

Work Report on  
McKellar Creek Diatreme Property

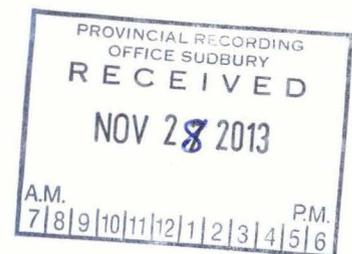
Prospecting, geological mapping, rock sampling.  
Thunder Bay South Mining Division-40  
District of Thunder Bay Ontario

N.T.S. 42 D/ 15 SE Mining Claim Map Walsh Twp. G-0636

Marathon, Ontario  
November 30/2013

Russel Renner  
Prospector  
Marathon, Ontario

Russel Renner



2.54598

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## Appendixes

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Appendix---1	Rock sample description Assay Certificates Assessment File Cost Sheet
Map # 1	Travers and sample location and geology.

On Oct. 24/2013---A prospector with geo referencing equipment and qualifications was hired to geo reference the corner posts on claim # 1241508.

On Oct. 25-26/2013---2 prospectors worked the property geological mapping and sampling bed rock.

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#### LOCATION AND ACCESS

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The McKellar creek property is located in Walsh Twp. G-0636. The property lies approx.. half way between the towns of Marathon and Terrace Bay which can supply most needs for exploration and development. # 2 post is located on the bush line on the north side of Highway 17 approx. 200 m east of McKellar creek. A old logging road—A.T.V. trail on the west bank of the creek gives good access to the property and the diatreme. Hwy. 17, the c.p.r main line and hydro lines are all in close proximity to the property.

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#### PROPERTY DESCRIPTION

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The McKellar Creek Diatreme property consists of 1 unpatented mining claim-1unit, 16 hectares recorded in good standing in Thunder Bay South Mining Division-40 within Walsh Twp. G-0636 Claim # 1241508.

Prospecting and Work sheet Breakdown

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Date Worked	Type of Work	Name and Address	Days 8 hrs.
Oct. 25-26/2013	prospecting geological mapping bedrock sampling	Russel Renner Box 794 Marathon, On. POT2E0 Cln. # 186885 Signature <u>Russel Renner</u>	2 days 16hrs

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Oct. 25-26/2013	Prospecting geological mapping bed rock sampling	Harold Griggs Box 234 Marathon, On. POT2E0 Cln. # 400501 Signature <u>Harold Griggs</u>	2 days 16hrs.
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Total Man days

4

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A total of 4 man days were used in Oct. 2013 for prospecting and geological mapping and bed rock grab sampling on the McKellar Creek Property. 5 rock samples were taken and sent in for assay.

Nov. 30/2013

Russel Renner

**MANITOBA**

**HUDSON BAY**

○ Red Lake

○ Pickle Lake

James Bay

Mooseone ○

○ Kenora

○ Dryden

**ONTARIO**

**QUEBEC**

**McKELLER CREEK PROPERTY**

**Marathon**

Thunder Bay

L. Superior

Wawa

Timmins ○

Kirkland Lake ○

Sault Ste. Marie

○ Sudbury

Ottawa



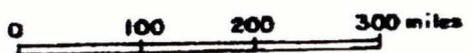
L. Michigan

L. Huron

Toronto ○

L. Ontario

L. Erie



<b>McKeller Creek Property</b>		
<b>Walsh Twp</b>		
<b>Thunder Bay M.D., Ontario</b>		
<b>LOCATION MAP</b>		
Prep. by R. Renner	Date NOV 2005	FIG. No.
Drawn by R.R.	Scale 1"=150m	<b>1</b>

521000E

522000E

4242130

4258084

4246280

540800C

4258088

4256293

WALSH  
Thunder Bay  
1241508

SKI DOG TRAIL

4258089

540700C

HWY 17

McKELLAR  
CREEK

CPR TRACKS

521000E

522000E

1000N

17000N

3.0

Generalized Property Geology  
was taken from Ministry of Natural Resources  
Ontario Geological Survey  
Study 27  
Mineralization in Diatreme Structures  
North of Lake Superior

By  
R.P. Sage 1982

GENERAL GEOLOGY

On the basis of limited exposure the diatreme has a north-south long axis of approximately 240m and a maximum width of approximately 60m. The site of the breccia is surrounded by extensive outcrops of Early Precambrian, fine grained, schistose argillite and siltstone. These metasediments are rather homogeneous, rarely show good bedding, and commonly contain an estimated 20 percent or more biotite. The metasediments have been intruded by north-trending diabase dikes which were not observed to cut the breccia. Several lamprophyre dikes were observed but the relationship of these dikes to the breccia is also unknown.

DIATREME BRECCIA

The diatreme breccia consists of rounded to angular clasts of pink and white quartzite, metasediments, and, rarely, altered trondhjemite. The clasts generally do not exceed 0.3m in maximum dimension, but one clast of quartzite in a small outcrop immediately east of the two main outcrops is 2 by 3m in size.

The quartzite clasts were considered by Mitchell and Platt (1977) to be from the Sibley Group, and the author agrees with this interpretation. The clasts of quartzite are more rounded than the clasts of Early Precambrian metasediments, and on weathered surface chalky white specks derived from the weathering of feldspar are visible, indicating the rock is an arkosic quartzite to arkose. The rounding of the clasts is likely due to milling of the fragments during emplacement of the breccia. The presence of these clasts within the breccia suggests that the Late Precambrian Sibley Group once covered this area, but has been subsequently removed by erosion. The presence of these clasts at a stratigraphically low level has been described and explained experimentally by McCallum et al (1976) and Woolsey et al (1975). The clasts represent sloughing of the overlying rocks accompanying collapse of the gas column during the waning phase of emplacement. The slate clasts are of local origin, derived from the enclosing

metasediments. The clasts are reddened (hematized) and silicified. The larger clasts are locally more altered along the rims than within the cores. The reddening and hardening (silicification) of the metasediments rapidly disappears away from the breccia-wallrock contact indicating the hydrothermal effects were largely restricted to the breccia. The width of visible alteration of the enveloping rocks is estimated to be a maximum of 3 to 6 m.

## 3-0 BRECCIA MATRIX

The breccia matrix is variable between sections. The variation in texture and mineralogy between samples appears to be the result of the variation in intensity of the alteration.

Angular fragments of quartz and plagioclase feldspar are abundant in the breccia matrix. The feldspars are turbid ( $An_{50}$ ?) and in part saussuritized. Several grains of possible microcline were observed. The quartz and plagioclase chips within the matrix are the result of milling of Sibley Group quartzite clasts. All gradations between individual quartz grains and distinct fragments of Sibley Group rocks were observed.

The quartz grains display weak wavy extinction, occasionally in bands and are rarely well rounded in shape. The quartz chips locally contain bubble trains.

Carbonate is abundant in the matrix, and it envelopes some clastic grains. Carbonate also impregnates some clasts, and may presumably be stained brown from iron oxide. The lack of carbonate within the enclosing wall rocks indicates that the carbonate found in the breccia has been introduced.

## STRUCTURAL GEOLOGY

The diatreme occupies a topographic low and occurs within a north-trending linear. The breccia may have been emplaced within a shear or fault zone, however, geologic data supporting this possibility are lacking. The rather homogeneous lithologies east and west of the structure have prevented the identification of any offset across the topographically low ground. There is no apparent zonation of clast size, but this may be a function of lack of exposure.

## ECONOMIC GEOLOGY

The breccia was found by Walker (1967) who interpreted it as Animilie conglomerate. The author examined the exposure in 1975 after completing work on the Slate Islands, and concluded that the breccia was diatreme (Sage in preparation). In 1977 Mitchell and Platt prepared a brief description of this intrusion along with the Dead Horse Creek structure. The diatreme was recognized as being radioactive by J. Scott (Resource Geologist,

3-0 Ontario Ministry of Natural Resources, Thunder Bay) in 1976 following staking activity on the Dead Horse Creek structure. The mineral potential of this structure has not been determined. The breccia is radioactive everywhere, but highly variable in intensity. Thorium is dominant over uranium and readings of up to six or seven times background were obtained. Reddish brown carbonate veinlets cutting argillite in the first outcrop west of the trail leading to the diatreme on Highway 17 give readings of one or two times background. The breccia was staked in 1977 by L. Kaye; however, no evidence of prospecting activity was seen by the author at the time of completion of field work in June. The body warrants careful testing to determine the distribution of radioactive mineralization.

PROSPECTING AND GEOLOGICAL MAPPING AND GRAB SAMPLING  
DAILY LOG

Oct. 25/2013 Travers # 1---2 prospectors drive from Marathon to McKellar Creek and walk in to the diatreme acc. The old road—ATV trail is starting to be taken over by tag alder and second growth but is still visible. The out crop here on the east side of the old road is a small cliff 2-3 m high. Some fairly big pieces of this cliff has crumbled and fell of do to weathering and frost heave. All rocks in this area are highly oxidized and it is hard to get a good representative sample of the material for assay. Approx..11am it started to rain and by 12pm it was raining to hard to stay in the bush and work. It was decided that we would come back on a drier day. 1 sample was taken.

Oct. 26/2013 Travers # 2---2 prospectors drive from Marathon to McKellar Creek and walk into the diatreme acc. on the east side of the old road-ATV trail. Weather is better today fairly clear and no rain. Approx.. 1 hour was used trying to get good samples from this old acc. Then it was decided to work to the east and see if more out crop could be found. Approx.. 100m east possible bed rock was found broken rubble under 6" of moss and leaf mold is plentiful and bed rock is a good possibility in a couple of spots. The rocks here are breccia or diatreme none magnetic and none carbonated. Rusted and oxidized with fragments up to 12cm in size. 1 sample was taken approx.. 50m to the N-N-E an area was found under light over burden. This area is small approx..4m across. The rocks here are highly rusted and oxidized and only quartz could be recognized. These rocks are quite heavy and carbonated . 1 sample was taken.

Approx..40m to the N-N-W along a small hill out crop was found again only 3-4m across. Out crop here is covered with a white cream oxidized or stain that has a extremely bumpy texture . it is highly carbonated, heavy, non magnetic. One recognizable mineral is possible a pink barite. 1 sample was taken. Approx.. 45m to the N-N-W a area of broken rubble and out crop was found. The rocks here are heavy, black and highly oxidized blebs of quartz are recognizable. This area is non magnetic and highly carbonated. 1 sample was taken.

All 5 samples taken have been sent for 34 element assay and one was also assayed for whole rock. Pulp and rejects will be kept for possible future assay for ree.

## WORK CONDUCTED ON THE PROPERTY

During the period from Oct. 24 to 26/2013 all 4 corner post locations were geo referenced altho no posts were found pictures were taken of each UTM location. Also a 2 day program of prospecting and geological mapping and rock grab sampling was completed. A total of 5 rock samples were taken and assayed.

## RESULTS AND CONCLUSION

Between Oct 24/2013 and Nov.14/2013 one man day was used to geo reference the corner post on claim # 1241508 Walsh Twp. G-0636. No posts were found at this time but a second attempt was made to find # 2 post on the North side of Hwy. 17 right away. The second attempt was successful and # 2 was found with tag. The # 2 post was geo referenced and this info was sent in to be attached to the file for geo referencing assessment sent in on Nov. 7/2013.

On Oct. 25-26/2013

2 prospectors spent these 2 days doing a small geological mapping and rock sampling program on the McKellar Creek diatreme.

5 bed rock grab samples were taken and assayed.

## RECOMMENDATIONS

At this time it is very hard to recommend any type of work or future for a mining property in Ontario because of money markets etc. but in the future if interest was to increase in ree's etc. and the Prairie Lake intrusion and Dead horse Creek diatremes were to come back into the lime light and create some enthusiasm in this area. Then the McKellar Creek diatreme would certainly have some potential to become a part of new enthusiasm. The McKellar Creek diatreme is not big enough to fly on it's own but would fit well in a bigger area play.

APPENDIX # 1

## ROCK GRAB SAMPLE DESCRIPTION

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BRR-2013-056---Diatreme- breccia highly carbonated, rusted, oxidized, visible fragments of quartz, pink granite and dark gray to black mafic rocks.

BRR-2013-057---Breccia, none magnetic, none carbonated, fragments up to 12cm X 5cm in size. Rusted , oxidized.

BRR-2013-058---sample is highly rusted-oxidized only quartz can be recognized – heavy rock highly carbonated.

BRR-2013-059---This sample is covered with a white creamy looking oxide or stain It is highly carbonated, heavy, none magnetic and has a ruff Bumpy texture. One recognizable mineral is possibly a pink Barite.

BRR-2013-060---This sample is heavy, oxidized, and black blebs of quartz are Recognizable. none magnetic and highly carbonated. .



1046 Gorham Street Tel: (807) 626-1630 www accurassay.com  
 Thunder Bay, ON Fax: (807) 622-7571 assay@accurassay.com  
 Canada P7B 5X5

Friday, November 8, 2013

**Preliminary Analysis**

Renner and Bond  
 PO Box 794, 33 Jackson Crs  
 Marathon, ON, CAN  
 POT2E0  
 Ph#: (807) 229-0650  
 Fax#: (807) 229-1498  
 Email: russ.r@shaw.ca

Date Received: 10/30/2013  
 Date Completed: 11/08/2013  
 Job #: 201342332  
 Reference:  
 Sample #: 5

Acc #	Client ID	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
164804	BRR-2013-056	<0.005	<1	1.24	16	83	273	5	<1	6.70	<4	11	92	15	4.78	0.13	14	1.42	2073	8	0.05	60	9226	24	<5	6	0.23	<10	1065	356	<2	159	<10	189	71
164805	BRR-2013-057	<0.005	<1	1.09	33	77	271	5	2	4.42	<4	15	93	37	4.10	0.51	13	0.86	1342	13	0.09	73	2356	16	5	9	0.33	<10	687	573	<2	178	<10	95	55
164806	BRR-2013-058	<0.005	<1	1.16	22	81	247	5	<1	2.72	<4	18	125	27	5.63	0.15	12	0.96	2069	12	0.09	88	7344	21	8	<5	0.23	<10	501	425	<2	169	<10	161	151
164807	BRR-2013-059	<0.005	<1	1.81	21	80	255	5	2	8.72	<4	7	100	8	5.64	0.08	17	1.92	2684	8	0.04	71	1362	17	7	<5	0.20	<10	680	415	<2	173	<10	121	74
164808	BRR-2013-060	<0.005	<1	1.43	53	93	368	6	3	7.54	<4	30	115	62	5.18	0.43	19	1.33	2062	16	0.06	93	7045	30	<5	<5	0.36	<10	1280	575	<2	192	<10	214	53
164809D	BRR-2013-060	<0.005	<1	1.39	52	82	346	5	2	7.38	<4	29	112	62	5.11	0.44	19	1.29	1986	16	0.05	89	6852	33	12	<5	0.26	<10	1259	554	<2	186	<10	210	49

PROCEDURE CODES: ALP1, ALFA1, ALAR1, ALXR3, ALXR1

Certified By:   
 Dr. David Brown, VP Quality

The results included on this report relate only to the items tested.  
 The Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory.

Wednesday, November 20, 2013

**Certificate of Analysis**

 Renner and Bond  
 PO Box 794, 33 Jackson Crs  
 Marathon, ON, CAN  
 P0T2E0  
 Ph#: (807) 229-0650  
 Fax#: (807) 229-1498  
 Email: russ.r@shaw.ca

 Date Received: 10/30/2013  
 Date Completed: 11/08/2013  
 Job #: 201342332  
 Reference:  
 Sample #: 5

Acc #	Client ID	Fe2O3 %	SiO2 %	Al2O3 %	Na2O %	MgO %	K2O %	CaO %	P2O5 %	MnO %	TiO2 %	Cr2O3 %	V2O5 %	LOI %	Mass Balance %
164807	BRR-2013-059	7.32	48.67	9.02	2.03	14.28	3.65	2.38	0.30	0.32	0.43	<0.01	0.03	13.44	101.88
Control Standard Performance															
NIST SR 690		95.77	3.65	0.18	0.02	0.23	0.18	<0.01	0.02	0.22	0.04	<0.01	<0.01	0.01	100.32
NIST SR 692		86.29	10.29	1.38	0.03	0.05	0.04	0.06	0.09	0.46	0.07	<0.01	<0.01	2.50	101.26
Control Std Certified															
	Fe2O3 %	SiO2 %	Al2O3 %	Na2O %	MgO %	K2O %	CaO %	P2O5 %	MnO %	TiO2 %	Cr2O3 %	V2O5 %	LOI %	Mass Balance %	
NIST SR 690	95.58	3.71	0.18	0.00	0.18	0.00	0.20	0.03	0.23	0.02			<0.01	100.13	
NIST SR 692	85.18	10.14	1.41	0.01	0.04	0.04	0.02	0.09	0.46	0.04			2.50	97.43	

APPLIED SCOPES: ALP1, ALFA1, ALAR1, ALXR3, ALXR1

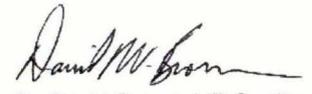
Validated By:

Certified By:

Authorized By:

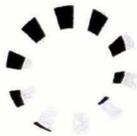
  
 Jason Moore, VP Operations, Assayer

  
 Jason Moore, VP Operations, Assayer

  
 Dr. David Brown, VP Quality

The results included on this report relate only to the items tested.

The Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory.


**CALA**  
 Testing  
 Accreditation No. A 2977



**ACCURASSAY**  
LABORATORIES

**Laboratory Address:**  
1046 Gorham Street,  
Thunder Bay, ON P7B 5X5  
Ph: 807-626-1630  
Fx: 807-622-7571

**Remit to:**  
Accurassay Head Office  
126-4026 Meadowbrook Drive  
London, ON N6L 1C7  
Ph: 519-266-4640  
Fx: 519-652-8638

**INVOICE**

**Invoiced to:**

Renner and Bond  
P.O. Box 794, 33 Jackson Crs.  
Marathon, ON P0T 2E0

**Analyzed For:**

Renner and Bond  
P.O. Box 794, 33 Jackson Crs.  
Marathon, ON P0T 2E0

**Invoice No:** IN119581

**Date:** Nov 25, 2013

**Page:** 1

**Cust. No.:** 1395

Business No: 10029 4768

Terms: Net 30 Days

Due Date: Dec 25, 2013

Code	Qty	Description	Unit Price	Amount
Job# 201342332				
ALP1	5	Dry, Crush (<5kg) 85%-10 mesh, Split 500g, Pulv 90%-200 Mesh	7.25	36.25
ALFA1	5	Gold (FA/AAS, 30g)	12.60	63.00
ALAR1	5	Aqua Regia Digestion with ICP-OES Finish	10.10	50.50
ALXR3	1	Whole Rock Analysis by pressed pellet, XRF	28.00	28.00

Notes:

**Tax Summary:**

GST 0.00  
QST 0.00  
HST 23.11

Sub-Total 177.75  
Total Taxes 23.11  
Total Amount 200.86

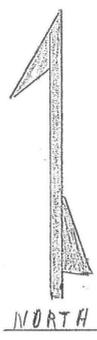
ASSESSMENT FILE COST SHEET

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Prospecting man days---4 days	X\$250.00	\$1,000.00
Food	4 X\$35.00	\$140.00
Transportation	200km X .41	\$82.00
Assays	5X\$34.57 + 1X\$28.00	\$200.86
Total		\$1,422.86
Writing report 1 day=\$250.00		\$250.00
Grand total		\$1,672.86

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1CM = 100M Scale

Declination 7° WEST

Legend

HWY	=====
Creeks	~~~~~ Creek
Road ATV TRAIL	o o o o o o
Claim Line + Post	┌┐
Other Claims	-----
Claim #	1241508
Travers + Direction	↔ → →
Missing Post	MP
Overburden	OB
White Birch	WB
Spruce	SP
Balsam	B
Poplar	P
Tag Alder	Tg
Under Brush	UB
Second Growth	SG
Diatreme Breccia	Db.
Outcrop	
Sample # Number	BRR-2013-060
Gossan	Gossan
Carbonated	C

DATE Nov 19 / 2013  
 SIGNATURE Russel Pinner