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# 2000 Report of Work on the North Williams Barite Property

North Williams Township, Ontario

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GEOSCIENCE ASSESSMENT

By: Ann Larocque Date: December 8, 2000

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#### 1.0 INTRODUCTION

The North Williams property, a barite prospect, is currently being evaluated by Highwood Resources Ltd. This report summarizes worked carried out on the property during the first year of Highwood's tenure of the property, as required by an option agreement.

An exploration program was carried out in the summer of 2000 to test the continuity of the barite vein currently being mined by Extender Minerals. The work done and described by this report includes line cutting, geophysical surveys, geological mapping, trenching and diamond drilling.

#### 2.0 LOCATION and ACCESS

The North Williams Property is centered on UTM coordinates 498060mE and 5250850mN, in North Williams Township, Ontario.

The property is located approximately 52km, by road, southeast of the village of Shinning Tree. Access is by 2 wheel drive vehicle proceeding south from Shinning Tree on Highway 560 for ~8.0km, then west on the Sandy Falls forestry road, to the end of the road at a T junction, then south to the power line adjacent Extender Minerals Mine site.

#### 3.0 PROPERTY DESCRIPTION

The property consists of 5 mineral claim units located in North Williams Township (G 3694), Larder Lake Mining Division as listed on Table 1 below, and depicted on Figure 1, Appendix A.

Claim No.	Recording Date	Due Date	Record Holder	Unit Size
1224513	Aug 10, 1998	Aug 10, 2004	100% Roy Annett	1
1226517	Feb 14, 2000	Feb 14, 2002	100% Joe-Anne G. Salo	fraction
1234962	Feb 14, 2000	Feb 14, 2002	100% Joe-Ann G. Salo	1
1234963	Feb 14, 2000	Feb 14, 2002	100% Joe-Ann G. Salo	1
1234964	Feb 16, 2000	Feb 16, 2002	100% Joe-Ann G. Salo	6
1234965	Feb 16, 2000	Feb 16, 2002	100% Joe-Ann G. Salo	7
1240673	June 08, 2000	June 08, 2002	100% Highwood Resources Ltd.	1
1240674	June 08, 2000	June 08, 2002	100% Highwood Resources Ltd.	2

#### Table 1: List of Mining Claims

The address of Record claim holders are as follows; Joe-Ann G. Salo 491 Finn Rd, Connaught, ON, P0N 1A0 Roy Annett RR#1 Parry Sound, ON, P2A 2W7

#### 4.0 PREVIOUS WORK

In 1999, the owner of the property carried out an exploration program to test the continuity of the barite vein currently being mined by Extender Minerals. Work included limited sampling, one diamond drill hole (346') and five areas of trenching where only one of the areas reached bedrock. There is no record of any other previous work.

#### 5.0 GEOLOGICAL DESCRIPTION

#### 5.1 Regional Geology

Archean rocks underlie the area and are overlained by a veneer of Pleistocene fluvial and lacustrine strata with superimposed aeolian deposits. Archean rocks include metavolcanics and metasediments, which are intruded by granitic batholiths and mafic intrusions of gabbroic composition. Proterozoic metasedimentary rocks of the Huronian Supergroup unconformably overlie the Archean rocks. Nipissing-type gabbroic intrusives and late diabase dikes intrude the Archean and Proterozoic sequences (Long, 1984).

Mineral exploration in the area has revealed the presence of barite, cobalt, copper, gold, nickel, silver and zinc mineralization, of which only barite is currently being mined. Most of the mineralization is associated with the Nipissing Diabase intrusions.

#### 5.2 Property Geology

Archean volcanics and granitic intrusions which outcrop in the northeastern portion of the mapped area, on the eastern most portions of claims 1234964 and 1234965 underlay most of North Williams Township. A thick sequence of Huronian sediments comprising of quartzite, arkose, conglomerates and argiillites/siltstone/slates uncomformably overlay the Archean rocks. Gabbroic/dioritic sills and dikes as well as diabase dikes intrude the younger Huronian sedimentary rocks.

Two barite veins outcrop on the adjacent Extender Minerals Property, see sketch of veins on Figure1. Vein A, the vein currently mined at Extender Minerals, trends roughly 50 degrees and dips steeply to the southeast. The vein is white to light pink in colour and coarse to fine grained. The exposed outcrop of vein A consist of nearly pure barite without sulphide minerals but the vein tends to be pody over a short strike length. Vein B is located ~300m northwest of vein A, it trends roughly 30 degrees and dips steeply to the southeast. Vein B is ~2.5' in true width and contains trace amounts of chalcopyrite.

#### 6.0 WORK PERFORMED BY HIGHWOOD RESOURCES LTD., May 2000 thru August 2000

Highwood Resources performed line cutting, geophysical surveys, geological mapping, trenching and diamond drilling on the property during the period from May through August 2000.

#### 6.1 Line cutting

A grid was established to provide control points for the geological and geophysical work to be carried out. Georgex Exploration of Timmins, Ontario was contracted to carry out the line cutting. A total of 11.3 line km was cut and picketed between May 15<sup>th</sup> and June 1<sup>st</sup>, 2000. The baseline is 1.1 km long with pickets at 25m intervals and is oriented at Azimuth 050° to true north. Grid lines spaced 100m apart were turned at 90° to the baseline and were chained and picketed at 25 m intervals along lines east and west of the baseline. All pickets were spray-painted orange and labeled with aluminum tags.

#### 6.2 Geologic Mapping

Geologic mapping was conducted by employees of Highwood, namely Heather Miree – Exploration Manager and Ann Larocque – Project Geologist, between May 26<sup>th</sup> and June 13<sup>th</sup>, 2000. The purpose of the mapping was to determine the general stratigraphy and structure of the map area and provide a better understanding of the controlling factors affecting the barite vein found at Extender Minerals. The map area has very limited bedrock exposures and thick vegetation cover.

#### **Description of Rock Units**

**Arkose:** This unit has a characteristic red, brownish-red to orangy colour and appears to host most the barite veining and breccia. On surface, arkose is only observed at trench 2, (Figure 2), and at the outcrop exposing Extender Minerals' barite vein by the road at the power line. In drill core, arkose is the most abundant rock type observed. This unit tends to be very incompetent and broken into small fragments with local vugs measuring more that 5cm in diameter. This incompetent characteristic results in a unit, which easily weather down, and therefore is rarely observed in outcrops. The unit consists of moderately sorted and subrounded quartz grains. Clay, possibly representing altered feldspar, is common in varying amounts in the unit.

**Argillites/mudstone/chert:** These units are only observed in drill core. They are characteristically thin bedded and individual beds are easily depicted by colour variation. Bedding is generally less that 15cm thick. The argillite beds are beige to light greenish in colour, the mudstone beds are dark brown in colour, generally very soft, and the chert beds are medium green or bright red in colour.

**Diabase:** This unit is fine grained, moderately to strongly magnetic. It is composed of ~45-50% feldspar, ~45% mafic minerals, mostly amphiboles and minor biotite, ~5-8% quartz, ~2% magnetite, trace pyrite. This unit appears to have the same mineralogical composition as the diorite unit; visually, grains size is the only differentiating feature between these rock types. For simplicity reasons, the term diabase was used through out the mapping, rather than differentiating between the two units.

In drill logs, diabase is called "diabase or chill zone", as this unit always occurs between the diorite and the arkose. It is therefore possible that the diabase represents a chill zone between the sedimentary and intrusive contact. To note, a sharp contact between the diorite and the diabase is observed in some of the drill core, implying that the diabase maybe a separate intrusion.

#### Diorite:

This unit is medium grained, massive and varies from strongly magnetic to very weakly magnetic. It is composed of ~50% feldspar, commonly a light greenish colour, ~40-45% mafic minerals, mostly amphibols, ~5% quartz, trace to 5% magnetite. The feldspars are locally red in colour giving the rock a mottled orangy-red and dark green to black colour.

**Quartzite:** Colour varies from light grey to white in outcrop and in drill core colour is more commonly a light pink to light grey. The unit consists of well-rounded and well-sorted quartz grains and is generally competent. On surface as well as in drill core, the unit locally grades into a pebbly quartzite or a conglomeratic quartzite, where grains tend to be matrix supported.

#### 6.3 Trenching

Gogama Forest Products Inc. was contracted to perform trenching at the property using a John-Deere Crawler 450, operated by Brent Guse. Trenching was carried out on June 14<sup>th</sup>, at the end of the mapping program along the small road in the gully to the southwest of Extender Minerals barite vein, (Figure 2). Two trenches were completed in the area of Vein A.

Trench 1, centered at 4+58E and 3+87N straddles the southeastern edge of the diabase ridge at the end of the small road. On surface barite veinlets, 1-4" true width, and barite breccia with  $\sim$ 10% barite over 1m, outcrops on the southern most edge of the diabase ridge. The trench

measured 20m long by up to 6m wide and reached a depth of 4.5m without reaching outcrop at the base of the trench. Overburden consisted of a thin layer of organic material overlying a thick layer of clay to sandy material.

Trench 2, centered at 5+25E and 4+04N was dug along the eastern edge of the outcrop ridge found on the western side of the small road. The trench measured 27m long by 6.7m wide and reached a maximum depth of 5m at the northeast end of the trench and a maximum depth of 4m at the southwest end of the trench. Outcrop was only uncovered along the edge of the outcrop ridge but not at the base of the trench. A barite vein with a true width of ~4m was uncovered along the ridge face which is interpreted to be the southwest extension of vein A. The total width of the vein is unknown as the vein was still in thick overburden to the southeast. The barite is light grey to white, locally light pink in colour, with a fine-grained, sugary texture. Local minor vugs coated with an unidentified black mineral (MnO?) were observed. (note: the light pink sandstone observed in drill core locally contained abundant vugs coated with the black unknown mineral). The barite vein has a sharp contact to the northwest with a red arkose.

#### 6.4 Geophysical Surveys

Due to the lack of outcrop exposure on the property, geophysical surveys were conducted to provide a tool, which would assist in the interpretation of the regional structure of the mapped area. Georgex Exploration of Timmins, Ontario were contracted and carried out both Total Field magnetometer and VLF-EM surveys, see 1:2500 scale maps in Appendix B. The survey was completed by Steve Anderson of Vision Exploration of Timmins, Ontario, between June 7th and June 10th, 2000.

The VLF instrument used was a Geonics EM-16 and magnetometer instrument a GEM GSM-19. A total of 11.3 km of grid lines, with lines spaces 100m apart and stations spaced 12.5 m apart was surveyed.

#### VLF-EM Results

Electromagnetic surveying, using the VLF-EM (very low frequency-electromagnetic) method was performed in order to identify and trace structural trends, especially shears or faults which might host barite veins. The surveying was performed using a Geonics EM-16 VLF-EM receiver. The Cutler, Maine (station id. NAA, transmitting at 24.0 kHz) VLF transmitter station was used as this station was the only reliable transmitter during the duration of the survey which had appropriate strength and coupling with the anticipated structural trends. Additional instrument and survey parameters are available in Appendix F.

Magnetometer results are shown on Figures 3 and 4, located in Appendix B. Interpretation of structural trends has been performed by analysis of In-phase and Quadrature conductor axes, as 'cross-overs'. Survey data were also Fraser Filtered in order to assist in the interpretation (Figure 3). The survey results were affected by a major hydroelectric transmission line, which traverses the survey grid from north to south. Several linear conductor axes, which likely represent structural breaks or trends such as shears or faults, are present over the survey grid, as shown on Figures 3 and 4, and complied on Figure 2. These anomaly axes are generally weak to moderate in strength, relatively short being 200 - 300m in length, and are roughly parallel to the survey baseline and the general trend of the nearby barite veins, Vein A and Vein B, being  $\sim 050^{\circ}$  Azimuth. In particular, a strong conductor axis from 6+00E 1+60N to 8+00E 1+90N which corresponds to a topographic low and linear creek is interpreted to represent fault or shear which may potentially host barite veining. The anomaly is of a similar orientation and spacing of that between Vein A and Vein B and thus may represent the position of a repeated structure. This

anomaly was recommended for evaluation by drilling and was later drilled with ddh 00-NW-01 experiencing negative results.

#### Magnetometer Results

Magnetometer surveying was performed in order to assist in geological interpretation, particularly in areas of thick overburden cover, where outcrop is sparse to absent. The surveying was performed using a GEM GSM-19 magnetometer and base station readings were also acquired in order to correct for diurnal fluctuations in the earth's magnetic field. A total of 10.8km of grid lines were surveyed upon lines spaced 100m apart with stations spaced 12.5m apart. Further instrument information and operational parameters are available in Appendix F.

Survey results are presented on Figure 5, located in Appendix A. In general, the magnetic results show two main trends; magnetic lows tend to be underlain by quartzite and other metasedimentary rocks; magnetic highs tend to be underlain with the diorite and diabase. A broad mag low is present in the southeast portion of the survey grid, which was later found to correlate with scattered quartzite outcrops. A broad mag high is present in the northcentral portion of the survey grid, which was found to correlate with a diabase ridge. Structural trends evident from VLF survey results are also reflected in the magnetic trends.

#### 6.5 Diamond Drilling

Diamond drilling was performed on the property in between July and August of 2000. The drilling was contracted to Norex Drilling Ltd. of Timmins, Ontario. Five drill holes were drilled with a total depth of 774m. Two drill holes were drilled to test the extension of Vein A, which is currently being mined at Extender Minerals. Two drill holes were drilled to test the extension of Vein B, which is located subparallel and ~300m west of vein A on Extender Minerals' property and 1 drill hole was drill to test a low area to the southeast and trending parallel Vein A and Vein B.

Overall, geology of the drilled core consisted of a competent, magnetic, mafic intrusive for the first 30-75m followed by a blocky pink to orangy brown arkose and by a more competent, thinly interbeded argillite/mudstone/chert/arkose at the base of the hole. The incompetence of the arkosic unit caused drilling problems in two of the drill holes. Reduction of core size, from NQ to BQ, was necessary in drill hole 00-NW-02 and 00-NW-03, as the broken nature of the core caused the drill rods to jam and created water loss problem.

The drill core is neatly stacked on three palettes at the side of the road, which leads to the area of trenching on vein A, see Figure 2 for location. All drill logs and cross sections are in Appendix C.

#### DDH 00-NW-01;

*Target:* low area (swamp; between 1+40N and 2+10N on line 7+00E, 8+00E and 9+00E on geology map) trending parallel Vein A and B.

Summary: A total of 250.5m was drilled which projects to 179m on surface. No barite was intersected in the drill hole. The geology is summarized as follows;

0m to 17m; sandy overburden

17m to 73.3m; mafic intrusive with faults defined by the presence of clay and a silvery grey serpentine mineral

73.3m to 185.5m; brownish-red arkose interebeded with minor chert, local various gouges/faults. This unit is blocky, with local intervals of very blocky core.

185.5m to 250.5m; thinly bedded sandstone, arkose, argillites and mudstones. Unit has a banded appearance.

#### DDH 00-NW-02;

Target: test extension of Vein A near trenched area where the vein was partly exposed

Summary: A total of 152.0m was drilled which projects to 116.4m on surface. 7 light pink to pink barite veinlets were intersected between 35.4m and 40.3m all of which were in a blocky, brownish-red, arkose. The thickness of the veinlets varies from 1cm to 8cm thick. Minor barite breccia occurs between 41.3m and 43.5m, with ~5% interstitial barite. The geology is summarized as follows;

0m to 3m; sandy overburden

3m to 28.8m; mafic intrusive

28.8m to 43.5m; brownish-red arkose with various thin pink barite veins and minor barite breccia

43.5m to 89.8m; brownish-red arkose interbeded with a light pink quartzite

89.8m to 152.0m; thinly bedded sandstone, arkose, argillites and mudstones. Unit has a banded appearance.

#### DDH 00-NW-03;

Target: test extension of Vein B

*Summary*: A total of 152.0m was drilled which projects to 114.1m on surface. No barite was intersected in the drill hole. The geology is summarized as follows;

0m to 5m; sandy overburden

5m to 67.5m; mafic intrusive with faults defined by the presence of clay and a silvery grey serpentine mineral

67.5m to 107.2m; brownish-red arkose interbeded with a light pink quartzite

107.2m to 152.0m; thinly bedded sandstone, arkose, argillites and mudstones. Unit has a banded appearance.

#### DDH 00-NW-04;

Target: test extension of Vein B further to the southwest

*Summary:* A total of 110m was drilled which projects to 80.8m on surface. No barite was intersected in the drill hole. The geology is summarized as follows;

0m to 2.3m; sandy overburden

2.3m to 75.6m; mafic intrusive with faults defined by the presence of clay and a silvery grey serpentine mineral

75.6m to 110m; brownish-red arkose interbeded with a light pink quartzite and minor mudstone and chert

#### 00-NW-05;

Target: test extension of Vein A 100m southwest of drill hole 00-NW-02

*Summary:* A total of 110m was drilled which projects to 82.4m on surface. No barite was intersected in the drill hole. The geology is summarized as follows;

0m to 5.5m; sandy overburden

5.5m to 75.8m; brownish-red arkose interbeded with a light pink quartzite and minor mudstone and chert. Various intervals are very block to crumbly (fragments less than a few cm)

75.8m to 110m; thinly bedded sandstone, arkose, argillites, mudstones and chert. Unit has a banded appearance.

#### 7.0 CONCLUSIONS AND RECOMMENDATIONS

A control grid has been established along the projected strike extension of Vein A.

Geological mapping and geophysical surveys assisted in providing a better understanding of the geology and structure of the property, but geological mapping is hindered by lack of outcrop.

Trenching confirmed on the adjacent property, currently being mined, the continuity of the Vein A near surface for a strike length of 170m from the vein outcrop.

A total of 5 drill holes were drilled on the property. Diamond drilling failed to show extension of Vein A or B at depth greater than 30m. Still remaining untested is the extension of the Vein A and B to the northeast onto claim 1234964. Further exploration activities should focus on locating any possible northeastern extension of Vein A and B.

Respectfully, HIGHWOOD RESOURCES LTD.

Ann Larocque

Project Geologist

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December 08, 2000

#### 8.0 REFERENCES:

#### Carter M.W., 1987;

Geology of the Shining Tree Area, District of Sudbury and Timiskaming, Ontario. Geological Survey, Mines and Minerals Division, Report 240.

Long D.G.F. and Colvine A.C., 1984;

Geology and Placer Related Gold Potential of the Huronian Supergroup in Part of the Northwest Cobalt Plain. Miscellaneous Paper 126, p 242-246.

#### STATEMENT OF QUILIFICATIONS

I, Ann Larocque, do hereby certify:

1. That I an employed by Highwood Resources Ltd with office at Suite 715, 734-7<sup>th</sup> Ave SW, Calgary, AB, T2P 3P8.

2. That I graduated from the University of Ottawa with a Bachelor of Science with Honors in Geology in 1993.

3. That I have practiced my profession as a geologist from 1993 to present.

4. That the geological information contained in this report is based on my personal observations on the property with the exception of the geophysical work, which was performed by Georgex Exploration of Timmins, Ontario.

5. That I hold no interest in the property.

Dated in Calgary, Alberta this day of December 8, 2000

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Ann Larocque

### APPENDIX A

North Willams Township; Figure 1: Claim Map, scale to fit, Figure 2: Geological Mapping and Diamond Drilling, 1:2500 scale

#### APPENDIX B

Figure 3: Fraser Filtered VLF-EM Survey, 1:2500 scale, Figure 4: Posted and Profiled VLF-EM survey, 1:2500 scale, Figure 5:Posted and Contoured Total Field Magnetometer Survey, 1:2500 scale,

#### APPENDIX C

Drill Logs and Cross Section (Figure 7 thru11) for Diamond Drill Holes; 00-NW-01 to 00-NW-05; 1:250 scale

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#### DIAMOND DRILL LOG

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Property	North Williams
Hole No.	00 NW 01
Grid	
Claim	······
Comment	s

Northing	1+000	EoH	250.5m	Start Date	July 25/00	,
Easting	7,000	Az/plunge	320/45	End Date	July 28/8	)
Elevation		Horiz. Length		Drilled by	Norex	
Section		Core Size	<u> </u>	Logged by	AL	

Page 2 of 6

ANALYTICAL RESULTS SAMPLE RECORD INTE RVAL feet / metres ROCK NAME DESCRIPTION From To Sample No. From To Width (ft/m) S.G. BaSO4 % ARKOSIL SANDSTONE 733m 78.8m -f.q., silicous, local bedding place observed, light pink to Brongy pick colour Sugary +x, light orange colouri, massive ghite 73.6-73.85 40 Panaic? 77.2-77.8 f.g. massive matic mul upper contact & 45 toch Lower contact & 40 to CA 77.2-77.3 Unit contains rounded annualus? Immg are rounded filled with Calate light yellowish. light green (Cele+coidste) -With minor epidote - calate stringers @ 10-45°+0 (A) 75.5 hedding @ 65° to C.A. Lower contact is shanp @ .30° to C.A. 79.8m 86.7m MARic Volcanic F.g., massive med. dk. grav-green coloun, magnetic with % drygdules filled with mitate by Limm-0, Som & (white) Some are filled with fined graved magnetite (only observed in 2 varian; near caldre stringers) Unit centrum ~ 1-2% Stringun; calukt chidate Llow thill 0. 35-603 to CA 99.7m ARKOSic SANDSIDNE ( with minor calcile stringes through out ) 86.7m AS 73.3-70% 867-37. On junit contains - 10% rounded 0.2-0.5cm of limonite 1 87.8-30.0m; orange cobur, sugary tx bed with discontinung/ irregular band of a dk branish minut? 98.0 - 40.0; Some as 36.7-87.8 but blebs are a de tramise colory? + core is very blocky! 91.3m cherty (red colon) bud @ 50° to CA. I tourd in monan anount through ont unit

#### DIAMOND DRILL LOG

Property	North Williams
Hole No.	DONWOI
Grid	
Claim	
Commenta	 B

Northing	EoH	Start Date
Easting	Az/plunge	End Date
Elevation	Horiz. Length	Drilled by
Section	Core Size	Logged by

Page 3 of 6 ANALYTICAL RESULTS INTE RVAL SAMPLE RECORD DESCRIPTION ROCK NAME From To Sample No. From To Width (ft/m) S.G. BaSO4 % "Chesty Sediments 99.7m 100.1m unit is very fine grained clark red colour with irregulary discontinuous bands of olive green chart 100.1m 111.60 ARKO34 Orangy red colour fine amina (granulu to silkers) with minor (2-3%) chart (other great or real bods. 100.6- 100.9 = Otz vin white a cheve clast a so to C.A. 100m; laminations @ 55 to C.A. ( 20.25%) (20-25%) 104.7m - 113.8 interboded redish mange. ankar + a prosmish grunnate minor chart seds + locally med grange brange sandtone bods. (37) \* core is very blacky baken up into tragments 120cm Jone) mionsfullting is against within bids. local bods (mostly the chanty beds) show a bx +x. 107.1 hedding to 63° to C.A. (defined by a. Sendstone ned) and pits are lacely filled with "limonise"? @111.2 fam @ 45° to CA 111.6m 121.7m Same as avenious but preccipted Arkose 112.6'-113.2' Tock is blocky but not as blocky as previous and nextnerval 118.6m-129.6m - very blocky core 123.0-123.1m- broken up clay rich zone - Fault zone? Edientation 148.1m Red ACKOSIC SEDIMENTS 24.70 -F.g. Neakly laminated, with mode cheety clasts/bods (3-5) -With ~1-2% calcite -qtz stringers rondomly prichted 0 - 1 C

DIAMOND DRILL LOG

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Property	North Williams
Hole No.	DONNOL
Grid	
Claim	
Comment	<u></u>

Northing	ЕоН	Start Date
Easting	Az/plunge	End Date
Elevation	Horiz. Length	Drilled by
Section	Core Size	Logged by

Page 4 of 6 INTE RVAL feet / metres ANALYTICAL RESULTS SAMPLE RECORD DESCRIPTION ROCK NAME From ٦o Sample No. From Ta Width (ft/m) S.G. BaSO4 % 131.1-131.14: Fault Zone? rak is be then there to clay in between fragments @ 40000 c.4 133.6m graded bedding - tops focing up hole . 143m 134m ! core is tariy brokenup. 136.4 - 136.6m = interval is very porous. Some of the rawinis are up to 4 cm longer 1 21 cm cavilles were previously filled to a Harr cherty? material . round to elongated clast (seds) are locally noted 137.6 = bedding @ ~ 70° to C.A 142m - beddin @ ~70 to CA cletined by a counter 2cm then Limmite du sed 145.6-Core is very Horky increasing amount of Chily. Clock/beda + monder gruiner beds to a limonthe a Herbition 1473m- bother @, 60-65 to CA. 147.4 m- km Thick gour @ ~ x0° to CA Convist of red claw 147.7 m-148.2 Core is voy blocky 148. (m 154.3m) Well banded Brownish-rea + light-med areas chent Withinty to Arrow Stements banding / bedding is on average ~ 1-3 cm thick @ 60° to CA 154.3m 155.7m preccieted cheat (green) + Arrkove ( brownish red fragment are up to 3cm long and anapular 155.7m 80.7m Same as 148.1m- 154.5m banded Bonsnishired + aren chut YAKOR willins <u>(5 th C</u>A bandinal is ര lew beds w manded chart or askage hapments up to 2.5cm ing elongated privately bolding

159.2m bidding @ 60° to C.A

DIAMOND	DRILL	LOG
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Property	North Williams	Northing	EoH	Start Date
Hole No.	DONNOI	Easting	Az/plunge	End Date
Grid		Elevation	Horiz. Length	Drilled by
Claim		Section	Core Size	Logged by
Comment	S			

Page® of 6

INTE	RVAL		SAMPLE RECORD				ANALYTICAL RESULTS			
From	/(metres)	ROCK NAME DESCRIPTION	Sample No.	From		NASAIN (BIRN)				
	1 10		Sample No.	FIUM	10		0.0.	Da304 76		
	1	local coarse grain beds altered to Isranite? Orange colour						<u> </u>	<del> </del> -	
1 Phil 1		Spotted black.								
- · · · · · · · · · · · · · · · · · · ·	<u> </u>	(a) 162.5m beddy (a) 60°to C.A.								
		a 172 and hulding As' to CA								
	+					<del>   </del>				
		@ 179.0m hedding@ 65° to CA								
180.7m	1855m	Arkosic Sandstone								
	·					┥────┤		·		
		1 1017-106 dim ; privious cer ankose grading into a conson granular				<b>├────</b>		<b>┼────</b> ──		
						<u> </u>		<u>├ · </u>		
		med drained Sugary ty Light grangy-brown colours				1				
		, , , , , , , , , , , , , , , , , , , ,								
· · · · · · · · · · · · · · · · · · ·		183,3 -1842m abundand elongated suborgular darker								
		red asisose clast generative brighted of ~ 70° to C.A						<b>↓</b>		
1 <u>t</u>						<del>   </del>		<u>}</u>		
185.5	187 8.	well knowed llam mater a Kose + charty actors & beds:		· · · ·		<u>                                      </u>				
		pownik- Epd + light area to med arren about Seds								
		barding is on average a, 0.5 to 6cm thick + Q								
		GS' to CA.				ļ		<b>_</b>		
	·	upper and lower contacts are gradational.			·					
						<u>} </u> }				
187.Xm	201.9m	Wall I aminoted Licht haven I Licht around				+ +	·····			
		Quantatie - Ministone								
		meato line analyce laminitions are generally C. O. Scon this	ck							
		+ @ 75 to L.A.			i					
		<u> </u>				<u> </u>		<b> </b>		
2010.	1202	at a minite of the cat				<del> </del>		┟╼╍╍╍┥╼╌╼╼╸		
401.TM	LCUKIOM			· · · · · · · · · · · · · · · · · · ·		<u> </u>		<u> </u>		
	1									
202.0m	250.5m	Well aminated light brown-bise + light green							-	
		guartite to arkanc sedments								
		mato for grania lan die 20,5 cm mar + @ 70 to	<u> </u>	m-		┟────┤		<b> </b>		
	- <del> </del>	2012 10 - 203 June latake is land and in colorie . But and a	make			┥───┤		┝━━───┤─━━━━		
	+	+ the light brown		·		<u></u>		├┈──┤───		
	1									
		203.2-203.6 - soft sect tel showing destrat movement.								
		tra								

DIAMOND DRILL LOG

Property	North Williams
Hole No.	CONINIOI
Grid	•
Claim	
Commenta	5

Northing	ЕоН	250,5m Start Date	July 25/00
Easting	Az/plunge	End Date	July 28/00
Elevation	Horiz. Length	Drilled by	3-
Section	Core Size	Logged by	

Page 6 of 6 ANALYTICAL RESULTS INTE RVAL SAMPLE RECORD feet / metres ROCK NAME DESCRIPTION From Τo Sample No. From To Width (ft/m) S.G. BaSO4 % @ 204.1m graded bedding showing tops towards top of 212.4- 242.70: interval is made up of light grown + med grown bards/laminetions 1 - **8**. 214m - micro faulting @ 55° to C.A. 215m - laminations @ 60° to C.A. 217.0 - 216.5m: interval contains -85-50% green Dands/lamination. Mony of the bonds one pulled apact -> Discontinuous. 22 Om - aninations @ 50 to CA 234.1m- building @ 50° to C.A. Stratigraphic tops towards the 2345n-microfaulting @ 35 to CA. 238.2m - anded bedding + flute structures: tops is up hole bolding is @ 155° to C.A. 249m · bedding is @ 50 to C.A 250.5~ EOH w.

İ

North Williams Oonwoz

Property North Williams	Northing	3t50N	EoH	152.0m Start Date July 28,2000
Hole No. OONWOZ	Easting	5+00E	Az/plunge	320/45° End Date Julia 30, 2000
Grid	Elevation		Horiz. Length	Drilled by NOTEX
Claim	Section		Core Size	NO/BO_Logged by A.L.
Comments A Vein new trench				Page 1 of 4

DIAMOND DRILL LOG ACID TEST @62m Dip = 40° @252m Dip = 37°

INTE	RVAL		SAMPLE RECORD				ANALYTICAL RESULTS				
feet	(metres)	ROCK NAME DESCRIPTION	Comple Ne 1 From 1 To has			h		10 20.00			
From			Sample No.	From	To	Width (fVm)	<u>5.G.</u>	BaSO4 %		<b></b>	
	1-Sm									,	
	100									<u> </u>	
	12,00		<del> </del>								
	+	- manun granda, massive, weary to moderately in lagoene	┨────┤					i			
	<u> </u>	- meaning great-green rolary	┝╼╍╍──╂				······································				
	╉╼╴────	- mac quartz and epidole stances				<b></b>					
	<u> </u>	- TO AMERICS (MOSTU IMONIBULG) ~75 + DITALL TRADE (DIAG - LIGH			<u> </u>	<u> </u>		· · ·		·	
	<u> </u>	( plansh (onus) 256 OR / 225 magnetik Tripin desst	<u>{</u> }			<b> </b>		<u> </u>		┨	
` <b></b>	{							· · ·	- <u></u>	<u> </u>	
15 2.	- 28.0	TIADAVE	<u> </u>								
10.50		TO MASSING MODE COUL OPPORT THE STAND OF		-			<u> </u>				
s		- Fig. mastre that you was and			<u> </u>						
{ <b>.</b>		The pounds of the state of the state	<u> </u>			<u> </u>					
\$ <b></b>	╂─────	- SINAS GUESS WINT SINCE	<u> </u>			······		<u> </u>			
<b>}</b> [	<u> </u>	18 contail Strongers ( Baily colore + Baidate ) ( I ano the ru			·····	· · · -	<u>.</u>				
•		A 10-60 to CA									
· [						<u> </u>					
22.2	35 m	havnish-ned as Kosic sediments	<u> </u>	- <u></u>	······			<b>∱───</b> ┤			
		for animal with money had of so address 1 light	1			····		<del>}</del>			
t/	1	an along 2000 thick a 30.35th CA	<u> </u>				· · · ·				
[]	1		1	·		·		i i			
	<u>                                      </u>	33.3m - 2cm thirt low heath to @ SO' to CA	1								
▐╽╴┲		33 25 - 24 BT : Rive thick C.A. Over Leastle ve @ 600 to C.A 400	Contait								
	<u> </u>	(1203) $(1203)$ $($	a Contract								
		3535m- colorellar Vn 1.5cm thing 60° to Ca.		······································							
		50% 50%									
	1	35.06: for thick baticlar up one @ to to CA									
	1	35.97 4 cm thick berie un ank @ 70' to C.A									
35.m	38.0m	Diabase									
		F.g. massive med aren- green, moderately magnetic									
		5 2% calcie = epidote Stimages (various prientetions)	1								
38.0m	413m	Brownish-rea Arkosic sediments interleded to light									
		orun sandstone (10%) 4-20 m thick 1 100 m thick	<i>t5</i>								
	L										
	L	Derthing is @ - 45-53 to C.A.	ļ								
	L										
	<b></b>	(a) 34,6m core starts to get fairly blocky						<b> </b>			
L	<u> </u>										
L	<u> </u>	1040. In thick bank in onk @ 50 to C.A.	Lł						I		

DIAMOND DRILL LOG

Property		Northing	EoH	Start Date
Hole No.	DONNO2	Easting	Az/plunge	End Date
Grid	t,	Elevation	Horiz. Length	Drilled by
Claim		Section	Core Size	Logged by
Comment	5			

		Continents							Page 2 /	44
INTE feet /	RVAL metres	ROCK NAME DESCRIPTION		SAMPLE F	ECORD			ANALYTIC	AL RESU	
From	To		Sample No.	From	To	Width (ft/m)	S.G.	BaSO4 %	· · · ·	Τ
41.300	435m	Breccia in Arkosic sedments.				1		1		1
		discontinuous by ~ 80% by restare ankonic to sandstone								1
	<b>_</b>	beds	· · ·			1		1	······	1
1		contain~ 5% banile miner at + calcite.						1		1
1. T								1		1
		10 41.1m Core, acts venu blocky								<u> </u>
435m	52.8m	Bowhish-red Ackasic SEDMENTS To minor Sandstone beds.								
		horr is poor	ous in							
		43.5m-43.9n- core is in small bits nest is very blocky these bods (	15 mgs							
		up to 2cm @	<u>D</u>	_						
		@44.3m bedding is @ 60 to C.A								
									L	
	L			I		<u> </u>	· · · · ·	<b>_</b>	L	
		45.8m- 4Bilm rock is slightly precisited to 13 banite as motive						Į	L	┢────
	L								<u> </u>	<u></u>
		17.9m - PIOK bonde Vn ~ km thick orientation?					<u></u>		<u> </u>	
	<b></b>			· · · · · · · · · · · · · · · · · · ·	<del></del> .				<b></b>	<u> </u>
		48.3m - 49.1m - rock is Droken into very small fragments						┨╼╼╼═──┤	ļ	╉━━━━━
	<b></b>									╉─────
	·	DA - CHANKE COST SITE TO RO								╋────
		JUM UTHINGE CORE DIZE TO DY	····				·			┢┈┈──
			· · · · · · · · · · · · · · · · · · ·		<u> </u>					╆────
		522m - 2m thick shilter of mussive unler a (" - 30 to C.H.		·		<u> </u>		<u> </u>		<u> </u>
		52.7m- 52.8m- 100 mm trick stronges of the clange @ 100,000 angle 10 cone_				<u> </u>			····-	┢━━━━━
80.4	60.2	Saudehaa				<u>}</u>		<u> </u>		┢━━━━━
	100.4m	Chul David Links An Unalized Action? - hads				╉━━━━╋	· · · · · · · · · · · · · · · · · · ·	┼━━──┤		╆╼━━━━
		I TIME TO THE ALL ALL AN THINK THE KUS C DONS						┟━━───┤		┢────
		- V V WIN MINE LOTAR SMORA + 5405 416								<u>+</u>
									·	<u> </u>
		BEAM HOLE LIGHT PION FRANK VA PANTA TO CA	· · · · ·						,	<u> </u>
		D.SUMITING INTE POWE POWE IN COMPANY IN COM								<u> </u>
		FRE- (0,2m + holes (140 southed ust black oronton pround.						1	·	<u> </u>
		an accions 2 (Inter Manie 27)					<u> </u>	┟━━━─┤		
						ff		{}		[
										}
602m	62.200	INTERSECT ALKOREL (HEAT ( light and )			-	<u> </u>		<u>├</u> {		<u>├</u>
Mariel, i	ULLET!	(hominiciand)				<u>   </u>		<u>                                     </u>		[
						1		<u>├</u> -		
		F.A. looks booked W bads ~ 0.5(m-10cm thick @ - 50" to C.A				11		┟───┤		<b>┌────</b> ┤
						<u>   </u>		<b> </b> -∤		[]
		With minor sandspar Interprets.						╡─────┤		[]
								╏───┥		<b></b>
		· · · · · · · · · · · · · · · · · · ·						1		

DIAMOND DRILL LOG

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Property	Northing	EoH	Start Date
Hole No. 00 NW 02	Easting	Az/plunge	End Date
Grid	Elevation	Horiz. Length	Drilled by
Comments			Page <u>3_</u> of <u>4</u>

INTE RVAL feet / metres From To		SAMPLE RECORD				ANALYTICAL RESULTS				
From	To		Sample No.	From	To	Width (ft/m)	S.G.	BaSO4 %		
62.2m	68.4m	Arkose (bownish-red) introded to cherty sedments +						<u> </u>		<u> </u>
		-unit books were borded					•			
		material previously observed is altered to Limonite						<u> </u>		
		- budding is thin 1-10cm thick @ ~60° to. GA.								
		@62 Jm micro fault with synistral modement of 2cm @35 to CA.						<u> </u>		<u> </u>
		core is very broken up			······					
68.4 r	169.8m	LIGHT PINK QUARTITE BECCIATED Corcis not as proven up as presents intrack but stin blocky								
		- Chyr supprted breccia Fragmints an angular to Subanyube + 4p to 3cm 1905								
69.8m	73.8n	LIGHT PINK QUARTZITE (Core is fairly solid) To minor local successful zones To provide the form	a lot							
		1698-171.0m contains ~10% of black spickles maturial 2 matin the new porous as small cavities from a the black maturiet (2 than a few mm of Cavities)	3							
73,8m	89.5 m	Brownish-red. Arekore to minor green chert bedo/choth + minor quartite bids/greywerke 137.7 + limonite stama bed	<b>2%)</b> ((1%))				· · · · · · · · · · · · · · · · · · ·		· · · · · ·	
	· · · · · · · · · · · · · · · · · · ·	@70.5m bedding @ 45° to CiA.					· · · · · · · · · · · · · · · · · · ·			
		78.3m - Core is boxen interen small fragment	······							
		80.0m - 20m bed to limmik staining leading @ 40° to CA.								
		844-84.5m - bed to abundant Chert and mudshine clasts, Cla and tomade to subminded + up to 3cm long	dt				· · · · · · · · · · · · · · · · · · ·			
	····					<u> </u>				

ROCK NAME

DIAMOND DRILL LOG

INTE RVAL feet / metres

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		Property Hole No. Grid Claim Comment	<u>CONW02</u>	-	Northing Easting Elevation Section		EoH Az/plunge Horiz. Length Core Size	·····	Start Date End Date Drilled by Logged by	Page 4 of	4
	DESCRIPTION	. cer )	,		SAMPLE F	RECORD	·····		ANALYTIC	AL RESUL	TS
sr)	(bmrith)	(Green minor	(1993)	Sample No.	From	To	Width (ft/m)	S.G.	BaSO4 %		
STE	VE / ARKONE/	CHEKTY SED MENTS/	SANDSTONE/(	breywacken (	Med gram.)						
-						-					

From	10	(brain) (brained) (Green in (193)	Sample No.	From	10	Width (tVm)	<u> </u>	BaSO4 %		
184.8m	152.0n	TNTERBEDED MINDSTONE / ARKOGE CHEKTY SED MENTS/ SANDSTONE /	breywacken (	Med arm. )						
		miner bids altered to lumonite (4196)		5-70						
		Chart+ mudstens bado are often broken up + precided OR Conditioned	KC							
		- ON ave beds are 0.5cm to 10cm thick								
		92 pm hedding @ 55° to CA		· · · · ·		1			<u>-</u>	
						·		<u> </u>	·····	
		- anen Chenty hed Offen Contain Califier Made Hen ine Filled in F			•	· · · · · · · · · · · · · · · · · · ·	·			
		Lat martin					·····			
				l · · · -						
		100m bedding is \$ 35' to CA straking to 05 is watered		I						
		Ling is G as were supported by the state	· · · · · · · · · · · · ·	·		/ ··· - ···		{		
		1039m hedding @ 45° to cA	· · ·	<b></b>			· <b>—</b>			
					, <u> </u>			i		
		107m boldom @ 115° to C.A.						·····		
	· · · · · ·									
J		122 3 cm thick source - Mud losts & some ande	j			<u> </u>				<u> </u>
f		as hall in a last of the						├── <u></u> ── <del> </del>		
		115 pm - bodding @ 40° th CA.						I		- <u> </u>
				·						
		11970 hedding @ 40' to CA			<u> </u>					
}i							·			
		125 5 - Duge brickted Cheat clast in a main South					· · · · ·		· · · -	
		clotter stimmed + up to for long	<u> </u>							
		Las av subrinna tup to realing								
		108 the a load trace of 55° to CA								
					<u> </u>			<u> </u>		
		130 Cm - buddim @ 10 th CA				·		<u>}</u>	· · · · · ·	
<b> </b>										
·	· · ···	1312 m = 2 Save the ch up @ 60° th CA								
<b>├</b> ──── <b>┤</b>		LUIGIN AND INUS ATE VILLE BULLE CITY								
		123 Que hadding @ 45' to cA		<u> </u>						<u></u>
		130 A Card is Sold						<u> </u>		
<b>⊢</b> −−−− <b>∤</b>		124 you core 12 some						├		
<b>├</b> ────┤	<u> </u>	TO ADDID A DESALLY (			·	···				
<b> +</b>		W CONTRE LA DETAILS C			· · · · ·			<b>├───</b>		
<b> </b>		1/13 2 hulling of the the Co	<u> </u>	├────┤	·			<b>├──</b> ─		
<b>}</b>		HILL AND DO THE MAIL THE ALACH DO GOT HOLD				┝╍────┤		<b>├──</b> ─┤		•
}		100 and Micharter Cremmine That shall be a source in the						┝━╼━━┤		
<b>├</b>	<u> </u>	TTOM - Rading & US TO UN		[·		· · ·		<u>├────</u>	<u> </u>	
					····	├		<b>_</b>		····-
	4.6		·							
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i		·····	·				<u>-</u>			
<b>├</b>										
				í		<b>I</b>				

HIGHWOOD RESOURCES LTD. DIAMOND DRILL LOG ACID TEST at 95m = 41.5° at 138m = 36.0°	Property <u>NORTL Willia</u> Hole No. <u>OONWO3</u> Grid Claim Comments <b>BVEIN</b>	ms - -	Northing Easting Elevation Section	5+30N 3+00E	EoH Az/plunge Horiz. Lengt Core Size O-13 (5)-3	152m 140°/45° h Ng/80 1.3m= 10 52m = 89	Start Date End Date Drilled by Logged by	July 30, 20 Au § 3, 20 NOREX AL Page 1 of	00 000 3
INTE RVAL feet metres ROCK NAME DESCRIPTION		ļ	SAMPLE	RECORD	Į		ANALYTIC	AL RESUL	TS
From to	•	Sample No.	From	To	Width (ft/m)	<u>S.G.</u>	BaSO4 %		
* <u>Om * Dm CASING</u>	• · · · · · · · · · · · · · · · · · · ·	<u> </u>		┨─────					
15m 145.7m Dipete	······································								
- medium grania, messivo, mer	2 green-gray	<u></u>	1	}					
- Uniting to the magnetic - (5% of , ~1002 light green colour feld (f	249)~35% matics (most)	zmph)				<u></u>			
16.2m; kn wide gauge @~ 50° to C.P	r Capuer consist q		:	1					
a situation of the state of the	-, 0	· · ·		┨────	<u> </u>				
29.5-45.7m Core is starting to get slightly	block to lew hairst	ine	1	1				· · · · ·	
hacking parallel de at very the top	e angle often filled with	<u> </u>							
a vigit grey-geon clay material	······································			╂────					
1 34.5m - epidote/serpentice nich 2cm Thick	hachine @ 30° to	CA.		1					
$\frac{1}{1000} = \frac{1}{1000} = 1$	Class Hist back	0.		<u> </u>	<b>├</b> ───				
13 to co	cium inica matrino								
45.2m- 1cm thick fractione filled 5 epidote/s	erpentine + 3% py block + c	unt(red)fr	dyments (g	20°CA					
15m 675 Dishase			<b>F</b>	h	1				
Fire amined looks same composition	n as previous unit								
but F.g. (10 ample clots upto 48.8m	)			ļ		· · · ·			
iti usacius magnetic, massive	<u> </u>	· · ·		<del> </del>			·		
minoe (LI%) epidote nch stringle local	ly	·							
569 - COD - With Amoby Clark	0								
$\sum (a_1 a_2 a_3) = \sum (a_1 a_3$				f					
59.2m-61.5m-With small calcie blebs th	honghout - looks li	<u>(a</u>							
anygdules filled with whi	k covie			<b></b>					
67. Sm 70.0 m INTERSEDED ARKINE/GREYMANCE/SANDSTONE//MI	WSINE)								
-core is farly blocky with local Crumbly interest	\$		1						
- where contact is shorp to C.A.				<b> </b>					———
- Sandstone bodo are generally Light price in	colour + very granular	r							
with rugs up to scm long, 2 cm wide particly filled	hin with calote /dolomit	(sadle sh	ad xtd	<u>۵</u>					
	·····	<u> </u>	<del> </del>	}					— <u> </u>
71.00- bedding @ 35° to C.A.									
	N		<u> </u>						]
70.00 TO.M Silvities quantzite Light orange to Lydy on L	a list any truladate	dam hale	tonia (+	<b> </b> -	├				
Care is hold	v upe kins strange he			t <u></u>					

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DIAMOND DRILL LOG

Property		
Hole No.	DONW03	
Grid		
Claim		
Comment	5	

Northing	EoH	Start Date
Easting	Az/plunge	End Date
Elevation	Horiz. Length	Drilled by
Section	Core Size	Logged by

Page Z of 3

INTE RVAL ANALYTICAL RESULTS SAMPLE RECORD feet / metres ROCK NAME DESCRIPTION From To Sample No. From Ť٥ Width (ft/m) S.G. BaSO4 % 80.9m- budding @ 40° to CA 85.0m-large vug coated with calcite xitols (whis large than cort aize ) > wit 15 granular between 844m-55. Im; 'as above interval 87.6m - badding @ 30° to C.A 910m- 91.4m - Dark bown Arkosic mudstone, granular & park calcie clasts /bedding@50" to cA 91.4m- 92.1m- green multistore bed grading into a green warken downhole 1072m Arkose to Arkonic Soundstone. 93.Jm previous unit graduelly grades toto this interval after 92.1m -Orange-brown colon., locally granular, brally 11 postly silicities 1 4 - (ore is farly competant / as previous unit) 1 4 97.0m - bedding @ 45° to (A 100.4m - 101.6m - Stock work of practices cheating discoloration T; h coce 17 102 4m- badding @ 50' to CA. 31 2 5 10+1m- beddine @ 45° to LA. 106m-107.2m- Storwork of harting + The more sandy bedo an Congiomeratic 1 152.0m INTERBEDED ARKOE / SANDSTONE / MUDSTONE/ Grown checky bade 107.2m locally well laminited 108.2m Jammetions @ 50° to C.A. 108.4m microfault To 4cm displacement\_ synister @ 35° to CA 1 concines 109.5m-112.2m- W STOCK WOFK of Calcie verilets (mm scale) -Sinistelymonement on Lew Inacture ( displacement of 62cm 2 white some doesn't no snow 110.3-1124m Soreis Very blocky \* 112.7m - Mon thick callite/2058/due banite (tr) 00 a small directioned venter

+ 112.4m- EOH : Core is extremely blocky

DIAMOND DRILL LOG

Property _		Northing	EoH	Start Date
Hole No.	00 NW 03	Easting	Az/plunge	End Date
Grid		Elevation	Horiz. Length	Drilled by
Claim		Section	Core Size	Logged by
Comments				

Page 3 of 3 ANALYTICAL RESULTS INTE RVAL SAMPLE RECORD feet / metres ROCK NAME DESCRIPTION From To Samole No. From To Width (ft/m) S.G. |BaSO4 %| 1164m - bedding @ 40° to CA 119 6m- bedding Q 60° to (A. -lacol rangementic intervols (metrix supported) 125.4m . bedding @ 50° to c.A. 129.3m - bidding @ 45° to (A. 127.3 5- 4cm of Very ground up rock to band-red clay. May be full but may also be divery non-extent and . \* 131.3m CHANGED TO B9 40RE - NO NATE TO BIT ROCK TO ROBOUS! 135.2m. bodding @ 37 to (A. 140.00 - bedding @ 45° to CA. 148.00 - bedding @ 35' to CA 15 152.7 m grownd up me chay + mex fragments - gouge? angle? EOH 152 Jan

Property NORTH WILLIAMS Hole No. OOWW04 Grid Claim Comments B VEIN

Northing 5+30N	EoH	110m	Start Date Aug 2, 2000
Easting 2100E	Az/plunge	140/45	End Date Au \$ 3,2000
Elevation 2	Horiz, Length		Drilled by NOREX
Section	Core Size	NQ	Logged by A

DIAMOND DRILL LOG ACID TEST AT 62m = 42° AT 110M= 41.5°

			DACIN						Page 1 o	f 2	
INTE RVAL				SAMPLE		ANALYTICAL RESULTS					
feet /	metres)	ROCK NAME DESCRIPTION									
From	To	1	Sample	No. From	To	Width (ft/m)	S.G.	BaSO4 %		T	
0	2.3	CASING								1	
_											
2.3	68.9m	Diorite								1	
	-	- medium arained, massive maler cotty maan	etic					1		1	
		- medium aren-arren colan								1	
		~ "The (light Mreen colom), ~ " Matics (mostly a)	nh):-25% 9tz								
		1-2% magnetite	. ,,				<u> </u>				
]		minor calcite vanlets				<u> </u>					
								Į		1	
		10.1m + 18.8m : 0.7 cm thick white colorites	tranger @ GJ PCA			<u> </u>					
						-l		ļ		<u> </u>	
		230-24 bm-> fractive roughly parellel (core a)	is condulating					<u>}</u>		<b></b>	
		- 23.8m-29.6m core is ordinated up TAULT	GOUGE			╶┨──────┤		····		<u> </u>	
						<b>↓</b>				—	
		27. Im- 27.9m - C. Sto Icm wide Callie Venlet 1	orginly percellet to			++					
	-	<u> </u>						4		<u> </u>	
		NOT 11 125 - la 15 Roichte los Astronom									
		42,4-42,5m- fruit epicole/securitie ric	~ w maynent of			- <b>├</b>				╂	
		rea makosic rock of 55 TOCH				╅━━━┼╸				┥───	
···-		12011 - A Sem think coloris shares & ssite a				+					
	· · · · ·	1 OF MEN - O. DON' TIME CALLARE STUDIED IN BUILDE IN				+		<u> </u>		+	
						+				<u> </u>	
am	75.hm	Diabase OR Schill Zong	······			• <del> </del> }·					
<del>- <u>10</u>  </del>		Same or as priviles laterial but fin analy	md	_		++					
		Thouse what is to come magazine		_		+		1			
		- 4 convert to a cacle timet over 2000		_	1	+				<u> </u>	
			···· · · · · · · · · · · · · · · · · ·			1		1			
	· · · · ·	73.7-24 m- rove is blocky.								1	
										† —	
		-Lower contact is shand to 60° to C.A.						1		1	
										1	
6m	85. m	TINTER BEDED ARKOSE (bownish-Red) / Quartich	2 (generaly nove lichtery)								
		Mudstme (bram)/minor areen chect	1 5 7 5 7 57								
		7 0									
(		- vuos are common in the quarte nich units making	the one blocky								
			0								
		75.1- 79.4m - with abundant was and very soft seds	Making rouse crumply								
		1 La some of the seals	On song the sand - alment Lik a white	JOST CLAY					· · ·	ļ	
	4	78.4m- bedding at 45-50° to C.A./								L	
						Į		<u> </u>		<u> </u>	
		81.7n-83.1m - same as				↓		Ļ.,			
]		81.7- 041 - Grundly Core /blocky			1	↓		ļļ		ļ	
		1050m - brading 045 to C.A.				┦─────┤-				<u> </u>	
1		t _/	1								

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DIAMOND DRILL LOG

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Property	NORTH WILLIAMS
Hole No.	CONW04
Grid	
Claim	
Commenta	3

Northing	<u>5+<b>30</b>N</u>	EoH	_110m	Start Date Aug 2/200
Easting	2+00E	Az/plunge	140/45	End Date ALA 3 /200
Elevation	<u>,</u>	Horiz. Length		Drilled by NOKEL
Section		Core Size	Ng	Logged by A.L

Page Z of Z ANALYTICAL RESULTS INTE RVAL SAMPLE RECORD feet / metres ROCK NAME DESCRIPTION From To Sample No. From To Width (ft/m) S.G. BaSO4 % Quarticle party silicfied with minor arros & intervals -Light Drange in colour 05. In 1052 85 m-93.0m Unit contain a Staxwork of hairline fractures 95.5m - bedding @ 38" to C.A. 960- minsfault penallel wee Axis To synistel moment of 6cm 97.0- 98.2m dark gras gray backe bed to minor calcule stringer a 982m bedding @ 60" to C.A. 102.7m- micro fault to synistal movement of ~ 2 cm. 103.7m- 105.2m- Conglomeratic Unit askosic clast in a sand matter clast are <0.5cm or 103.7m - bedding @ 55° to CA. Interbedged bournish red Arkosic rock to minor green cheet bods (mist an "pulled aprit" beds) 110.0m 105.2 109.4m bedding @ 400 to C.A. 10.0m EOH

DIAMOND DRILL LOG

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<u>y</u> 1

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AUDTEST @ 56m = 40.5"

Property <u>NOCTH WILLIAMS</u> Northing <u>2</u> Hole No. <u>00NW05</u> Easting <u>2</u> Grid <u>Elevation</u> <u>Section</u> <u>-</u> Comments <u>AVEIN</u> 2<sup>nd</sup> Hole

Vorthing	3+50N	EoH	_110m_	Start Date	Aug 3/2000
Easting	4+00E	Az/plunge	140/45	End Date	
Elevation	?	Horiz. Length		Drilled by	NOKEX
Section		Core Size	NQ	Logged by	AL.
			,		

Page | of 2

ANALYTICAL RESULTS SAMPLE RECORD INTE RVAL feet / netres ROCK NAME DESCRIPTION From To Sample No. From Width (ft/m) S.G. BaSO4 % То CASING 0 5.5m Arkoe (boundshred) into lauged with a light ponk grantite tr Chart bods + mudstone bods 5.5 36.6m 64m- bedding @ 60° to CA 92.7m- 10.7m- Diercia With quarteriah ankosic sed + metic dure, Fragment de Subangular + up to 4cm P local yings - generally lined to coldite , + local calite Starbars 13.6m. bedding (wally 20, 45 to C.A. Joral to Py Limonite 1+7m - bedding (G) 35 to C.A. Sole & fairly blocky up to 19.1m \$19.10-34.60-000 is numbed up 1 most is coarser grained more sondy unit-Light pink quantiste . 22.4m : bedding @ ~ 60° to (.A. 23.0m - @ 40m thick clay (50ft) bed 34.0m - bedding @ 55 to C.A. 34.6m-38.0m-core is blocky but not rrumbled up 41.6m 36.6 m Light Dink quantite to Aerosic quantite W Stakwork of this calate veinlets looks slightly breccieted Oranny- DINK ACKOSIC- quartite to ackose. To minor cheat beds (appen) 75.8m 41.6m 08 44.4 - 45.4m - COR is Vay blocky tracture tilled with clay runs - privallel CA OVE This in Bard / I light Green chart beds. 46 4m- bedding @ 35" to C.A. 48.7-50.7m - cone is extranely blocky Jt.2m. Deddieg @ 40 to CA locally in black minual (Manganine Oride?) often along lartinations 67.0m bedding @ 35 to CAU

DIAMOND DRILL LOG

Property NORTH WILLIAMS Northing EoH Hole No. OD NW05 Easting Az/plunge Horiz, Length Grid Elevation Claim Core Size Section Comments

Start Date End Date Drilled by Logged by

Page ≥ of 2 ANALYTICAL RESULTS SAMPLE RECORD INTE RVAL ROCK NAME DESCRIPTION feet / metres From To Sample No. From Тο Width (ft/m) S.G. BaSO4 % 65.0-66.6m - very blacky to crumbly care 67.6n - microfaulting @ ~ 90° to c.A 6A.9m - bedding@ 30° to C.A. 712-72 2m preceived to conglomentic clast/ Fragments are Subrounded 72.2-722 Core is very blocky to locally crumbly 75.2 - 75.8m- brecci etc. or constances ? Arkore/ quantile/chart in abundant lange rugs coated with a black shiny monad (Mn oxide?) + & glassy orange minut ( dimmite ?) 76.1m- bedding @ 40-45. to C.A. INTERBEDED ARLOSEIMUDSTONE/QUARTLITE/ Green Chart 10.0m 75.9m whit looks bonded beds are soon to I kin thick 77.3m at 50 to C.A. local conglomenatic beds. 81. lem- bedding @ 35 to C.A. 15.3m- bidding @ 45° to CA: Strangraphic tops to up hole (Ripud cloot 92.2 m= bedding @ 35 to C.A. Stratigraphic tops is dam hole ( jute Cast) 1 96.3m- bedding @ 35° to CA. 101.0m. bedding @ 35 to c.A 104.8m hedding @ 40' to CA. 1 109.7 bolding @ 40' to C.A FOR 110m

#### APPENDIX D

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Sample Descriptions and Assay Results

Series	Proterio	Prov	Type	Date	Sample typ	e Rock type	Colour	Description	% ref	I SGI	Note Dec
33153	North Williams	ON	HWD Project	6/14/200 east claims 0	grab	metasediment	med grey	- fine grained, poss metasediment ?	N/A	N/A	IPL; ICP, WR
33152	North Williams	ON	HWD Project	6/14/200 TR NW-00-2 0	grab- bidrs	barite	It grey to white, It pink	- grab from 4 boulders in trench, minor black-filled vugs, no sulphides	93.6	4.44	iPL; ICP ICP fine
33151	North Williams	ON	HWD Project	6/14/200 TR NW-00-2 0'	grab	barite	lt pink	- at footwall contact of vein with host rock, small black-filled vugs, tr sulphides	57.8	3.64	iPL; ICP ICP fine, Cu = 118ppm
33150	North Williams	ON	HWD Project	6/14/200 TR NW-00-2 0	approx channel	barite	It grey to white	- sugary texture, no sulphides, <sup>-</sup> 4ft tw	90.0	4.45	iPL; ICP ICP fine



### CERTIFICA ግድ OF ANALYSIS iPL b0G0680

2036 Columbia Treet Vancouver, B.c Canada V5Y 3E1 Phone (604) 879-7878

INTERNATIONAL PLASMA LABORATORY LTD.																				Fa	X (	604) 8	j79-78	98								
Client : Highwood Resources Ltd. 8 Samples Project: 104 6=Sand 2=Rock										Out: Jul 07. 2000 [068014:01:33:00070700] In : Jul 04. 2000							 	Page 1 of Section 1 of			of 1 of 1											
Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppn	Sb ppm	Hg ppm	Mo ppm	T1 ppm	Bi ppm	Cd ppm	Co ppn	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti X	A1 *	Ca X	Fe X	Mg X	K X	Na X	P X	
33150	X	<	11	3	1		<	<	<	<		0.2	<	1	578		6	<	16	2	1009	<	<	<	0.01	0.23	0.03	0.01	0.01	0.01	1	
33151	Å	<	118	2	3		<	<	2	<	<u> </u>	0.8	2	5	786	28	137	5	475	10	798	8	2	<	0.11	0.18	0.42	0.11	0.06	0.02	0.01	
33152	A	<	6	<	<	- 2012	<	<	<	<	् २	0.5	1	<	933	<ul> <li></li> </ul>	4	<	8	2	727	<	<	<	0.01	0.08	0.02	0.05	<	0.01		
33153	R	<	87	11	39		<	<	6	<		2.9	19	44	1254	5	191	58	299	12	316	25	6	0.06	1.84	1.29	2.92	2.38	0.21	0.09	0.05	
33154	R		8-		<del>3</del>	- 1997 (1998) 	<del>- ~</del>		- 10 -	-	000000 2000	<del>-0.7</del>	2-		2304	~	-439-	2	- 39		<del>- 68</del> -	2			0.03	0.03	0.47	<del>0.02</del>	<del>-0.01</del>	0.01	<u> : : : : : : : : : : : : : : : : : : :</u>	
22155	¥.					100,000					<u></u>				-486	38 <b>9</b>	- 36-	<u> </u>	-56	<del></del>	-				0.04	<u></u>	<del>-0.16</del>	<del>8.33</del> -	0.01	0.01		
33156	8			1Ă		- 300,000			<u> </u>							- X - X - X - X - X - X - X - X - X - X	21		. 72		SED.				0.05		10 16	1.77	0.01	-0-02	<u>- 2020</u>	
39167	9				ă	10000			<u>,</u>				<u> </u>		02	- X-4-	<u> </u>		<u> </u>		- 607	- î		0-01		<u></u>	-0 17	<u> </u>	<u> </u>	.0.02		
19979L	~				6				- <b>- - -</b>	_	10 Call					A	~~~			<b>v</b>	- UV			0.0T	v. uv				U T	V 4 V J		



### CERTIFICATE OF ANALYSIS iPL 00G0681

2036 Columbiar Treet Vancouver, B.L Canada V5Y 3E1 Phone (604) 879-7878 Eax (604) 879-7878

Client : Highwood R Project: 104	esources Ltd.		5 San 5=Pi	nples						[068117	:02:55:00	071200]	Out: In :	Jul 12, 2000 Jul 04, 2000	(604) 879-7898 Page Section	1 of 1 of	1 1
Sample Name	Туре	A1203	Ba0 X	CaO X	Fe203 *	К20 <b>Х</b>	Mg0 X	NnO X	Na20 X	P205 *	S102	Ti02 <b>X</b>	LOI X	Total X			
33153	Pulp	12.87	0.77	2.05	4.78	2.84	6.85	0.04	3.99	0.21	59.12	0.42	5.14	99.08			
33155			0.55	-0.08 -52:06	0.70		- 0.09 - 0.95		0.25	0.05	-1.80	0.01	43:26	<del>- 90.78</del> - <del>99.94</del>			
<del>33156 33157</del>	Pulp	1,22	0.05	<u>51.91</u> 50.01	<del>0.31</del> 0.40-	<del>0.04</del>	0.89 0.65	<del>0.01</del> 0.01	<del>0.25</del>	<del>0.05</del> 	2.99 	<u>0.01</u> 0.02	<u>42.29</u> 40.44	<u>99.93</u> 99.95			

Minimum Detection Maximum Detection

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### APPENDIX E

Geophysical Instruments Used; Geonics EM-16 and GEM GSM-19

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#### MAGNETOMETER THEORY

A GEM GSM-19 Proton Precession magnetometer was used to carry out the magnetometer survey. The instrument is synchronised with an GEM GSM-19 recording base station to help eliminate magnetic diurnal variation. This should ensure an accuracy of less than 10 Nt.

The Proton Precession method involves energising a wire coil immersed in a hydrocarbon fluid. This causes the protons in the proton rich fluid to spin or precess simulating spinning magnetic dipoles. When the current is removed the protons precess about the direction of the earth's magnetic field, generating a signal in the same coil which is proportional to the total magnetic field intensity. In this way, the horizontal gradient of the earth's magnetic field can be measured and plotted in plan form with values of equal intensity joined to form a contour map.

This presentation is useful in correlating with other data sets to aid in structural interpretation. Individual magnetic

Responses can be interpreted for dip, depth and width estimates after profiling the data.

The following parameters were employed for the survey:

Instrument - GEM GSM-19 Proton Precession Magnetometer Station Interval - 12.5m Line Interval - 100m Diurnal Correction Method - GEM GSM-19 Recording Base Station Data Presentation - Magnetic Contours Map

- 1:5000 scale

- Contour interval = 20 nano-teslas

#### VLF - EM Survey

A Geonics EM-16 VLF EM instrument was used to survey the entire property. Both the In-phase (dip angle) and Quadrature values were recorded at 12.5m intervals.

While VLF stands for Very Low Frequency, it is for mineral exploration purposes a very high frequency compared to other commonly used Electromagnetic Surveys. The commonly used frequencies are in the order of 18-20 kilohertz. The VLF-EM technique employs fixed transmitter stations located at various places around the world to facilitate navigation. Because of this, one has a limited choice as to what transmitter station that can be used, depending on distance from and azimuth to the transmitter station.

For this survey, Cuttler, Maine (NAA) was used. It has an operating frequency of 24.0 kHz and an azimuth of approximately of 110 degrees TN from the property. Very briefly, the transmitting station emits a concentric, circular wave pattern, expanding about the transmitter dipole. Being thousands of miles away from the transmitter, we deal with the tangent of this wave pattern, which in this case would have a direction normal to the azimuth of 110 degrees. Thus any conductors having a general EW strike direction would be intersected by this signal which induces a signal in the conductor which in turn opposes the primary signal from the transmitter station. This elliptically polarizes the resultant field enabling detection of the conductor using a receiver coil to determine the attitude of the resultant field at various points along the grid lines.

The resultant field dips away from the conductor axis on both sides of the conductor producing a crossover on the conductor axis. For an EW conductor, a true crossover would occur where the field dips south and changes to a north dip as you progress from south to north. For this survey, a +/- system is used where a (+) dip angle means the field is dipping to the south (indicating anomaly is to north) and a (-) dip angle means the field is dipping to the north (indicating anomaly is to

South). This is the case only if all readings were taken facing north as per this survey.

The quadrature values, while not useful alone, can help distinguish between bedrock conductors, which generally have a smaller out-of-phase response than overburden or short wavelength conductors can. Also, the polarity of the quadrature is diagnostic, i.e.; if the polarity follows or is the same sense as the In-phase it gives more credibility to the conductor. Reverse quadrature often indicates overburden responses.

The following parameters were employed for the survey:

Instrument - Geonics EM-16 VLF EM Transmitter Station - Cuttler Maine (USA) - Call symbol NAA Frequency - 24.0 kHz Azimuth to station - approx. 130 degrees TN Reading Direction - All reading taken facing north Station Interval - 12.5m Line Interval - 100m Data Presentation - Plan, profiled map - Plan, Fraser Filtered map - Scale - 1:5000

- Profile scale 1 cm = 10%

## VLF (PLANE WAVE) EM INSTRUMENTS-



### EMI6

One of the most popular and widely used electromagnetic instrument, the EM16 VLF receiver makes the ideal recommissance EM. This can be attributed to its field reliability, operational simplicity, compactness and mutual compatibility with other reconnaissance instruments such as portable magnetometers and radiumetric detec-

The VLF method of EM surveying, pioneered by Geonics, has proven table a simple accommical means of mapping geological structure and fault tracing. The applications are many and varied, ranging from direct detection of massive subhide conductors to the indirect detection of precious metals and radioactive deposits,

#### FEATURES

- The EM16 is the only VLF instrument that measures the quad-phase as well as the in-phase secondary field. This has the advantage of providing a additional piece of data for a more comprehensive interpretation and also allows a more accurate determination of the tilt angle.
- The secondary fields are measured as a ratio to the primary field making the measurement independent of absolute field strength.
- The EM16 is the only VLF receiver that can be adapted to measure VLF resistivity,

### **Specifications**

MEASURED QUANTITY	In-phase and quad-phase components of vestcal mag- netic field as a percentage of horizontal pimary field. (i.e. tangent of the tilt angle and effectivity
SENSITIVITY	in-phase : ±150% Duad-phase : ± 40%
RESOLUTION	±1%
OUTPUT	Nating by audie tone, in-phase indication intermechan- ical inclinometer and guad-obare form a producted dist
DPERATING FREQUENCY	15-25 kHz VLF Radio Band. Station selection down by means of playin units.
OPERATOR CONTROLS	On/Off switch, battery losi push button, states selector switch, audio volume control, quadrature del, inclino- meter.
POWER SUPPLY	6 disposable "AA" calls
QIMENSIONS WEIGHT	42 x 14 x 9 cm Instrument: 1.8 kg Shipping : 5.5 kg



### EM16/16R

The EM16R is a simple, button on attachment to the EM16 converting it to a direct reading terrain resistivity meter. The EM18R Interfaces a pair of potentiel electrodes to the EM 16 mubling the measurement of the ratio of, and the phase angle between, the horizontal electric and magnetic fields of the plane wave propagated by distant VLF radia transmitters.

The EM16R is direct reading in ohm-meters of apparent ground resistivity. If the phase angle is 45°, the resistivity reading is the true value and the carth is uniform to the depth of exploration (i.e. a skin depth). Any departure from 45° of phase indicates a layered earth. Two layer interpretation curves are supplied with each instrument to permit an interpretation based on a two layer earth model.

This highly portable resistivity meter makes an ideal tool for quick geological mapping and has been used successfully for a variety of applications,

- Detection of massive and disseminated sulphide deposits
- Overburden conductivity and michaess measurements
- Permairost mapping

 Detection and delineation of industrial mineral deposits · Aquiler mapping

## Specifications EMIGR ATTACHMENT

MEASURED QUANTITY	• Apparent Resistivity of the ground is ohm-meters     • Phase angle between E., and H., in decrees
RESISTIVITY RANGES	• 10 - 300 onn-meters • 100 - 3000 ohm-meters • 1000 - 30000 ohm-meters
PHASE RANGE	0-90 degrees
RESOLUTION	•Resistivity : ±2% foil scale •Phase :±0.5*
OUTPUT	Null by nucle late. Resistivity and phase angle read from graduated dials.
OPERATING FREQUENCY	15-25 kHz VLF Radio Band, Station selection by means of retary switch.
INTERPROBE SPACING	10 meters
PROSE INPUT IMPEDANCE DIMENSIONS	100 MΩ. In parallel with 0.5 picolarads 18 x 11.5 x 10 cm. (attached in side of EM18)
WEIGHT	1.5 kg (lockeling probes and cable)

#### PAGE 05

### GEM GSM-19

### INSTRUMENT SPECIFICATIONS

### MAGNETOMETER / GRADIOMETER

· .

0.2 nT over operating range.
20,000 to 120,000 nT.
Over 10,000 nT/m
3 seconds minimum, faster optional. Readings initiated from keyboard, external trigger, or carriage return via RS-232-C.
6 pin weatherproof connector, RS-232C, and (optional) analog output.
12 V, 200 mA peak (during polarization), 30 mA standby. 300mA peak in gradiometer mode.
Internal 12 V, 2.6 Ah sealed lead-acid battery standard, others op- tional. An External 12V power source can also be used.
Input: 110 VAC, 60 Hz. Optional 110/220 VAC, 50/60 Hz. Output: dual level charging.
Temperature: -40 °C to +60 °C. Battery Voltage: 10.0 V minimum to 15V maximum. Humidity: up to 90% relative, non condensing.
-50°C to +65°C
LCD: 240 x 64 pixels, or 8 x 30 characters. Built in heater for opera- tion below -20°C
<b>Console: 223 x 69 x 240mm.</b>
Sensor staff: 4 x 450mm sections.
Sensor: 170 x 71mm dia.
Weight: Console 2.1kg, Staff 0.9kg, Sensors 1.1kg each.

### VLF

Frequency Range:	15 - 30.0 kHz.
Parameters Measured:	Vertical In-phase and Out-of-phase components as percentage of total
•	2 components of horizontal field.
	Absolute amplitude of total field.
Resolution:	0.1%.
Number of Stations:	Up to 3 at a time.
Storage:	Automatic with: time, coordinates, magnetic field/gradient, slope, EM
	field, frequency, in- and out-of-phase vertical, and both horizontal
	components for each selected station.
Terrain Slope Range:	0° - 90° (entered manually).
Sensor Dimensions:	14 x 15 x 9 cm, (5.5 x 6 x 3 inches).
Sensor Weight:	1.0 kg (2.2 lh).

#### APPENDIX F

Statement of Expenditures

#### HIGHWOOD RESOURCES LTD. North Willimas Property - Exploration cost For the perior ending 11/31/2000

### Account Description

407502EX N WILLIAMS	ACCOMM/CAMP COST	963.00 🏴
407507EX N WILLIMAS	DIAMOND DRILLING	40,012.17 🛀
407509EX N WILLIMAS	PLOTTING, PRINTING	456.69 🛩
407512EX N WILLIAMS	FRT, SHIPPING	196.05
407513EX N WILLIMAS	FILED OP SUPPLIES	911.52 🗸
407514EX N WILLIMAS	GEOL SUPERVISION	11,100.00
407517EX N WILLIMAS	LINECUTTING/GEOPHYSICAL	5,672.07 🖌
407519EX N WILLIMAS	MEALS	436.91 🖌
407522EX N WILLIMAS	OFFICE	2,200.00 🖌
407528EX N WILLIMAS	TRANSPORT	1,469.99
407529EX N WILLIMAS	TRENCHING, STRIPPING	2,430.18 🗕

Exploration N Williams Total:

\$ 65,848.58

YTD



Tel: (705) 235-2222 Fax: (705) 235-2806



		366
	NO:	
		8/8/00
	DATE:	
		1 of 2
	PAGE:	
Highwood Resources Ltd.		
Att: Ann Larocque		

Re: North Williams Township Ontario

July 25-Aug 3/00

Highwood Resources Ltd. 734 7th Ave, SW Suite 715 Calgary, Alberta T2P 3P8

SOLD TO:

Business No.: 10390 4504

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST;	UNIT PRICE	AMOUNT
			HOLE #NW-01 Casing 17m				
	15	m		3		45.95	689.25
	2	m		3		54.15	108.30
	133	m	17 to 150	3		45.95	6,111.35
1	100	m	150 to 250	3		47.60	4,760.00
•	3	each	Tests	3		50 <i>.</i> 00	150.00
			Pull casing out - NO CHARGE				
1							
•	150	~	HOLE #NW-02, Casing 5m	3		45.95	6 892 50
	150	m		3		43.90	95.20
	2	each	Tests	3		50.00	100.00
1	-	Cuon	Pull casing out - NO CHARGE				
			Lost complete core barrell in hole cave in				
			3m Rod, Bit & Reaming Shell				
1			\$1,500.00 x 50%	3		750.00	750.00
			HOLE #NW-03, Casing 5m			15.05	0.000.50
1	150	m		3		45.95	6,892.50
	2	m	Tasta	3		47.60	95.20
		each		3		262.50	262.50
>			1444 9F BIL \$525. X 50 %	1		202.00	202.00
			HOLE #NW-04, Casing 3m				- -
	110	m		3		45.95	5,054.50
	2	each	Tests	3		50.00	100.00
			HOLE #NW-05, Casing 6m		i I	45.05	5 054 50
I	110	m		3		45.95	5,054,50
	2	each		3		50.00	100.00
	15	aaab	Pull casing out - NO CHARGE	12		5 25	78 75
1	15			ľ		0.20	
Thank You	u 1						Continued
			HUPLILAIE			TOTAL	
,							

SHIP TO:



Tel: (705) 235-2222 Fax: (705) 235-2806



366 NO:

8/8/00 date:

2 of 2

PAGE:

Highwood Resources Ltd. 734 7th Ave, SW Suite 715 Calgary, Alberta T2P 3P8

SOLD TO:

Business No.: 10390 4504

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	GST	PST	UNIT PRICE	AMOUNT
•			3 - GST @ 7.0%				2,617.62
I			Terms: Net 15. Due 8/23/00.				
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COMMENTS: Thank	 /ou !		J	- 1	1		40,012.17
			DUPLICATE			TOTAL	

SHIP TO:

Highwood Resources Ltd.

July 25-Aug 3/00

Re: North Williams Township Ontario

Att: Ann Larocque

· · · · · · · · · · · · · · · · · · ·					DATE	►		
GOGAMA FOREST PRODUCTS LTD. HEAD OFFICE: 2500 ELM ST., BOX 700, COPPER CLIFF., ON POM 1N0 PHONE (705) 682-1555 FAX (705) 682-2739		D. M 1N0		NUME	BER 🕨			
Highwood Suite 71 734 7th Calgary,	Resource 5 Ave South Alberta	es Inc nwest T2P 3P8		SHIP TO:	Slow	Inv No Inv Da	te J	J000469 un 29/00
LESPERSON		ACCOUNT NUMBER		Job Numbe	EXEMPT NO.	13010	TAX	EXEMPT NO. 2
	TEDMO	Gius	DATE	Ourseesa/B	iue sa	1021314	ሬ ንወሞስ	FA(7) 1
Attn: He	ather Mij	ree		· · · · · · · · · · · · · · · · · · ·		1021314	051616	-9-0 T
Descript	ion	· · ·						Amoun
Prospect Franspor Permit : 345 B Ex Fotal In	ing Work tation : \$150.00 cavator: voice	in North Willi \$1081.20 6.5hrs @ 160.0 DECET JUL 19 407-529	ams Twp: 0 = 1040.0 7. W E 2000					2,271.2
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						1000	===	

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Timmin	is, Ontario N 2Pa			No st	atemarkis'issu	∋d,
Tel. (705) 257-4576	Fax (705) 287-2545		<i>i</i> .			
					RÅ1	
	MD DESCHICES I WITTEN			:	NAT.	
TO	AD RESOUCES DIMITED	:		•	:	
Suite	715, 734/ 7th Avenue	e s.W.				
Calgar	y Alberta	TEI	1MS: Ne( 30c	lays from d	ate of billing on pre-4	proved credit.
· · · · · · · · · · · · · · · · · · ·		······································	2% inte	rest per mi	nin charged an over	ue accounts
		G.	5.5. #R111	643607		}
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		May 09/00		Ju	ne 06/00	L
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VUP-BM 10	).8 @ 85./Km	• • • • • • • • • • • • • • • • • • •		18.0	0 	
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TOTAL AMC	DUNT DUE		. <del>+</del> 2.6	72.0	7	P.A.P. 3861
		and B	∴i ∿at	; >{	Regarda,	George

### (ode: 407 - 502

PREMIER EXPLORATIONS INC. 491 Finn Road Connaught, Ontario PON 1AO Ph 705 363-2108 Fx 705 363.2410 Field Office Ph 705 263-2208

July 06, 2000

Highwood Resources Limited

SENT VIA FAX

INVOICE: 200706

House rental in ShiningTree For 3 weeks in June

\$600.00

GST (7%)

/

\$ 42.00

407-502 Ratting

#### PREMIER EXPLORATIONS INC. 491 Finn Road Connaught, Ontario PON 1AO Ph 705 363-2108 Fx 705 363.2410 Field Office Ph 705 263-2208

August 08, 2000

Highwood Resources Limited

SENT VIA FAX

INVOICE: 200808

House rental in ShiningTree	\$300.00
Re- Ann during drill program	
GST (7%)	\$ 21.00

Balance Duc

\$321.00

Thank you

407-502 RTan-

J G Salo

Premier Explorations Inc.

	Performed on Mining Lan	$  \omega_0 \rangle$	180.00155
	Mining Act, Subsection 65(2) and 66(3)	R.S.O. 1990	sment Files Research Imaging
	of subsection 65(2) and e assesment work and Northern Developmen	66(3) of the Mining Act. orrespond with the minin and Mines, 3rd Floor, 9	Under section 8 of the Mining Act, ig land holder. Questions about this 933 Ramsey Lake Road, Sudbury, OVINCIAL RECORDING
Instructions: - For work performed on - Please type or print in i 1. Recorded holder(s) (Attach a list	900 Crown Lands before recording a claim, nk. t if necessary)	Ise form 0240.	MAR 2 9 2001 9100111021 1 (2) 31 41 51 6
Name		Client Number	
Joe-Anne Salo Address 491 Finn Road, Connaught, Ontario PON 140		Telephone Number	705-363-2108
		Fax Number 7	05-363-2410
Name		Client Number	· · · · · · · · · · · · · · · · · · ·
Roy Annett	DECEN/ED		
Address General Delivery, Shining Tree, Ontario		Telephone Number	705- 263-2054
	MAR 2 3 COOL	Fax Number N	/a
2. Type of work performed: Check	GEOSCIENCE ASSESSMENT OFFICE (*) and report on only ONE of the following	g groups for this de	claration.
Geotechnical: prospecting, surver assays and work under section 18	eys, Physical: drilling stri B (regs) Physical: drilling stri trenching and assoc	ping, ated assays	Rehabilitation
Work Type	C IOC	(	Office Use
Linecutting, yearing		Commodity	
		Total \$ Value of Work Claimed	14,539
Dates Work From IC 0.5 200 Performed Day Month Year	C To 30 06 2000 Day Month Year	NTS Reference	
Global Positioning System Data (if available) Tow	nship/Area North Williams		rder hate.
Mor	G-Plan Number G - 3694	Resident Geologist District	Kland Rake
Please remember to: - obtain a work pe - provide proper r	ermit from the Ministry of Natural Resource to surface rights holders before star	es as required; ing work;	

**Declaration of Assessment Work** 

Transaction Number (office use)

- complete and attach a Statement of Costs, form 0212;

provide a map showing contiguous mining lands that are linked for assigning work;
 include two copies of your technical report.

Ontario Ministry of Northern Development and Mines

**V**)

#### Person or companies who prepared the technical report (Attach a list if necessary) 3.

Name Highwood Resources	Telephone Number
Address Suite 715, 734 7 <sup>th</sup> Ave S.W., Calgary, Alberta T2P 3P8	Fax Number 403-264-2959
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number 351

#### Certification by Recorded Holder or Agent 4

, do hereby certify that I have p	ersonal knowledge of the facts
-----------------------------------	--------------------------------

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set	forth	in
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Ι,

\_Joe-Anne Salo\_

(Print Name) this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent	Malo		Date March 27 <sup>th</sup> 2001
Agent's Address	//	Telephone Number	Fax Number

0241 (03/97)



### W0180.00135

ч. •

Other Recorded Holders

.

Highwood Resources Ltd. Suite 715, 734-7<sup>th</sup> Ave. S.W. Calgary, Alberta T2P 3P8

Phone403-261-3999Fax403-264-2959

Erich Knies Lakeview Motel and Restaurant Gowganda, Ontario P0J 1Y0



Ministry of Northern Development and Mines	Ministère du Développement du Nord et des Mines	<b>Ontario</b>
		Geoscience Assessment Office
1 100 0001		933 Ramsey Lake Road
April 26, 2001		6th Floor
		Sudbury, Ontario
JOE-ANNE G. SALO		P3E 6B5
GENERAL DELIVERY		
CONNAUGHT, Ontario		Telephone: (888) 415-9845
P0N-1A0		Fax: (877) 670-1555
		Visit our website at:
		www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm
Dear Sir or Madam:		Submission Number: 2.21009
		Status
Subject: Transaction Number(	s): W0180.00155	Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact JIM MCAULEY by e-mail at james.mcauley@ndm.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

Lucille Jerome

ORIGINAL SIGNED BY Lucille Jerome Acting Supervisor, Geoscience Assessment Office Mining Lands Section

## Work Report Assessment Results

Submission Num	iber: 2.21009				
Date Correspond	ence Sent: April 26	i, 2001	Assessor: JIM M	CAULEY	
Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date	
W0180.00155	1224513	NORTH WILLIAMS	Approval	April 25, 2001	
Section: 16 Drilling PDRILL 14 Geophysical VI 12 Geological GEO 14 Geophysical M 10 Physical PSTR	- LF OL AG				
At the discretion o at any time.	f the Ministry, the as	ssessment work performed on the min	ing lands noted in this work re	port may be subject to inspection and/or investigatio	n

<b>Correspondence to:</b>	Recorded Holder(s) and/or Agent(s):
Resident Geologist	JOE-ANNE G. SALO
Kirkland Lake, ON	CONNAUGHT, Ontario
Assessment Files Library	ROY ANNETT
Sudbury, ON	SHININGTREE, ONTARIO
	HIGHWOOD RESOURCES LTD. CALGARY, ALBERTA
	ERICH JOSEF KNIES GOWGANDA, ONTARIO



The effectiveness shows is derived from diritial data ty analysis (in the Provincial Mining Recorders' Office at the time of a dynaloging from the Mensby of Northans (corporation and Nares web and).

(Office – Folificer; Lek 97800) 415 0845 Fak 1 (077) 670 1946

200





## INDEX TO LAND DISPOSITION

PLAN	
G - 3	3.69

# NORTH WILLIAMS

M.N.R. ADMINISTRATIVE DISTRICT KIRKLAND LAKE MINING DIVISION LARDER LAKE LAND TITLES / REGISTRY DIVISION TIMISKAMING

Scale 1:20 000 Neiros - ----Contour Interval 10 Metree

## SYMBOLS

Boundary
Township, Meridian, Baseline.
Road allowance; surveyed
shoreline
Lot/Concession; surveyed.
unsurveyed
Parcel: surveyed
unsurveyed
Right-of-way; road
railway
utility
Reservation
Cliff, Pit, Pile
Contour
Interpolated
Approximate
Depression
Coritrol point (horizontal)
Flooded land
Mine head frame
Pipellne (above ground)
Railway; single track.
double track
abandoned
Road; highway, county, township
access
trail, bush
Shoreline (original)
Transmission line
Wooded area.

AREAS WITHDRAWN FROM DISPOSITION MRO - Mining Rights Only SRO - Surface Rights Only M + S - Mining and Surface Rights

( SEC. 35 W - LL - C1595/99 ONT MAY 15/99 M+S

	Salo Option Other Highwood Properties	
	Sketch of Extender Miner A and B Vein	als
	Figure 1. North Willimas Township Claim Map	0
41P06NE2013 2.2	1009 NORTH WILLIAMS	21
	THE	-

DISPOSITION OF C	ROWN LANDS	
Patent	· · · · · · · · · · · · · · · · · · ·	
Surface & Mining Rights		
Surface Rights Only		
Mining Rights Only		
Lease		
Surface & Mining Rights		
Surface Rights Only		l
Mining Rights Only		1
Licence of Occupation		1
Order-in-Council		0
Cancelled		4
Reservation	·····	C
Sand & Gravel		0
MAP SHOWS THE OXIMATE LOCATION HE BOUNDARIES OF AREA WHICH IS THE ECT OF CURRENT ATION. THE EXACT	AT THIVED SEPT. 19, 1	

ARCHIVED FEB. 22/95

CIRCULATED AUG. 19, 1992 B.R.B.







41P06NE2013 2.21009 NORTH WILLIAMS 230

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TOPO LEGEND

SHORE LINE ROAD HYDRO LINE CLAIM POST ASSUMED CLAIM POST LOCATED CLAIM LINE LOT AND CONCESSION LINE

LEGEND

INSTUMENT: GEONICS EM-16 PARAMETERS MEASURED: IN-PHASE AND QUADRATURE READING INTERVAL: 25M ALL READINGS TAKEN FACING APPROX. NORTH STATION: CUTLER MAINE NAA-24.0 KHZ. CONTOUR INTERVAL- 2 UNITS



<sub>Client:</sub> HIGH	WOOD RE	SOURCES	LIMITED
Property: NORTH WILLIAMS TOWNSHIP			
TILLE: Figure 3. FRASER FILTERED VLF-EM SURVEY CUTLER MAINE NAA 24.0Khz			
Processed: SDA	Checked: SDA	<b>•</b>	
Data: JUNE/00	Township:NORTH WILLIAMS		<u>ISTON</u>
Province: ONT	N.T.S.:		RATION
Scale: 1:2500	Drewing: V89FF		S VITAKIU





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41906	NE2013 2.21009 NORTH WILLIAMS 260
	North Williams Twp Ontario
	Figure 6. $00 - NW - 01$
	Az 320°, Dip -45° Looking NE
SCALE:	1:250
LAST UPDA	It 09, 2000         PRUJEUT #:           TED:         DRAWN BY:         DRAWING NAME:
	A.L. 00_NW_01.dwg

![](_page_61_Figure_0.jpeg)

![](_page_62_Picture_0.jpeg)

And		00-NW-03
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Qr       Crowby, Michaeles,         41966RE2013       2.21009       NORTH WILLIAMS       280         Image: Comparison of the state o	tones	<sup>3</sup> Dido te server the till at 30. Note server the till at 30. Of the t factor the till at 10. Of the t factor to at 10. Of the t factor to at 10.
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DATE: REVISED BY: PROJECT #: August 16, 2000 LAST UPDATED: DRAWN BY: DRAWING NAME:	PROJECT: TITLE: SCALE:	North Williams Twp Ontario Figure &. OO-NW-O3 Az 320°, Dip -45° Looking NE
	1 : 250	0 5 t0m

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![](_page_64_Picture_0.jpeg)

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