B above, Hmn 3 below) |

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | lithology | alteration | minerals |
|---|---|---|---|---|---|---|---|---|
| 93 | 14 5 | 2.8 | 6 | 99.9 | 3.2 | Hmn 1A | quartz (as metamorphic sweats), chlorite, talc | magnesite |
| 94 | 14 5 | 6 | 9 | 99.9 | 3 | Hmn 1A | quartz (as metamorphic sweats), chlorite, talc | magnesite |
| 95 | 14 5 | 9 | 12 | 99.9 | 3 | Hmn 1A | quartz (as metamorphic sweats), chlorite, talc | magnesite |
| 96 | 14 5 | 12 | 15 | 99.9 | 3 | Hmn 1A | quartz (as metamorphic sweats), chlorite, talc | magnesite |
| 97 | 14 5 | 15 | 18 | 99.9 | 3 | Hmn 1A | quartz (as metamorphic sweats), chlorite, talc | magnesite |
| 98 | 14 5 | 18 | 21 | 99.9 | 3 | Hmn 1A & 1B | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 99 | 14 5 | 21 | 24 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 101 | 14 5 | 24 | 27 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 102 | 14 5 | 27 | 30 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 103 | 14 5 | 30 | 33 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 104 | 14 5 | 33 | 36 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 105 | 14 5 | 36 | 39 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 106 | 14 5 | 39 | 42 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 107 | 14 5 | 42 | 45 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 108 | 14 5 | 45 | 48 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 109 | 14 5 | 48 | 51 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 110 | 14 5 | 51 | 54 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 111 | 14 5 | 54 | 57 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 112 | 14 5 | 57 | 60 | 99.9 | 3 | Hmn 1A & 1B | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 113 | 14 5 | 60 | 63 | 99.9 | 3 | Hmn 1A & 1B | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 114 | 14 5 | 63 | 66 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 115 | 14 5 | 66 | 69 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 116 | 14 5 | 69 | 71.63 | 99.9 | 2.63 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |

| ID # | ddh no | from (m) | to (m) | comments | fault & or fracture (% recov) |
|---|---|---|---|---|---|
| 93 | 14 5 | 2.8 | 6 | grey magnesite, grey dolomite, layering/bedding @25-60 degrees to core axis, | |
| 94 | 14 5 | 6 | 9 | grey magnesite, grey dolomite, layering/bedding @25-60 degrees to core axis, | |
| 95 | 14 5 | 9 | 12 | grey magnesite, grey dolomite, layering/bedding @25-60 degrees to core axis, | |
| 96 | 14 5 | 12 | 15 | grey magnesite, grey dolomite, layering/bedding @25-60 degrees to core axis, | broken ground 13.3-14.94 m (85% recov) |
| 97 | 14 5 | 15 | 18 | grey magnesite, grey dolomite, layering/bedding @25-60 degrees to core axis, | |
| 98 | 14 5 | 18 | 21 | grey magnesite, grey dolomite, layering/bedding @25-60 degrees to core axis, | |
| 99 | 14 5 | 21 | 24 | sparry, coarse grained, pearl white to grey magnesite | |
| 101 | 14 5 | 24 | 27 | sparry, coarse grained, pearl white to grey magnesite | |
| 102 | 14 5 | 27 | 30 | sparry, coarse grained, pearl white to grey magnesite | |
| 103 | 14 5 | 30 | 33 | sparry, coarse grained, pearl white to grey magnesite | |
| 104 | 14 5 | 33 | 36 | sparry, coarse grained, pearl white to grey magnesite | |
| 105 | 14 5 | 36 | 39 | sparry, coarse grained, pearl white to grey magnesite | |
| 106 | 14 5 | 39 | 42 | sparry, coarse grained, pearl white to grey magnesite | |
| 107 | 14 5 | 42 | 45 | sparry, coarse grained, pearl white to grey magnesite | |
| 108 | 14 5 | 45 | 48 | sparry, coarse grained, pearl white to grey magnesite | |
| 109 | 14 5 | 48 | 51 | sparry, coarse grained, pearl white to grey magnesite | |
| 110 | 14 5 | 51 | 54 | sparry, coarse grained, pearl white to grey magnesite | |
| 111 | 14 5 | 54 | 57 | sparry, coarse grained, pearl white to grey magnesite | |
| 112 | 14 5 | 57 | 60 | grey magnesite, grey dolomite, layering/bedding @25-60 degrees to core axis, | |
| 113 | 14 5 | 60 | 63 | grey magnesite, grey dolomite, layering/bedding @25-60 degrees to core axis, | |
| 114 | 14 5 | 63 | 66 | sparry, coarse grained, pearl white to grey magnesite | |
| 115 | 14 5 | 66 | 69 | sparry, coarse grained, pearl white to grey magnesite | |
| 116 | 14 5 | 69 | 71.63 | sparry, coarse grained, pearl white to grey magnesite | |

| ID # | ddh no | from (m) | to (m) | compositional layering (bedding) | contacts |
|---|---|---|---|---|---|
| 93 | 14 5 | 2.8 | 6 | bedding @25-60 degrees to core axis (from 2.8-19 m) | |
| 94 | 14 5 | 6 | 9 | | |
| 95 | 14 5 | 9 | 12 | | |
| 96 | 14 5 | 12 | 15 | | |
| 97 | 14 5 | 15 | 18 | | 19 m gradational contact (1A above, 1B below) |
| 98 | 14 5 | 18 | 21 | | |
| 99 | 14 5 | 21 | 24 | | |
| 101 | 14 5 | 24 | 27 | | |
| 102 | 14 5 | 27 | 30 | | |
| 103 | 14 5 | 30 | 33 | | |
| 104 | 14 5 | 33 | 36 | | |
| 105 | 14 5 | 36 | 39 | | |
| 106 | 14 5 | 39 | 42 | | |
| 107 | 14 5 | 42 | 45 | | |
| 108 | 14 5 | 45 | 48 | | |
| 109 | 14 5 | 48 | 51 | | |
| 110 | 14 5 | 51 | 54 | | |
| 111 | 14 5 | 54 | 57 | | |
| 112 | 14 5 | 57 | 60 | bedding @25-60 degrees to core axis (from 58.7-61 m) | 58.7 m gradational contact (1B above, 1A below) |
| 113 | 14 5 | 60 | 63 | | 61 m gradational contact (1A above, 1B below) |
| 114 | 14 5 | 63 | 66 | | |
| 115 | 14 5 | 66 | 69 | | |
| 116 | 14 5 | 69 | 71.63 | | |

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | lithology | alteration | minerals |
|---|---|---|---|---|---|---|---|---|
| 117 | 14 6 | 3 | 6 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), chlorite, talc | magnesite |
| 118 | 14 6 | 6 | 9 | 99.9 | 3 | Hmn 1A & 1B | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 119 | 14 6 | 9 | 12 | 99.9 | 3 | Hmn 1A & 1B | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 121 | 14 6 | 12 | 15 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), chlorite, talc | magnesite |
| 122 | 14 6 | 15 | 18 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), chlorite, talc | magnesite |
| 123 | 14 6 | 18 | 21 | 97 | 3 | Hmn 3 & 1B | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 124 | 14 6 | 21 | 24 | 99.9 | 3 | Hmn 3 & 1B | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 125 | 14 6 | 24 | 27 | 99.9 | 3 | Hmn 3 & 1B | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 126 | 14 6 | 27 | 30 | 95 | 3 | Hmn 1A & 1B | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| 127 | 14 6 | 30 | 33 | 98 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 128 | 14 6 | 33 | 36.58 | 95 | 3.58 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| | | | | | 33.58 | | | |

| ID # | ddh no | from (m) | to (m) | comments | fault & or fracture (% recov) |
|---|---|---|---|---|---|
| 117 | 14 6 | 3 | 6 | sparry, coarse grained, pearl white to grey magnesite | |
| 118 | 14 6 | 6 | 9 | grey magnesite, grey dolomite, layering/bedding @40-60 degrees to core axis, | |
| 119 | 14 6 | 9 | 12 | grey magnesite, grey dolomite, layering/bedding @40-60 degrees to core axis, | |
| 121 | 14 6 | 12 | 15 | sparry, coarse grained, pearl white to grey magnesite | |
| 122 | 14 6 | 15 | 18 | sparry, coarse grained, pearl white to grey magnesite | |
| 123 | 14 6 | 18 | 21 | grey magnesite, grey dolomite, layering/bedding @25-60 degrees to core axis, | broken ground 20.6-24.1 m (75% recov) |
| 124 | 14 6 | 21 | 24 | grey magnesite, grey dolomite, layering/bedding @25-60 degrees to core axis, | |
| 125 | 14 6 | 24 | 27 | grey magnesite, grey dolomite, layering/bedding @25-60 degrees to core axis, | |
| 126 | 14 6 | 27 | 30 | grey magnesite, grey dolomite, layering/bedding @25-60 degrees to core axis, | broken ground 27.3-29.1 m (85% recov) |
| 127 | 14 6 | 30 | 33 | sparry, coarse grained, pearl white to grey magnesite | fault zone 31.31-31.4 m, 3% brown clay (38% recov) |
| 128 | 14 6 | 33 | 36.58 | sparry, coarse grained, pearl white to grey magnesite | broken ground 35.51-36.58 m (80% recov) |

| ID # | ddh no | from (m) | to (m) | compositional layering (bedding) | contacts |
|---|---|---|---|---|---|
| 117 | 14 6 | 3 | 6 | | |
| 118 | 14 6 | 6 | 9 | bedding @40-60 degrees to core axis (from 8.9-10.28 m) | |
| 119 | 14 6 | 9 | 12 | | 10.28 m gradational contact (1A above, 1B below) |
| 121 | 14 6 | 12 | 15 | | |
| 122 | 14 6 | 15 | 18 | | |
| 123 | 14 6 | 18 | 21 | bedding @30-65 degrees to core axis (from 20.43-24.08 m) | 20.43 m gradational contact (Hmn 1B above, Hmn 3 below) |
| 124 | 14 6 | 21 | 24 | | |
| 125 | 14 6 | 24 | 27 | | 24.08 m gradational contact (Hmn 3 above, Hmn 1B below) |
| 126 | 14 6 | 27 | 30 | bedding @25-65 degrees to core axis (from 27.2-29.9 m) | 27.2 m gradational contact (Hmn 1B above, Hmn 1A below) |
| 127 | 14 6 | 30 | 33 | | 29.9 m gradational contact (Hmn 1A above, Hmn 1B below) |
| 128 | 14 6 | 33 | 36.58 | | |

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | lithology | alteration | minerals |
|---|---|---|---|---|---|---|---|---|
| 129 | 14 7 | 0.2 | 3 | 99.9 | 2.8 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 130 | 14 7 | 3 | 6 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 131 | 14 7 | 6 | 9 | 98 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 132 | 14 7 | 9 | 12 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 133 | 14 7 | 12 | 15 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 134 | 14 7 | 15 | 18 | 98 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 135 | 14 7 | 18 | 21 | 96 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 136 | 14 7 | 21 | 24 | 96 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 137 | 14 7 | 24 | 27 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| | | | | | | | | |
| 139 | 14 7 | 27 | 30 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 141 | 14 7 | 30 | 33 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 142 | 14 7 | 33 | 36 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 143 | 14 7 | 36 | 39 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 144 | 14 7 | 39 | 42 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 145 | 14 7 | 42 | 45 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 146 | 14 7 | 45 | 48 | 99.9 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 147 | 14 7 | 48 | 51 | 93 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 148 | 14 7 | 51 | 54 | 95 | 3 | Hmn 1B | quartz (as metamorphic sweats), siderite | magnesite |
| 149 | 14 7 | 54 | 57.91 | 99.9 | 3 | Hmn 1B & 1A | quartz (as metamorphic sweats), siderite, chlorite, talc | magnesite |
| | | | | | 56.8 | | | |

| ID # | ddh no | from (m) | to (m) | comments | fault & or fracture (% recov) |
|---|---|---|---|---|---|
| 129 | 14 7 | 0.2 | 3 | sparry, coarse grained, pearl white to grey magnesite | broken ground 0.2-9 m (88% recov) |
| 130 | 14 7 | 3 | 6 | sparry, coarse grained, pearl white to grey magnesite | |
| 131 | 14 7 | 6 | 9 | sparry, coarse grained, pearl white to grey magnesite | |
| 132 | 14 7 | 9 | 12 | sparry, coarse grained, pearl white to grey magnesite | |
| 133 | 14 7 | 12 | 15 | sparry, coarse grained, pearl white to grey magnesite | |
| 134 | 14 7 | 15 | 18 | sparry, coarse grained, pearl white to grey magnesite | |
| 135 | 14 7 | 18 | 21 | sparry, coarse grained, pearl white to grey magnesite | |
| 136 | 14 7 | 21 | 24 | sparry, coarse grained, pearl white to grey magnesite | |
| 137 | 14 7 | 24 | 27 | sparry, coarse grained, pearl white to grey magnesite | |
| 139 | 14 7 | 27 | 30 | sparry, coarse grained, pearl white to grey magnesite | |
| 141 | 14 7 | 30 | 33 | sparry, coarse grained, pearl white to grey magnesite | |
| 142 | 14 7 | 33 | 36 | sparry, coarse grained, pearl white to grey magnesite | |
| 143 | 14 7 | 36 | 39 | sparry, coarse grained, pearl white to grey magnesite | |
| 144 | 14 7 | 39 | 42 | sparry, coarse grained, pearl white to grey magnesite | |
| 145 | 14 7 | 42 | 45 | sparry, coarse grained, pearl white to grey magnesite | |
| 146 | 14 7 | 45 | 48 | sparry, coarse grained, pearl white to grey magnesite | |
| 147 | 14 7 | 48 | 51 | sparry, coarse grained, pearl white to grey magnesite | |
| 148 | 14 7 | 51 | 54 | sparry, coarse grained, pearl white to grey magnesite | |
| 149 | 14 7 | 54 | 57.91 | grey magnesite, grey dolomite, layering/bedding @10-40 degrees to core axis, | |

| ID # | ddh no | from (m) | to (m) | compositional layering (bedding) | contacts |
|---|---|---|---|---|---|
| 129 | 14 7 | 0.2 | 3 | | |
| 130 | 14 7 | 3 | 6 | | |
| 131 | 14 7 | 6 | 9 | | |
| 132 | 14 7 | 9 | 12 | | |
| 133 | 14 7 | 12 | 15 | | |
| 134 | 14 7 | 15 | 18 | | |
| 135 | 14 7 | 18 | 21 | | |
| 136 | 14 7 | 21 | 24 | | |
| 137 | 14 7 | 24 | 27 | | |
| | | | | | |
| 139 | 14 7 | 27 | 30 | | |
| 141 | 14 7 | 30 | 33 | | |
| 142 | 14 7 | 33 | 36 | | |
| 143 | 14 7 | 36 | 39 | | |
| 144 | 14 7 | 39 | 42 | | |
| 145 | 14 7 | 42 | 45 | | |
| 146 | 14 7 | 45 | 48 | | |
| 147 | 14 7 | 48 | 51 | | |
| 148 | 14 7 | 51 | 54 | | |
| 149 | 14 7 | 54 | 57.91 | bedding @10-40 degrees to core axis (from 54.15-57.91 m) | 54.15 m gradational contact (1B above, 1A below) |

# APPENDIX E

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % | LOI % | Total % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14 1 | 1 | 3 | 99.9 | 2 | 43.6 | 1.11 | 0.63 | 3.04 | 0.71 | 49.7 | 99.2 |
| 2 | 14 1 | 3 | 6 | 99.9 | 3 | 43.3 | 0.8 | 0.62 | 3.14 | 0.68 | 49.77 | 98.67 |
| 3 | 14 1 | 6 | 9 | 99.9 | 3 | 43.3 | 0.75 | 0.9 | 3.99 | 0.7 | 49.17 | 99.29 |
| 4 | 14 1 | 9 | 12 | 97 | 3 | 48.4 | 0.74 | 0.63 | 3.5 | 0.94 | 49.47 | 99.14 |
| 5 | 14 1 | 12 | 15 | 99.9 | 3 | 43.7 | 0.63 | 1.08 | 3.8 | 0.71 | 49.45 | 99.89 |
| 6 | 14 1 | 15 | 18 | 99.9 | 3 | 44.3 | 0.92 | 0.86 | 2.38 | 0.88 | 50.03 | 99.81 |
| 7 | 14 1 | 18 | 21 | 98 | 3 | 39.1 | 0.66 | 2.47 | 13.8 | 0.81 | 43 | 100.75 |
| 8 | 14 1 | 21 | 24 | 99.9 | 3 | 40.6 | 0.63 | 1.95 | 11.1 | 0.61 | 44.56 | 99.91 |
| 9 | 14 1 | 24 | 27 | 99.9 | 3 | 42 | 0.64 | 1.93 | 7.03 | 0.68 | 46.85 | 100.05 |
| 10 | 14 1 | 27 | 30 | 99.9 | 3 | 34.2 | 3.2 | 4.13 | 17.4 | 0.78 | 39.48 | 100.15 |
| 11 | 14 1 | 30 | 33 | 98 | 3 | 33.6 | 0.55 | 5.39 | 17 | 1.64 | 38.39 | 99.82 |
| 12 | 14 1 | 33 | 36 | 99.9 | 3 | 35.9 | 0.5 | 3.83 | 16.35 | 1.4 | 40.86 | 100.9 |
| 13 | 14 1 | 36 | 37.8 | 99.9 | 1.8 | 31.2 | 1.91 | 4.4 | 24.8 | 1.48 | 35.03 | 101 |

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % | LOI % | Total % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 14 2 | 2 | 4 | 98 | 2 | 44 | 0.91 | 0.6 | 3.37 | 0.85 | 49.45 | 99.48 |
| 15 | 14 2 | 4 | 6 | 96 | 2 | 39.6 | 4.06 | 1.02 | 8.57 | 0.91 | 45.42 | 99.89 |
| 16 | 14 2 | 6 | 9 | 99.9 | 3 | 40.6 | 1 | 0.82 | 11.15 | 0.77 | 45.59 | 100.25 |
| 17 | 14 2 | 9 | 12 | 98.5 | 3 | 42.1 | 0.8 | 0.88 | 6.94 | 0.59 | 47.6 | 99.21 |
| 18 | 14 2 | 12 | 15 | 99.9 | 3 | 43.1 | 0.8 | 0.7 | 5.13 | 0.66 | 48.45 | 99.15 |
| 19 | 14 2 | 15 | 18 | 99.9 | 3 | 43.8 | 0.92 | 0.95 | 4.27 | 0.73 | 48.82 | 99.87 |
| 21 | 14 2 | 18 | 21 | 98.5 | 3 | 42.8 | 1.74 | 0.87 | 4.14 | 0.83 | 48.83 | 99.68 |
| 22 | 14 2 | 21 | 24 | 97 | 3 | 43.3 | 1.84 | 0.85 | 3.18 | 0.71 | 49.3 | 99.5 |
| 23 | 14 2 | 24 | 27 | 99.9 | 3 | 44.7 | 0.97 | 0.77 | 3.17 | 0.62 | 49.45 | 99.98 |
| 24 | 14 2 | 27 | 30 | 99.9 | 3 | 43.9 | 0.76 | 0.87 | 3.37 | 0.59 | 49.29 | 99.11 |
| 25 | 14 2 | 30 | 33 | 99.9 | 3 | 44.4 | 0.8 | 0.57 | 3.17 | 0.77 | 49.89 | 99.93 |
| 26 | 14 2 | 33 | 36 | 96.8 | 3 | 44.1 | 0.78 | 0.59 | 3.02 | 0.83 | 49.89 | 99.56 |
| 27 | 14 2 | 36 | 39 | 98 | 3 | 44.3 | 0.72 | 0.96 | 3.37 | 0.66 | 49.58 | 99.96 |
| 28 | 14 2 | 39 | 42 | 99 | 3 | 43.9 | 0.69 | 1.32 | 4.66 | 0.73 | 48.21 | 99.94 |
| 29 | 14 2 | 42 | 45 | 99.9 | 3 | 39.4 | 0.71 | 1.12 | 12.7 | 0.8 | 44.57 | 99.69 |
| 30 | 14 2 | 45 | 48 | 99.9 | 3 | 43.1 | 0.77 | 0.84 | 4.38 | 0.88 | 49.09 | 99.44 |
| 31 | 14 2 | 48 | 51 | 99.9 | 3 | 43.9 | 0.73 | 0.98 | 4.07 | 0.81 | 49.16 | 100.05 |
| 32 | 14 2 | 51 | 54.25 | 99.9 | 3.25 | 37.1 | 0.46 | 3.2 | 18 | 0.67 | 39.77 | 99.93 |

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % | LOI % | Total % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 33 | 14 2A | 0.35 | 3 | 99.9 | 2.65 | 45.3 | 0.58 | 0.65 | 2.62 | 0.82 | 49.99 | 100.25 |
| 34 | 14 2A | 3 | 6 | 99.9 | 3 | 45 | 0.58 | 0.97 | 3.11 | 0.7 | 49.53 | 100.2 |
| 35 | 14 2A | 6 | 9 | 97 | 3 | 38.2 | 1.74 | 1.81 | 13.85 | 0.96 | 42.97 | 100.1 |
| 36 | 14 2A | 9 | 12 | 99.5 | 3 | 40.9 | 1.78 | 0.86 | 9.17 | 0.6 | 45.83 | 99.47 |
| 37 | 14 2A | 12 | 15 | 99.9 | 3 | 35.7 | 1.1 | 3.36 | 18.8 | 0.91 | 38.04 | 98.99 |
| 38 | 14 2A | 15 | 18 | 99.9 | 3 | 42.8 | 0.95 | 0.99 | 5.81 | 0.83 | 47.57 | 99.28 |
| 39 | 14 2A | 18 | 21 | 99.9 | 3 | 40.1 | 3.62 | 1.36 | 5.62 | 1.07 | 47.31 | 99.51 |
| 41 | 14 2A | 21 | 24 | 99.9 | 3 | 41.7 | 2.11 | 0.65 | 5.03 | 1.17 | 48.38 | 99.34 |
| 42 | 14 2A | 24 | 27 | 99.9 | 3 | 42.3 | 2.04 | 0.8 | 4.65 | 1.19 | 48.11 | 99.42 |
| 43 | 14 2A | 27 | 30 | 99.9 | 3 | 43.2 | 1.62 | 0.64 | 3.51 | 1.13 | 49.04 | 99.44 |
| 44 | 14 2A | 30 | 33 | 99.9 | 3 | 42.7 | 1.12 | 1.29 | 5.88 | 0.97 | 47.18 | 99.61 |
| 45 | 14 2A | 33 | 36 | 99.9 | 3 | 44.5 | 0.71 | 0.64 | 3.47 | 0.74 | 49.38 | 99.73 |
| 46 | 14 2A | 36 | 39 | 97 | 3 | 25 | 1.06 | 7.94 | 38.3 | 2.54 | 22.67 | 102.45 |

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % | LOI % | Total % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47 | 14 3 | 2.8 | 6 | 95 | 3.2 | 40.8 | 1.6 | 0.89 | 7.68 | 0.89 | 46.99 | 99.22 |
| 48 | 14 3 | 6 | 9 | 99.9 | 3 | 41.3 | 0.69 | 2.09 | 9.02 | 1.07 | 45.04 | 100.05 |
| 49 | 14 3 | 9 | 12 | 99.9 | 3 | 29.9 | 0.52 | 8.81 | 26.9 | 2.49 | 28.27 | 100.05 |
| 50 | 14 3 | 12 | 15 | 99.9 | 3 | 17.75 | 0.33 | 15.65 | 46.3 | 8.43 | 7.92 | 101.15 |
| 51 | 14 3 | 15 | 18 | 99.9 | 3 | 21.7 | 0.6 | 11.85 | 41.7 | 5.81 | 15 | 100.1 |
| 52 | 14 3 | 18 | 21 | 99.9 | 3 | 36.3 | 1.02 | 2.76 | 16.4 | 1.07 | 40.88 | 99.31 |
| 53 | 14 3 | 21 | 24 | 99.9 | 3 | 41.3 | 0.86 | 1.65 | 6.55 | 1.2 | 47.38 | 99.43 |
| 54 | 14 3 | 24 | 27 | 99.9 | 3 | 38.6 | 0.83 | 2.26 | 11.9 | 0.79 | 44.38 | 99.33 |
| 55 | 14 3 | 27 | 30 | 99.9 | 3 | 40.5 | 0.71 | 1.4 | 10.35 | 0.6 | 45.74 | 99.7 |
| 56 | 14 3 | 30 | 33 | 99.9 | 3 | 38.4 | 0.65 | 2.47 | 14.85 | 0.68 | 41.76 | 99.34 |
| 57 | 14 3 | 33 | 36 | 99.9 | 3 | 42.9 | 1.19 | 0.65 | 4.23 | 0.85 | 49.15 | 99.33 |
| 58 | 14 3 | 36 | 39 | 99.9 | 3 | 40.5 | 4.22 | 0.77 | 3.89 | 1.46 | 48.29 | 99.51 |
| 59 | 14 3 | 39 | 42 | 99.9 | 3 | 42 | 3.15 | 0.62 | 2.48 | 1 | 49.59 | 99.26 |
| 61 | 14 3 | 42 | 45 | 99.9 | 3 | 43.2 | 1.38 | 0.71 | 2.46 | 1.03 | 50.03 | 99.24 |
| 62 | 14 3 | 45 | 48 | 99.9 | 3 | 41.3 | 1.58 | 1.46 | 5.5 | 0.97 | 47.64 | 99.07 |
| 63 | 14 3 | 48 | 51 | 97.8 | 3 | 41.8 | 0.94 | 1.16 | 6.91 | 0.85 | 47.1 | 99.22 |
| 64 | 14 3 | 51 | 54 | 99.9 | 3 | 41.7 | 0.74 | 0.79 | 7.18 | 0.74 | 47.51 | 99.17 |
| 65 | 14 3 | 54 | 57 | 99.9 | 3 | 43.5 | 0.83 | 1.01 | 4.22 | 0.82 | 48.95 | 99.8 |
| 66 | 14 3 | 57 | 60 | 99.9 | 3 | 43.3 | 0.75 | 1.01 | 4.67 | 0.65 | 48.79 | 99.7 |
| 67 | 14 3 | 60 | 63 | 99.9 | 3 | 42.3 | 0.73 | 1.22 | 5.73 | 0.72 | 47.88 | 99.4 |
| 68 | 14 3 | 63 | 65.53 | 95 | 2.47 | 33.6 | 0.49 | 3.77 | 24 | 0.62 | 36.26 | 99.45 |

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % | LOI % | Total % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 69 | 14 4 | 0.8 | 3 | 99.9 | 2.2 | 43.9 | 0.79 | 0.93 | 4.25 | 0.8 | 48.36 | 99.36 |
| 70 | 14 4 | 3 | 6 | 99.9 | 3 | 43.8 | 1.26 | 0.45 | 2.99 | 0.89 | 49.52 | 99.17 |
| 71 | 14 4 | 6 | 9 | 98 | 3 | 42.1 | 1.56 | 1.04 | 5.15 | 0.87 | 47.96 | 98.99 |
| 72 | 14 4 | 9 | 12 | 99.9 | 3 | 39.6 | 3.71 | 1.07 | 7.62 | 1.19 | 46.43 | 99.99 |
| 73 | 14 4 | 12 | 15 | 99.9 | 3 | 20.4 | 15.4 | 1.95 | 24.7 | 1.7 | 34.68 | 99.58 |
| 74 | 14 4 | 15 | 18 | 98 | 3 | 33.5 | 4.93 | 1.63 | 16.7 | 1.21 | 41.04 | 99.5 |
| 75 | 14 4 | 18 | 21 | 96 | 3 | 29.5 | 1.38 | 7.48 | 26.3 | 3.02 | 29.24 | 99.58 |
| 76 | 14 4 | 21 | 24 | 96 | 3 | 39.7 | 1.12 | 1.65 | 10.75 | 0.7 | 45.04 | 99.46 |
| 77 | 14 4 | 24 | 27 | 99.9 | 3 | 41.7 | 0.63 | 0.81 | 7.71 | 0.5 | 47.26 | 99.13 |
| 78 | 14 4 | 27 | 30 | 99.9 | 3 | 42.5 | 0.85 | 0.73 | 6.13 | 0.52 | 48.14 | 99.24 |
| 79 | 14 4 | 30 | 33 | 99.9 | 3 | 43.3 | 0.69 | 1.07 | 4.7 | 0.58 | 48.41 | 99.15 |
| 81 | 14 4 | 33 | 36 | 99.9 | 3 | 42.6 | 0.83 | 0.78 | 5.74 | 0.59 | 48.29 | 99.23 |
| 82 | 14 4 | 36 | 39 | 99.9 | 3 | 43.2 | 1.1 | 0.95 | 2.87 | 0.72 | 49.65 | 99.12 |
| 83 | 14 4 | 39 | 42 | 99.9 | 3 | 43.5 | 1.22 | 0.78 | 2.28 | 0.92 | 50.12 | 99.28 |
| 84 | 14 4 | 42 | 45 | 99.9 | 3 | 41 | 4.05 | 0.64 | 2.29 | 1.17 | 49.61 | 99.21 |
| 85 | 14 4 | 45 | 48 | 99.9 | 3 | 42.1 | 2.86 | 0.68 | 2.61 | 0.98 | 49.69 | 99.36 |
| 86 | 14 4 | 48 | 51 | 99.9 | 3 | 39.2 | 6.45 | 0.57 | 3.24 | 0.88 | 48.79 | 99.46 |
| 87 | 14 4 | 51 | 54 | 93 | 3 | 42.4 | 1.81 | 0.79 | 4.31 | 0.91 | 49.07 | 99.65 |
| 88 | 14 4 | 54 | 57 | 95 | 3 | 42.9 | 0.96 | 1.15 | 3.96 | 0.71 | 49.2 | 99.28 |
| 89 | 14 4 | 57 | 60 | 99.9 | 3 | 40.4 | 4.4 | 1.11 | 4.85 | 0.83 | 48.2 | 100.4 |
| 90 | 14 4 | 60 | 63 | 99.9 | 3 | 42.2 | 1.86 | 1.23 | 4.96 | 0.74 | 48.06 | 99.73 |
| 91 | 14 4 | 63 | 66 | 99.9 | 3 | 42.1 | 2.34 | 1.04 | 4.29 | 0.77 | 48.51 | 99.71 |
| 92 | 14 4 | 66 | 69 | 99.9 | 3 | 36.4 | 3.78 | 2.12 | 15 | 0.68 | 41.01 | 99.54 |

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % | LOI % | Total % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 93 | 14 5 | 2.8 | 6 | 99.9 | 3.2 | 39.8 | 0.8 | 1.82 | 10.75 | 0.95 | 44.63 | 99.23 |
| 94 | 14 5 | 6 | 9 | 99.9 | 3 | 34.8 | 2.85 | 2.38 | 18.55 | 1.19 | 38.92 | 99.19 |
| 95 | 14 5 | 9 | 12 | 99.9 | 3 | 18.85 | 12.4 | 1.46 | 36.2 | 1.35 | 29.59 | 100.5 |
| 96 | 14 5 | 12 | 15 | 99.9 | 3 | 21.6 | 10.7 | 1.85 | 34.1 | 1.05 | 30.2 | 100.1 |
| 97 | 14 5 | 15 | 18 | 99.9 | 3 | 37.6 | 0.58 | 2.75 | 17.2 | 1.05 | 39.86 | 99.64 |
| 98 | 14 5 | 18 | 21 | 99.9 | 3 | 38.6 | 0.77 | 2.6 | 14.85 | 0.96 | 41.32 | 99.71 |
| 99 | 14 5 | 21 | 24 | 99.9 | 3 | 37.8 | 1.34 | 1.17 | 15.4 | 1.22 | 42.16 | 99.92 |
| 101 | 14 5 | 24 | 27 | 99.9 | 3 | 41.2 | 0.92 | 1.27 | 9.31 | 0.99 | 45.45 | 99.51 |
| 102 | 14 5 | 27 | 30 | 99.9 | 3 | 42.9 | 0.83 | 0.96 | 5.81 | 0.75 | 47.76 | 99.32 |
| 103 | 14 5 | 30 | 33 | 99.9 | 3 | 41.2 | 0.86 | 0.93 | 8.02 | 0.76 | 46.96 | 99.07 |
| 104 | 14 5 | 33 | 36 | 99.9 | 3 | 40 | 0.89 | 0.95 | 10.65 | 1 | 45.56 | 99.38 |
| 105 | 14 5 | 36 | 39 | 99.9 | 3 | 41.2 | 1.17 | 1.05 | 6.4 | 0.96 | 47.72 | 98.84 |
| 106 | 14 5 | 39 | 42 | 99.9 | 3 | 33.3 | 11.5 | 0.84 | 5.21 | 0.78 | 46.91 | 98.88 |
| 107 | 14 5 | 42 | 45 | 99.9 | 3 | 42.4 | 2.05 | 0.6 | 3.26 | 1.04 | 49.49 | 99.26 |
| 108 | 14 5 | 45 | 48 | 99.9 | 3 | 43.4 | 0.95 | 0.88 | 3.5 | 0.69 | 49.66 | 99.39 |
| 109 | 14 5 | 48 | 51 | 99.9 | 3 | 43.9 | 1.26 | 0.83 | 3.84 | 0.7 | 49.5 | 100.3 |
| 110 | 14 5 | 51 | 54 | 99.9 | 3 | 44.5 | 0.95 | 0.55 | 2.18 | 0.61 | 50.31 | 99.33 |
| 111 | 14 5 | 54 | 57 | 99.9 | 3 | 44.5 | 0.9 | 0.81 | 3.32 | 0.72 | 49.47 | 100 |
| 112 | 14 5 | 57 | 60 | 99.9 | 3 | 42.3 | 0.88 | 1.45 | 6.2 | 0.59 | 47.75 | 99.52 |
| 113 | 14 5 | 60 | 63 | 99.9 | 3 | 41 | 0.74 | 1.22 | 8.87 | 0.65 | 46.45 | 99.35 |
| 114 | 14 5 | 63 | 66 | 99.9 | 3 | 37.1 | 0.58 | 1.24 | 18.2 | 0.66 | 41.81 | 100 |
| 115 | 14 5 | 66 | 69 | 99.9 | 3 | 40.9 | 0.79 | 0.79 | 9.71 | 0.75 | 46.41 | 99.7 |
| 116 | 14 5 | 69 | 71.63 | 99.9 | 2.63 | 43.1 | 0.94 | 0.78 | 5.45 | 0.75 | 48.76 | 100.15 |

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % | LOI % | Total % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 117 | 14 6 | 3 | 6 | 99.9 | 3 | 43.6 | 0.78 | 1.14 | 4.84 | 0.8 | 48.31 | 99.79 |
| 118 | 14 6 | 6 | 9 | 99.9 | 3 | 44.3 | 0.8 | 1.34 | 4.07 | 0.9 | 48.35 | 100.1 |
| 119 | 14 6 | 9 | 12 | 99.9 | 3 | 44.1 | 1.37 | 1.1 | 4.63 | 0.82 | 47.92 | 100.4 |
| 121 | 14 6 | 12 | 15 | 99.9 | 3 | 41.2 | 1.86 | 1.36 | 8.38 | 0.9 | 45.65 | 99.68 |
| 122 | 14 6 | 15 | 18 | 99.9 | 3 | 39.9 | 4.75 | 0.94 | 5.8 | 0.9 | 47.16 | 99.92 |
| 123 | 14 6 | 18 | 21 | 97 | 3 | 34.2 | 4.76 | 2.83 | 17.9 | 0.92 | 38.73 | 99.98 |
| 124 | 14 6 | 21 | 24 | 99.9 | 3 | 18.95 | 18.6 | 4.01 | 25.6 | 1.37 | 31.21 | 100.4 |
| 125 | 14 6 | 24 | 27 | 99.9 | 3 | 39.1 | 0.86 | 1.76 | 14.45 | 0.85 | 42.16 | 99.56 |
| 126 | 14 6 | 27 | 30 | 95 | 3 | 30.7 | 6.91 | 2.82 | 21.7 | 1.22 | 36.2 | 100.05 |
| 127 | 14 6 | 30 | 33 | 98 | 3 | 41 | 0.65 | 1.5 | 9.73 | 0.95 | 45.24 | 99.46 |
| 128 | 14 6 | 33 | 36.58 | 95 | 3.58 | 42.7 | 0.73 | 1.54 | 8.4 | 0.98 | 45.56 | 100.3 |

| ID # | ddh no | from (m) | to (m) | % recov. | width (m) | MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % | LOI % | Total % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 129 | 14 7 | 0.2 | 3 | 99.9 | 2.8 | 42.1 | 0.77 | 0.82 | 7.36 | 1.04 | 47.67 | 100.1 |
| 130 | 14 7 | 3 | 6 | 99.9 | 3 | 41.4 | 1.02 | 0.77 | 8.07 | 0.88 | 47.15 | 99.58 |
| 131 | 14 7 | 6 | 9 | 98 | 3 | 42.3 | 1.02 | 0.78 | 8.12 | 0.89 | 45.73 | 99.1 |
| 132 | 14 7 | 9 | 12 | 99.9 | 3 | 43.3 | 1.23 | 0.8 | 5.52 | 0.81 | 48.46 | 100.45 |
| 134 | 14 7 | 12 | 15 | 99.9 | 3 | 41.8 | 1.44 | 0.74 | 7.84 | 0.78 | 47.3 | 100.2 |
| 135 | 14 7 | 15 | 18 | 98 | 3 | 43.4 | 1.04 | 0.78 | 4.15 | 0.74 | 49.2 | 99.67 |
| 136 | 14 7 | 18 | 21 | 96 | 3 | 43.7 | 0.94 | 0.64 | 3.99 | 0.74 | 49.26 | 99.57 |
| 137 | 14 7 | 21 | 24 | 96 | 3 | 43.7 | 1.34 | 0.68 | 3.31 | 0.75 | 49.6 | 99.69 |
| 138 | 14 7 | 24 | 27 | 99.9 | 3 | 44.4 | 1.04 | 0.93 | 3.47 | 0.84 | 49.15 | 100.2 |
| 139 | 14 7 | 27 | 30 | 99.9 | 3 | 44 | 1.04 | 0.7 | 3.35 | 1.08 | 49.39 | 99.92 |
| 141 | 14 7 | 30 | 33 | 99.9 | 3 | 42 | 3.21 | 0.59 | 3.21 | 1.2 | 49.08 | 99.73 |
| 142 | 14 7 | 33 | 36 | 99.9 | 3 | 43.5 | 1.03 | 0.8 | 4.51 | 1.28 | 48.52 | 99.94 |
| 143 | 14 7 | 36 | 39 | 99.9 | 3 | 44.4 | 0.86 | 0.48 | 3.53 | 1.15 | 49.59 | 100.3 |
| 144 | 14 7 | 39 | 42 | 99.9 | 3 | 43.9 | 1.69 | 0.52 | 2.75 | 1.13 | 49.89 | 100.25 |
| 145 | 14 7 | 42 | 45 | 99.9 | 3 | 44.8 | 0.79 | 0.56 | 3.5 | 0.97 | 49.53 | 100.45 |
| 146 | 14 7 | 45 | 48 | 99.9 | 3 | 43.6 | 0.9 | 0.68 | 3 | 0.88 | 49.97 | 99.44 |
| 147 | 14 7 | 48 | 51 | 93 | 3 | 43.1 | 0.92 | 0.51 | 3.65 | 0.83 | 49.56 | 98.94 |
| 148 | 14 7 | 51 | 54 | 95 | 3 | 40.4 | 0.86 | 2.13 | 9.51 | 0.74 | 45.81 | 100.05 |
| 149 | 14 7 | 54 | 57.91 | 99.9 | 3 | 35.9 | 1.28 | 3.87 | 17.55 | 0.89 | 39.22 | 99.81 |

# APPENDIX F

| ID # | sample type | Easting | Northing | Elevation | Lithology | colour | texture |
|---|---|---|---|---|---|---|---|
| 501 | rock chip | 531302 | 5639170 | 1410 | 1b magnesite | cream white | coarse grain |
| 502 | rock chip | 531305 | 5319170 | 1410 | 1b magnesite | cream white | coarse grain |
| 503 | rock chip | 531307 | 4999171 | 1410 | 1b magnesite | cream white | coarse grain |
| 504 | rock chip | 531309 | 4679171 | 1410 | 1b magnesite | cream white | coarse grain |
| 505 | rock chip | 531312 | 4359172 | 1410 | 1b magnesite | cream white | coarse grain |
| 506 | rock chip | 531314 | 4039173 | 1411 | 1b magnesite | cream white | coarse grain |
| 507 | rock chip | 531316 | 3719173 | 1411 | 1a dolomite | cream white | coarse grain |
| 508 | rock chip | 531318 | 3399174 | 1411 | 1a dolomite | cream white | coarse grain |
| 509 | rock chip | 531320 | 3079175 | 1411 | 1a dolomite | cream white | coarse grain |
| 510 | rock chip | 531322 | 2759176 | 1412 | 1a dolomite | cream white | coarse grain |
| 511 | rock chip | 531324 | 5639176 | 1412 | 1a dolomite | cream white | coarse grain |
| 23291 | rock chip | 531513 | 5639024 | 1439 | 1b magnesite | cream white | coarse grain |
| 23292 | rock chip | 531448 | 5639066 | 1435 | 1b magnesite | cream white | coarse grain |
| 23293 | rock chip | 530538 | 5639381 | 1389 | 1b magnesite | cream white | coarse grain |

| ID # | Width (m) | MgO % | CaO % | Al2O3 % | SiO2 % | Fe2O3 % | LOI % | Total % |
|---|---|---|---|---|---|---|---|---|
| 501 | 3 | 43.6 | 0.95 | 0.81 | 4.68 | 0.77 | 48.92 | 100.15 |
| 502 | 3 | 43.8 | 1.45 | 0.69 | 2.94 | 0.85 | 49.79 | 99.86 |
| 503 | 3 | 40.2 | 2.14 | 0.75 | 8.94 | 0.77 | 46.44 | 99.59 |
| 504 | 3 | 44.6 | 0.55 | 0.66 | 2.39 | 0.65 | 50.15 | 99.34 |
| 505 | 3 | 42.9 | 0.68 | 0.49 | 7.27 | 0.69 | 47.78 | 100.15 |
| 506 | 3 | 40.7 | 0.59 | 0.77 | 11.35 | 0.61 | 45.48 | 99.94 |
| 507 | 3 | 38.2 | 2.31 | 1.81 | 12.1 | 1.01 | 44.27 | 100.2 |
| 508 | 3 | 27.6 | 4.33 | 3.69 | 29.2 | 1.05 | 33.94 | 100.5 |
| 509 | 3 | 14.95 | 4.57 | 6.67 | 48.2 | 2.09 | 22.37 | 100.05 |
| 510 | 3 | 12.9 | 0.21 | 9.46 | 56.1 | 1.96 | 17.63 | 99.85 |
| 511 | 3 | 34.5 | 3.4 | 2.04 | 17.65 | 1.04 | 41.14 | 100.3 |
| 23291 | 3 | 44.6 | 1.08 | 0.64 | 2.71 | 0.94 | 49.67 | 99.94 |
| 23292 | 3 | 40.6 | 4.62 | 0.04 | 3.97 | 0.98 | 48.9 | 99.37 |
| 23293 | 3 | 43.2 | 0.97 | 0.74 | 5.71 | 0.97 | 48.35 | 100.25 |

## MINFILE Record Summary

## MINFILE No 082KNE068

APPENDIX G



File Created: 24-Jul-85 by BC Geological Survey (BCGS)
Last Edit: 02-Dec-14 by Laura deGroot(LDG)



### SUMMARY



| | | | |
|---|---|---|---|
| **Name** | DRIFTWOOD CREEK, FISH | **NMI** | |
| | | **Mining Division** | Golden |
| | | **BCGS Map** | 082K098 |
| **Status** | Showing | **NTS Map** | 082K15E |
| **Latitude** | 50° 54' 16" N | **UTM** | 11 (NAD 83) |
| **Longitude** | 116° 34' 34" W | **Northing** | 5639284 |
| | | **Easting** | 529805 |
| **Commodities** | Magnesite | **Deposit Types** | E09 : Sparry magnesite |
| **Tectonic Belt** | Omineca | **Terrane** | Ancestral North America |

**Capsule Geology**

Lower Cambrian Cranbrook Formation quartzites, dolomites and phyllitic argillites host medium to coarse-grained crystalline magnesite. The occurrence is at the western end of the rocky ridge north of Driftwood Creek. Beds of slatey phyllites, overlain by a fine-grained dark, cherty dolomite, form the footwall to a strike exposure of about 110 metres of magnesite beds. The stratigraphy trends 290 degrees northwest and dips 80 to 85 degrees southwest.

Southwest and overlying the dolomite is a 65 metre thick sequence of medium to coarse-grained magnesite containing cherty blebs and lenses. This section also hosts two continuous horizons of massive magnesite 4.5 and 2.2 metres thick. A metallurgical test sample was collected from the lower, 4.5 metre thick, magnesite body and ran 42.5 per cent MgO. The upper part of this unit is host to a horizon of white to yellow, fine-grained orthoquartzite similiar to that exposed below slatey phyllites.

The upper 45 metres of the section is a massive, medium to coarse-grained magnesite with no visible impurities and is exposed for several hundred metres along strike. A bulk sample from this section contained 40 per cent MgO.

**Bibliography**

EMPR ASS RPT 8760
EMPR FIELDWORK 1983, p. 213
EMPR OF 1987-13
EMPR PF (Prospectors Report 2001-28 by Peter Klewchuk)

APPENDIX H

**PHOTO 1**

**Looking ESE on Driftwood Magnesite ridge**

**Driftwood West Magnesite Zone (foreground)**

**Driftwood East Magnesite Zone (background)**

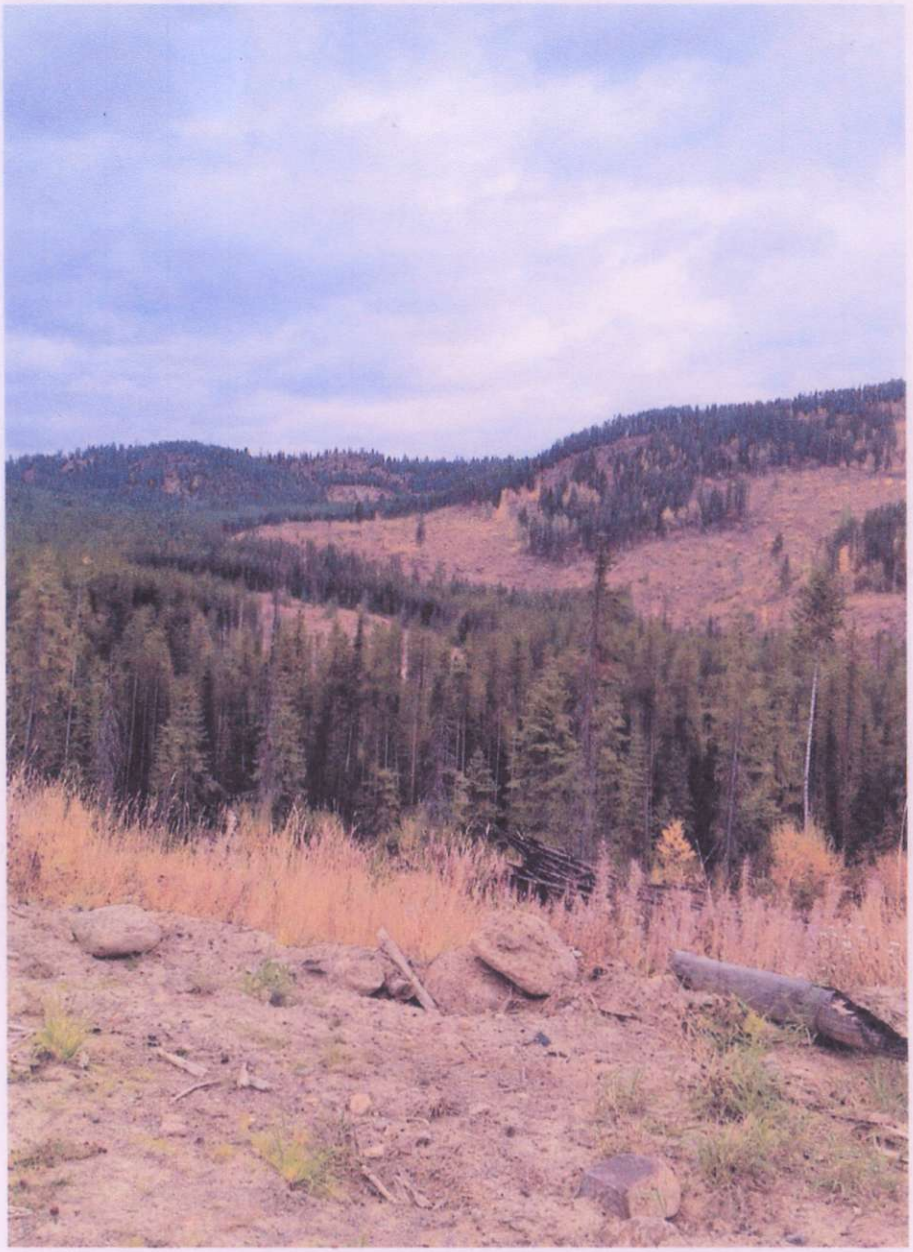


**PHOTO 2**

**Driftwood East Zone on Ridge Top**

**(Left Portion of Photo)**

**Looking North from Driftwood FSR**