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PENHORWOOD

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**LA SOCIÉTÉ DE GESTION MASKOURS INC.**

**ROSEVAL SILICA PROPERTY**

**SITE No. 2 and 2A PROJECT**

**IN**

**PENHORWOOD TOWNSHIP**

**PORCUPINE MINING DIVISION**

**DISTRICT OF COCHRANE**

**ONTARIO**

**by**

**Kian A. Jensen, B.Sc., P.Geo.  
Consulting Geologist/Geophysicist**

**April 23, 2002**

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## 1.0 EXECUTIVE SUMMARY

La Société de Gestion Maskours Inc. holds a total of 48 unpatented mining claim units in the southwestern portion of Penhorwood Township, Porcupine Mining Division, District of Cochrane, Ontario. The project area is located approximately 51.5 miles (82.9 km) west of Timmins, Ontario. The project is located in NTS 42B/1 and approximately Latitude 48° 05.83'N and Longitude 82° 08.08'W.

The purpose of this report is to present the activities and results of the exploration activities from July 14, 2001 to November 14, 2001 on mining claim P-1114596. These activities involved an overburden stripping program, bulk sampling, transit surveying of all stripped areas and geological mapping. The overburden and bulk sampling was completed by Larchex Inc. from July 14 to July 31, 2001 while the remainder of the above mention work was completed by K. Jensen and K. Stockill from September 13 to November 17, 2001.

The exploration activities exposed a wide quartz vein north of Site No. 2 open pit and exposed the western end of Site No. 2 open pit. Also, a large quartz outcrop south of the western end of the open pit was exposed revealing a longer quartz vein. The exploration activities at Site 2A revealed the orientation of the high quality quartz vein.

## 2.0 INTRODUCTION

La Société de Gestion Maskours Inc. holds a total of 48 unpatented mining claim units in the southwestern portion of Penhorwood Township, Porcupine Mining Division, District of Cochrane, Ontario. The work outlined by this report covers the Site No. 2 and 2A areas which are covered by mining claim P-1114596 located in the east-central portion of the claim group.

The purpose of the program was to reveal and map the extent of high grade silica intersected in previous diamond drilling programs and to expose known quartz outcrops for evaluation.

## 2.1 LOCATION AND ACCESS

The 48 contiguous unpatented mining claim units of La Société de Gestion Maskours Inc. are located in the southwestern portion of Penhorwood Township, Porcupine Mining Division, District of Cochrane, Ontario as shown in Figure 1.

The project area is located approximately 51.5 miles (82.9 km) west of Timmins, Ontario. Access to the project area is by Highway 101 west of Timmins for 35.73 miles (57.5 km) to the all-weather gravel Kenogaming/Penhorwood Main logging roads. Travelling about 4.29 miles (6.9 km) in a southerly direction on the gravel road is the Penhorwood Road leading in a westerly to southwesterly direction for about 10.13 miles (16.3 km) to the Canadian National Railway crossing. An upgraded gravel road approximately 300 metres north of the railway crossing leads westerly to the Extender Mineral property. Approximately 1.37 miles (2.2 km) along this road is Site No. 2 open pit and an additional 0.68 miles (1.1 km) to Site No. 3 open pit.

Figure 2 illustrates the access roads in Penhorwood Township and the claim group. The project is located in NTS 42B/01 and approximately Latitude 48° 05.83'N and Longitude 82° 08.08'W.

## 2.2 TOPOGRAPHY AND VEGETATION

The low-lying areas are covered with black spruce and minor balsam and muskeg dry swamps to dense wet cedar swamps with minor black spruce and tag alders. The boundary areas around the various swamps are generally low, relatively flat sandy boulder outwash plains and reworked till with a mixture of black and white spruce, birch and minor poplar and cedar. The higher topographic areas are dominated by poplar, white spruce with minor and varying amounts of white pine, birch and black spruce.



Figure 1: Property Location Map of La Société de Gestion Maskours Inc., Roseval Silica Property, Penhorwood Township, District of Cochrane, Ontario.



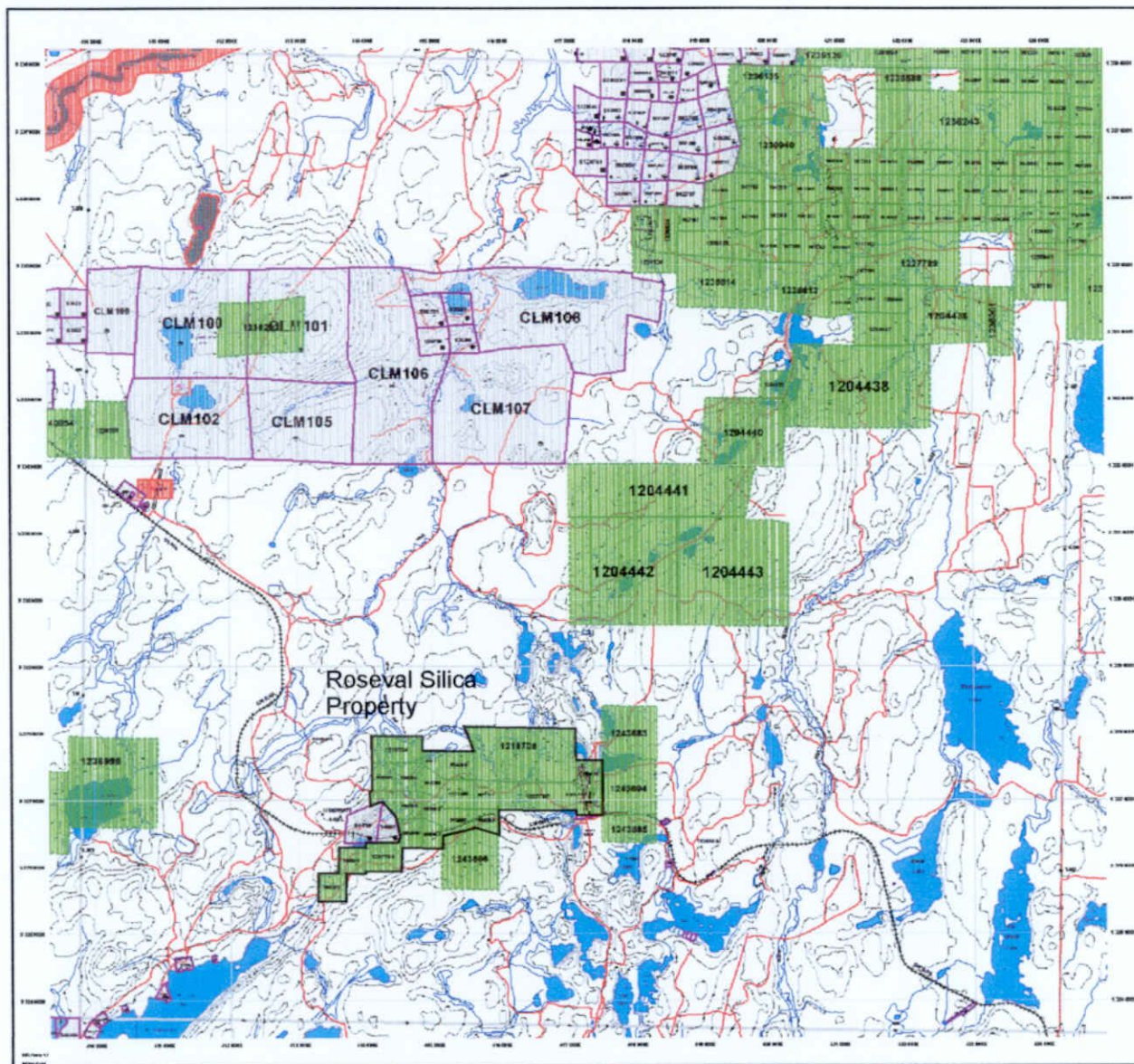
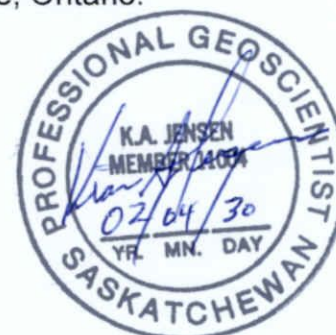


Figure 2: Road Access Map for La Société de Gestion Maskours Inc., Roseval Silica Property, Penhorwood Township, District of Cochrane, Ontario.



The lowest topographic area is located in the southwestern area which drains into Hardiman Bay. The southwest portion of the claim group where Site 1 is located, is higher in elevation than the high ridges which hosts the silica deposits of Site 2 and Site 3 which trends at N 60° E. The highest point in elevation is a steep southeast sided granite ridge located in the north-central area of the claim group.

### **2.3 PROPERTY STATUS**

The Penhorwood Township property is owned 100% by La Société de Gestion Maskours Inc. The property consists of 48 contiguous unpatented mining claim units as illustrated in Figure 3 and summarized in Table 1. The property is in good standing order and all mining claims are deemed active.

Several mining claims, P-986583 to P-986589 and P-995807 to P-995810 inclusively, are subject to the Ross-Gagnon Purchase Agreement signed July 29, 1988. These claims are subjected to a 10% return on revenue less operating cost of mining of all minerals with the exception of quartz and an area of interest of 2.5 mile radius from the perimeter for a term of 5 years which expired July 29, 1993. Mining claim P-986588 was replaced by P-1074716 and re-staked later as P-1114596 while P-986586 was allowed to lapse and was not staked as of the date of this report.

### **2.4 PREVIOUS EXPLORATION ACTIVITIES**

The two patented mining claims located in the centre of the claim group has had extensive exploration work. In 1917, barite was discovered about 1600 feet east-northeast of Horwood Lake CNR station. Small tonnages of barite were shipped in 1923, 1933, and 1940. During 1965, Horwood Mining Limited shipped quartz chip from a vein located south of the C.N.R. tracks and is known as Site 1.

The past exploration activity involving parts of the claim group were completed by B.M. Arnoit who drilled four diamond drill holes. No dates were available on the drilling.

Canadian John Mansville conducted a magnetic survey and geological mapping during 1956 on their Horwood Lake Group which is the northwestern portion of the present property.

Roseval Silica Inc. completed stripping of quartz zones in June of 1987 and September 1988, and limited geological mapping and 1,946 feet of percussion drilling completed in 1987.

During 1989, stripping and trenching was completed at Sites 2A and 3. A 1,866 foot diamond drill program was completed with 2 holes at Site 2, 3 holes at Site 2A, and 3 holes at Site 3. The author completed the geological logging of the drill holes which



Table 1: Current Active Mining Claims of La Société de Gestion Maskours Inc., Penhorwood Township, Porcupine Mining Division, District of Cochrane, Ontario.

<b>Ming Claim</b>	<b>Recording Date</b>	<b>No. of Units</b>
P 984378	1987-JUN-19	1 unit
P 984379	1987-JUN-19	1 unit
P 984380	1987-SEP-17	1 unit
P 986583*	1987-JUN-22	1 unit
P 986584*	1987-JUN-22	1 unit
P 986585*	1987-JUN-22	1 unit
P 986587*	1987-JUN-22	1 unit
P 986589*	1987-SEP-01	1 unit
P 994114	1987-SEP-17	1 unit
P 994260	1987-SEP-17	1 unit
P 994261	1987-SEP-17	1 unit
P 995807*	1987-OCT-08	1 unit
P 995808*	1987-OCT-08	1 unit
P 995809*	1987-AUG-25	1 unit
P 995810*	1987-SEP-01	1 unit
P 1114596*	1989-AUG-28	1 unit
P 1188912+	1991-NOV-05	1 unit
P 1188913+	1991-NOV-05	1 unit
P 1207767	1996-JUN-19	3 units
P 1207768	1996-JUN-19	1 unit
P 1219704	1999-MAY-05	2 units
P 1219706	1999-MAY-05	8 units
P 1166913	2001-DEC-14	1 unit
P 1166910	2001-JUL-03	2 units
P 1166911	2001-JUL-03	1 unit
P 1243910	2001-JUN-12	2 units
P 1243911	2001-JUN-12	6 units
P 1166912	2001-SEP-07	3 units

\* Denotes mining claims purchased under the Ross-Gagnon agreement dated July 29, 1988.

+ Denotes mining claims acquired within the 5 year, 2.5 miles area of interest clause of the Ross-Gagnon agreement.

Note: Mining Claim P-986588 was replaced by P-1074716 which was re-staked as P-1114596.

tested the down dip extensions of the silica deposits from October 2 to 4, 1989.

Preliminary geophysical testing was conducted by the author on October 25 and 26, 1989. During January 15 to February 6, 1990, a total of 18.0 miles (28.97 km) of line cutting was completed and surveyed with total field magnetic survey, vertical gradient survey and two VLF surveys utilizing Cutler, Maine and Annapolis, Maryland. An additional 3.42 miles (5.504 km) of line cutting was completed in April 1990, and was surveyed with total field magnetic survey and a vertical gradient survey.

Trenching of the more promising anomalies was conducted under the supervision of the author from April 6 to 12, 1990. The geological survey of the 14 mining claims of Phase I was conducted by the author from May 3 to July 26, 1990. During this period, the author also conducted detail geological mapping of Site 3 and Site 2 - 2A, an initial elevation survey of Site 3 which established 198 elevation sites, a partial elevation survey of Site 2 - 2A, and a layout of exploration percussion drilling program for the various silica sites.

During the balance of the field season, additional elevation surveying was completed at Site 3 for the different stages of production, the completion of the percussion airtrack drilling program, quantity inventory surveying of the silica stock piles across from Site 2 and at the CNR siding, preliminary mining sections of Site 3 before 1990 production and final mining sections of Site 3 after the 1990 production and a reserve of the in situ mineable silica at Site 3.

During 1990 a total of 6,715 feet (2,046.7 metres) of exploration percussion drilling was completed at several of the sites including Site No. 4, 5 and 7.

During 1991 and 1992, limited activities occurred on the property with production from the existing stock piles.

The exploration activities during 1992 were concentrated at Site No. 1. These activities involved detailed total field magnetic traverses, a computerized compilation of all known data, transit surveying of all percussion airtrack drill holes and diamond drill holes, a 1,110 foot diamond drilling program, topographic transit survey, and drill sections for a revised silica reserve calculation.

During April 1998, 5 diamond drill holes totalling 1,633.8 feet were completed on the property with 4 drill holes totalling 1,312.3 feet completed at Site No. 3. The purpose of the Site No. 3 drilling was to evaluate the potential of high quality silica beneath the current open pit.

Production resumed during 1999 and 2000 at Site No. 2 open pit with the production being shipped for smelter flux.

The following is a summary of the various resource/reserve calculations completed for the different silica areas:

Site No. 1	63,230 tonne	(Komarechka, R.G., 1989)
	277,210 tonne	(Jensen, K., 1993 revised 1994)
Site No. 2	103,144 tonne	(van Hees, E., 1990)
Site No. 2a	16,562 tonne	(van Hees, E., 1990)
Site No. 3	242,008 tonne	(Jensen, K., 1990)
	378,386 tonne	(Jensen, K., 1992)
	416,225 tonne	(Jensen, K., 1993 revised 1994)

### 3.0 GEOLOGY & MINERALOGY

#### 3.1 REGIONAL GEOLOGY

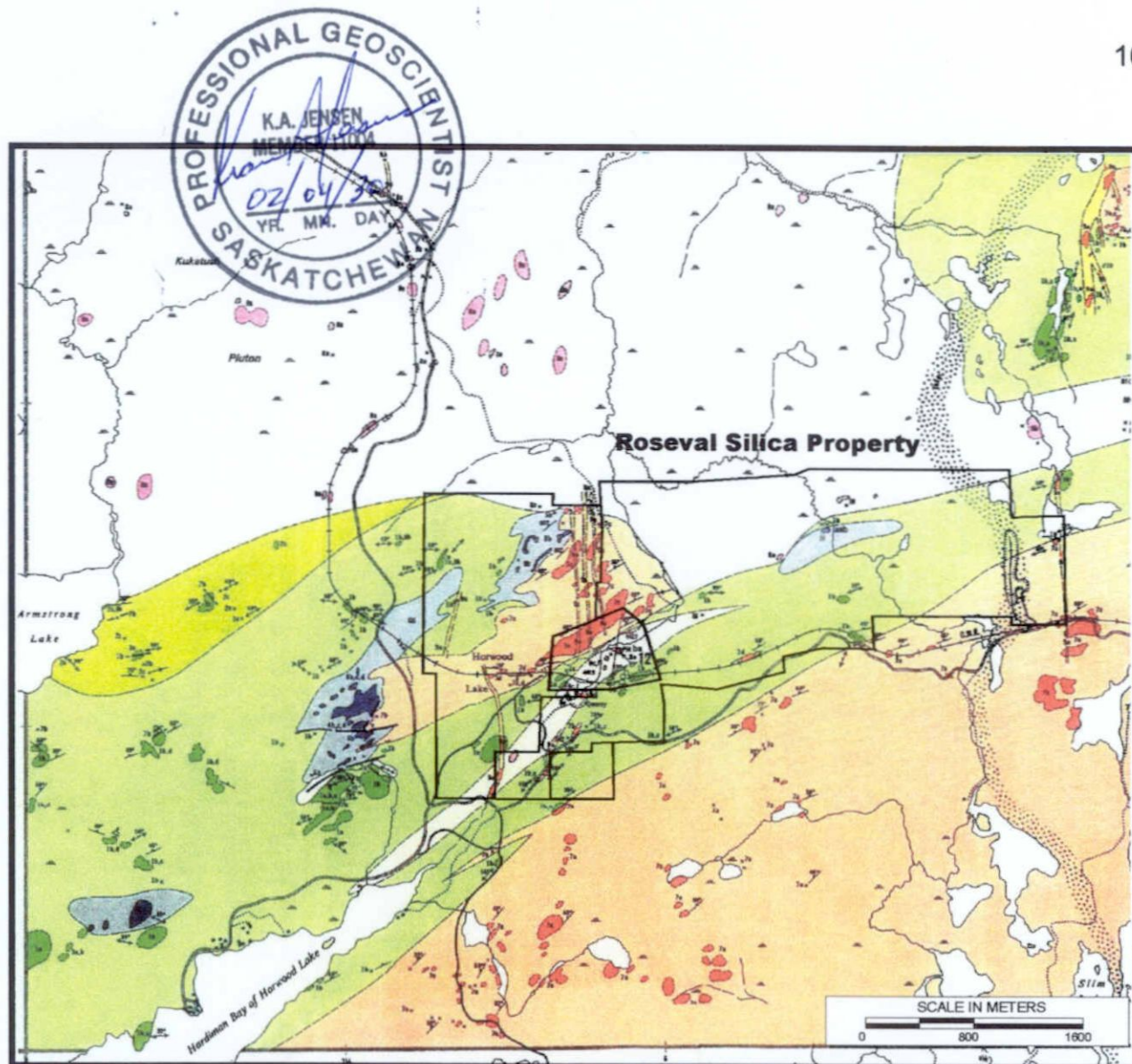
The rock units of Penhorwood Township consists of a complexly folded mass of mafic metavolcanics, pyroclastics and metasediments, cut by mafic, ultramafic and felsic intrusives. The units are intruded by granite to granodiorite intrusives. Intruding all the rock units are northerly trending diabase dikes.

The metavolcanic and metasedimentary sequence has a greenschist metamorphic facies except near the granite contacts where it is an epidote-amphibolite facies. Carbonitization is common in the shear zones and at the contacts between the mafic and ultramafic intrusives.

Figure 4 illustrates the generalized geology of the Penhorwood Property. Based upon the published preliminary geological map of Penhorwood Township (Milne, V.G., 1972, Map 2230) the claim group is underlain by a 2,500 to 3,000 foot wide mafic metavolcanics trending approximately North 60 degrees East. The southeastern and 10 northwestern flanks of the metavolcanics have exposures of biotite granodiorite gneiss and quartz porphyry to a granodiorite gneiss respectively. The extreme northwestern portion of the claim group is underlain by mafic metavolcanics which have been intruded by irregular shaped serpentinized ultramafic intrusives. The extreme northeastern portion and a 600 foot zone within the central mafic metavolcanics are late felsic intrusives of hornblende-biotite granodiorite and muscovite granite respectively. The central portion of the property contains northerly trending late intrusive diabase dikes.

#### 3.2 TERRAIN GEOLOGY

Northern Ontario was glaciated by continental ice sheets at least four times during the Pleistocene. The last glaciation, the Laurentide of Wisconsinan age, is preserved in the area. By late Wisconsinan time ice receded northeast through the area and deposited a variety of surficial materials including extensive ground moraine



- PRECAMBRIAN<sup>o</sup>**
- PROTEROZOIC**
- LATE MAFIC INTRUSIVE ROCKS**
- 10 Diabase, unsubsdivided.
  - 10a Olivine diabase (dikes) Abitibi-type.
  - 9 Diabase, unsubsdivided.
  - 9a Quartz diabase (dikes).
  - 9b Porphyritic quartz diabase (dikes).
- INTRUSIVE CONTACT**
- ARCHEAN**
- LATE FELSIC INTRUSIVE ROCKS**
- 8 Granitic rocks.
  - 8a Biotite-hornblende granodiorite.
  - 8b Biotite granodiorite, biotite quartz monzonite.
  - 8c Tremolitic granodiorite.
  - 8d Diorite, hybrid diorite, syenite.
  - 8e Muscovite-albite trondhjemite.
  - 8f Leucocratic trondhjemite.
  - 8g Pegmatite.
  - 8h Migmatite.
- INTRUSIVE CONTACT**
- EARLY FELSIC INTRUSIVE ROCKS**
- 7 Granitic rocks.
  - 7a Biotite trondhjemite gneiss.
  - 7b Feldspar porphyry, quartz-feldspar porphyry.
  - 7c Quartz porphyry.
  - 7d Hybrid granodiorite gneiss.
  - 7e Migmatite.
  - 7f Hornblende-chlorite-feldspar porphyry.
- INTRUSIVE CONTACT**
- ULTRAMAFIC INTRUSIVE ROCKS**
- 6 Unsubsdivided.
  - 6a Grey to green-grey serpentinite.
  - 6b Dark grey to black serpentinite.
  - 6c Coarse blade textured serpentinite (chicken track rock).
  - 6d Mineralogically layered serpentinite.
  - 6e Sheared serpentinite.
  - 6f Asbestos-bearing serpentinite.
  - 6g Chloritic tremolitic serpentinite.
  - 6h Talcose serpentinite.
  - 6k Rusty carbonatized serpentinite.
- INTRUSIVE CONTACT**
- EARLY MAFIC INTRUSIVE ROCKS**
- 5 Unsubsdivided.
  - 5a Tremolitic actinolitic amphibolite.
  - 5b Actinolitic hornblending amphibolite.
  - 5c Sheared amphibolite.
  - 5d Porphyritic amphibolite.
  - 5e Garnet amphibolite.
  - 5f Dioritic amphibolite.
- INTRUSIVE CONTACT**
- IRON FORMATION**
- 4 Unsubsdivided.
  - 4a Magnetite-chert iron formation.
  - 4b Carbonate-chert iron formation.
  - 4c Amphibole-chert iron formation.
  - 4d Garnet-magnetite amphibolite.
  - 4e Chert.
  - 4f Pyritic slate, graphitic slate.
- DETRITAL METASEDIMENTS**
- 3 Unsubsdivided.
  - 3a Greywacke.
  - 3b Conglomerate.
  - 3c Slate, argillite.
  - 3d Phyllite, sericite schist, chlorite schist.
  - 3e Sandstone.
- FELSIC TO INTERMEDIATE METAVOLCANICS<sup>f</sup>**
- 2 Unsubsdivided.
  - 2a Felsic agglomerate, mafic agglomerate.
  - 2b Felsic tuff, felsic lapilli tuff.
  - 2c Mafic tuff, mafic lapilli tuff.
  - 2d Felsic flows.
  - 2e Felsic flow breccia.
  - 2f Garnet amphibolite.
- MAFIC TO INTERMEDIATE METAVOLCANICS<sup>f</sup>**
- 1 Unsubsdivided.
  - 1a Light coloured chlorite-tremolite metavolcanics.
  - 1b Dark coloured actinolite-hornblende schistose and gneissose metavolcanics.
  - 1c Carbonate metavolcanic schist, sericite-carbonate metavolcanic schist.
  - 1d Pillowed metavolcanics.
  - 1e Epitaxial metavolcanics.

Figure 4: General Geology of the La Société de Gastion Maskours Inc. Roseval Silica Property, Penhorwood Township, District of Cochrane, Ontario (modified after Milne, 1972)

till. The area was probably ice free about 9,000 years ago. Glaciolacustrine sediments were deposited over the till. Recent organic terrain developed in poorly drained depressions. These glacial and non-glacial deposits, form a discontinuous mantle over the bedrock.

The rolling terrain is characterized by numerous rock knobs. Glaciofluvial deposits of sand and gravel, including occasional kame and esker formations occur a short distance from the claim group. Planar terrain, reflecting the deposits of glaciolacustrine silts and clays, are found in the lowlands.

Local areas of moderate relief and glaciofluvial landforms are generally well drained, even where bedrock occurs close to ground surface. In contrast, poorly drained topographical lows are frequently occupied by wet organic wetland deposits.

### **3.3 GEOLOGY OF HIGH SILICA DEPOSITS**

The Penhorwood Township property of La Société de Gestion Maskours Inc. hosts at least 3 deposits of high quality silica.

Site 1 is located 300 feet south and 600 feet east of the C.N.R. Horwood Station. The original estimates of the width for the quartz vein ranged from 23 to 65 feet for a length of 2,479 feet trending between N 015° E to N 040° E. The vein occurs at or near the contact between the late felsic intrusive and mafic metavolcanics.

The western contact is exposed only near the Hardiman Bay road and appears to be either a magnetic rich metavolcanic or a mafic diabase dike. At the same location, the eastern contact is exposed and appears to consist of sheared mafic metavolcanic dipping about 70° west. The quartz is a milky white opaque massive variety. Minor colour discolouration is locally present in the form of pale green due to chlorite contamination, a pale mauve colour which fades in a short period of time and a pale pink due to felsic inclusions. A minor amount of carbonate is present in the northern exposures and decreases southerly.

Site 2 is located in the northeastern portion of the claim group and is approximately 50 to 125 feet wide for a length of about 300 to 350 feet trending N 065° E to N 068° E. The silica deposit is vertical to steeply dipping to the east. The southern contact is a chlorite schist of mafic to ultramafic metavolcanics, while the northern contact is a light to medium pink, medium grained felsic intrusive (granitic).

The extension of the Site 2 deposit has been traced by several pits and trenches for a distance of 700 feet in a westerly direction. The geological environment for this extension, Site 2A, is very similar to that of Site 2. Three diamond drill holes were drilled under Site 2A. The quartz vein ranges from 40 to 50 feet wide and dipping approximately 70 degrees to the northwest.

The last known silica deposit is located approximately 1,450 feet north of Site 2. Site 3 has a width of 100 to 150 feet for an approximate length of 300 feet trending N 045° E. This site was drilled with 7 holes. The northwestern unit intersected was granite followed by mafic to ultramafic chlorite schist and two wide quartz veins separated by mafic metavolcanics. The southeastern wall of the open pit has exposures of chlorite schist.

The ore zones are governed by the grade of the silica. The present economic market conditions have indicated that the final shipping product must have a grade of 99.8% SiO<sub>2</sub>. Lower grade 'pit run' silica material was shipped as smelter flux.

Based on the experience of the operators and the processing technique, values as low as 97% SiO<sub>2</sub> can be upgraded to the 99.9% high quality silica. Silica values as low as 95% can be upgraded at more expense.

Silica material has been classified by the SiO<sub>2</sub> content into low grade silica from 95% to 97%, medium grade silica from 97% to 99%, and a high grade of greater than 99% silica.

#### **4.0 CURRENT ACTIVITIES**

The purpose of this report is to present the activities and results of the exploration activities from July 14, 2001 to November 14, 2001 on mining claim P-1114596. These activities involved an overburden stripping program, bulk sampling, transit surveying of all stripped areas and geological mapping. The overburden and bulk sampling was completed by Larchex Inc. from July 14 to July 31, 2001 while the remainder of the above mention work was completed by K. Jensen and K. Stockill from September 13 to November 17, 2001.

#### **4.1 OUTCROP STRIPPING AND MAPPING**

Larchex Inc. obtained an option for exploration activities on Sites 1, 2 and 2a. These activities commenced from July 14 to July 31, 2001. The timesheet and equipment used for this is located in Appendix B.

The location of the stripped and trenched areas for Sites 2 and 2a is shown in Figure 5. The geological maps for the areas southwest, north and west of the Site 2 area are illustrated in Figures 6, 7 and 8, respectively. The geological mapping for the new stripping and trenching at Site 2a is illustrated in Figure 9.

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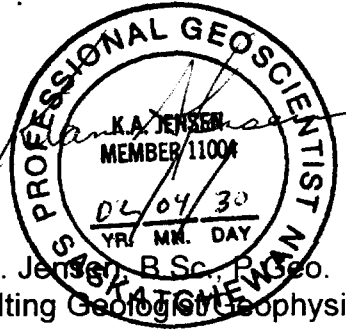
**5.0 CONCLUSIONS AND RECOMMENDATIONS**

The stripping, trenching and mapping program reveal large areas of white quartz similar to the quartz which has been historical used for both silica flux and high grade quality silica.

The author recommends that all samples from future percussion exploration drilling be assayed. It is further recommended that a certain percentage of the production percussion drill holes also be assayed, especially those at the bottom or last bench in the open pit.

Respectfully submitted,

Dated at Timmins, Ontario  
April 23, 2001



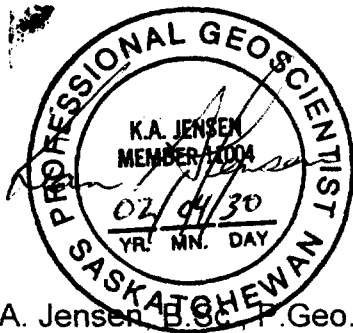
Kian A. Jensen, B.Sc., P. Geo.  
Consulting Geologist/Geophysicist

## STATEMENT OF QUALIFICATIONS

I, Kian A. Jensen, of the City of Timmins, Ontario, do hereby certify that:

1. I am currently contracted as a consultant by La Société de Gestion Maskour Inc.
2. I am a graduate of the University of Waterloo with an Honours B.Sc. In Earth Science, Geology Major (1975).
3. I am a member in good standing in the following associations:
  - a) Geological Association of Canada - Fellow, 1983
  - b) Association of Geoscientists of Ontario
  - c) Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS) as a Professional Geoscientist - Member 11004 (1999).
4. I have been employed as a geologist/geophysicist by various exploration, mining and consulting companies since 1978 and in the Timmins area since 1981.
5. I am directly responsible for the work outlined in this report and have been involved with the various exploration and mining activities on the Roseval Silica Property since 1988.
6. I have no direct interest, nor do I have any shares of any company exploring the properties described in this report, nor on any adjacent or surrounding property.

Dated this 23<sup>rd</sup> day of April, 2001, at Timmins, Ontario

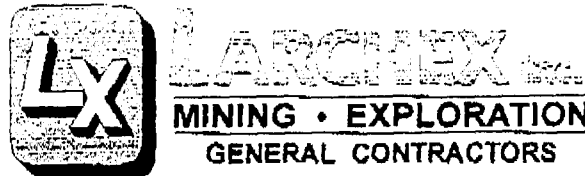


Kian A. Jensen, B.Sc., P. Geo.

## APPENDIX A

### Timesheet for: K. Jensen and K. Stockill for the Detail Geological Mapping AT Sites 2 and 2A

Date		Hours	(km)	Auto Comments
13-Sep-01	K.Jensen	8.00	192	Survey Layout - Site 2
14-Sep-01	K.Jensen	8.00	192	Geological Mapping Site 2
17-Sep-01	K.Jensen	8.00	192	Surveying and Mapping Site 2
17-Sep-01	K.Stockill	8.00		Surveying and Mapping Site 2
18-Sep-01	K.Jensen	8.00	192	Surveying and Mapping Site 2 and 2A
18-Sep-01	K.Stockill	8.00		Surveying and Mapping Site 2 and 2A
21-Sep-01	K.Jensen	8.00	192	Surveying and Mapping Site 2A
21-Sep-01	K.Stockill	8.00		Surveying and Mapping Site 2A
11-Oct-01	K.Jensen	6.00		Base Acad maps for Mapping
16-Oct-01	K.Jensen	9.00	192	Mapping Site 2, 3 hr drafting
17-Oct-01	K.Jensen	8.00	204	Mapping Site 2A
18-Oct-01	K.Jensen	8.00		Drafting Site 2
20-Oct-01	K.Jensen	3.00		Drafting Site 2
21-Oct-01	K.Jensen	4.00		Drafting Site 2
23-Oct-01	K.Jensen	4.00		Drafting Site 2A
25-Oct-01	K.Jensen	3.00		Drafting Site 2A
05-Nov-01	K.Jensen	4.00		Drafting Site 2
09-Nov-01	K.Jensen	6.00		Drafting Site 2A
12-Nov-01	K.Jensen	6.00		Drafting Site 2A
14-Nov-01	K.Jensen	5.00		Drafting Site 2A
15-Nov-01	K.Jensen	5.50		Drafting Site 2A
16-Nov-01	K.Jensen	6.50		Drafting Site 2
17-Nov-01	K.Jensen	8.00		Drafting Site 2A
Totals		150.00	1356 km	



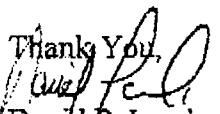
37 MEADOW LANE, TIMMINS, ONTARIO P4R 1M7  
PHONE (705) 268-7793 FAX (705) 268-6225

**Roseval Project**  
Montreal Quebec

**INVOICE:** Penhorwood Quarry 2 & 2a Advanced Exploration 2001

*On Site 2 and 2a Stripping and Bulk sampling program, with a signed agreement with Gaetan Lavale start July 14 2001*

Mob 790 Jd Excavator .....	\$80. per Hr 6.5hr...	\$520.00
Fuel Surcharge.....		\$ 31.20
790JD Excavator incl. fuel and operator \$100.per hr July 14 to 31 .....	120.hr	\$12,000.00
Operator on pumps (vital Larche) \$30. hr.....	120 hr	\$3,600.00
Wajax pump and hose and fuels \$100. day.....	12Day	\$1,200.00
July 31 Bulk Sample Drill & Blast (Consbec Inc.) Drill Exploration Holes.....		\$6029.02
Mobilize AC 25 Volvo Rock Truck \$85. per Hr.....	6.5hrs	\$551.20
Volvo \$85. per hr.....	45 hrs	\$3,825.00
Mobilize E1 240 Cat Excavator 1.75 yard Rock Bucket \$100. hr.....	45 hrs	\$4500.00
2Days \$200. Day Private Report Sampling Plotting Mapping.....		\$ 400.00 ✓
Demob to next site From timmins Float.....	5hrs	\$424.00 ✓
<i>*Stock pile different grades and size ore, a lot oversize +(chlorite spiders)</i>		
Sub total.....		\$33,080.42
GST.....		\$2,315.00
Total.....		\$35,395.00

Thank You,  
  
David P. Larche  
Larchex Inc.

## REFERENCES

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Break, F.W.

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Resident Geologist Assessment Files

T-495 Arnoit, B.M.

T-506 Canadian John Mansville

T-3237 Roseval Silica Inc.

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1987 Industrial Minerals of Northern Ontario; Ontario Geological Survey, Mineral Deposits Circular 26, p 272p.







Date: 2002-SEP-17

GEOSCIENCE ASSESSMENT OFFICE  
933 RAMSEY LAKE ROAD, 6th FLOOR  
SUDBURY, ONTARIO  
P3E 6B5

LA SOCIETE DE GESTION MASKOURS INC.  
150 DE BRULLON  
BOUCHERVILLE, QUEBEC  
J4B 2J2 CANADA

Tel: (888) 415-9845  
Fax: (877) 670-1555

**Submission Number:** 2.23516  
**Transaction Number(s):** W0260.00799  
W0260.00800

Dear Sir or Madam

**Subject: Approval of Assessment Work**

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

We did not receive anything on the bulk sampling results within the 45 days specified in the Notice dated July 29, 2002. The value of work approved for transaction W0260.00799 is \$17,532.00 (stripping portion). The value of work approved for transaction W0260.00800 is \$5,721.00 (geology).

If you have any question regarding this correspondence, please contact LUCILLE JEROME by email at [lucille.jerome@ndm.gov.on.ca](mailto:lucille.jerome@ndm.gov.on.ca) or by phone at (705) 670-5858.

Yours Sincerely,



Ron Gashinski  
Senior Manager, Mining Lands Section

**Cc:** Resident Geologist

Kian Attwood Jensen  
(Agent)

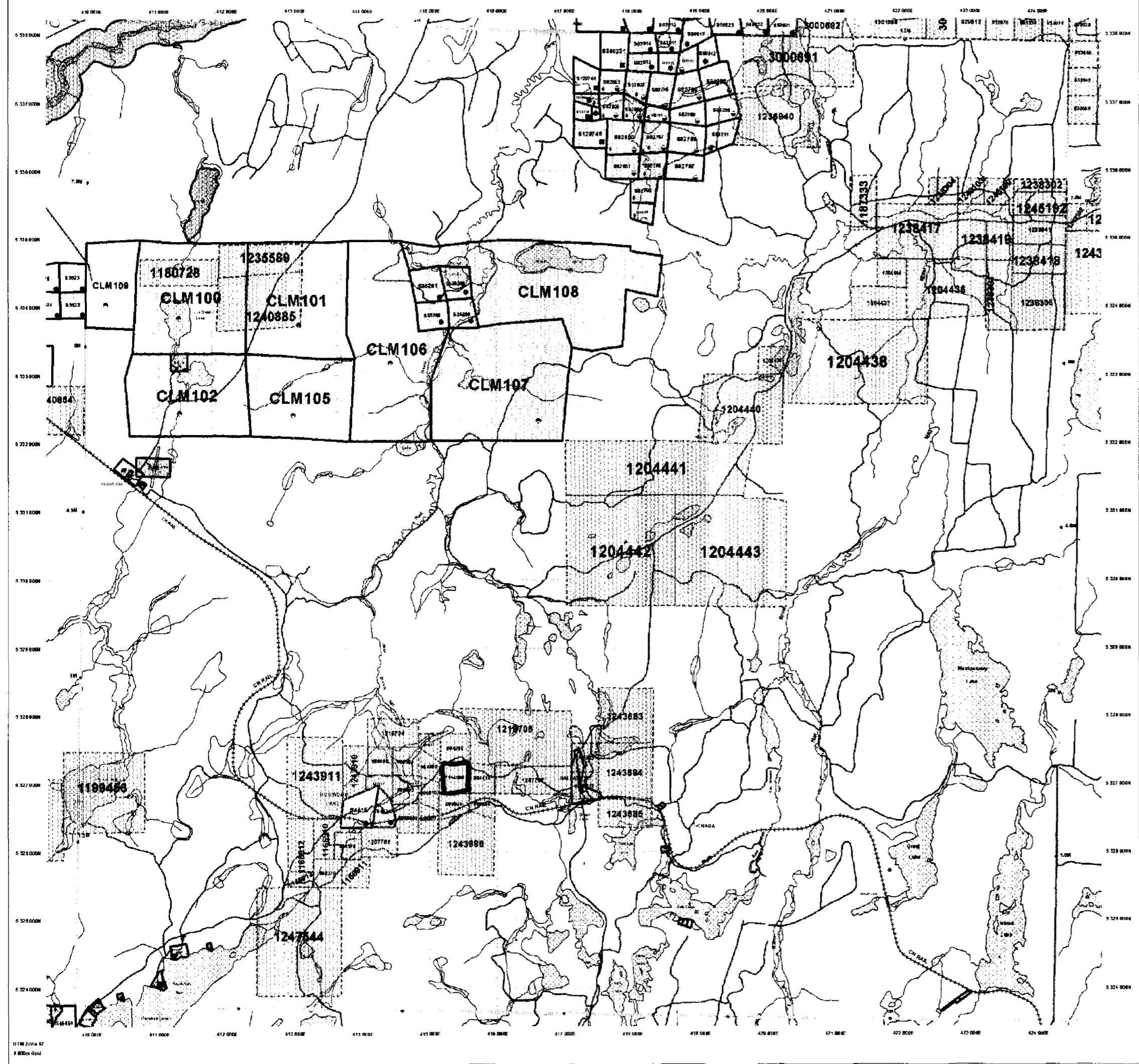
La Societe De Gestion Maskours Inc.  
(Assessment Office)

Assessment File Library

La Societe De Gestion Maskours Inc.  
(Claim Holder)



42B01SE2004 2.23516 PENHORWOOD 200



**MINING LAND TENURE MAP**

MINISTRY OF NORTHERN DEVELOPMENT AND MINES  
PROVINCE OF ONTARIO  
RECORDERS OFFICE

Date / Time of Issue May 30 2002 14:19h Eastern

TOWNSHIP / AREA PLAN  
PENHORWOOD G-3244

ADMINISTRATIVE DISTRICTS / DIVISIONS  
Mining Division Porcupine  
Land Titles/Registry Division SUDBURY  
Ministry of Natural Resources District TIMMINS

**TOPOGRAPHIC**

- Administrative Boundaries
- Topography
- Concession Lot
- Hydrographic
- Indian Reserves
- CLM, P, and PL
- Centre
- Centre, Again, Another, Different
- Shed
- Wind Indicator
- Railway
- Road
- Trail
- Industrial Features
- Hydro Line
- Power Line
- Process Pipe
- Watercourse (Natural, Artificial, Ditch, Canal)

**LAND TENURE**

Feehold Patent

- Surface Area Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Patent

- Surface Area Mining Rights
- Surface Rights Only
- Mining Rights Only

License of Occupancy

- Mineral Rights
- Surface Area Mining Rights
- Surface Rights Only
- Mining Rights Only

Land Use Permit

- Transfer in Charge
- Water Power Lease Agreement

**LAND TENURE WITHDRAWALS**

- Area Withdrawn from Operation
- Mining Act Withdrawal Types
- Wm Surface Mining Rights Withdrawal
- Wm Surface Rights Only Withdrawal
- Wm Mining Rights Only Withdrawal
- Wm Order in Court Withdrawal Types
- Wm Surface Mining Rights Withdrawal
- Wm Surface Rights Only Withdrawal
- Wm Mining Rights Only Withdrawal

**IMPORTANT NOTICES**

Area under which special regulations, limitations or conditions exist that affect normal prospecting, mining and mineral development activities.

**LAND TENURE WITHDRAWAL DESCRIPTIONS**

Regulation	Type	Date	Description
3025	Wm	Jan 8 2001	ORDER OF THE MINISTER #3027 DATED MARCH 30TH WITHDRAWS MINING AND SURFACE RIGHTS UNDER SECTION 36 OF THE MINING ACT RSD 0000
3046	Wm	Jan 1 2001	40211 RSD/HVY. S.R.O. 130507
3046	Wm	Jan 11 1991	SEC.30(4) 110781 S.A.O. 15527
WLL 11500	Wm	Nov 21 2001	Mining and Surface Rights Withdrawal Section 36 of the Mining Act RSD 1000 Order in Court 2001(4) OMT, Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.
WLL 11500	Wm	Nov 21 2001	Mining and Surface Rights Withdrawal Section 36 of the Mining Act RSD 1000 Order in Court 2001(4) OMT, Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.
WLL 11500	Wm	Nov 21 2001	Mining and Surface Rights Withdrawal Section 36 of the Mining Act RSD 1000 Order in Court 2001(4) OMT, Nov. 21, 2001 Note: this boundary closely represents the area that is being proposed for regulation and may be subject to further change.

**IMPORTANT NOTICES**  
Area under which special regulations, limitations or conditions exist that affect normal prospecting, mining and mineral development activities.

2.23516  
PSTRIP  
GEOL  
OTHER

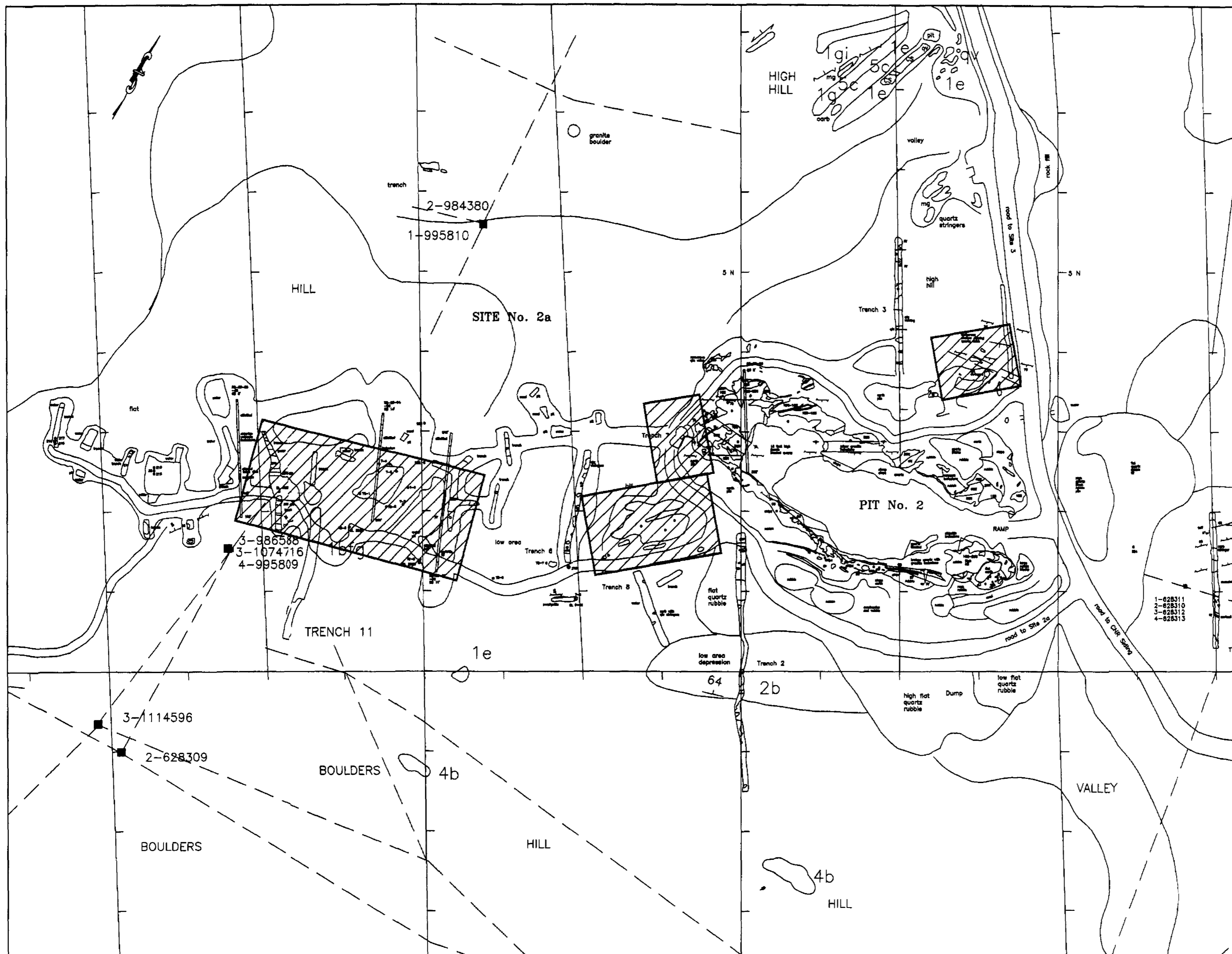
These mining or other mining claims should be consulted with the Provincial Mining Recorder's Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown herein. This map is not intended for navigation, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources. The information shown is derived from digital data available in the Provincial Mining Recorder's Office at the time of its recording in the Ministry of Northern Development and Mines website.

**General Information and Limitations**  
Contact Information:  
Provincial Mining Recorder's Office, 1st Floor  
Water Tower Mill Centre  
2335 Hwy. 104 East  
Sudbury, ON P2S 0R3  
Home Page: www.gov.on.ca/MNDNR/SUD/SUD.htm

Map ID: MND 002  
Projection: UTM 18 Q UTM  
Topographic Data Source: Land Information Centre  
Mining Land Titles Source: Provincial Mining Recorder's Office

This map may not show unregistered land tenure and reflects only land ownership certain parcels, leases, easements, right of way, bonding rights, it is not, or shall forms of information or rights or interest from the Crown. Also certain land tenure and land use that could not be shown on this map may exist. Mining claims may not be shown.

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 42B01SE2004 2.23516 PENHORWOOD



**LEGEND**

- QUARTZ, Located on surface and intersected in diamond drill holes  
80% Percentage of quartz
- GRANITE, Located on surface as a porphyritic granite and in drill holes as an extremely altered granite or an altered metavolcanic  
80% Percentage of quartz
- GABBROIC to ULTRAMAFIC INTRUSIVE  
Intrusive bodies and sills
- MAFIC METAVOLCANICS, medium to dark green, fine grained massive to tuff, chloritic schist (CS) to talcose (TCS)

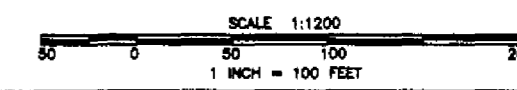
**SYMBOLS**

- CONTACT
- FAULT OR SHEAR
- SCHISTOSITY
- JOINTING
- carb CARBONATED VOLCANICS
- py PYRITE
- cp CHALCOPYRITE
- AIRTRACT HOLES LOCATED
- AIRTRACT HOLES APPROXIMATED
- SURVEY POINT AND NUMBER
- ROCK CHIPS FROM AIRTRACT HOLES
- CLAIM POST LOCATED
- CUT SURVEY GRID LINES

FIGURE 5

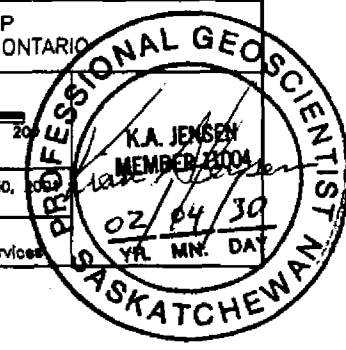
**ROSEVAL SILICA INCORPORATED**  
 STRIPPING AND TRENCHING  
 LOCATION MAP - SITES 2 AND 2A

PENHORWOOD TOWNSHIP  
 PORCUPINE MINING DIVISION, ONTARIO

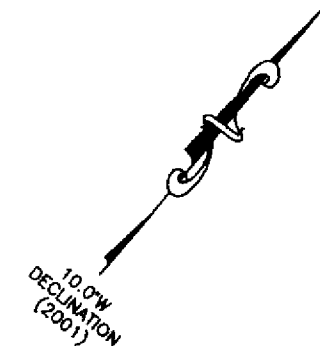
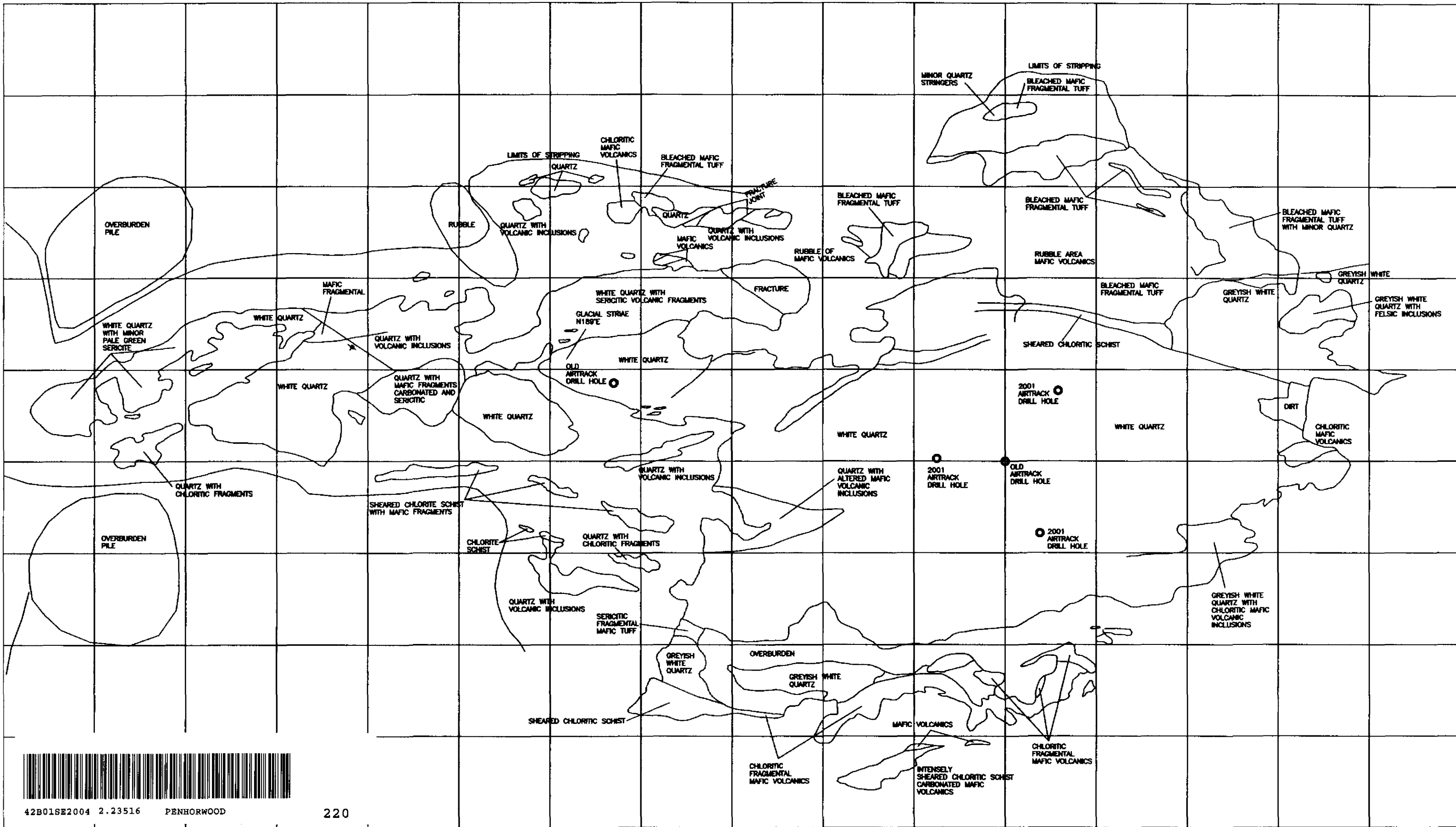


SURVEY BY: KIAN A. JENSEN DATE: JULY 14 - NOVEMBER 30, 1993  
 REVISION BY: KIAN A. JENSEN DATE:  
 PROJECT NO.:  
 FILE NO.:

Kian A. Jensen  
 Exploration and Consulting Services



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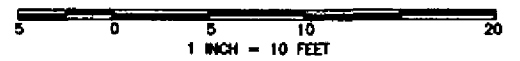


- LEGEND**
- CONTACT
  - - - FAULT OR SHEAR
  - ~ SCHISTOSITY
  - + JOINTING
  - + carb CARBONATED VOLCANICS
  - py PYRITE
  - cp CHALCOPYRITE
  - AIRTRACT HOLES LOCATED
  - AIRTRACT HOLES APPROXIMATED
  - CLAIM POST LOCATED
  - CUT SURVEY GRID LINES

FIGURE 6

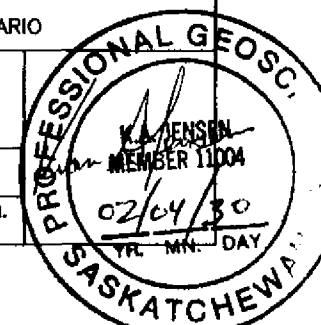
**ROSEVAL SILICA INCORPORATED**  
**GEOLOGICAL MAPPING - SITE 2 - OC**

PENHORWOOD TOWNSHIP  
 PORCUPINE MINING DIVISION, ONTARIO



SURVEY BY: KIAN A. JENSEN      DATE: SEPTEMBER 14, 17, 2001  
 REVISION BY: KIAN A. JENSEN      DATE:

PROJECT NO.:  
 FILE NO.: MAP-S2-OC      Kian A. Jensen & Associates Ltd.  
 Exploration and Consulting Services



42B01SE2004 2.23516 PENHORWOOD 220

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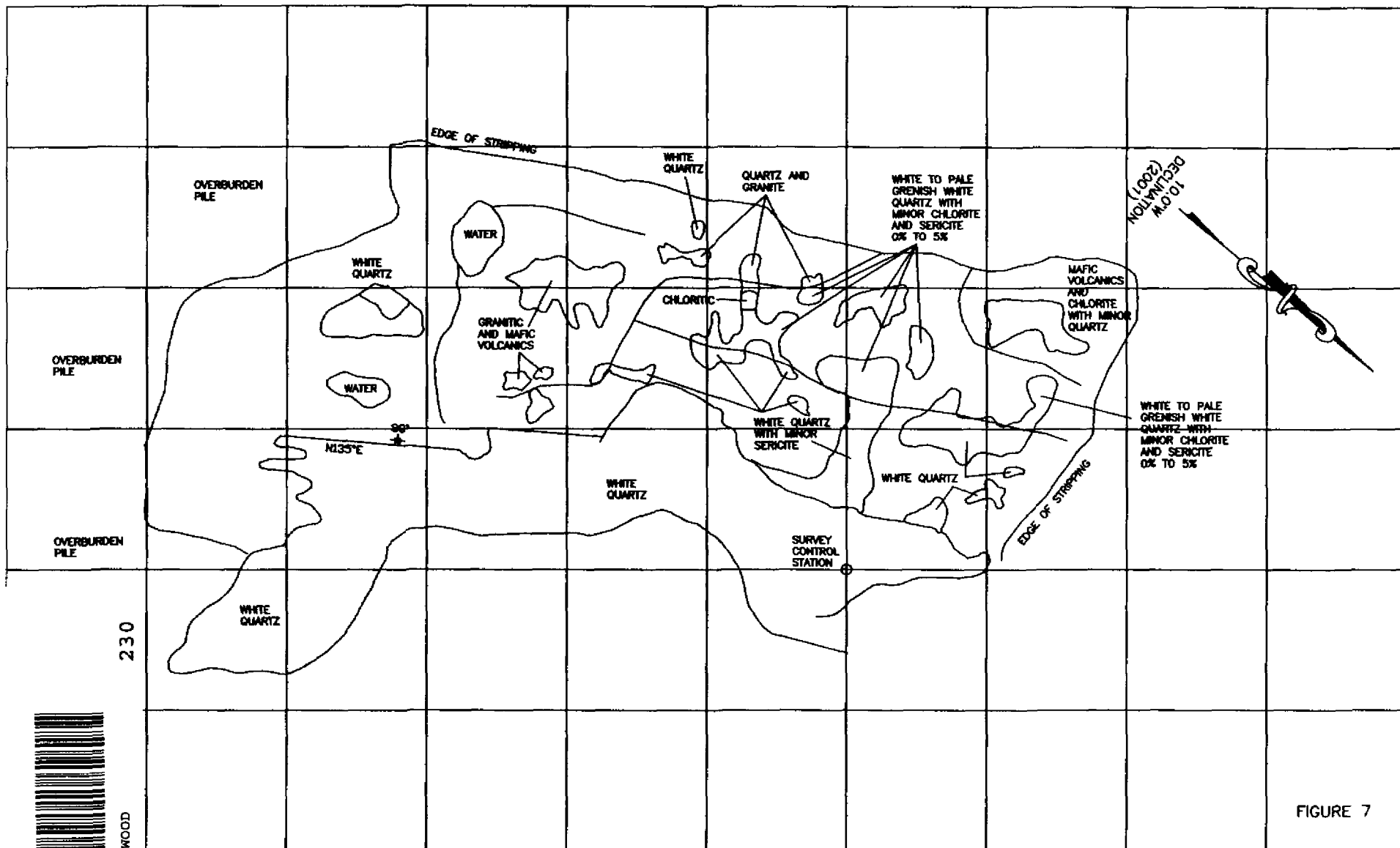


FIGURE 7



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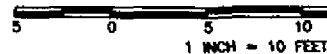
**LEGEND**

- CONTACT
- ↔ FAULT OR SHEAR
- ↗ SCHISTOSITY
- ⊕ JOINTING
- carb CARBONATED VOLCANICS
- py PYRITE
- cp CHALCOPYRITE
- AIRTRACT HOLES LOCATED
- AIRTRACK HOLES APPROXIMATED
- CLAIM POST LOCATED
- CUT SURVEY GRID LINES

**ROSEVAL SILICA INCORPORATED**

**GEOLOGICAL MAPPING - SITE 2 - B**

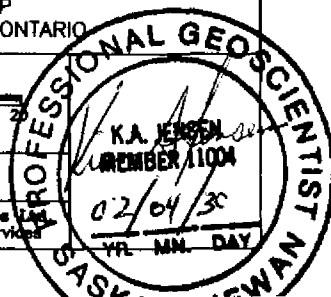
PENHORWOOD TOWNSHIP  
PORCUPINE MINING DIVISION, ONTARIO



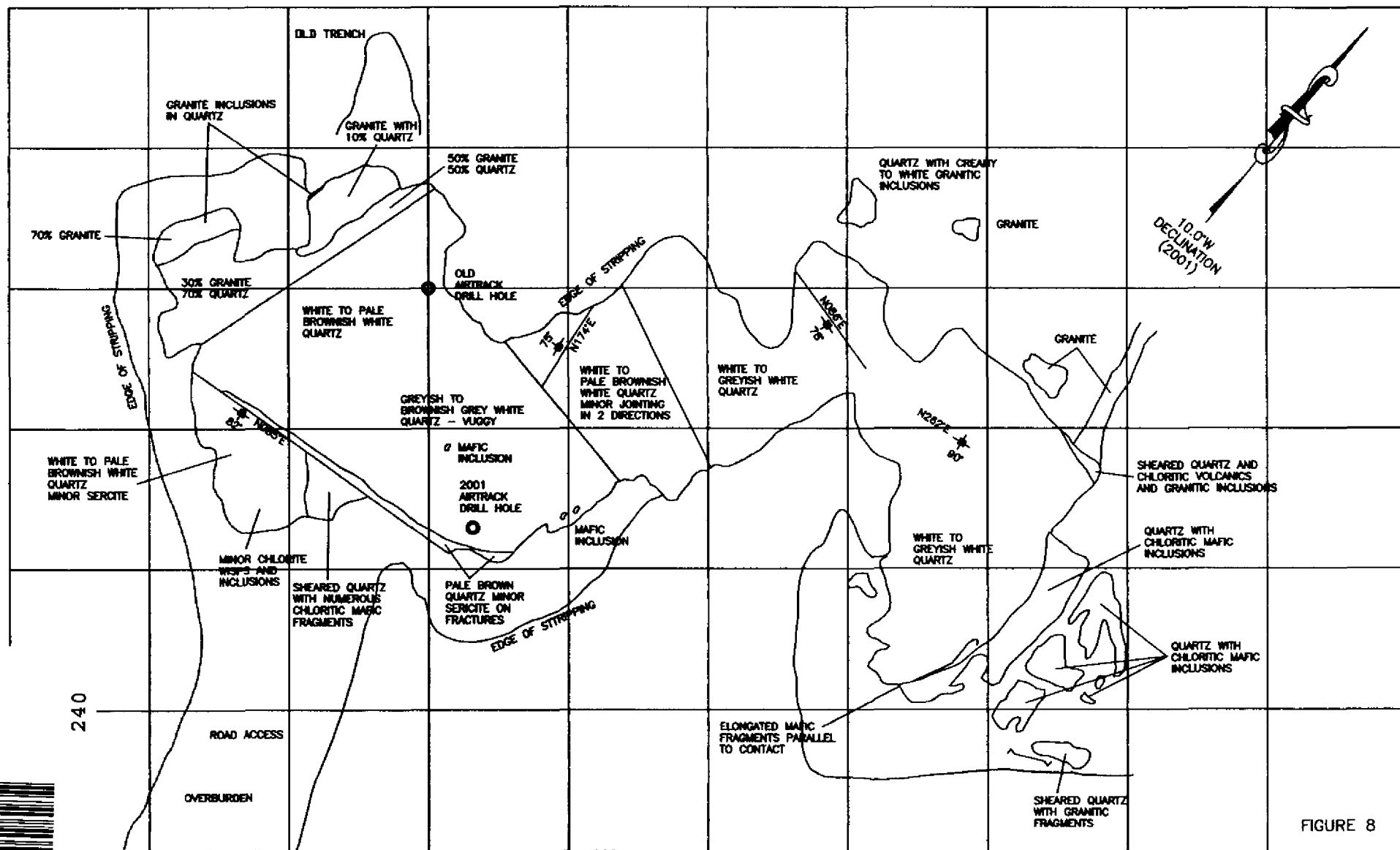
SURVEY BY: KIAN A. JENSEN DATE: OCTOBER 16, 2001  
REVISION BY: KIAN A. JENSEN DATE:

PROJECT NO.:  
FILE NO.: MAP S2-B

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Exploration and Consulting Services



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### LEGEND

- CONTACT
- FAULT OR SHEAR
- SCHISTOSITY
- + JOINTING
- carb CARBONATED VOLCANICS
- py PYRITE
- cp CHALCOPYRITE
- AIRTRACT HOLES LOCATED
- AIRTRACT HOLES APPROXIMATED
- CLAIM POST LOCATED
- CUT SURVEY GRID LINES

## ROSEVAL SILICA INCORPORATED

### GEOLOGICAL MAPPING - SITE 2 - B

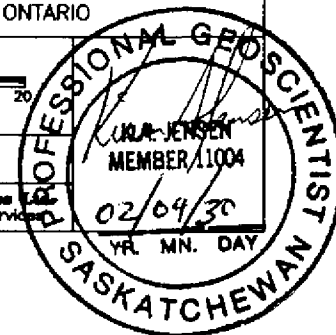
PENHORWOOD TOWNSHIP  
PORCUPINE MINING DIVISION, ONTARIO

5 0 5 10 20  
1 INCH = 10 FEET

SURVEY BY: KIAN A. JENSEN DATE: OCTOBER 16, 2001  
REVISION BY: KIAN A. JENSEN DATE:

PROJECT NO.:  
FILE NO.: MAP-S2-B

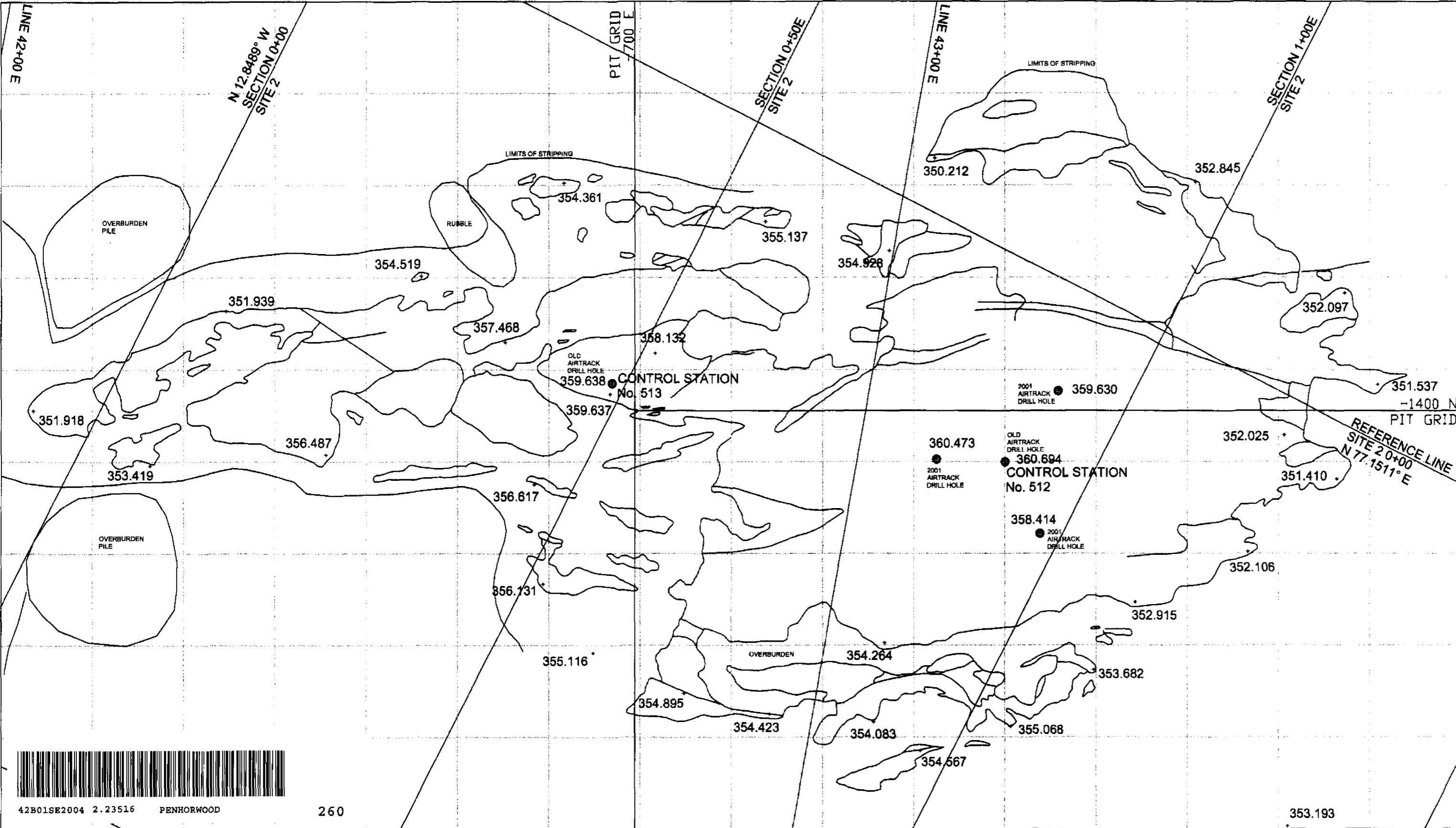
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PENHORWOOD

42B01522004 2.23516





10.07W DECLINATION (2001)  
2.23516

CONTROL STATION No. 512 - BENCH MARK  
 NORTHING -1405.563N  
 EASTING -659.440E  
 ELEVATION 360.694

CONTROL STATION No. 513 - BENCH MARK  
 NORTHING -1397.039  
 EASTING -702.457  
 ELEVATION 359.638

*Kian Jensen*

**ROSEVAL SILICA INCORPORATED**

**TRANSIT SURVEY - ELEVATION**

PENHORWOOD TOWNSHIP  
 PORCUPINE MINING DIVISION, ONTARIO

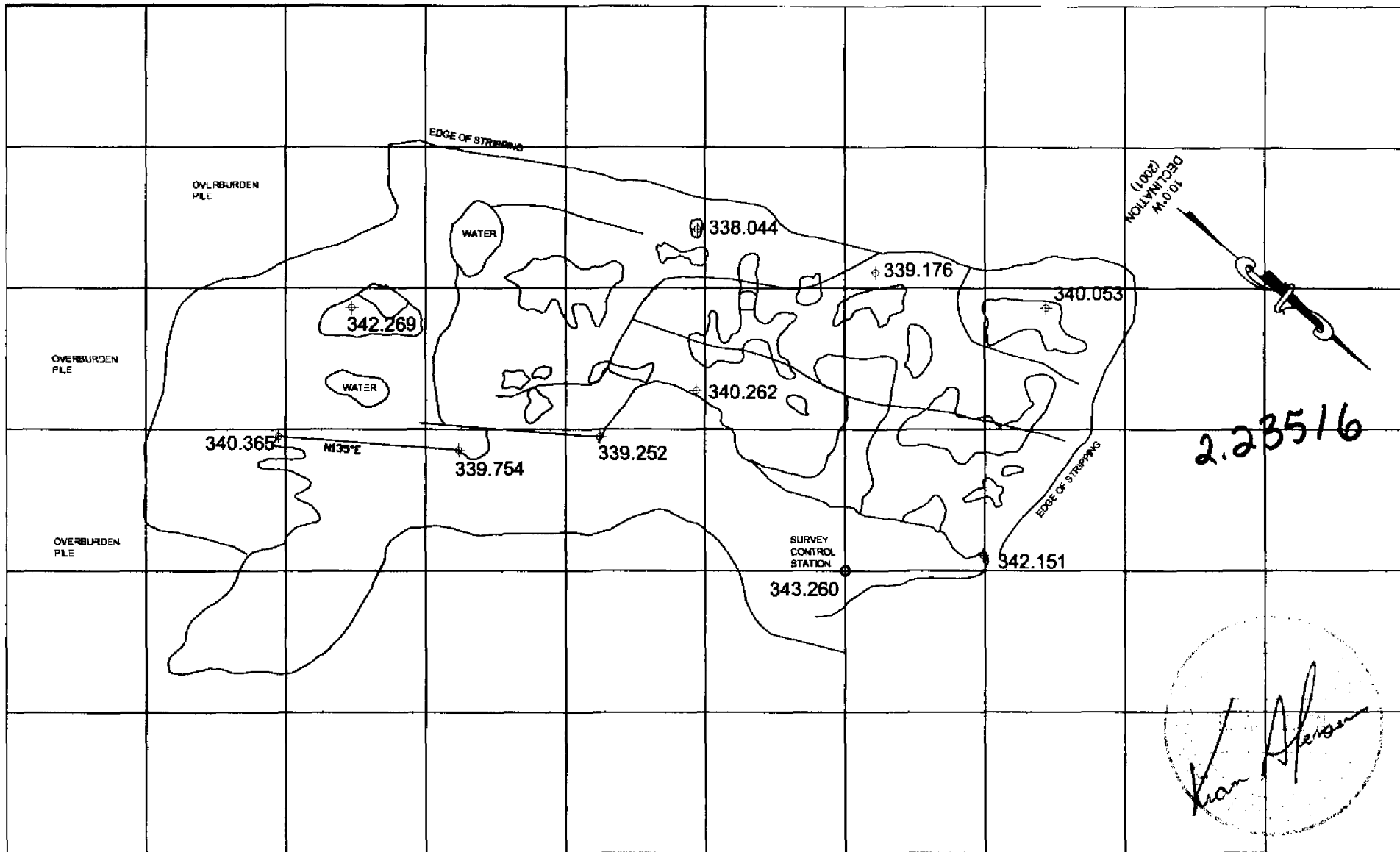


SURVEY BY: KIAN A. JENSEN DATE: AUGUST 17, 2002  
 REVISION BY: KIAN A. JENSEN DATE:  
 PROJECT NO.:  
 FILE NO.: MAP-S2-DC **Kian A. Jensen & Associates Ltd.**  
 Exploration and Consulting Services



42B01SE2004 2.23516 PENHORWOOD 260

353.193



CONTROL STATION  
 NORTHING -1285.043N  
 EASTING -612.181E  
 ELEVATION 343.260



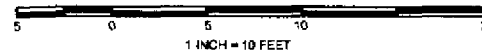
42B01SE2004 2.23516 PENHORWOOD

270

**ROSEVAL SILICA INCORPORATED**

**TRANSIT SURVEY - ELEVATION**

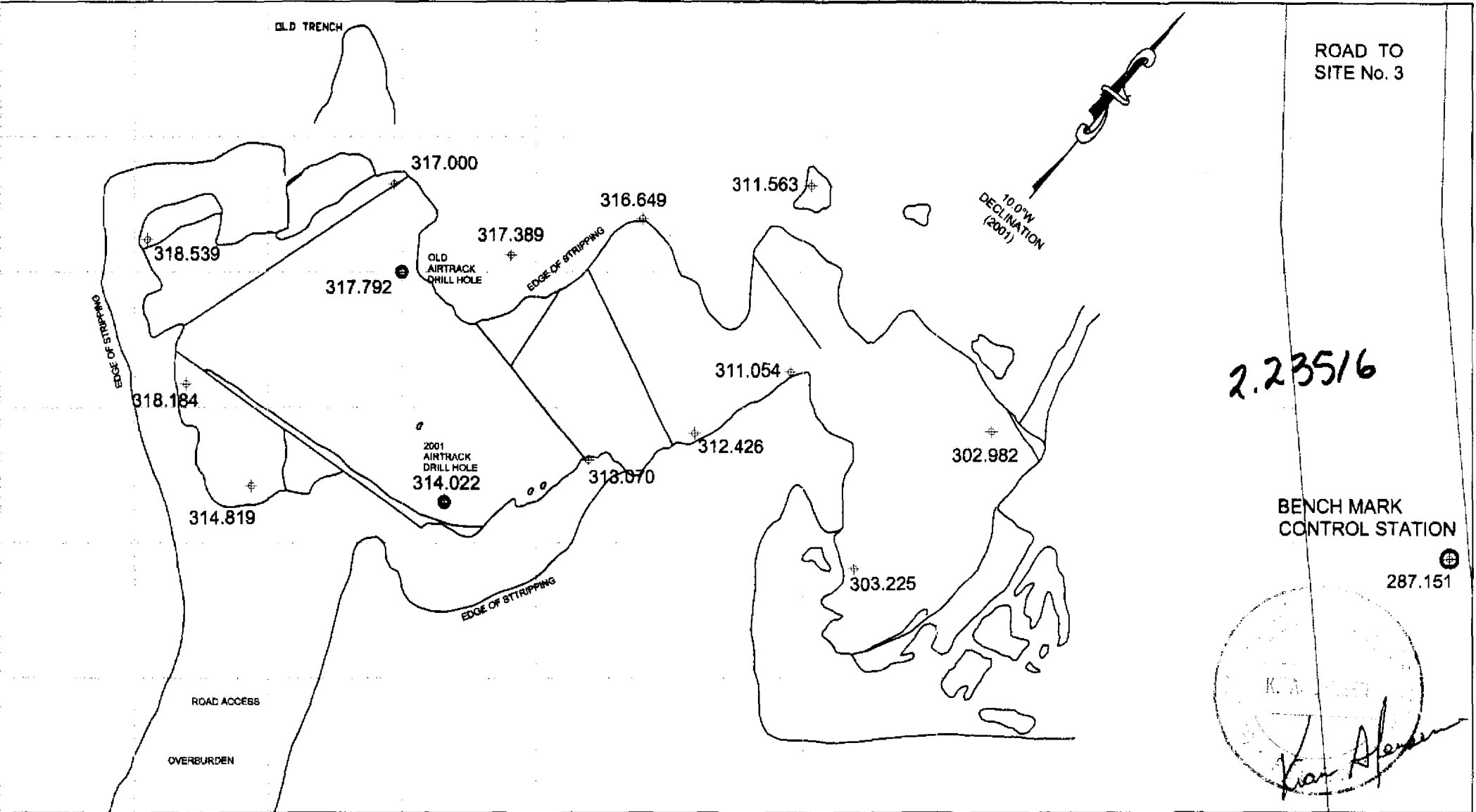
PENHORWOOD TOWNSHIP  
 PORCUPINE MINING DIVISION, ONTARIO



SURVEY BY: KIAN A. JENSEN      DATE: AUGUST 17, 2002  
 REVISION BY: KIAN A. JENSEN      DATE:

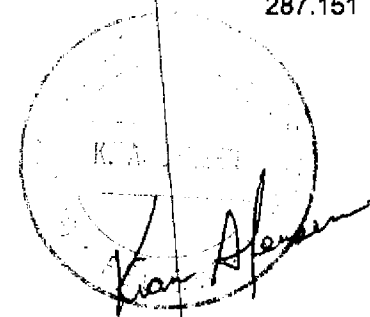
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 FILE NO.: MAP-S2B

**Kian A. Jensen & Associates Ltd.**  
 Exploration and Consulting Services



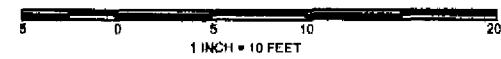
2.23516

BENCH MARK  
CONTROL STATION  
287.151



**ROSEVAL SILICA INCORPORATED**  
**TRANSIT SURVEY - ELEVATION**

PENHORWOOD TOWNSHIP  
PORCUPINE MINING DIVISION, ONTARIO



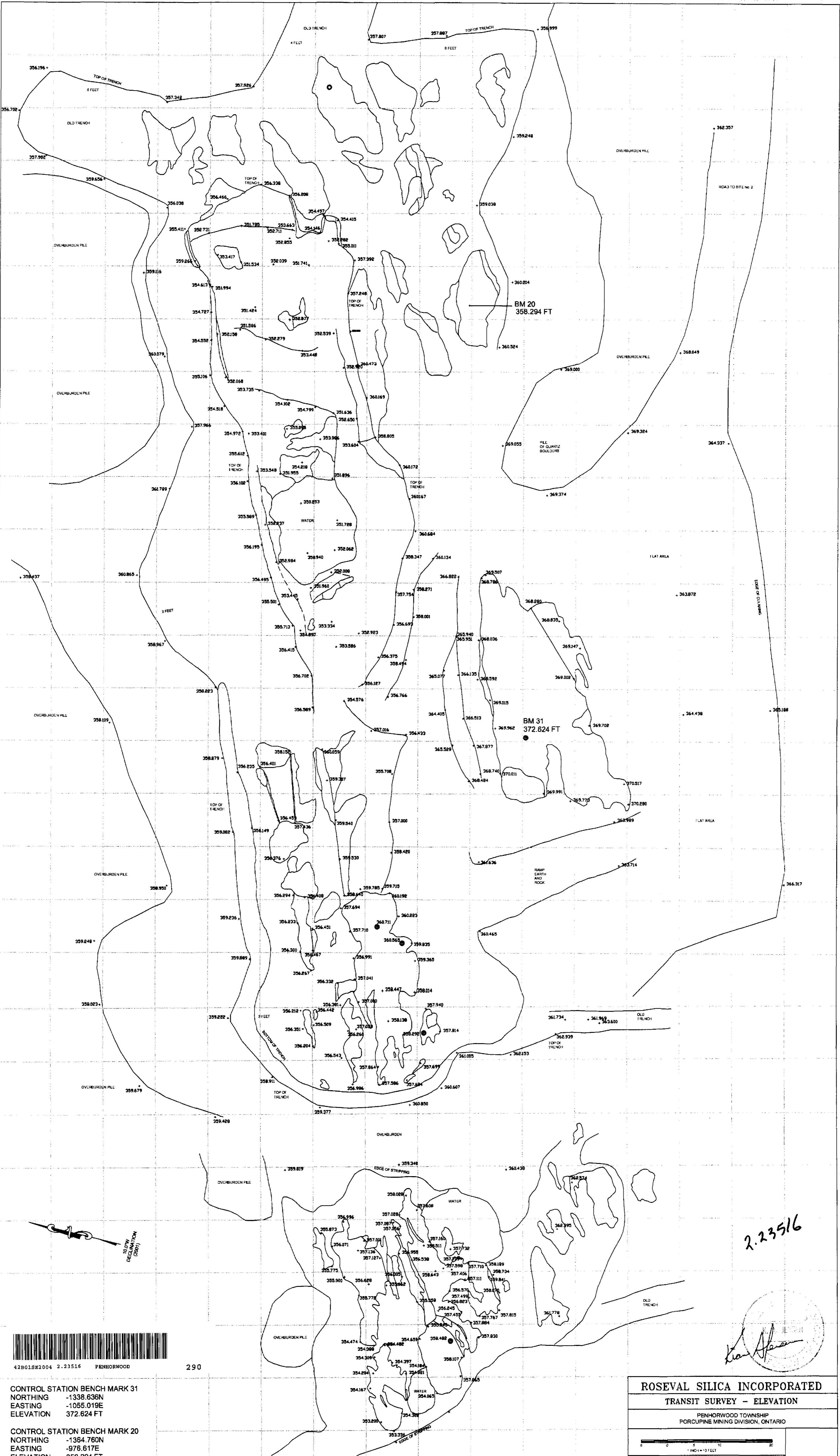
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 REVISION BY: KIAN A. JENSEN      DATE:

PROJECT NO.      **Kian A. Jensen & Associates Ltd.**  
 FILE NO.: MAP-S2-B      Exploration and Consulting Services

BENCH MARK  
CONTROL STATION  
NORTHING      -1286.529N  
EASTING        -192.389E  
ELEVATION      287.151 FT







2.23516

*Kian A. Jensen*



CONTROL STATION BENCH MARK 31  
 NORTHING -1338.636N  
 EASTING -1055.019E  
 ELEVATION 372.624 FT

CONTROL STATION BENCH MARK 20  
 NORTHING -1354.760N  
 EASTING -978.617E  
 ELEVATION 358.294 FT

<b>ROSEVAL SILICA INCORPORATED</b>	
TRANSIT SURVEY - ELEVATION	
PENHORWOOD TOWNSHIP PORCUPINE MINING DIVISION, ONTARIO	
SURVEY BY: KIAN A. JENSEN REVISION BY: KIAN A. JENSEN	DATE: SEPTEMBER 18, 21, 2001 AUGUST 11, 2002
PROJECT NO. 2.23516 FILE NO. GEO-252A	