PROSPECTING REPORT

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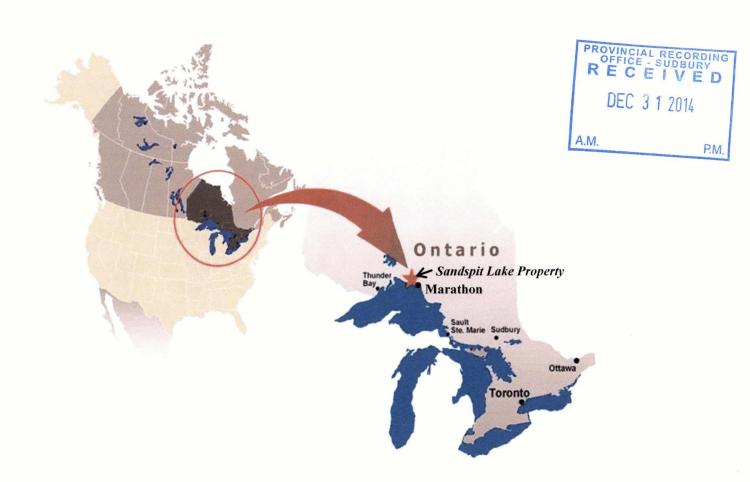
GEOLOGICAL MAPPING AND LITHOGEOCHEMICAL SAMPLING

SANDSPIT LAKE PROPERTY

THUNDER BAY MINING DIVISION

DISTRICT OF THUNDER BAY, ONTARIO

NTS 42D 15 NE



Marathon, Ontario December 2014 Rudolf Wahl, Prospector Marathon, Ontario

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1.0 Introduction

Between June 16, 2014 and December 17, 2014 general prospecting, geological mapping and rock sampling was conducted on the Sandspit Lake property. We prospected the Sandspit Lake property with emphasis on prospecting in order to locate significant mineralization and Kimberlite – Lamproite.

2.0 LOCATION AND ACCESS

The Sandspit Lake property is situated in an area of rolling hills of relatively low relief. The maximum topographic relief is 120 meters. The property is forested with spruce, birch and cedar. Parts of the claims have been logged. Access is by truck from the town of Marathon and by4 wheeler on the old logging roads. The property is centered approximately 85 kilometers from the town of Marathon. A network of logging roads provides access to most of the claim.

2.1 PROPERTY DESCRIPTION

Sandspit Lake Property consists of 1 contiguous mining claim (16 units, 256 hectare) recorded in good standing in Thunder Bay Mining Division within Islington lake Area Twp. (G- 0593)

Claims/units

4263470 (16)

Total 16 units

Assessment work breakdown				
Type of Work	Name & Address	Dates Worked	$\frac{\text{Days} = 8 \text{ to } 10}{\text{hours}}$	Signature
Prospecting, Geological mapping, Hand Stripping, Rock sampling along Travers line on claim # 4263470	Rudolf Wahl Box 1022 Marathon, Ontario P0T 2E0 CLN # 206079	June 16, 2014 To June 20, 2014	5	R.W
Prospecting, Geological mapping, Rock sampling along Travers line on claim # 4263470	Frederick Lowndes 28 Steedman Drive Marathon, Ontario P0T 2E0 CLN #410033	June 16, 2014 To June 20, 2014	5	F.L.
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Prospecting, Geological mapping, Hand Stripping, Rock sampling along Travers line on claim #4263470	Rudolf Wahl Box 1022 Marathon, Ontario P0T 2E0 CLN # 206079	Nov. 10, 2014 To Nov. 11, 2014	2	R.W
Prospecting, Geological mapping, Rock sampling along Travers line on claim # 4263470	Frederick Lowndes 28 Steedman Drive Marathon, Ontario POT 2E0 CLN #410033	Nov. 10, 2014 To Nov. 11, 2014	2	F.L.

Total 34

A total of 34 days in between June 16, 2014 and November 11, 2014 where used for prospecting, hand stripping, geological mapping and rock sampling on the Sandspit Lake Property.

Dated Nav. 15 2014, Marathon, Ont.

Dated Nov 16 2014, Marathon, Ont.

Signed Frederick Lowndes)

Assessment Work Breakdown days:

June 16, 2014 to June 20, 2014 prospecting on claim #4263470

We used our 4wheelers into the property on an old logging road by the name of Jackpine Road at kilometer 40 over the bridge at the Islington Lake to easier access the property about 30 kilometer to the east - northeast. We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by sand and glacial till with some section of granite – gneiss - syenite. We found an interesting boulder that looks kimberlitic in nature. Prospecting is time consuming since it takes as a few hours to get to the claim block.

June 23, 2014 to June 27, 2014 prospecting on claim #4263470

We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by sand and glacial till with some section of granite – gneiss - syenite. We discovered a few more kimberlitic boulders within the same area were we found the first boulder close to the swamp to the northeast. On the magnetic map it showed us a nice magnetic high anomaly in regards to kimberlite potential magnetic signature; we couldn't explain the magnetic high since the area is covered by a swamp.

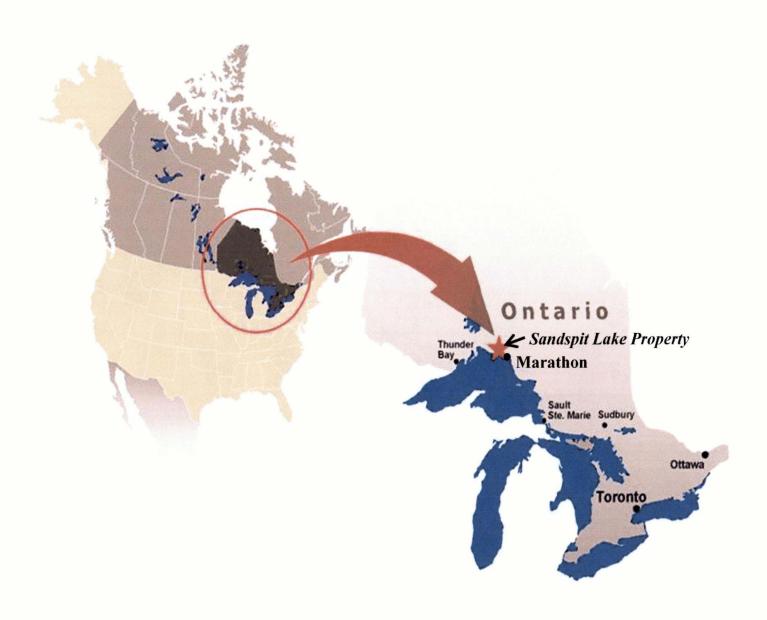
November 03, 2014 to November 07, 2014 prospecting on claim #4263470

We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by sand and glacial till with some section of light carbon stained syenite. We took two samples from the syenite that was light carbon stained. Most of the area that we prospected was surrounded by medium sized swamps.

November 10, 2014 to November 11, 2014 prospecting on claim #4263470

We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by sand and glacial till including swampy areas with high grass growing in them sections. We took 2 samples within the southern area of the claim block.

Sandspit Lake Property Key Location Map



3.0 General Property Geology

The Killala Lake North claim block lies at the junction of the Wawa and Quetico subprovinces of the Superior Structural Province of the Canadian Shield. The rocks comprise east-west trending interbedded Archean meta-sedimentary and meta-volcanic rocks intruded by granitic and mafic intrusive rocks. Younger Proterozoic intrusions include the Marathon diabase dyke swarm and alkalic intrusions, of the Coldwell and Killala Lake alkalic-carbonatite complexes and lamprophyre dykes. The large number of dykes mapped in the area is clearly evident in the airborne magnetic survey as long linear anomalies with a variety of strikes. Including are some distinct magnetic lows that appear to reflect a north-northeast set of lamprophyre dykes.

The Trans-Superior Tectonic Zone (TSTZ) extends north-northeast through the area and appears to be the locus of the considerable intrusive activity present. The TSTZ is similar to other tectonic features in the Canadian Shield, such as the Kapuskasing Structural Zone and the Lake Timiskaming Structural, along which diamond deposits have been found. Indeed, diamondiferous kimberlites have been found in Michigan on the southern extension of the TSTZ. These major structures provide deep-seated zones of weakness that tap into the mantle and provide conduits along which kimberlites ascend. The bedrock is all of Precambrian age, but thick unconsolidated varved clays and silty sands of Pleistoncene and Recent age are found along the major drainage valleys. The Precambrian rock consist of acid and basic metavolcanics and minor metasedimentary units, intruded by serpentinite, granite, diabase, gabbro and alkalic gabbro, and syenite. The age sequence of the intrusive rocks has not been absolutely established. There is some doubt as to whether the diabase is older of younger than the alkalic intrusions and also doubt as to the position of the serpentinite in the sequence.

Rubidium-stronium age determinations on granite in the general area and on the alkalic syenite gave ages of 2,300 million years and 1,255 million years respectively. Copper-nickel and asbestos mineralization are associated with the serpentinite and copper and iron mineralization with the alkalic gabbro.

Nepheline natrolite syenites of the Coldwell and Killala lake alkaline complex exhibit rare wispy mafic-rich modal layering, extensive xenolith-rich zones and a wide variety of textural types, the latter resulting from the imposition of high temperature shearing and recrystallization on consolidated syenite. The textures developed range from allotriomorphic granular to porphyroclastic to mosaic granulob-lastic. The nepheline syenites are pyroxene-poor. Pyroxenes occur most commonly as corroded diopside to diopsidic hedenbergite cores surrounded by amphibole and less commonly as acmitic hedenbergite overgrowths upon cores of iron-rich amphiboles. Amphiboles are the dominant mafic phase and range from magnesian hastingsitic hornblende to hastingsite to hastingsitic hornblende to ferroedentic hornblende. Nephelines contain excess silica and have not equilibrated to compositions characteristic of low temperatures. Feldspars lack microcline twinning and perthites and have undergone extensive ion exchange at high sub-solidus temperatutes with sodium-rich fluids. Formation of late stage primary and replacement natrolite, muscovite and thomsonite is characteristic. The nepheline syenites are considered to be a part of a cycle of continental rift magmatism and to have been emplaced by cauldron subsidence as a hot hydrous magma. The rocks did not undergo long term subsolidus re-equilibration as the high temperature mineral assemblage has been preserved by uplift during post-intrusive regional block faulting. The nepheline syenites were probably dervied by extensive fractional crystallization of alkali basaltic magmas.

3.1 Glacial Geology

In glaciated terrain where much of the overburden is exotic it is important to understand the glacial history to establish the provenance of kimberlite indicator mineral anomalies. From glacial striae there are 2 ice flow directions at 220° and 170° – 190° with the 220° direction being the oldest (OGS, 2000a). The 220° direction is present throughout the area while the 170° – 190° direction is only present in the south. A sub-glacial 'lodgement' till with material derived from local bedrock is present almost everywhere, affords the best sample medium. Many of the glacial deposits related to glacial retreat contain carbonate in the matrix derived from the closest Palaeozoic rocks a long way away in the James Bay Lowlands. Both glaciofluvial and glaciolacustrene deposits are present that can re-arrange and mask indicator mineral trains. Post glacial landforms such as sand dunes and shoreline features, which can also affect the disposition of the till, are also present. In OGS (2000a), no glacial transport distance is offered for the area, so an estimate of the proximity of the kimberlite source rocks cannot be made.

Note from the OGS open file report # 6013 - 2000 page 45, where the new Diamond discover is located.

Caution is warranted, the upper part of the Little Pic River area may be a good place to explore for kimberlite for several reasons. These include: 1) there are not one, but 3 sites that have a strong KIM signature while other sites around them do not; 2) each site consists of more than one KIM type; 3) the river does cut to bedrock; 4) all 3 sites are located at a major intersection between structures associated with the TSTZ and the Killala Lake Deformation Zone; and 5) there are a number of magnetic anomalies (bull's-eye) immediately up-ice from the sites as illustrated on magnetic maps.

4.0 Prospecting / Geological Mapping

Most of the Sandspit Lake property was geologically mapped and prospected / sampled with emphasis on prospecting in order to locate significant mineralization and Kimberlite – Lamproite on the property.

5.0 Work conducted on the Sandspit Lake property.

The Sandspit Lake Property consists of 1 mining claim (16 units, 256 hectare) recorded in good standing in Thunder Bay Mining Division within Islington Lake Area Township (G-0593).

Work conducted on claim:

Claims/units

4263470 (16)

Total 16 units

5.1 Work completed

- a. Geological mapping on traverse lines.
- b. Rock sampling over mineralized out crops along traverse lines.
- c. Rock sample where collected by UTM: ZONE 16 NAD 83 locations.
- d. All sample where taking with a Geo tool.
- e. A total of 4 rock sample where obtained for Niobium element a total of 4 Boulders sample where obtained in regards to the diamond potential on that claim block.
- f. Topographic features (trail, lakes, creek) were also used to control mapping and prospecting.

6.0 Results and Conclusion

4 Rock samples were collected from the Sandspit Lake property in regards to the Niobium potential, all for sample assayed alleviated Niobium (Nb205) results up to 0.057% Nb205. Most of the Sandspit Lake property was geologically mapped and prospected with emphasis on prospecting in order to locate significant mineralization including Kimberlite & Lamproite. We collected 4 kimberlitic boulders on the property in regards to the diamond potential on the claim block since the Sandspit Lake property is up Ice from the main Kimberlite indicator minerals train that Ripple Lake Diamonds outlined.

Panning exploration by Ripple Lake Diamonds of Quaternary sediments in Killala Lake area allowed to identify a linear zone a multimineralic, high-contrast dispersion halo of short-transit kimberlitic association KIM-1. This zone appears as a narrow (not wider than 1 km), 20 km long, NE-trending zone extending along the western shores of Route Lake, Kilala Lake and Sandspit Lake, from the left side of Little Pic River on the SW to Kagiana Lake on the NE. This zone, denoted as *Promising area A*, is also characterized by the presence of picroilmenite grains with spots of kimberlitic material and even fragments of kimberlite rocks in panned samples. The presence of kimberlites within this zone is doubtless. The southwestern part of this zone is best prepared for direct exploration for kimberlites. The high abundance and ubiquitous occurrence of picroilmenite grains within the halo and the high concentration of picroilmenite in the samples might suggest that the kimberlitic source is rather large, or that there is much more than one kimberlite body in this zone. **The Sandspit Lake claim block lies within the area of potential kimberlite.**

The Sandspite Lake Property was also covered by a high resolution helicopter airborne magnetic and electromagnetic geophysical survey as part of the Ontario Geological Survey and part of the work that was done by Ripple Lake Diamonds work program. This survey outlined a number of circular anomalies which look similar to the signature of kimberlite pipes. We investigated some of the circular anomalies and found that these anomalies need to be drilled since the anomalies are under swamps and under glacial till.

6.1 **RECOMMENDATIONS**

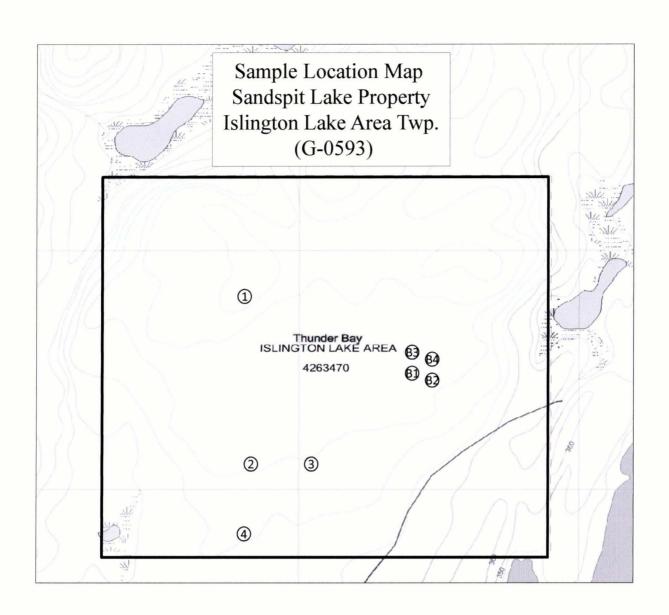
Due to the discovery of kimberlitic boulders within the claim block and the favorable stratigraphy on the Sandspit Lake property in regards to Kimberlite – Lamproite, further prospecting is warranted within the claim block area. It is recommended to perform a ground magnetic survey over the circular anomalies within the property to outline drill targets for diamond drilling.

Marathon, Ontario December 17, 2014 Respectfully submitted

Rudolf Wahl Prospector

Shudely Wood

Appendix I



Sandspit Lake Property Sample Location, UTM 16 NAD 83

Sample	Sample #	Easting	Northing
Location #			
B1	Boulder 1	534467	5448476
B2	Boulder 2	534484	5448471
B3	Boulder 3	534467	5448500
B4	Boulder 4	534486	5448496
1	575768	533808	5448806
2	575770	533846	5448097
3	575771	534027	5448122
4	575772	533800	5447784

Appendix II

DESCRIPTION OF ROCK SAMPLES

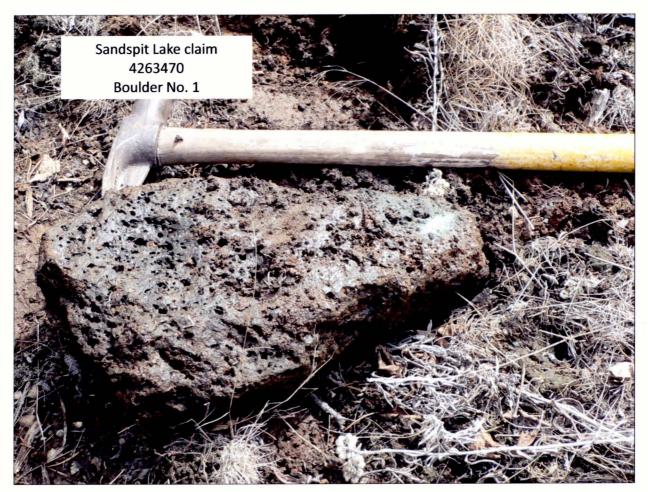
(See Geological map for sample location)

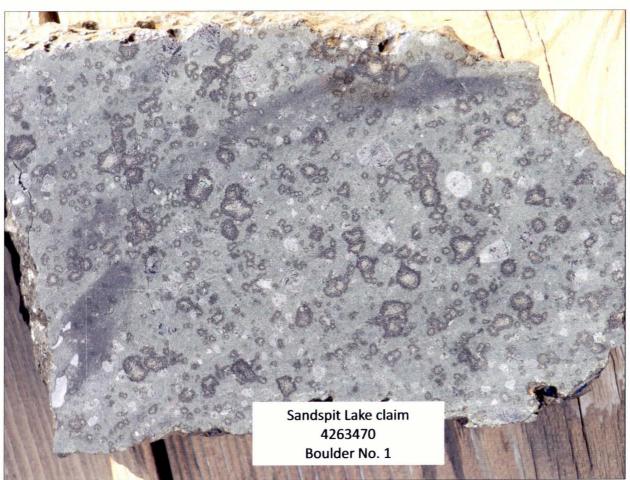
Sample Location #	Sample #	Rock Sample Description
B1	Boulder 1	Porphyritic ultra mafic rock with cpx and ol phenocrysts set in groundmass of ol, px, plg, and opaques. Phenocrysts are large, mostly euhedral (px are occasionally zoned) and occur either as single crystals or small clusters. Groundmass consists of smaller duplicates of phenocryst mineralogy, with interstitial plag and many opaques.
B2	Boulder 2	Porphyritic ultra mafic rock with cpx phenocrysts (euhedral, zoned) and an unknown altered phenocrysts (cpx?) surrounded by a bt reaction halo. Groudmass is mostly chl, except where surrounding unknown phenocrysts, with some unknown mostly anhedral opaques.
В3	Boulder 3	Porphyritic diabase with plagioclase phenocrysts. Medium grained plagioclase is found in a highly altered groundmass. In general this rock is also highly altered. Clinopyroxene and Felspar phenocrysts are abundant and are altered but easily identifiable. The felspar phenocrysts show some nice zoning patterns. The accessory mineralogy was impossible to identify due to the heavy groundmas alteration.
B4	Boulder 4	Porphyritic ultra mafic rock with cpx phenocrysts (euhedral, zoned) and an unknown altered phenocrysts surrounded by a bt reaction halo. Groudmass is mostly chl, except where surrounding unknown phenocrysts, with some unknown mostly anhedral opaques.
1	575768	syenite unit, has a porphyritic texture, 11/2 % sulphide
2	575770	fine grained syenite, ½ % sulphide
3	575771	medium grained syenite, carbon staining
4	575772	syenite breccia, carbon staining

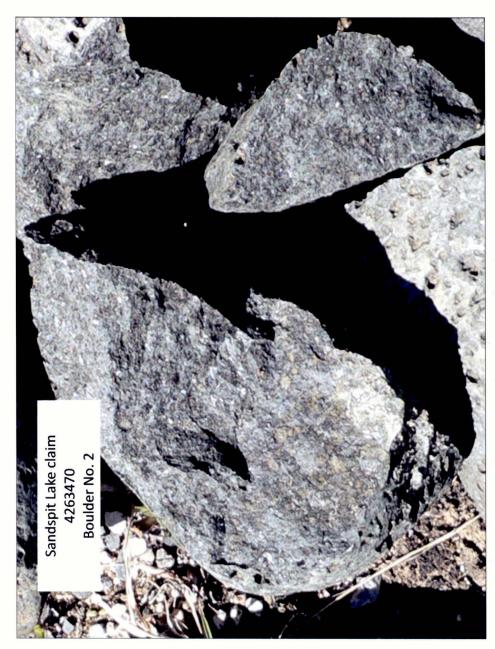
Boulder # 3 Rock sample description Dr. Shannon Zurevinski, P.Geo. Assistant Professor, Dept. of Geology Lakehead University

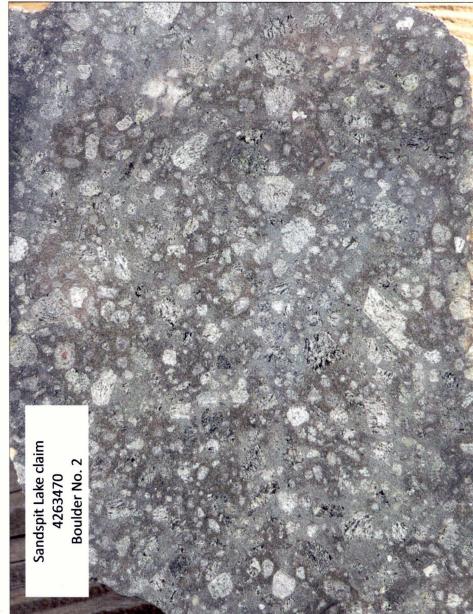
Shannon.Zurevinski@lakeheadu.ca 8073438015

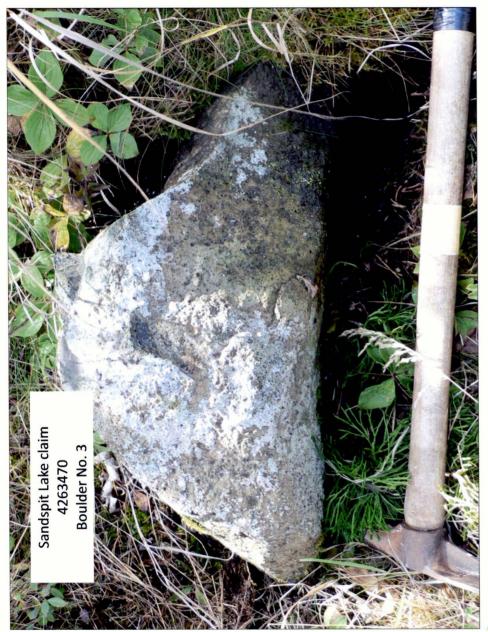
Appendix III

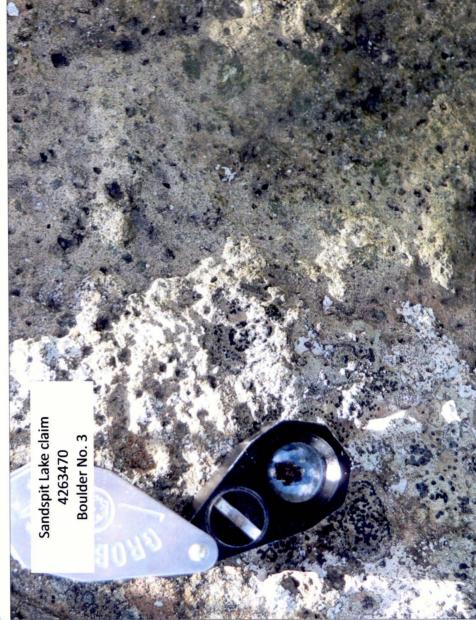


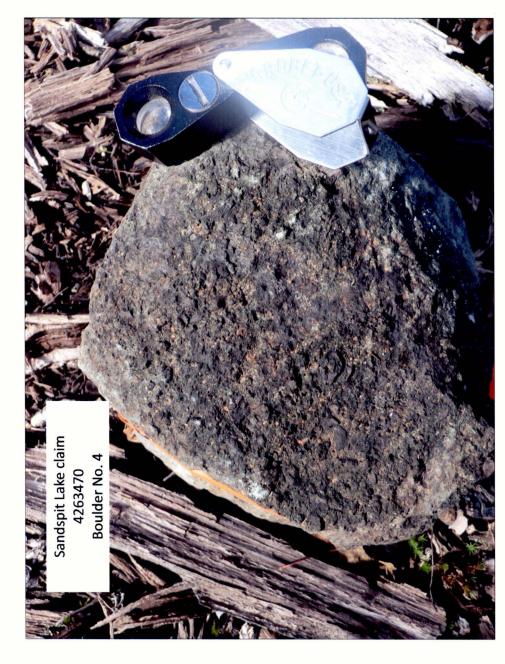














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Dated Nov. 15 2014, Marathon, Ont.

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