LA SOCIETE DE GESTION MASKOURS INC.

ROSEVAL SILICA PROPERTY

SITE No. 3 PROJECT

IN

PENHORWOOD TOWNSHIP

PORCUPINE MINING DIVISION

DISTRICT OF COCHRANE

ONTARIO

by

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

April 23, 2001

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

1.0 PREFACE

La Societe de Gestion Maskours Inc. holds a total of 32 unpatented mining claims 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' and Longitude 82° 09'.

The purpose of this report is to present the results of the exploration activities of 1998 and 1999. These activities involved a transit surveying of all new drill holes and check surveying, revising the resource calculations previously completed by the author in 1994 with the results from the four 1998 drill holes which totalled 1312.3 feet. The new calculations incorporated the new transit surveying results, up to date drill sections and interpretation for a silica resource calculation. The above was completed by the author from December 1, 2000 to April 24, 2001.

2.0 INTRODUCTION

La Societe de Gestion Maskours Inc. holds a total of 32 unpatented mining claims in the southwestern portion of Penhorwood Township, Porcupine Mining Division, District of Cochrane, Ontario. The work outlined by this report covers the Site No. 3 area which is covered by mining claim P-994260 located in the north-central portion of the claim group.

The purpose of this report is to present the results of the exploration activities conducted during 1998 to 1999 on the La Societe de Gestion Maskours Inc. Penhorwood Township property. The activities at Site 3 involved a transit survey of the 1998 drill holes, check surveying, computerization of all drilling to date, and the generation of new drill sections for silica resource calculations.

The 1998 diamond drill holes and the assay results have been previously filed for assessment work.

2.1 LOCATION AND ACCESS

The 32 contiguous unpatented mining claims of La Societe 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

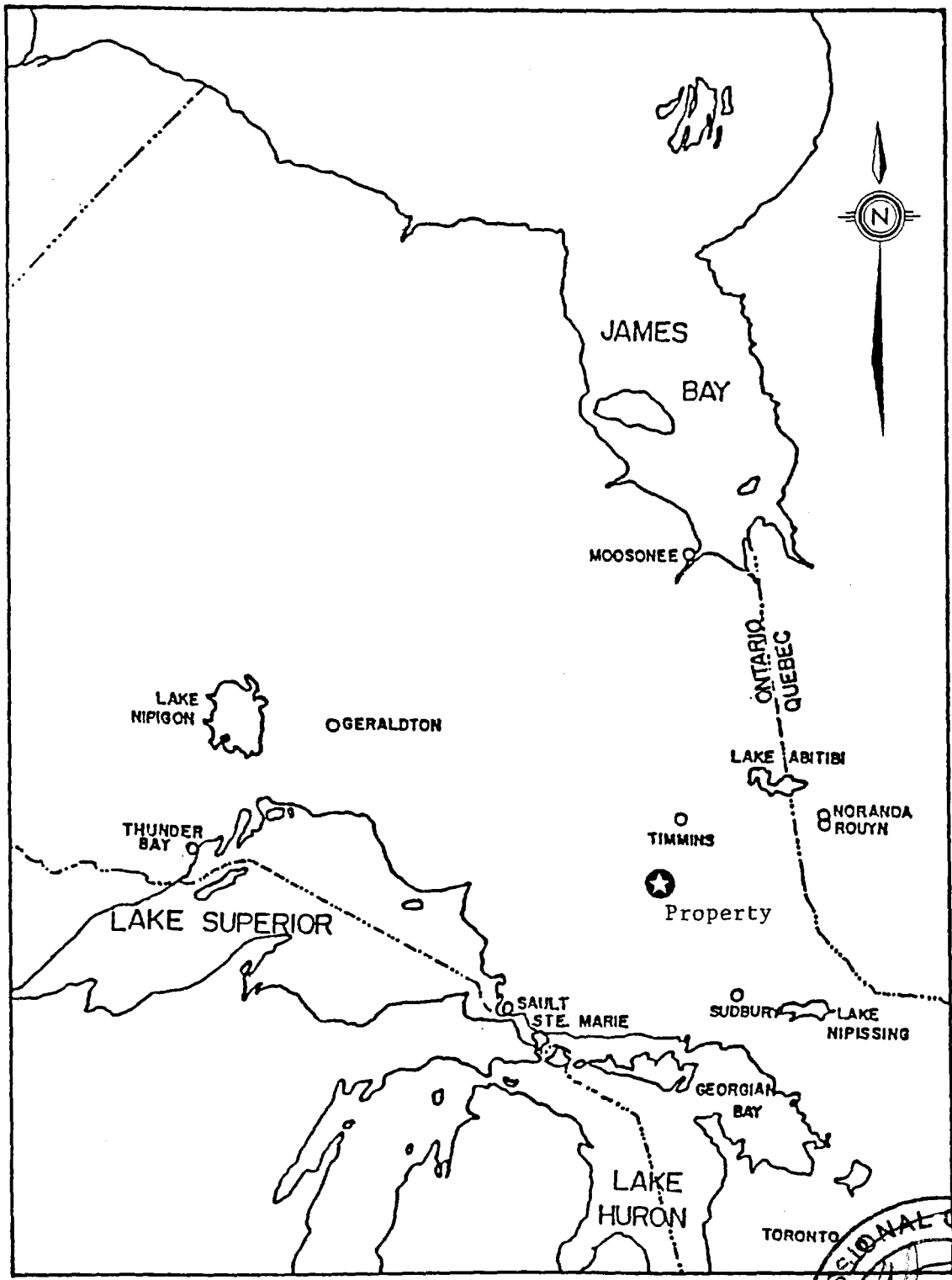


Figure 1: Location Map

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/1 and approximately Latitude 48° 05' and Longitude 82° 09'.

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.

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 of La Societe de Gestion Maskours Inc. consists of 32 contiguous unpatented mining claims. The mining claims covered by this report are shown in Figure 3, and Table 1 indicates the current active mining claims.

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.

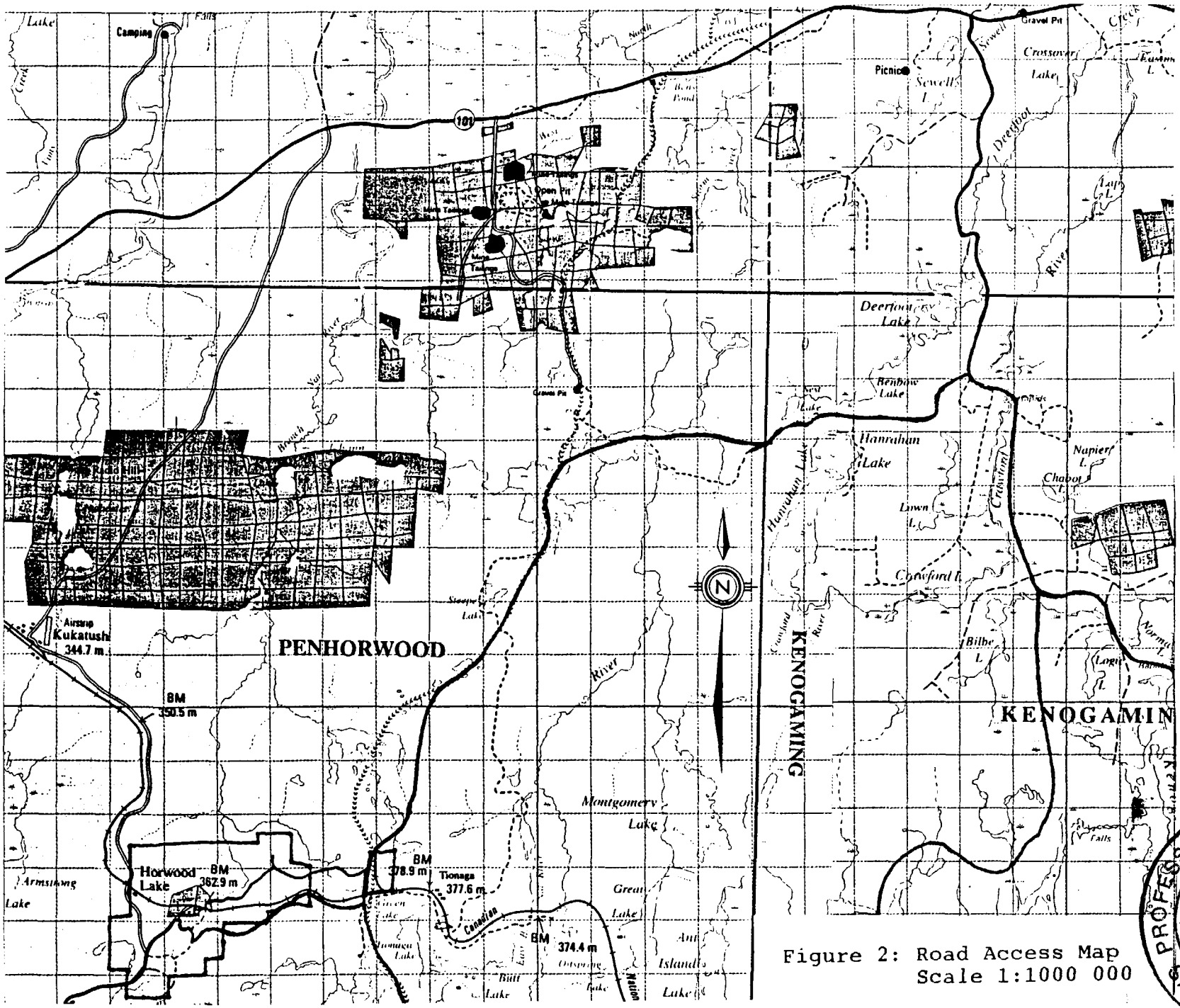
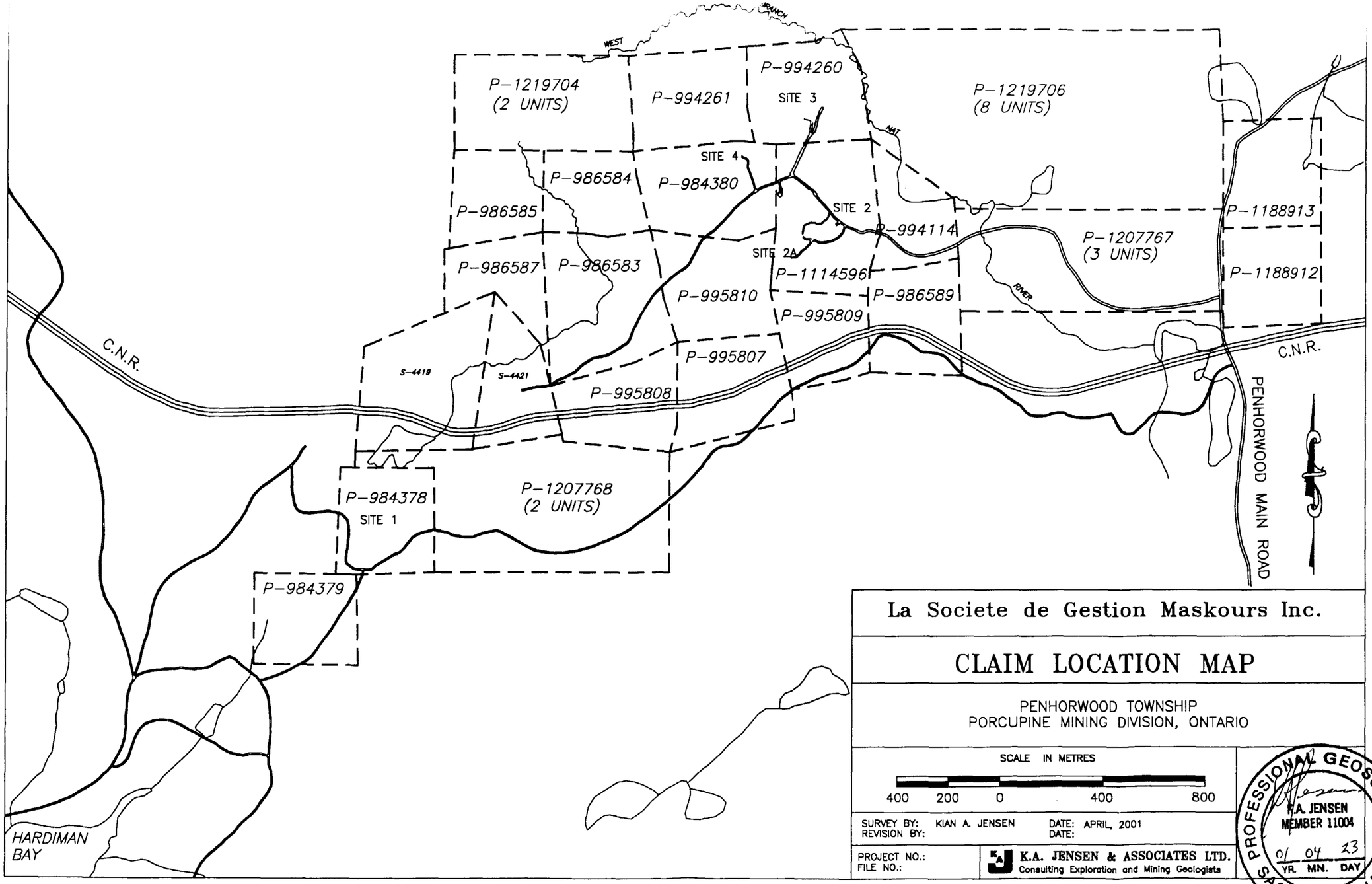


Figure 2: Road Access Map
Scale 1:1000 000

PROFESSIONAL GEOSCIENTIST
SASKATCHEWAN
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY



La Societe de Gestion Maskours Inc.

CLAIM LOCATION MAP

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN METRES

400 200 0 400 800

SURVEY BY: KIAN A. JENSEN DATE: APRIL, 2001
REVISION BY: DATE:

PROJECT NO.:
FILE NO.:

K.A. JENSEN & ASSOCIATES LTD.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
SASKATCHEWAN
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY

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

Ming Claim	Recording Date	No. of Units
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

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 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 6715 feet (2046.7 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 1110 foot diamond drilling program, topographic transit survey, and drill sections for a revised silica reserve calculation.

During April 1998, 5 diamond drill holes totalling 1633.8 feet were completed on the property with 4 drill holes totalling 1312.3 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 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

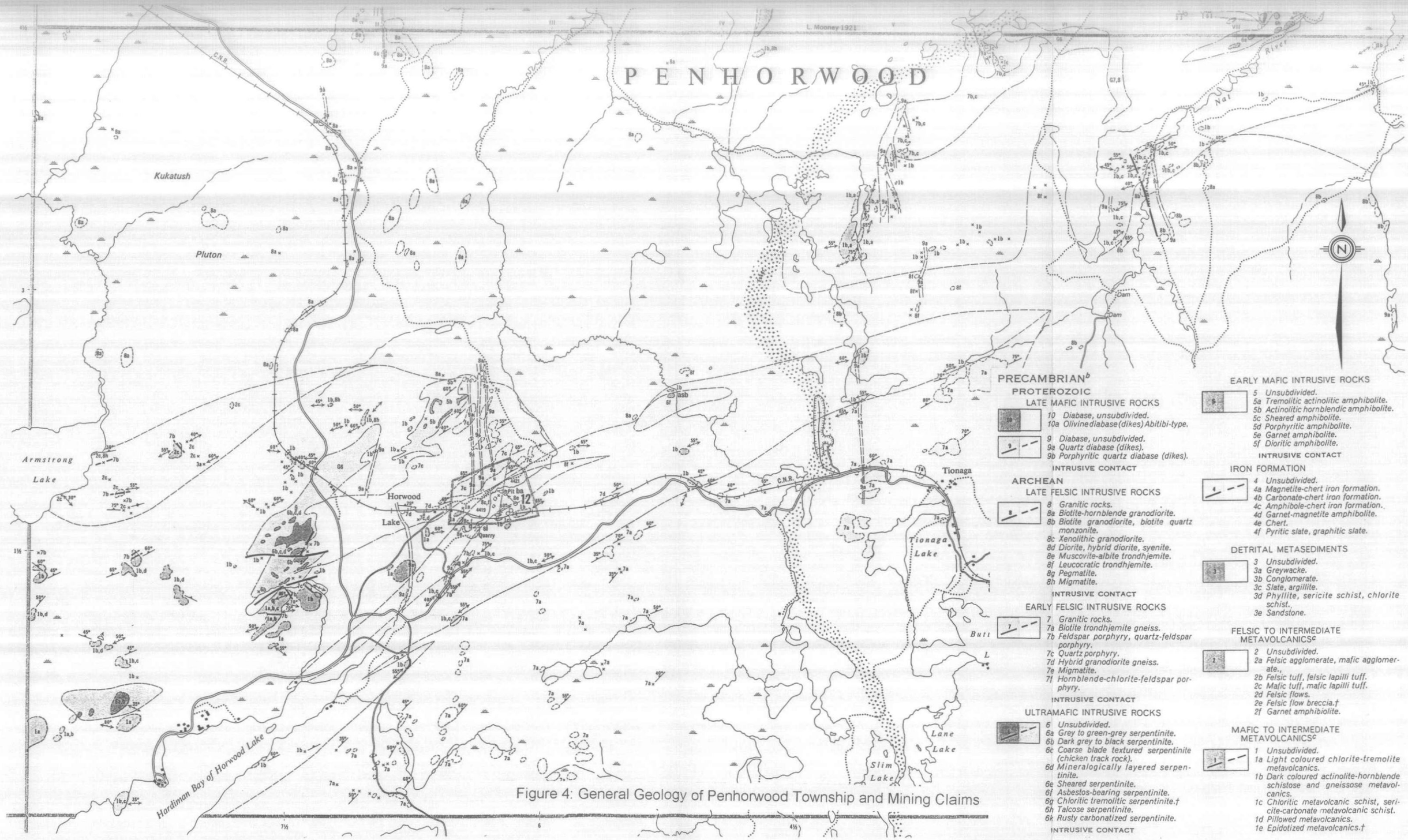


Figure 4: General Geology of Penhorwood Township and Mining Claims

PRECAMBRIAN[b]

PROTEROZOIC

LATE MAFIC INTRUSIVE ROCKS

10 Diabase, unsubdivided.
10a Olivine diabase (dikes) Abitibi-type.

9 Diabase, unsubdivided.
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 Xenolithic 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 Unsubdivided.
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 Unsubdivided.
5a Tremolitic actinolitic amphibolite.
5b Actinolitic hornblendic amphibolite.
5c Sheared amphibolite.
5d Porphyritic amphibolite.
5e Garnet amphibolite.
5f Dioritic amphibolite.

INTRUSIVE CONTACT

IRON FORMATION

4 Unsubdivided.
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 Unsubdivided.
3a Greywacke.
3b Conglomerate.
3c Slate, argillite.
3d Phyllite, sericite schist, chlorite schist.,
3e Sandstone.

FELSIC TO INTERMEDIATE METAVOLCANICS[c]

2 Unsubdivided.
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 amphibiolite.

MAFIC TO INTERMEDIATE METAVOLCANICS[c]

1 Unsubdivided.
1a Light coloured chlorite-tremolite metavolcanics.
1b Dark coloured actinolite-hornblende schistose and gneissose metavolcanics.
1c Chloritic metavolcanic schist, sericite-carbonate metavolcanic schist.
1d Pillowed metavolcanics.
1e Epidotized metavolcanics.†

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 morainal 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 glasciofluvial 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 Societe 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 1450 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_2. Lower grade 'pit run' silica material has been shipped as smelter flux.

Based on the experience of the operators and the processing technique, values as low as 98% SiO_2 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_2 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

This report covers the current activities of Site No. 3 which involve a computerized compilation of all known data, transit surveying of the 1998 diamond drill holes, and creating new drill sections for a current silica resource calculation.

4.1 DATA COMPILATION

A review of the exploration data available for the Site 3 area was completed by the author from December 1 to 5, 2000.

The amount of information on the Site 3 area consisted of the original surface mapping, updating the transit surveying of the area, 70 production and exploration

percussion airtrack drill holes and 7 diamond drill holes. Figure 6 which is located in the map folder, illustrates the location of all available drilling at Site 3.

The available maps indicating the geology, the location of the percussion airtrack holes and diamond drill holes, ore zone interpretation and the manual resource calculations were computerized in AutoCad. The drill holes were computerized in a drill hole computer program BORSURV, which created the diamond drill sections required for the AutoCad portion of the resource calculations.

4.2 TRANSIT SURVEYS

The survey was completed in 1999 by General Surveys of Timmins. The survey involved the surveying of all control stations, additional topographic features for section profiles and rechecking numerous percussion drill holes in bedrock which totalled 36 stations. The new co-ordinates for the control stations at Site 3 are indicated in Table 2. The new co-ordinates for the control stations were used to correct the database compiled in 1990 and used for reserve calculations in 1993 and revised in 1994.

Table 2: Summary of Co-ordinates for the Site No. 3 Control Survey Station (revised December 2000)

Control Point	Easting	Northing	Elevation (feet)
Station 1	-0.204	1.375	329.14
Station 2 - Iron Bar	44.551	0.015	328.49
Station 3 - Iron Bar	11.737	-22.006	328.08
Station 4 - Iron Bar	652.055	0.008	316.52

4.3 COMPUTERIZATION

The computerization of the Site 3 information commenced with the correction of the original database. The computerization was completed from December 6 to 10, 2000, January 8 to 9, 2001 and April 2 to 11, 2001 by the author.

Table 3 contains the co-ordinates for the percussion airtrack drill holes and the diamond drill holes used in the data set for the resource calculations while Table 4 indicates the sources of the information. The database represents a total of 4092.0 feet in 70 percussion airtrack drill holes and 2126.3 feet in 7 diamond drill holes. Figure 5 is a plan map of Site No. 3 with all the drill holes.

The data was computerized utilizing AutoCad Version 13. This computerization

Table 3: Co-ordinates of the Percussion Airtrack Drill Holes and the Diamond Drill Holes in the Computer Database for Site No. 3 (revised December, 2000).

Original Hole No.	Computer Hole No.	Type of Drill Hole	Eastings	Northings	Elevation (feet)	Length (feet)	Dip	Section Bearing
89-1	RA89-1	Airtrack	527.117	2.896	320.000	60.00	-90.00	0.00
89-2	RA89-2	Airtrack	426.584	-22.700	320.000	60.00	-90.00	0.00
89-3	RA89-3	Airtrack	421.621	-3.394	321.000	60.00	-90.00	0.00
89-4	RA89-4	Airtrack	380.440	12.849	324.000	60.00	-90.00	0.00
89-5	RA89-5	Airtrack	376.303	-45.012	326.000	60.00	-90.00	0.00
90-02	RS9002	Airtrack	356.404	51.787	307.569	60.00	-90.00	0.00
90-03	RS9003	Airtrack	254.017	33.296	315.522	60.00	-90.00	0.00
90-04	RS9004	Airtrack	252.590	-3.598	314.464	60.00	-90.00	0.00
90-05	RS9005	Airtrack	311.318	35.235	314.454	60.00	-90.00	0.00
90-06	RS9006	Airtrack	83.802	7.995	324.162	60.00	-90.00	0.00
90-06A	RS9006A	Airtrack	549.720	-38.354	310.319	60.00	-90.00	0.00
90-07	RS9007	Airtrack	548.919	31.269	319.366	60.00	-70.00	191.69
90-07A	RS9007A	Airtrack	592.129	-20.867	318.438	60.00	-90.00	0.00
90-07B	RS9007B	Airtrack	77.714	29.277	321.792	60.00	-90.00	0.00
90-09	RS9009	Airtrack	539.374	-8.653	319.063	60.00	-90.00	0.00
90-09B	RS9009B	Airtrack	563.182	10.492	320.574	60.00	-90.00	0.00
90-10	RS9010	Airtrack	290.179	9.098	315.168	60.00	-90.00	0.00
90-101	RS90101	Airtrack	554.380	-25.293	288.156	60.00	-90.00	0.00
90-102	RS90102	Airtrack	419.274	-11.956	277.887	35.00	-34.00	159.85
90-103	RS90103	Airtrack	424.121	4.963	210.422	60.00	-90.00	0.00
90-104	RS90104	Airtrack	421.510	19.966	210.818	60.00	-90.00	0.00
90-105	RS90105	Airtrack	416.467	32.243	210.422	60.00	-90.00	0.00
90-106	RS90106	Airtrack	460.203	70.875	290.443	60.00	-90.00	0.00
90-107	RS90107	Airtrack	270.425	63.566	315.420	60.00	-90.00	0.00
90-108	RS90108	Airtrack	497.406	32.880	276.383	60.00	-90.00	0.00
90-109	RS90109	Airtrack	520.755	13.970	278.341	60.00	-90.00	0.00
90-110	RS90110	Airtrack	280.481	-3.126	314.477	60.00	-90.00	0.00
90-111	RS90111	Airtrack	221.239	-6.786	314.958	60.00	-90.00	0.00
90-112	RS90112	Airtrack	220.287	32.724	313.063	60.00	-90.00	0.00
90-115	RS90115	Airtrack	419.951	77.311	288.057	60.00	-90.00	0.00
90-12	RS9012	Airtrack	545.518	34.222	319.522	60.00	-90.00	0.00
90-13	RS9013	Airtrack	468.438	66.612	304.480	60.00	-90.00	0.00
90-13B	RS9013B	Airtrack	403.560	59.044	306.397	40.00	-90.00	0.00
90-14	RS9014	Airtrack	47.605	14.751	325.225	60.00	-90.00	0.00
90-16	RS9016	Airtrack	34.921	61.101	312.793	60.00	-90.00	0.00
90-17	RS9017	Airtrack	-4.784	113.488	306.475	60.00	-90.00	0.00
90-18	RS9018	Airtrack	-4.004	114.453	306.152	60.00	-60.00	155.69
90-19	RS9019	Airtrack	15.931	84.305	311.190	60.00	-90.00	0.00
90-20	RS9020	Airtrack	-19.695	165.490	305.855	60.00	-90.00	0.00
A1	RSA1	Airtrack	272.442	-109.719	319.917	40.00	-90.00	0.00
A2	RSA2	Airtrack	443.770	-56.680	320.000	20.00	-90.00	0.00
A3	RSA3	Airtrack	383.460	-5.341	326.000	70.00	-90.00	0.00
A4	RSA4	Airtrack	290.017	-37.044	316.000	60.00	-90.00	0.00
A5	RSA5	Airtrack	244.226	-42.860	318.000	40.00	-90.00	0.00
A6	RSA6	Airtrack	164.830	-29.544	316.000	60.00	-90.00	0.00
A7	RSA7	Airtrack	95.257	-19.764	319.000	40.00	-90.00	0.00

Table 3: Continued

Original Hole No.	Computer Hole No.	Type of Drill Hole	Eastings	Northings	Elevation (feet)	Length (feet)	Dip	Section Bearing
A8	RSA8	Airtrack	22.867	-67.854	326.199	40.00	-90.00	0.00
EXPO1	REXPO1	Airtrack	583.143	1.363	321.303	60.00	-90.00	0.00
EXPO2	REXPO2	Airtrack	586.493	26.718	321.303	60.00	-90.00	0.00
RS89 T-10-1	R89T101	Airtrack	281.112	-56.630	272.382	60.00	-90.00	0.00
RS89 T-12-1	R89T121	Airtrack	329.860	-7.716	274.741	65.00	-90.00	0.00
RS89 T-14-1	R89T141	Airtrack	379.827	41.015	275.834	50.00	-8.00	338.69
RS89 T-14-2	R89T142	Airtrack	389.426	-36.342	272.954	67.00	-90.00	0.00
RS89 T-15-1	R89T151	Airtrack	478.234	-3.639	278.439	90.00	-90.00	0.00
RS89 T-15-2	R89T152	Airtrack	461.450	20.396	275.444	115.00	-90.00	0.00
RS89 T-15-3	R89T153	Airtrack	436.409	46.381	272.194	100.00	-90.00	0.00
RS89 T-15-4	R89T154	Airtrack	464.487	22.037	277.256	80.00	-40.00	48.69
RS89 T-15-5	R89T155	Airtrack	465.640	22.037	277.277	50.00	-40.00	93.69
RS89 T-15-6	R89T156	Airtrack	481.063	0.338	280.850	70.00	-40.00	103.69
RS89 T-4-1	R89T41	Airtrack	87.610	-19.196	319.240	60.00	-45.00	350.69
RS89 T-4-2	R89T42	Airtrack	99.856	-45.878	318.397	60.00	-60.00	162.69
RS89 T-5-1	R89T51	Airtrack	191.737	-120.332	318.157	20.00	-90.00	0.00
RS89 T-5-2	R89T52	Airtrack	176.026	-96.833	318.200	70.00	-90.00	0.00
RS89 T-5-3	R89T53	Airtrack	160.932	-73.347	318.200	70.00	-90.00	0.00
RS89 T-5-4	R89T54	Airtrack	146.241	-50.389	319.600	60.00	-90.00	0.00
RS89 T-5-5	R89T55	Airtrack	131.322	-26.561	319.584	50.00	-90.00	0.00
RS89 T-8-1	R89T81	Airtrack	242.409	-80.570	300.916	30.00	-90.00	0.00
RS89 T-8-2	R89T82	Airtrack	236.759	-47.545	301.553	50.00	-90.00	0.00
RS89 T-9-1	R89T91	Airtrack	270.428	-67.405	301.074	30.00	-90.00	0.00
RS89 T-9-2	R89T92	Airtrack	270.417	-32.344	301.100	60.00	-90.00	0.00
RS89-06	RS89-6	Diamond	396.005	132.684	307.235	288.00	-45.00	178.69
RS89-07	RS89-7	Diamond	296.915	131.659	309.881	288.00	-45.00	178.69
RS89-08	RS89-8	Diamond	185.696	125.593	304.042	238.00	-45.00	173.69
RS-98-01	RS98-1	Diamond	500.018	134.956	310.950	252.60	-59.50	180.00
RS-98-02	RS98-2	Diamond	450.018	214.956	287.750	341.20	-51.00	180.00
RS-98-03	RS98-3	Diamond	350.265	189.956	298.271	377.30	-51.00	180.00
RS-98-04	RS98-4	Diamond	500.018	209.956	282.266	341.20	-62.00	180.00

Table 4: Sources of Information for the Percussion Airtrack Drill Holes and the Diamond Drill Holes in the Computer Database for Site No. 3.

Original Hole No.	Computer Hole No.	Type of Drill Hole	Source of Information			
			Assays	Geology	Dip	Bearing
89-1	RA89-1	Airtrack	2	2	2a	2
89-2	RA89-2	Airtrack	2	2	2a	2
89-3	RA89-3	Airtrack	2	2	2a	2
89-4	RA89-4	Airtrack	2	2	2a	2
89-5	RA89-5	Airtrack	2	2	2a	2
90-02	RS9002	Airtrack	3			
90-03	RS9003	Airtrack	3			
90-04	RS9004	Airtrack	3			
90-05	RS9005	Airtrack	3			
90-06	RS9006	Airtrack	3			
90-06A	RS9006A	Airtrack				
90-07	RS9007	Airtrack	3			
90-07A	RS9007A	Airtrack				
90-07B	RS9007B	Airtrack	3			
90-09	RS9009	Airtrack	3			
90-09B	RS9009B	Airtrack	3			
90-10	RS9010	Airtrack	3			
90-101	RS90101	Airtrack	3			
90-102	RS90102	Airtrack	3			
90-103	RS90103	Airtrack	3			
90-104	RS90104	Airtrack	3			
90-105	RS90105	Airtrack	3			
90-106	RS90106	Airtrack	3			
90-107	RS90107	Airtrack	3			
90-108	RS90108	Airtrack	3			
90-109	RS90109	Airtrack	3			
90-110	RS90110	Airtrack	3			
90-111	RS90111	Airtrack	3			
90-112	RS90112	Airtrack	3			
90-115	RS90115	Airtrack	3			
90-12	RS9012	Airtrack				
90-13	RS9013	Airtrack				
90-13B	RS9013B	Airtrack				
90-14	RS9014	Airtrack	3			
90-16	RS9016	Airtrack				
90-17	RS9017	Airtrack	3			
90-18	RS9018	Airtrack	3			
90-19	RS9019	Airtrack	3			
90-20	RS9020	Airtrack	3			
A1	RSA1	Airtrack				
A2	RSA2	Airtrack	4	2b	2a	
A3	RSA3	Airtrack	4	2b	2a	
A4	RSA4	Airtrack	4	2b	2a	
A5	RSA5	Airtrack				
A6	RSA6	Airtrack	4	2b	2a	
A7	RSA7	Airtrack				

Table 4: Continued

Original Hole No.	Computer Hole No.	Type of Drill Hole	Source of Information			
			Assays	Geology	Dip	Bearing
A8	RSA8	Airtrack				
EXPO1	REXPO1	Airtrack	4			
EXPO2	REXPO2	Airtrack	4			
RS89 T-10-1	R89T101	Airtrack	2	2b	2a	2
RS89 T-12-1	R89T121	Airtrack	2	2b	2a	2
RS89 T-14-1	R89T141	Airtrack	2	2b	2a	2
RS89 T-14-2	R89T142	Airtrack	2	2b	2a	2
RS89 T-15-1	R89T151	Airtrack	2	2b	2a	2
RS89 T-15-2	R89T152	Airtrack	2	2b	2a	2
RS89 T-15-3	R89T153	Airtrack	2	2b	2a	2
RS89 T-15-4	R89T154	Airtrack	2	2b	2a	2
RS89 T-15-5	R89T155	Airtrack	2	2b	2a	2
RS89 T-15-6	R89T156	Airtrack	2	2b	2a	2
RS89 T-4-1	R89T41	Airtrack	2	2b	2	2
RS89 T-4-2	R89T42	Airtrack	2	2b	2	2
RS89 T-5-1	R89T51	Airtrack	2	2b	2a	2
RS89 T-5-2	R89T52	Airtrack	2	2b	2a	2
RS89 T-5-3	R89T53	Airtrack	2	2b	2a	2
RS89 T-5-4	R89T54	Airtrack	2	2b	2a	2
RS89 T-5-5	R89T55	Airtrack	2	2b	2a	2
RS89 T-8-1	R89T81	Airtrack	2	2b	2a	2
RS89 T-8-2	R89T82	Airtrack	2	2b	2a	2
RS89 T-9-1	R89T91	Airtrack	2	2b	2a	2
RS89 T-9-2	R89T92	Airtrack	2	2b	2a	2
RS89-06	RS89-6	Diamond	2	2	2	2
RS89-07	RS89-7	Diamond	2	2	2	2
RS89-08	RS89-8	Diamond	2	2	2	2
RS-98-01	RS98-1	Diamond	5	5	5	5
RS-98-02	RS98-2	Diamond	5	5	5	5
RS-98-03	RS98-3	Diamond	5	5	5	5
RS-98-04	RS98-4	Diamond	5	5	5	5

Source of Information

1 Nor-Dev Assistance Contract Final Report, November 1987

2 Report to OMIP on the Exploration Project of High Quality Quartz Veins in Penhorwood Township, Volume 2 - Reserves, February 1990

2a From Sections filed with Reference Number 2

2b Geology Intervals Estimated from Sections Filed with Reference Number 2

3 Site 3 Roseval Silica Inc. 1990 Reserves - K.A. Jensen

4 Exploration and Reserve Calculation of the Roseval Silica Inc. Project, January 30, 1990

5 Report on the 1998 Drilling Program, Roseval Property, M.F. Stalker, July, 1999

assisted in rapid access of the various surveys conducted, comparison of the previous information and established a data base for the present evaluation and future exploration and production of the high quality silica. All the figures contained in this report were generated by AutoCad.

The diamond drilling information generated by BORSURV was imported into AutoCad. Additional information of the legend, title block, interpretation, ore blocks and topographic profiles were added directly to each of the drill sections.

The compilation of the vast amount of data was accomplished by the computer drill hole program "BORSURV". This program is a comprehensive software package for the handling of drill hole data and for plotting sections, plans and levels. Other features offered are total grid rotation, statistics and computation on assay data, resource calculations and deposit modelling. The BORSURV program takes into account the inclination of the mineralized or ore zone.

The grid sections were computer generated at 50 foot intervals with an influence of 25.0 feet on either side of the section line. The section north is North 38.59° West astronomic and the bearing of the reference line is North 51.41° East. The quartz zones encountered in the drilling were plotted on these sections. Using structural, geological and assay information, the ore zones were drawn on section, revised and digitized in AutoCad.

The Site No. 3 drill sections with assays, geology and topographic features are illustrated in Figures 6 to 18 inclusively, for Site 3 are located in the map folder.

5.0 MINERAL RESOURCES

The following is an excerpt from the CIM Standards on Mineral Resources and Reserves (August 2000).

Mineral Resources *are subdivided, in order of increasing geological confidence, into* ***Inferred*** *(the quality and grade or quality can be estimated on the basis of geological evidence and limited sampling and reasonably assumed, but not verified, geological and grade continuity),* ***Indicated*** *(quality, grade or quality, densities, shape and physical characteristics, can be estimated with a level of confidence sufficient to allow the appropriate application of technical and economic parameters to support mine planning and evaluation of the economic viability of the deposit) and* ***Measured*** *(quality, grade or quality, densities, shape and physical characteristics are so well established that they can be estimated with confidence sufficient to allow the appropriate application of technical and economic parameters to support production planning and evaluation of the economic viability of the deposit) categories. An Inferred Mineral Resource has a lower level of confidence that applied to an Indicated Mineral Resource. An Indicated Mineral Resource has a higher level of confidence than an Inferred Mineral*

Resource but has a lower level of confidence than a Measured Mineral Resource.

*A **Mineral Reserve** is the economically mineable part of a Measured or Indicated Mineral Resource demonstrated by at least a Preliminary Feasibility Study, which must include adequate information on mining, processing, metallurgical, economic and other relevant factors that demonstrate, at the time of reporting, that economic extraction can be justified. The Probable Mineral Reserve is the economically mineable part of an Indicated and in some circumstances a Measured Mineral Resource demonstrated by at least a Preliminary Feasibility Study. A Proven Mineral Reserve is the economically mineable part of a Measured Mineral Resource demonstrated by at least a Preliminary Feasibility Study.*

5.1 INTRODUCTION

The additional diamond drilling during 1998, indicated that the quartz zone was wider and more expensive than previous reported and provided additional assay data for the central and eastern portion of the Site No. 3 zone. With this new data, a revised mineral resource calculation was conducted by the author.

The grade of the silica was obtained from the analysis completed by SKW Canada for all percussion drill holes and the 1989 diamond drilling. Their analysis indicated the percentage of contaminants: Fe_2O_3, Al_2O_3, CaO, and TiO_2. The percentage of silica was obtained from subtracting the total of all the contaminants from 100%. This was the analytical practice for the evaluation and grade control for silica which was to be processed into silicon metal at the SKW Canada facility.

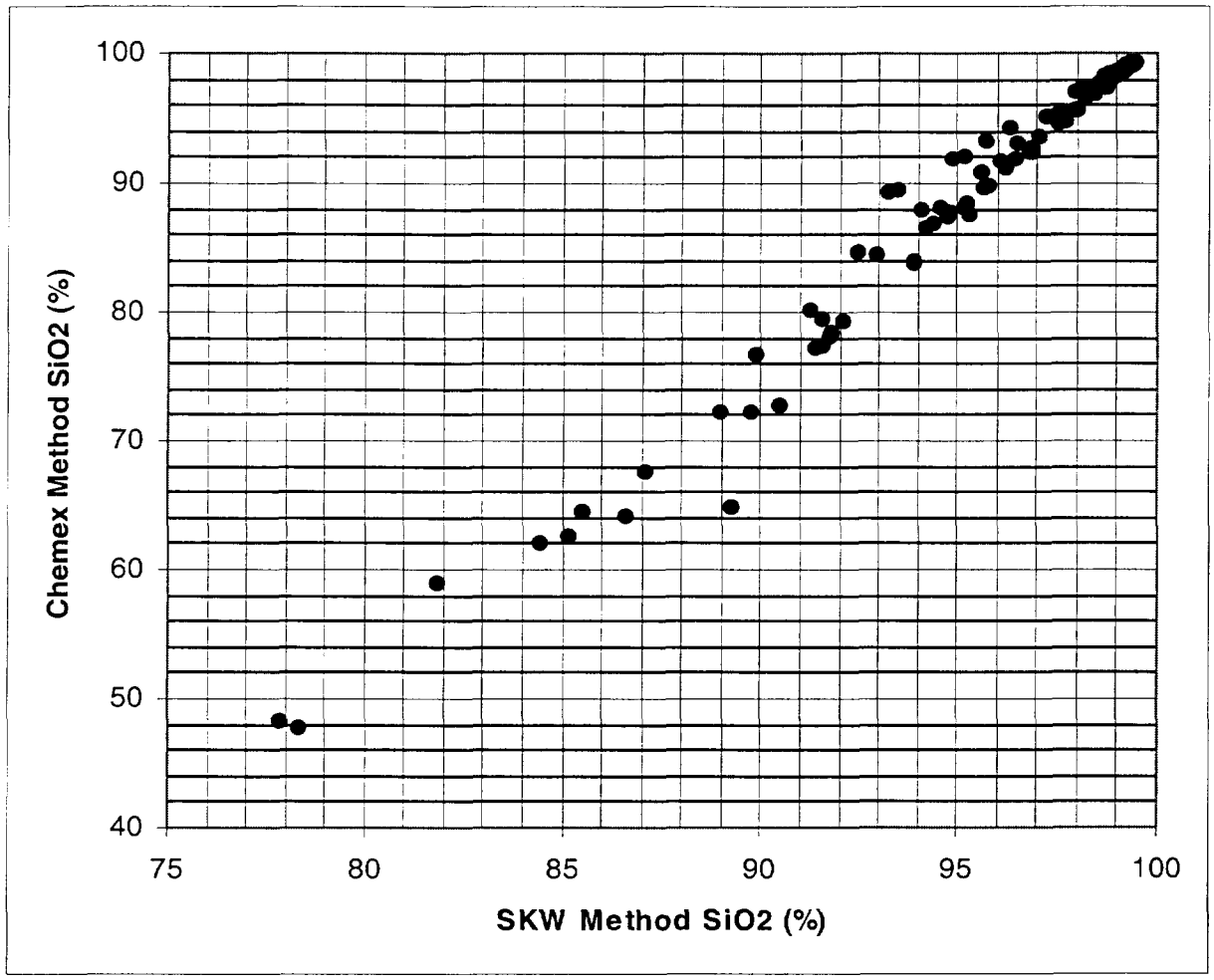
The 1998 diamond drill analyses were completed by Chemex Labs Ltd. The diamond drill report was filed for assessment work with MNDM. The assay package was a 11-oxide package plus Loss on Ignition (LOI) and included SiO_2 plus an additional 35 element suite. The above mentioned report has both the Chemex SiO_2 and the calculated SKW SiO_2. For the purpose of this mineral resource report and for the consistency used throughout the history of the Roseval Project, the SKW method of calculating the silica content was used. Figure 19 illustrates the comparison of the Chemex analysis verses the SKW method for 149 intervals.

One of the difficulties encountered during this mineral resource calculation was some of the percussion drill holes had a percentage description for the silica without the analytical results which totalled 46 intersections. A total of 275 intervals had both the percentage descriptions for the silica and an analytical result.

In the category of +99% SiO_2 analysis, there were 191 intervals with a +95% silica description, 2 with a 90% silica description and 2 with a 75% silica description.

In the category of 97.5% to 99% SiO_2 analysis, there were 22 intervals with a

Figure 19: The Chemex Analysis verses the SKW Method for SiO_2.



Note: Total comparison equal 149 assays intervals.

+95% silica description, 12 with a 90% silica description, 3 with a 85% silica description, 1 with a 75% silica description and 1 with a 50% silica description.

In the category of 95% to 97.5% SiO_2 analysis, there were 9 intervals with a +95% silica description, 9 with a 90% silica description, 1 with a 85% silica description, 2 with a 80% silica description and 1 with a 75% silica description.

In the category of 90% to 95% SiO_2 analysis, there was 1 interval with a +95% silica description, 9 with a 90% silica description, 1 with a 85% silica description, 3 with a 80% silica description, 1 with a 75% silica description, 1 with a 60% silica description and 3 with a 50% silica description.

Of the 46 intervals with only a silica description, 18 intervals had a description of +95% silica, 2 intervals had a description of 90% silica, 1 interval had a description of 85% silica, 3 intervals had a description of 80% silica, 3 intervals had a description of 75% silica, 3 intervals had a description of 60% silica, 2 intervals had a description of 55% silica and 13 intervals had a description of 50% silica.

5.2 METHOD OF CALCULATIONS

The mineral resource calculation was manually computed by the "Linear Reserves - Cross-Section Method". The area of influence on a drill section was taken to 25 feet for Measured, from 25 to 50 feet for Indicated and from 50 to 100 feet for Inferred Resource categories. When 2 intersections were within 25 feet, ½ the distance to the adjacent drill hole section was used to limit the block size. The quartz zone area was calculated in square feet for each drill section and the average grade of silica.

A similar distance was used within the boundaries of the drill section. Some of the mineralized blocks from one drill section could be projected to the adjacent drill sections. The original Measured block when projected to adjacent sections would become Indicated while the original Indicated block when projected to adjacent sections would become Inferred. Generally the projections of the original Indicated block to the adjacent sections were from 50 to 75 feet and rarely to 100 feet.

The geology, structural features and assays were added to each drill section to assist in the interpretation, delineate of the quartz zones or veins and the ore grade blocks on the drill sections.

5.3 MINERAL RESOURCE PARAMETERS

The cut-off grade is the assay value used to distinguish between ore and waste. Material at or in excess of the cut-off grade is considered to be ore and material below the cut-off grade was considered waste.

Previous authors have used the criteria of +90% to 95% and +95% silica assays for the mineral resource cut-off. The previous production history and records indicated that the minimum silica grade was 97% silica which could be upgraded to the economic +99% silica ore.

From past production history and commercial contracts, silica with values of 75% or 80% and higher was sold as smelter flux, while the 97% and higher pit grades could be upgraded through the sorting process to a +99% grade and could be sold as material for the production of silicon metal.

In this report, the author has used the following silica percentage categories to define the mineral or ore grades: 80% to 85%, 85% to 90%, 90% to 95% and 95% to 97%, 97% to 99% and +99% silica for the mineral resource calculations.

The specific gravity used in the tonnage calculations for the Site No. 3 high quality silica zone was 2.65 gm/cc or 12.1 cubic feet per ton (2000 pound short ton).

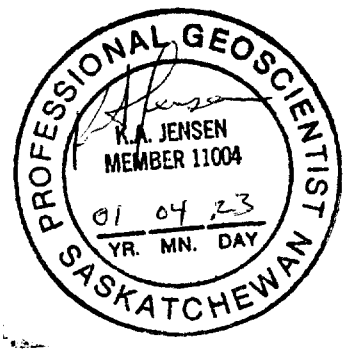
5.4 MINERAL RESOURCE CALCULATIONS

The Resource Drill Sections, Figures 20 to 32 inclusively, indicate the blocks used for the resource calculations. These figures do not indicate the blocks that have been projected from adjacent sections. The results of the resource calculations are summarized in Table 5 while the results of each drill section are indicated in Table 6.

Table 5: Summary of Resource Calculations

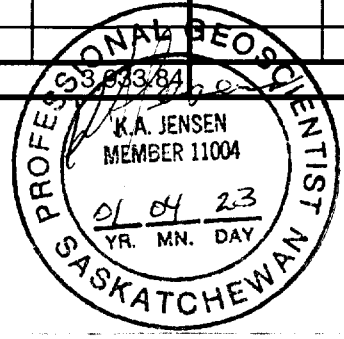
Range % SiO_2	Grade % SiO_2	Measured (tons)	Grade % SiO_2	Indicated (tons)	Grade % SiO_2	Inferred (tons)
99+	99.429	119,620	99.338	102,323.20	99.326	165,257
97.5 to 99	98.305	73,619	98.287	86,177.67	98.250	153,458
95 to 97.5	96.405	21,465	96.447	25,665.85	96.405	40,163
90 to 95	92.490	33,030	92.388	39,939.68	92.376	60,846
85 to 90	88.143	24,320	88.119	30,956.84	87.991	59,233
80 to 85	82.278	8,348	82.284	11,279.61	82.400	22,283
Totals	**96.596**	**280,402**	**96.024**	**296,343**	**95.827**	**501,240**

A total mineral resource for Site No. 3 which includes all the above categories is 1,077,984 tons with an overall grade of 96.081% SiO_2.



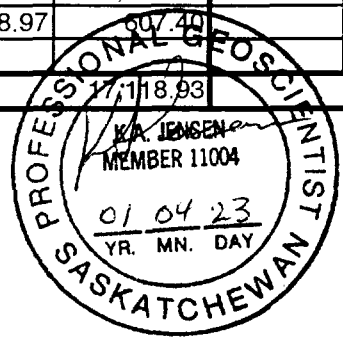
	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 0+00E	99+	99.358	2,389.17	99.52	1,325.43	99.52375	2,038.20
	97.5 to 99	98.496	2,588.22	98.50	1,684.88	98.50216	3,077.77
	95 to 97.5	96.742	1,010.62	96.74	1,010.62	96.742	1,063.31
	90 to 95						
	85 to 90						
	80 to 85						
Projected from Sec 0+50W	99+						
	97.5 to 99						
	95 to 97.5						
	90 to 95						
	85 to 90						
	80 to 85						
Projected from Sec 0+50E	99+						
	97.5 to 99						
	95 to 97.5						
	90 to 95						
	85 to 90						
	80 to 85						
Totals			5,988.02		4,020.93		6,179.28

	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 0+50E	99+	99.518	3,786.69	99.52	3,124.17	99.51867	5,442.29
	97.5 to 99			98.47	809.67	98.49252	1,033.31
	95 to 97.5					96.742	117.02
	90 to 95						
	85 to 90						
	80 to 85						
Projected from Sec 0+00	99+						
	97.5 to 99						
	95 to 97.5						
	90 to 95						
	85 to 90						
	80 to 85						
Projected from Sec 1+00E	99+						
	97.5 to 99						
	95 to 97.5						
	90 to 95						
	85 to 90						
	80 to 85						
Totals			3,786.69		3,933.84		6,592.62



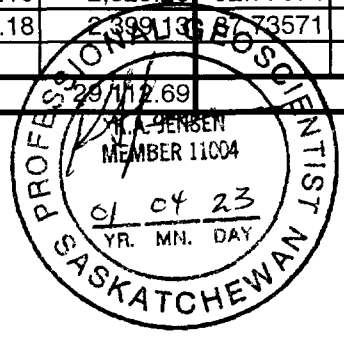
	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 1+00E	99+	99.554	3,093.35				
	97.5 to 99	98.671	3,168.18	98.68	1,033.06	98.677	2,066.12
	95 to 97.5	95.921	3,293.10	96.40	5,291.57	96.39718	10,583.14
	90 to 95	94.031	1,695.45				
	85 to 90	89.420	847.73				
	80 to 85						
Projected from Sec 0+50E	99+						
	97.5 to 99						
	95 to 97.5						
	90 to 95						
	85 to 90						
	80 to 85						
Projected from Sec 1+50E	99+						
	97.5 to 99						
	95 to 97.5						
	90 to 95						
	85 to 90						
	80 to 85						
Totals			12,097.81		6,324.63		12,649.26

	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 1+50E	99+	99.352	2,948.39	99.37	2,330.17	99.34059	3,345.70
	97.5 to 99	98.084	671.36	98.00	323.35	98	646.69
	95 to 97.5	96.204	1,941.45	96.20	1,406.22	96.20367	1,941.45
	90 to 95	93.848	1,120.12	93.85	992.52	93.8475	1,293.39
	85 to 90						
	80 to 85						
Projected from Sec 1+00E	99+			99.28	477.05		
	97.5 to 99			98.71	1,163.74	98.677	516.53
	95 to 97.5			96.61	591.76	96.686	1,630.62
	90 to 95			93.99	576.07		
	85 to 90			89.42	190.74		
	80 to 85						
Projected from Sec 2+00E	99+			99.41	3,180.35	99.33687	1,528.01
	97.5 to 99			98.06	1,938.16	98.26894	929.94
	95 to 97.5			96.70	1,924.94	96.67503	1,759.78
	90 to 95			93.90	1,416.47	93.92446	1,264.06
	85 to 90			88.97	507.40		
	80 to 85						
Totals			6,681.32		17,118.93		14,856.17



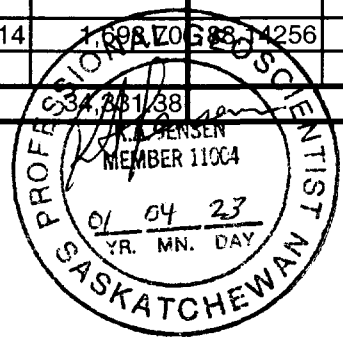
	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 2+00E	99+	99.408	6,108.47	99.34	3,314.09	99.35979	3,663.80
	97.5 to 99	98.238	5,695.54	98.45	3,507.73	98.32557	4,469.75
	95 to 97.5	96.697	3,849.88	96.68	3,519.57	96.6833	4,535.33
	90 to 95	93.889	3,104.63	93.89	3,104.67	93.83585	4,990.08
	85 to 90	88.968	1,214.79	88.97	1,214.79	88.968	2,429.59
	80 to 85						
Projected from Sec 1+50E	99+			99.44	1,117.31	99.40779	846.61
	97.5 to 99			98.13	207.69		
	95 to 97.5			96.20	835.25	96.20367	1,350.56
	90 to 95			93.85	560.06	93.8475	495.33
	85 to 90						
	80 to 85						
Projected from Sec 2+50E	99+			99.61	3,402.67	99.6696	2,834.01
	97.5 to 99			98.81	931.28	98.72353	1,106.86
	95 to 97.5						
	90 to 95			91.55	1,618.16	91.47446	1,594.92
	85 to 90						
	80 to 85						
Totals			19,973.31		23,333.26		28,316.84

	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 2+50E	99+	99.663	8,237.36	99.66	4,814.83	99.66883	7,629.01
	97.5 to 99	98.803	1,923.47	98.83	1,258.60	98.8397	2,755.99
	95 to 97.5	97.123	1,136.78	97.19	1,011.94	97.08832	1,515.79
	90 to 95	91.470	3,428.10	91.24	2,865.68	91.64034	4,073.88
	85 to 90						
	80 to 85						
Projected from Sec 2+00E	99+			99.34	1,984.77	99.31514	2,566.98
	97.5 to 99			98.28	1,707.00	98.48669	2,653.31
	95 to 97.5			96.68	1,762.19	96.71819	2,878.37
	90 to 95			93.89	1,543.84	93.93182	2,371.73
	85 to 90			88.97	566.65	88.968	648.78
	80 to 85						
Projected from Sec 3+00E	99+			99.55	2,884.65	99.30831	2,295.76
	97.5 to 99			98.05	3,301.86	97.9714	6,870.62
	95 to 97.5			96.66	682.27	96.65665	391.57
	90 to 95			93.10	2,329.26	92.77074	2,642.00
	85 to 90			88.18	2,399.13	87.73571	5,210.43
	80 to 85						
Totals			14,725.70		29,112.69		44,504.23



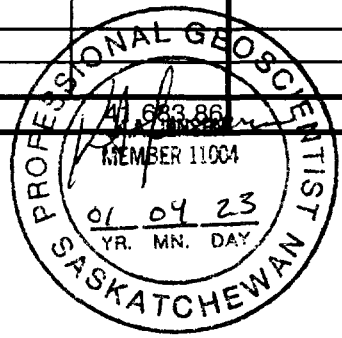
	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 3+00E	99+	99.556	9,509.05	99.39	4,190.19	99.34127	7,250.12
	97.5 to 99	98.279	12,237.02	98.15	9,380.27	98.15234	10,436.94
	95 to 97.5	96.657	1,404.96	96.66	783.14	96.65665	1,404.96
	90 to 95	92.562	7,849.38	92.32	5,454.15	94.773	1,610.91
	85 to 90	88.180	4,798.26	87.99	3,968.84	87.64058	3,465.95
	80 to 85						
Projected from Sec 2+50E	99+			99.63	350.04	99.63	1,845.00
	97.5 to 99						
	95 to 97.5						
	90 to 95			90.04	159.03	90.0415	809.24
	85 to 90						
	80 to 85						
Projected from Sec 3+50E	99+			99.28	1,068.88	99.28354	4,705.35
	97.5 to 99			97.93	431.32	97.93111	414.96
	95 to 97.5			95.39	158.49	95.38682	1,067.98
	90 to 95			92.62	1,977.67	92.58064	6,087.25
	85 to 90			87.80	160.64	87.90981	8,847.58
	80 to 85			81.87	1,063.99	81.88153	4,289.11
Totals			35,798.68		29,146.65		52,235.35

	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 3+50E	99+	99.404	18,293.45	99.33	8,341.92	99.28463	14,545.87
	97.5 to 99	97.931	862.64	97.93	651.03	97.93111	1,302.07
	95 to 97.5	95.387	1,818.97	95.39	1,818.97	95.38682	2,299.30
	90 to 95	92.712	8,569.55	92.47	5,301.61	92.38248	9,499.83
	85 to 90	88.505	4,151.12	88.42	3,444.69	88.31198	5,719.13
	80 to 85	81.891	4,751.90	81.89	4,751.90	81.88566	6,879.88
Projected from Sec 3+00E	99+			99.35	935.10	99.23607	1,337.04
	97.5 to 99			98.88	702.48	98.15702	3,270.06
	95 to 97.5			96.66	194.75	96.65665	40.33
	90 to 95			92.52	2,714.57	92.4413	5,106.22
	85 to 90			89.35	756.82	89.352	563.55
	80 to 85						
Projected from Sec 4+00E	99+						
	97.5 to 99			98.52	3,018.84	98.27916	7,055.52
	95 to 97.5						
	90 to 95						
	85 to 90			88.14	1,698.70	88.14256	1,698.70
	80 to 85						
Totals			38,447.62		34,331.38		59,317.49



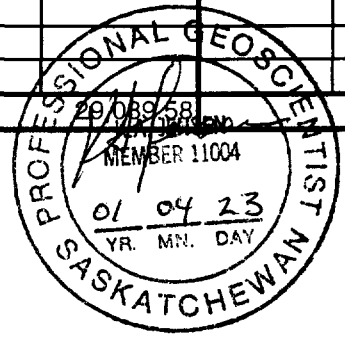
	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 4+00E	99+	99.141	950.54	99.14	475.27	99.141	950.54
	97.5 to 99	98.243	25,791.69	98.24	22,222.23	98.25457	43,837.85
	95 to 97.5						
	90 to 95						
	85 to 90	88.143	3,215.25	88.14	1,652.40	88.14256	3,304.79
	80 to 85						
Projected from Sec 3+50E	99+					99.2834	1,766.38
	97.5 to 99						
	95 to 97.5					95.38682	375.97
	90 to 95			92.29	1,536.67	92.43523	4,822.67
	85 to 90					88.249	566.32
	80 to 85			81.87	514.79	81.87748	2,342.17
Projected from Sec 4+50E	99+			99.24	2,307.09	99.2433	5,519.79
	97.5 to 99			98.59	1,165.31	98.59429	2,126.59
	95 to 97.5			96.52	425.68	96.52452	1,709.32
	90 to 95			90.40	602.21	90.40475	2,005.14
	85 to 90			87.43	3,194.63	87.46081	8,802.73
	80 to 85						
Totals			29,957.48		34,096.28		78,130.27

	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 4+50E	99+	99.417	15,642.73	99.36	13,318.22	99.31211	11,576.86
	97.5 to 99	98.594	3,902.27	98.46	5,308.88	98.51515	7,718.43
	95 to 97.5	96.327	4,120.74	96.41	3,592.98	96.32586	4,129.92
	90 to 95	90.405	2,805.87	90.40	2,805.87	90.40475	2,805.87
	85 to 90	87.543	8,543.31	87.58	7,169.46	87.52277	9,459.09
	80 to 85						
Projected from Sec 4+00E	99+			99.14	475.27	99.141	950.54
	97.5 to 99			98.09	7,405.56	98.08444	19,503.86
	95 to 97.5						
	90 to 95						
	85 to 90			88.14	1,607.62	88.14256	3,260.02
	80 to 85						
Projected from Sec 5+00E	99+						
	97.5 to 99						
	95 to 97.5						
	90 to 95						
	85 to 90						
	80 to 85						
Totals			35,014.92		41,683.86		59,404.59



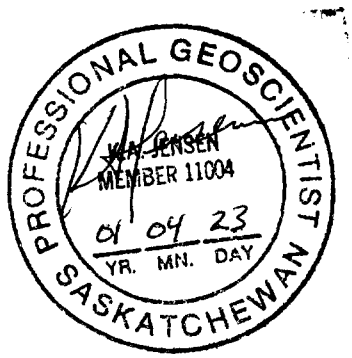
	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 5+00E	99+	99.380	47,689.44	99.24	25,095.37	99.35876	15,315.23
	97.5 to 99	98.323	15,176.55	98.29	11,332.58	97.9726	6,563.67
	95 to 97.5	96.190	475.05	96.19	418.00	96.19	475.05
	90 to 95	91.555	3,553.95	91.82	2,604.19	91.69347	3,215.46
	85 to 90	89.017	1,549.55	89.02	1,549.55	89.01667	1,549.55
	80 to 85	82.788	3,595.62	82.80	3,151.12	84.54796	2,025.35
Projected from Sec 4+50E	99+						
	97.5 to 99						
	95 to 97.5						
	90 to 95						
	85 to 90						
	80 to 85						
Projected from Sec 5+50E	99+						
	97.5 to 99						
	95 to 97.5						
	90 to 95						
	85 to 90						
	80 to 85						
Totals			72,040.15		44,150.81		29,144.30

	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 5+50E	99+	99.410	971.54				
	97.5 to 99	97.529	1,602.44				
	95 to 97.5	97.077	2,413.43				
	90 to 95	94.392	902.69				
	85 to 90						
	80 to 85						
Projected from Sec 5+00E	99+			99.23	17,810.35	99.27012	49,441.65
	97.5 to 99			98.27	6,692.16	98.27213	18,409.08
	95 to 97.5			96.19	237.53	96.19	655.52
	90 to 95			91.56	1,776.97	91.71135	4,381.16
	85 to 90			89.02	774.77	89.01667	2,324.32
	80 to 85			82.79	1,797.81	82.79328	4,948.93
Projected from Sec 6+00E	99+						
	97.5 to 99						
	95 to 97.5						
	90 to 95						
	85 to 90						
	80 to 85						
Totals			5,890.10		29,089.58		80,160.66



	Range (% SiO2)	Grade (% SiO2)	Measured (tons)	Grade (% SiO2)	Indicated (tons)	Grade (% SiO2)	Inferred (tons)
SECTION 6+00E	99+						
	97.5 to 99						
	95 to 97.5						
	90 to 95						
	85 to 90						
	80 to 85						
Projected from Sec 5+00E	99+					99.23436	17,862.04
	97.5 to 99					98.27	6,692.16
	95 to 97.5					96.19	237.53
	90 to 95					91.55539	1,776.97
	85 to 90					89.01667	774.77
	80 to 85					82.78819	1,797.81
Projected from Sec 6+50E	99+						
	97.5 to 99						
	95 to 97.5						
	90 to 95						
	85 to 90						
	80 to 85						
Totals			0.00		0.00		29,141.28

99.358	2,389.17	99.522	1,325.43
99.518	3,786.69	99.520	3,124.17



6.0 CONCLUSIONS AND RECOMMENDATIONS

From past experience and mining practices, high quality silica can be obtained from the 97.5% SiO_2 and above. The total Measured Resource above 97.5% SiO_2 is 193,240 tons (175,672 tonne) with an averaged grade of 99.001% while the Indicated Resource above 97.5% SiO_2 is 188,500 tons (171,364 tonne) with an averaged grade of 98.86% SiO_2. The Inferred Resource above 97.5% SiO_2 is 318,715 tons (289,740 tonne) with an averaged grade of 98.81% SiO_2.

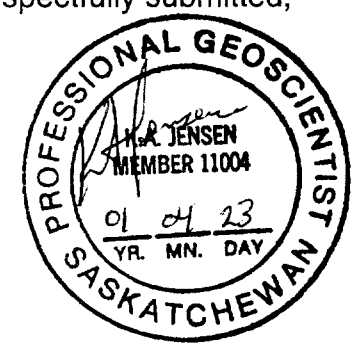
In comparing the previous reserve calculations (Jensen, 1994) which included all categories above 97.5% SiO_2 was 416,225 tonne compared with the current volume of 700,455 tons or 636,777 tonne.

The complete mining of the Measured and Indicated Resource of Site No. 3 could produce approximately 576,745 tons (524,318 tonne) at an averaged grade of 96.302% SiO_2.

The author recommends that all samples from future percussion exploration drilling be assayed. Generally the production blast pattern is 5 feet by 6 feet. 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.

It appears that the 1998 diamond drill program located additional high grade silica resource and additional drilling is warranted in the vicinity of 5+50 East to 6+50 East. Additional areas in the western portion of the Site No. 3 area should be drilled to located and increase the resources.

Respectfully submitted,



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

Dated at Timmins, Ontario
April 23, 2001

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 Societe 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).

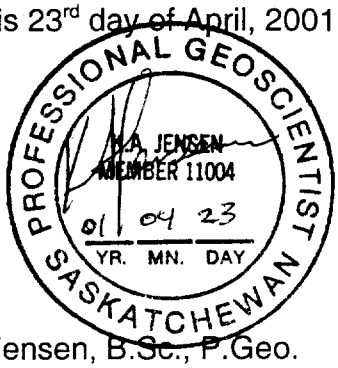
3. I am a member in good standing in the following associations:
   a) Geological Association of Canada - Fellow, 1983
   b) Association of Geoscientists of Ontario
   c) Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS) as a Professional Geoscientist - Member 11004 (1999).

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 23rd day of April, 2001, at Timmins, Ontario



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

Guillet, G.R.
1963 Barite in Ontario; Ontario Department of Mines, Industrial Mineral Report No.10, 42p

Guillet, G.R. and Kriens, J
1984 Ontario and the Mineral Filler Industry; Ontario Ministry of Natural Resources, Mineral Resources Branch, Industrial Background Paper 5 (IMBP 5), 175 p.

Harding, W.D.
1937 Geology of the Horwood Lake Area; Ontario Department of Mines, Annual Report Volume 46, Part 2, 34 p. Accompanied by Map 46a, scale 1 inch to 1 mile.

Milne, V.G. and assistants
1967 Preliminary Geology of Penhorwood Township, District of Sudbury; Ontario Department of Mines, Map No. P-419, scale 1 inch to 1/4 mile.

Milne, V.G.
1972 Geology of the Kukatush-Sewell Lake Area, District of Sudbury; Ontario Division of Mines, GR97, 116p. Accompanied by Maps 2230,2231, scale 1 inch to 1/2 mile.

Resident Geologist Assessment Files
T-495 Arnoit, B.M.
T-506 Canadian John Mansville
T-3237 Roseval Silica Inc.

Vos, M.A.
1981 Silica in Ontario, Industrial Minerals Supplement; Ontario Geological Survey Miscellaneous Paper 85, 36p.

Vos, M.A., Abolins, T., McKnight, R.L.W., and Smith, V.
1987 Industrial Minerals of Northern Ontario; Geological Survey, Mineral Deposits Circular 26, p 272p.

APPENDIX A

The following is a summary of the work conducted by the author, K. Jensen:

BORSURV:
Verify databases, input additional holes, creating the diamond drill sections for AutoCad editing, etc.

Dec 1, 2000	K. Jensen	8 hrs
Dec 4, 2000	K. Jensen	8 hrs
Dec 5, 2000	K. Jensen	8 hrs

AutoCad:
Creating and editing drill sections:

Dec 6, 2000	K. Jensen	8 hrs	Sec 0+00 to 1+00E
Dec 7, 2000	K. Jensen	8 hrs	Sec 1+50E to 2+50E
Dec 8, 2000	K. Jensen	8 hrs	Sec 3+00E to 3+50E
Dec 9, 2000	K. Jensen	8 hrs	Sec 4+00E to 4+50E
Dec 10, 2000	K. Jensen	10 hrs	Sec 5+00E to 6+00E
Jan 8, 2001	K. Jensen	12 hrs	editing Site No. 3 Plan Map
Jan 9, 2001	K. Jensen	6 hrs	editing Site No. 3 Plan Map

Interpretation and AutoCad of Resource Blocks:

April 2, 2001	K. Jensen	12 hrs	Sec 4+50E
April 3, 2001	K. Jensen	10 hrs	Sec 5+00E
April 4, 2001	K. Jensen	10 hrs	Sec 4+00E
April 5, 2001	K. Jensen	12 hrs	Sec 5+50E and 3+50E
April 6, 2001	K. Jensen	8 hrs	Sec 6+00E and 3+00E
April 7, 2001	K. Jensen	12 hrs	Sec 2+50E, 2+00E and 1+50E
April 8, 2001	K. Jensen	8 hrs	Sec 1+00E and 0+00

Resource Calculations of Blocks:

April 9, 2001	K. Jensen	12 hrs
April 10, 2001	K. Jensen	12 hrs
April 11, 2001	K. Jensen	18 hrs

Report Writing:
April 19, 20, 21, 23, 2001 3.5 days

Plotting Sections:
April 24, 2001 1.0 days

REFERENCES

APPENDIX A

The following is a summary of the work conducted by M. Stalker:

BORSURV:
Data input all percussion drill holes and diamond drill holes, verify databases

January 2000	- total 36 hours
February 2000	- total 30 hours
March 2000	- total 35 hours
April 2000	- total 20 hours
May 2000	- total 25 hours

ROSEVAL SILICA INCORPORATED

SITE 3 – AIRTRACK AND DRILL HOLE PLAN

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
25 0 25 50 75 100

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

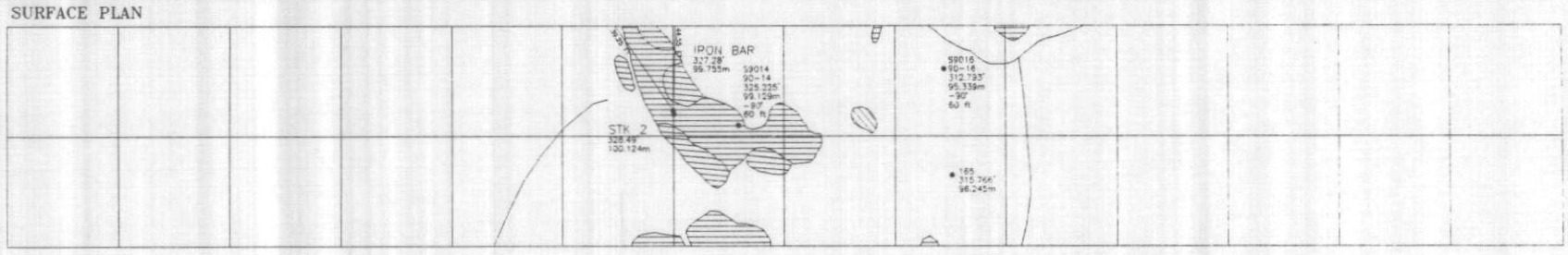
PROJECT NO.:
FILE NO.: Site3-00-p.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

LEGEND

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY
SASKATCHEWAN

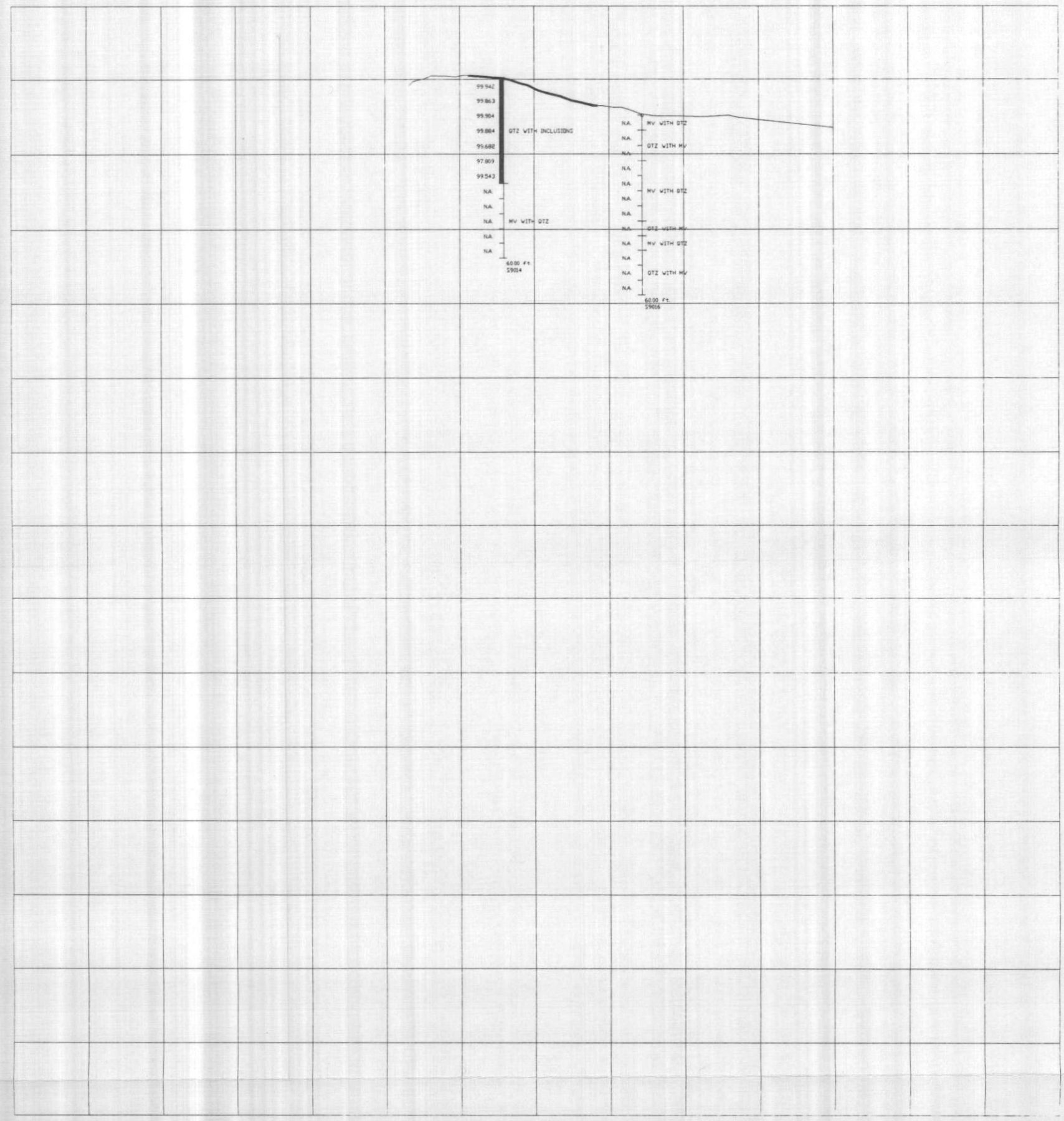
SURFACE PLAN



SECTION 0+50 EAST

SECTION 0+50 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH



LEGEND

589-8	DIAMOND DRILL COMPUTER FILE NUMBER
● RS-89-08	DIAMOND DRILL HOLE NUMBER
304.042'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
590112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
●AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063'	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
○ A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 0+50 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

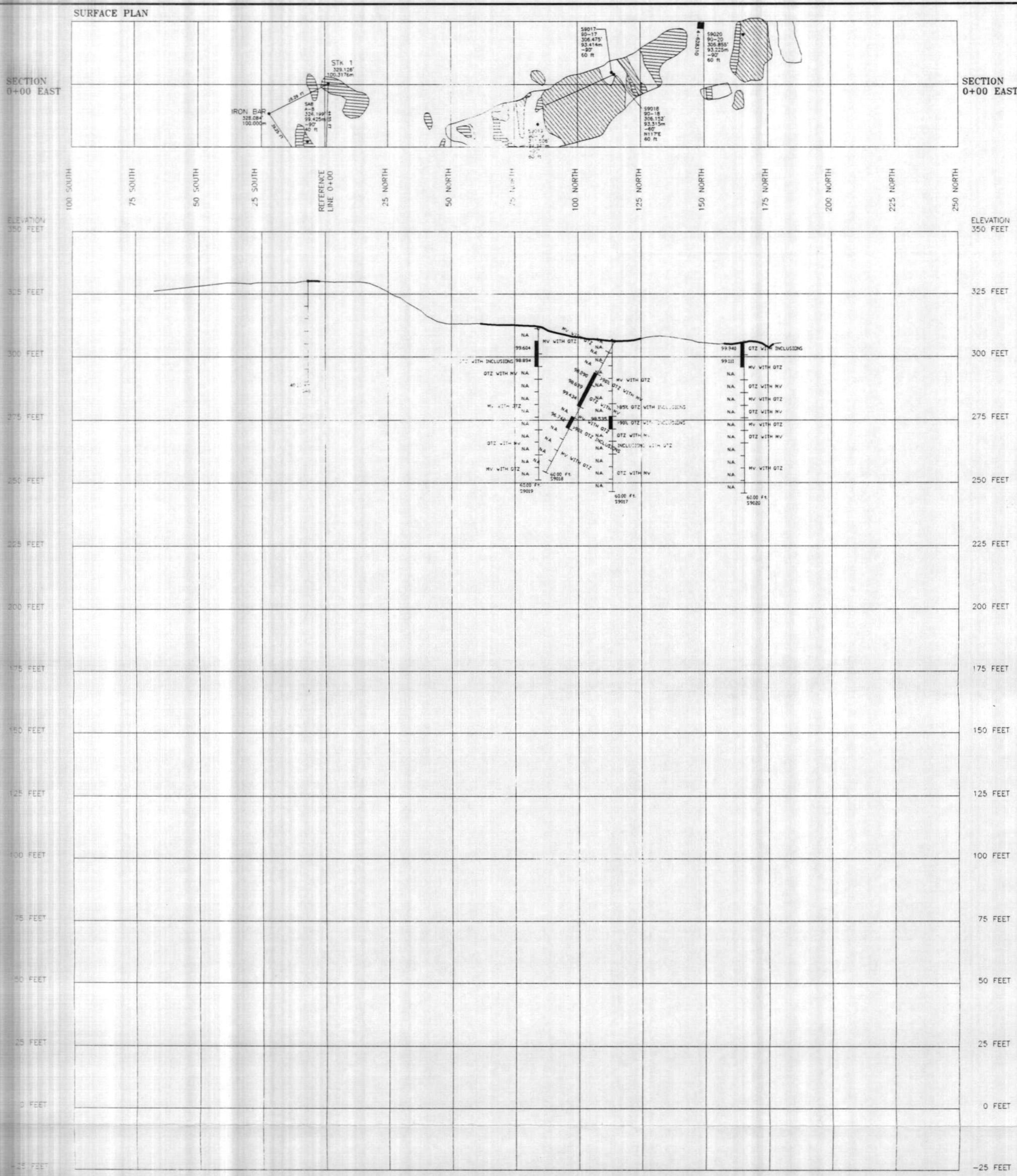
SCALE IN FEET
20 0 20 40 60 80

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-50.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY
SASKATCHEWAN



LEGEND

DIAMOND DRILL COMPUTER FILE NUMBER
DIAMOND DRILL HOLE NUMBER
ELEVATION IN FEET
ELEVATION IN METERS
BEARING OF DRILL HOLE
INCLINATION OF DRILL HOLE
LENGTH OF DRILL HOLE IN FEET

AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
AIRTRACK PERCUSSION DRILL HOLE NUMBER
ELEVATION IN FEET
ELEVATION IN METERS
INCLINATION OF DRILL HOLE
LENGTH OF DRILL HOLE IN FEET

AIRTRACK PERCUSSION DRILL HOLE NUMBER
LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

LESS THAN 90% SILICA
GRANITE OF SILICIFIED VOLCANICS
SILICA PERCENTAGE OVER CORE LENGTH
ESTIMATED AMOUNT OF SILICA
ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 0+00 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

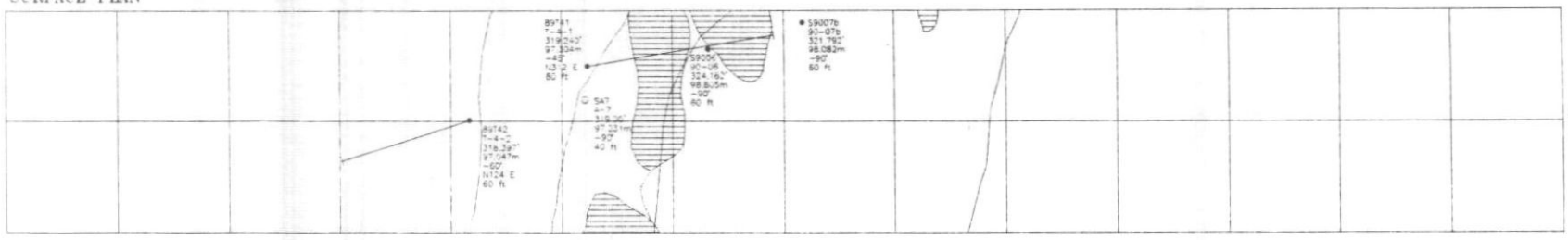
PROJECT NO.:
FILE NO.: S3-000.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY
SASKATCHEWAN

SURFACE PLAN

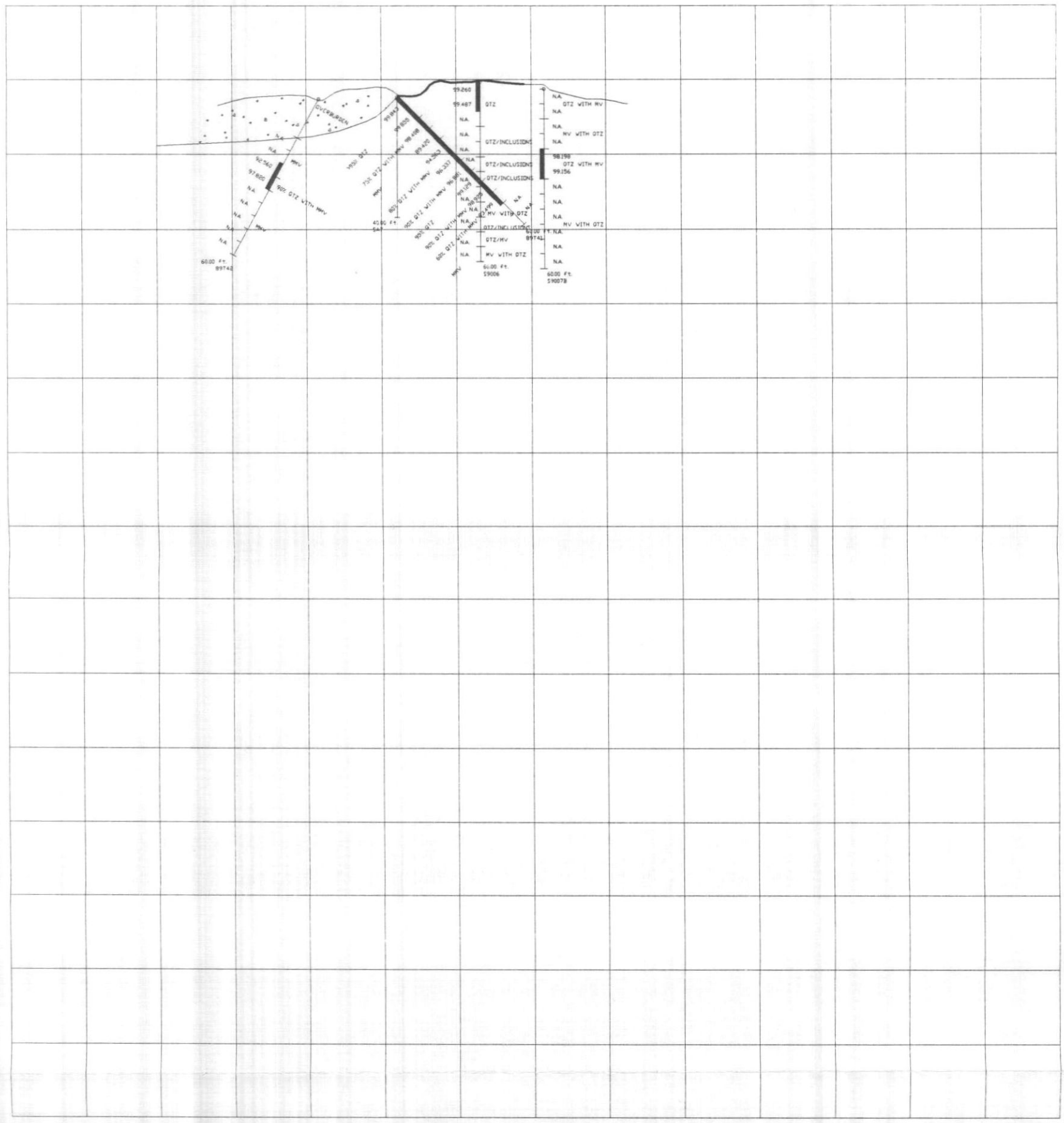
SECTION 1+00 EAST



SECTION 1+00 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET



325 FEET
300 FEET
275 FEET
250 FEET
225 FEET
200 FEET
175 FEET
150 FEET
125 FEET
100 FEET
75 FEET
50 FEET
25 FEET
0 FEET
-25 FEET

LEGEND

589-8	DIAMOND DRILL COMPUTER FILE NUMBER
● RS-89-08	DIAMOND DRILL HOLE NUMBER
304.042'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
590132	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
● AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063'	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
○ A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 1+00 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

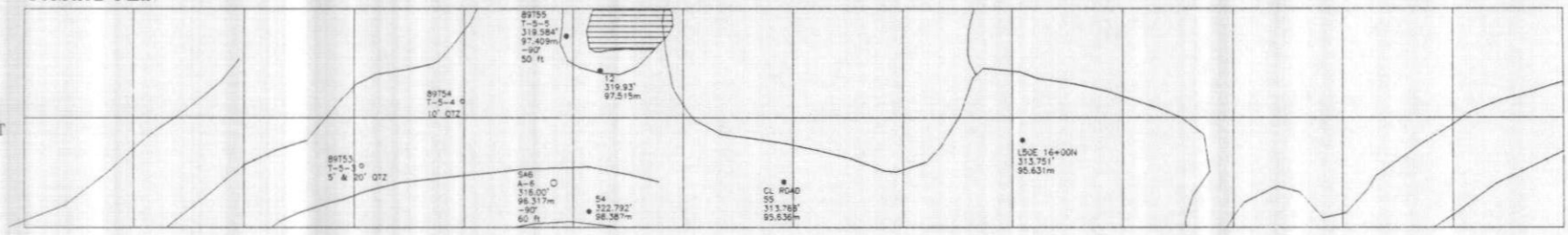
PROJECT NO.:
FILE NO.: S3-100.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY
SASKATCHEWAN

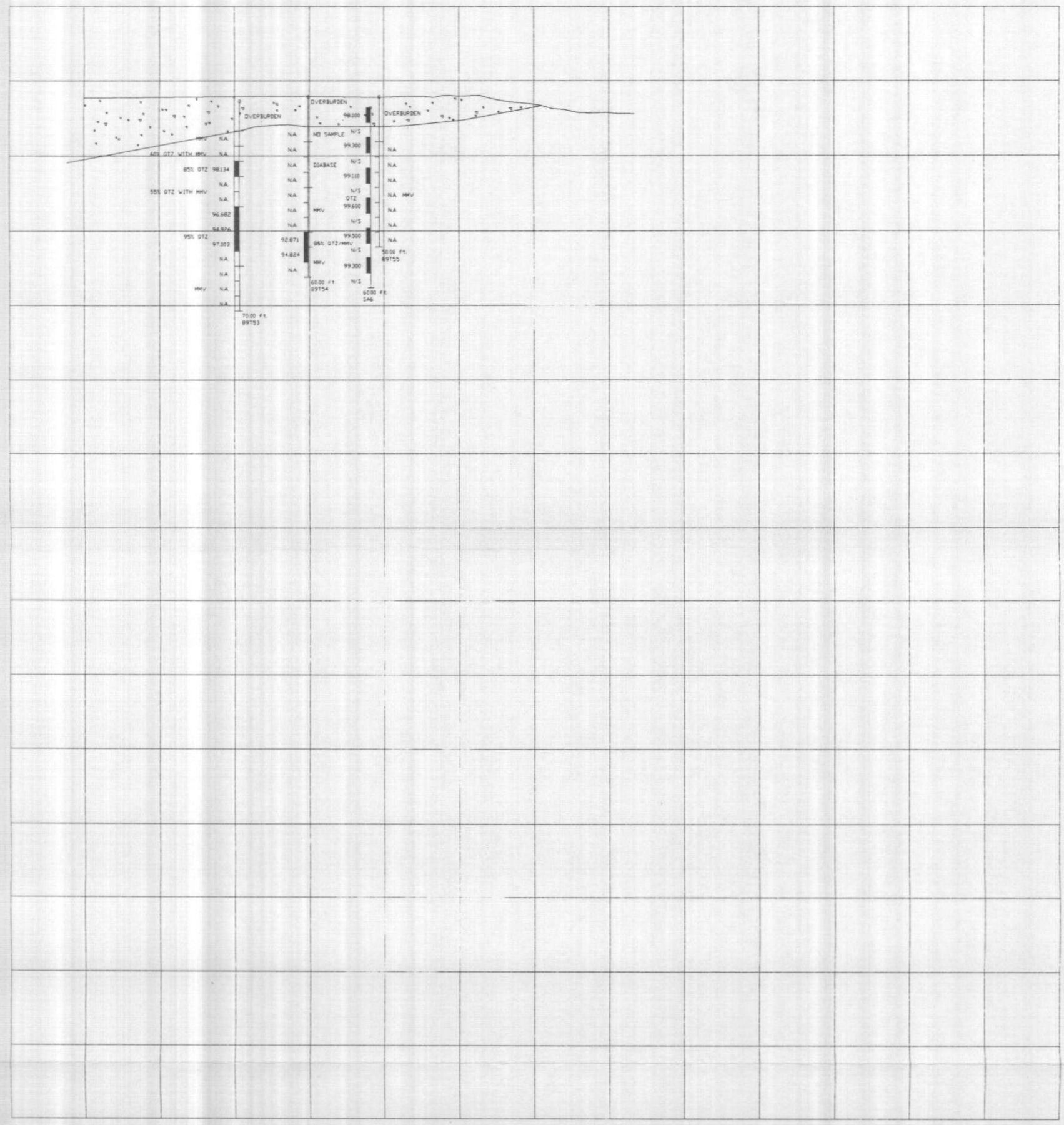
SURFACE PLAN

SECTION 1+50 EAST



SECTION 1+50 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH



LEGEND

589-5	DIAMOND DRILL COMPUTER FILE NUMBER
● 85-89-06	DIAMOND DRILL HOLE NUMBER
304.048'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135°E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
590112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
●AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063'	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-20°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
○ A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET.
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 1+50 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60

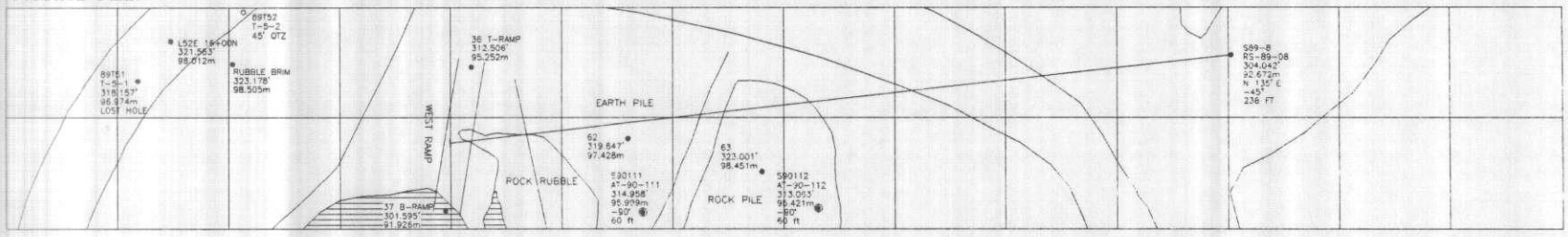
SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-150.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
SASKATCHEWAN
01 04 23
YR. MN. DAY

SURFACE PLAN



SECTION 2+00 EAST

SECTION 2+00 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET

325 FEET

300 FEET

275 FEET

250 FEET

225 FEET

200 FEET

175 FEET

150 FEET

125 FEET

100 FEET

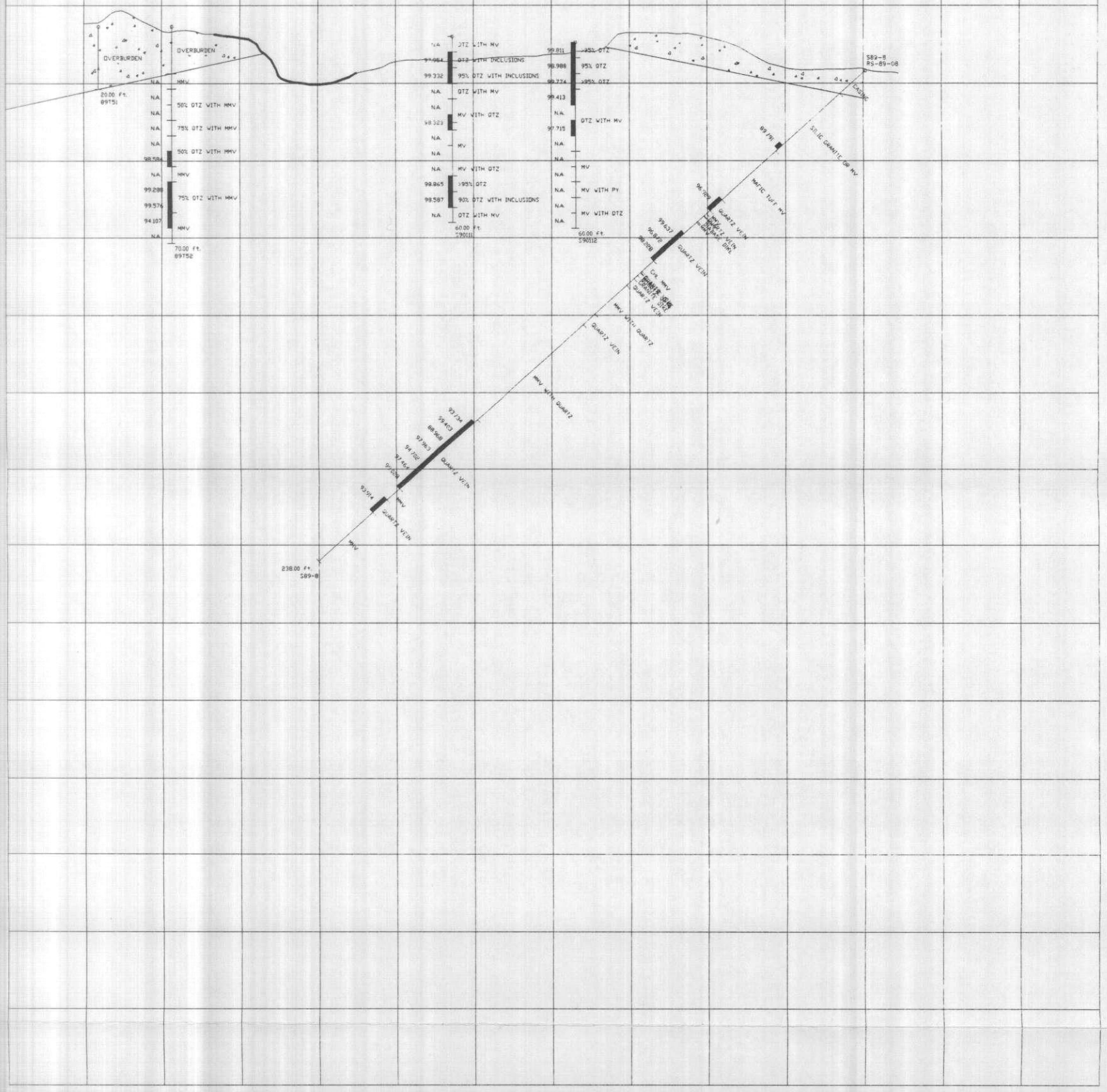
75 FEET

50 FEET

25 FEET

0 FEET

-25 FEET



LEGEND

189-8	DIAMOND DRILL COMPUTER FILE NUMBER
● RS-89-08	DIAMOND DRILL HOLE NUMBER
304.042'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
236 FT	LENGTH OF DRILL HOLE IN FEET
590112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
● AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063'	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
○ AT-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 2+00 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60

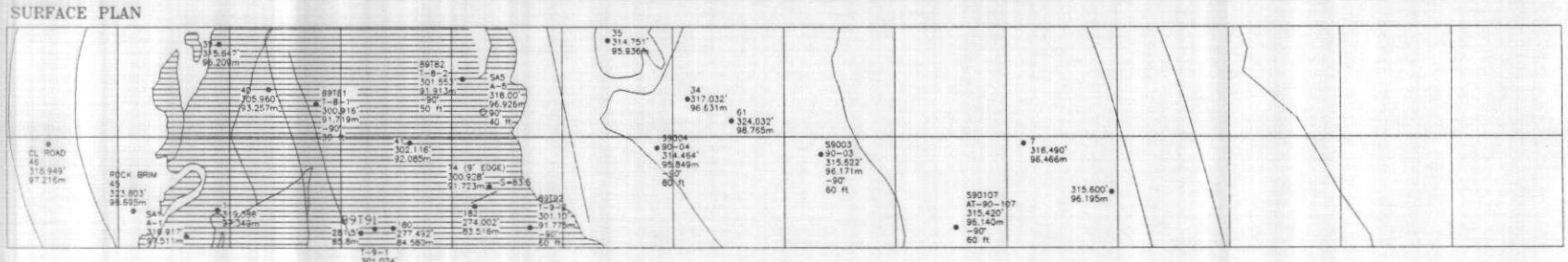
SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-200.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY
SASKATCHEWAN

SURFACE PLAN



LEGEND

12E-8	DIAMOND DRILL COMPUTER FILE NUMBER
● 95-89-08	DIAMOND DRILL HOLE NUMBER
304.042	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 Ft	LENGTH OF DRILL HOLE IN FEET
590112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
● AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.053	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 Ft	LENGTH OF DRILL HOLE IN FEET
○ A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET By 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 - SECTION NO. 2+50 EAST
SECTION LOOKING N 231.25° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

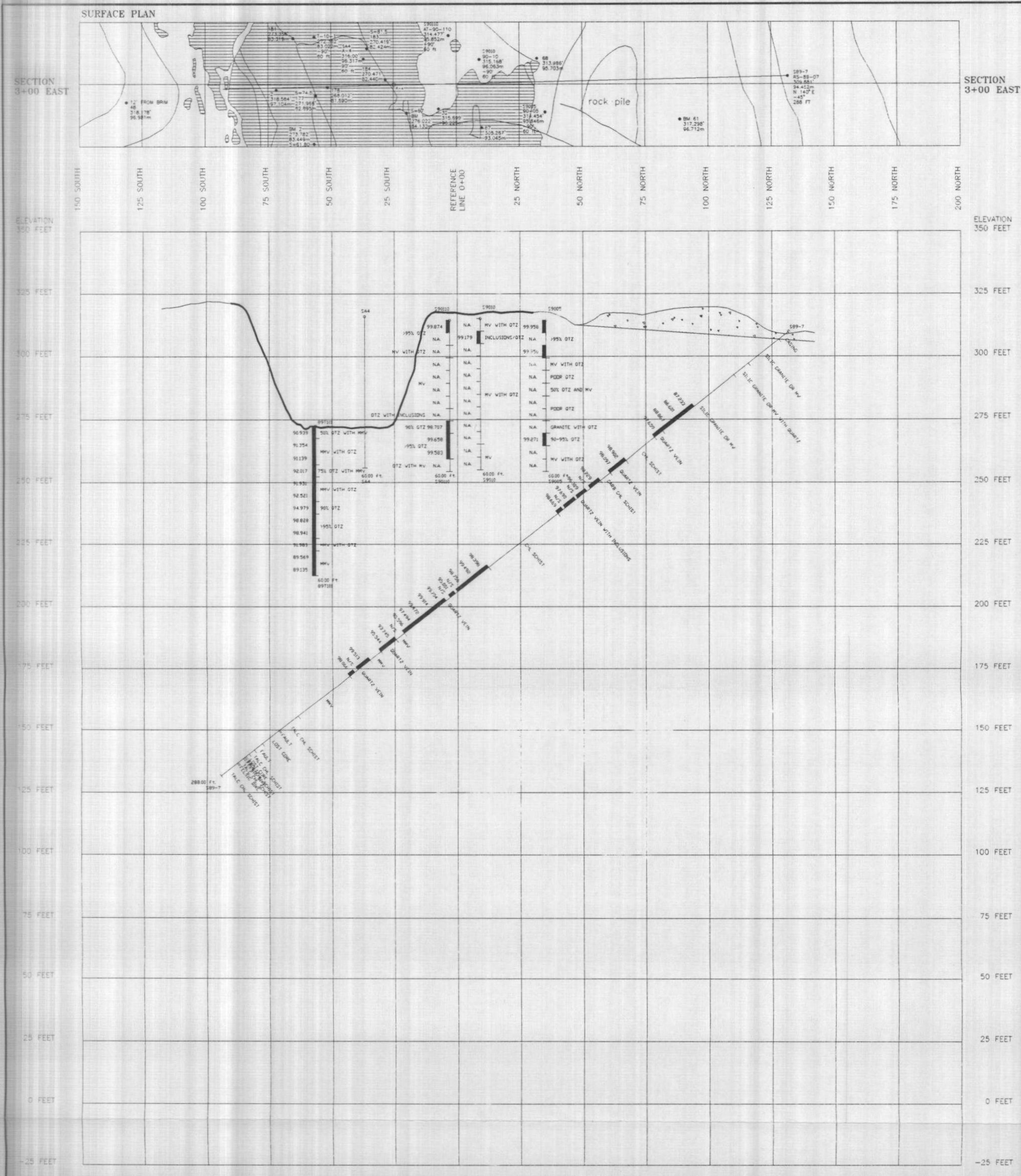
SCALE IN FEET
20 0 20 40 60

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-250.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
SASKATCHEWAN
01 04 23
YR. MN. DAY



LEGEND

S89-8	DIAMOND DRILL COMPUTER FILE NUMBER
■ RS-89-08	DIAMOND DRILL HOLE NUMBER
304.242'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
S90112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
●AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063'	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
○ A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

▬	99+% SILICA
▬	95% TO 99% SILICA
▬	90% TO 95% SILICA
▬	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 - SECTION NO. 3+00 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-300.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
01 04 13
YR. MN. DAY
SASKATCHEWAN

SURFACE PLAN

SECTION 3+50 EAST

SECTION 3+50 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET

325 FEET

300 FEET

275 FEET

250 FEET

225 FEET

200 FEET

175 FEET

150 FEET

125 FEET

100 FEET

75 FEET

50 FEET

25 FEET

0 FEET

-25 FEET

ORIGINAL SURFACE

CURRENT SURFACE

NORTH BENCH

NORTH BENCH ROCK RUBBLE

PROFILE AT 3+50E

PROFILE AT 3+25E

89T121

59002

89T141

377.30 Ft.
S98-3

LEGEND

S89-8	DIAMOND DRILL COMPUTER FILE NUMBER
● RS-89-08	DIAMOND DRILL HOLE NUMBER
304.042'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 155° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
S90112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
● AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063'	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
80 ft	LENGTH OF DRILL HOLE IN FEET
○ A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 3+50 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

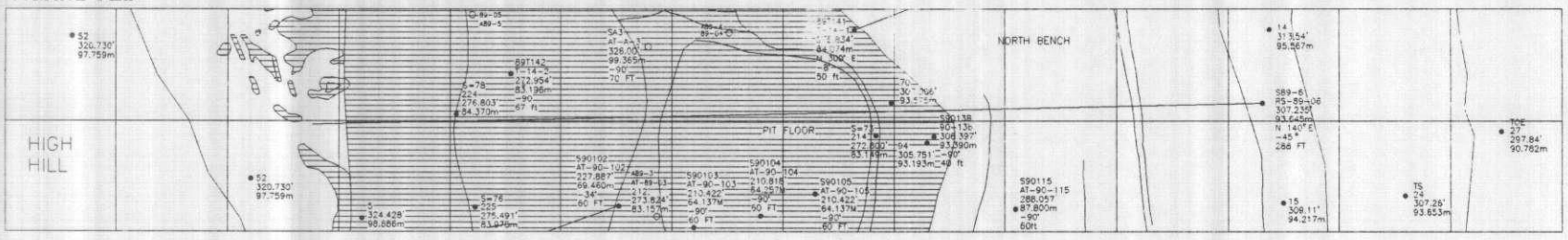
PROJECT NO.:
FILE NO.: S3-350 dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

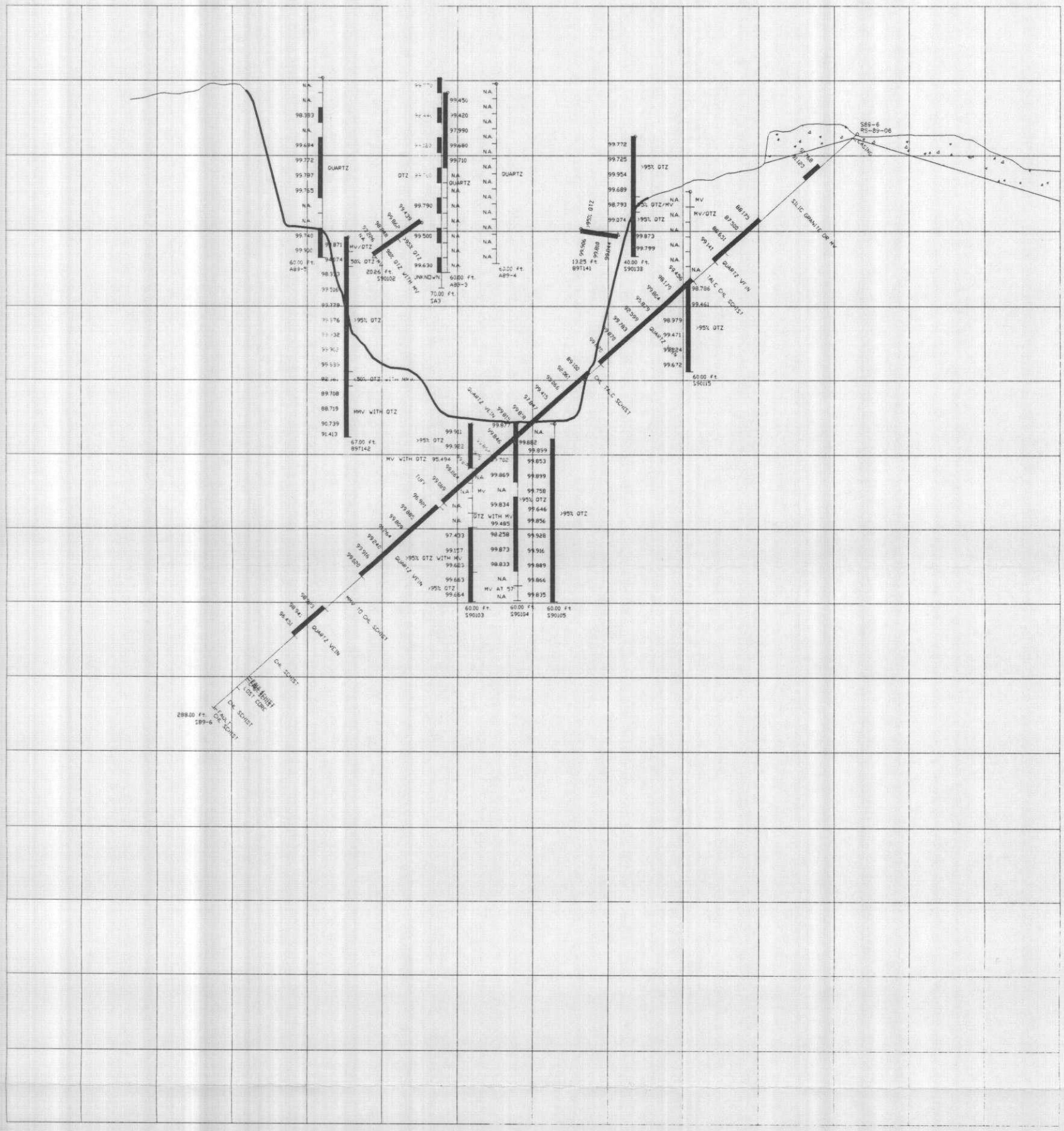
PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY
SASKATCHEWAN

SURFACE PLAN

SECTION 4+00 EAST



SECTION 4+00 EAST



LEGEND

589-6	DIAMOND DRILL COMPUTER FILE NUMBER
● RS-89-06	DIAMOND DRILL HOLE NUMBER
304.042'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
286 FT	LENGTH OF DRILL HOLE IN FEET
S90112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
●AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063'	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
○ A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 - SECTION NO. 4+00 EAST
SECTION LOOKING N 231.25 ° E

PERRIE WOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

SURVEY BY: K.A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.
FILE NO. S3-400.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geoscientists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY
SASKATCHEWAN

SURFACE PLAN

HIGH HILL

SECTION 4+50 EAST

SECTION 4+50 EAST

NORTH BENCH

PIT FLOOR

CL RAMP

125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH | 225 NORTH

ELEVATION 350 FEET

325 FEET

300 FEET

275 FEET

250 FEET

225 FEET

200 FEET

175 FEET

150 FEET

125 FEET

100 FEET

75 FEET

50 FEET

25 FEET

0 FEET

-25 FEET

20.00 ft. SA2

35.00 ft. S90102

60.00 ft. A89-2

12.26 ft. 89T155

18.25 ft. 89T154

11580 ft. 89T152

60.00 ft. S9013

60.00 ft. S90106

34.25 ft. S98-2

QUARTZ

MV WITH QTZ

MV

>95% QTZ

90% QTZ WITH MV

MASSIVE QUARTZ

SILIC MV & QUARTZ VEINS

QUARTZ VEIN & SILIC MV

QUARTZ VEIN

DECOMP'D MV

FAULT & LOST CORE

MAFIC DIKE AND MV

MAFIC DIKE

QUARTZ VEIN & CASIS MV

CASING

LEGEND

S89-8	DIAMOND DRILL COMPUTER FILE NUMBER
* 89-89-08	DIAMOND DRILL HOLE NUMBER
304.042'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
S90112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
* AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063'	ELEVATION IN FEET
95.471m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
○ A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 4+50 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-450.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
SASKATCHEWAN
01 04 23
YR. MN. DAY

SURFACE PLAN

SECTION 5+00 EAST

SECTION 5+00 EAST

RAMP 1990

100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH | 225 NORTH | 250 NORTH

ELEVATION 350 FEET

325 FEET

300 FEET

275 FEET

250 FEET

225 FEET

200 FEET

175 FEET

150 FEET

125 FEET

100 FEET

75 FEET

50 FEET

25 FEET

0 FEET

-25 FEET

CASING

EAST BENCH

NORTH BENCH

RAMP PROFILE EAST OF SECTION

MAIN RAMP 1990

CONVERGED MAIN ZONE AND NORTH ZONE

MASSIVE QUARTZ

QUARTZ VEIN

FAULT

SILIC MHV

CARB MHV

SHEAR MHV

DEFORMED MHV

MAFIC DIKE

90% QTZ WITH MHV

MV WITH QTZ

LEGEND

S89-6	DIAMOND DRILL COMPUTER FILE NUMBER
* RS-89-06	DIAMOND DRILL HOLE NUMBER
304.040'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135°E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
590112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
* AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.043'	ELEVATION IN FEET
95.427m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
O A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PERCENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 5+00 EAST
SECTION LOOKING N 231.25° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60

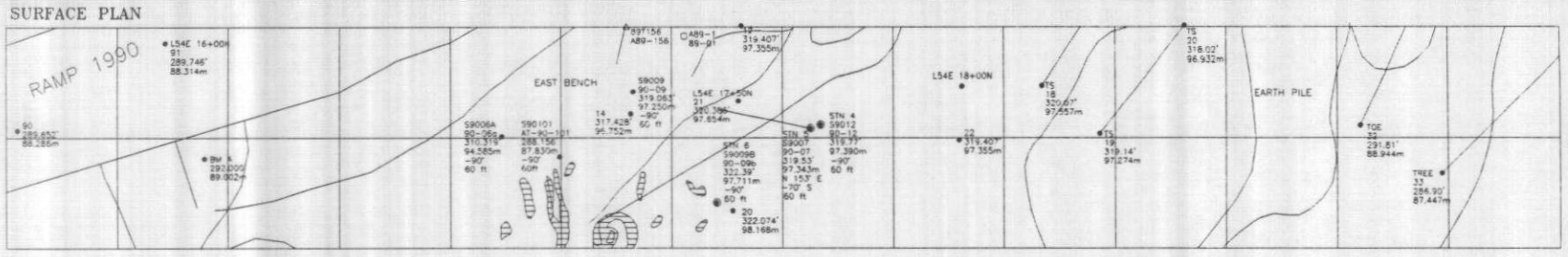
SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-500.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
SASKATCHEWAN
01 04 23
YR. MN. DAY

SURFACE PLAN

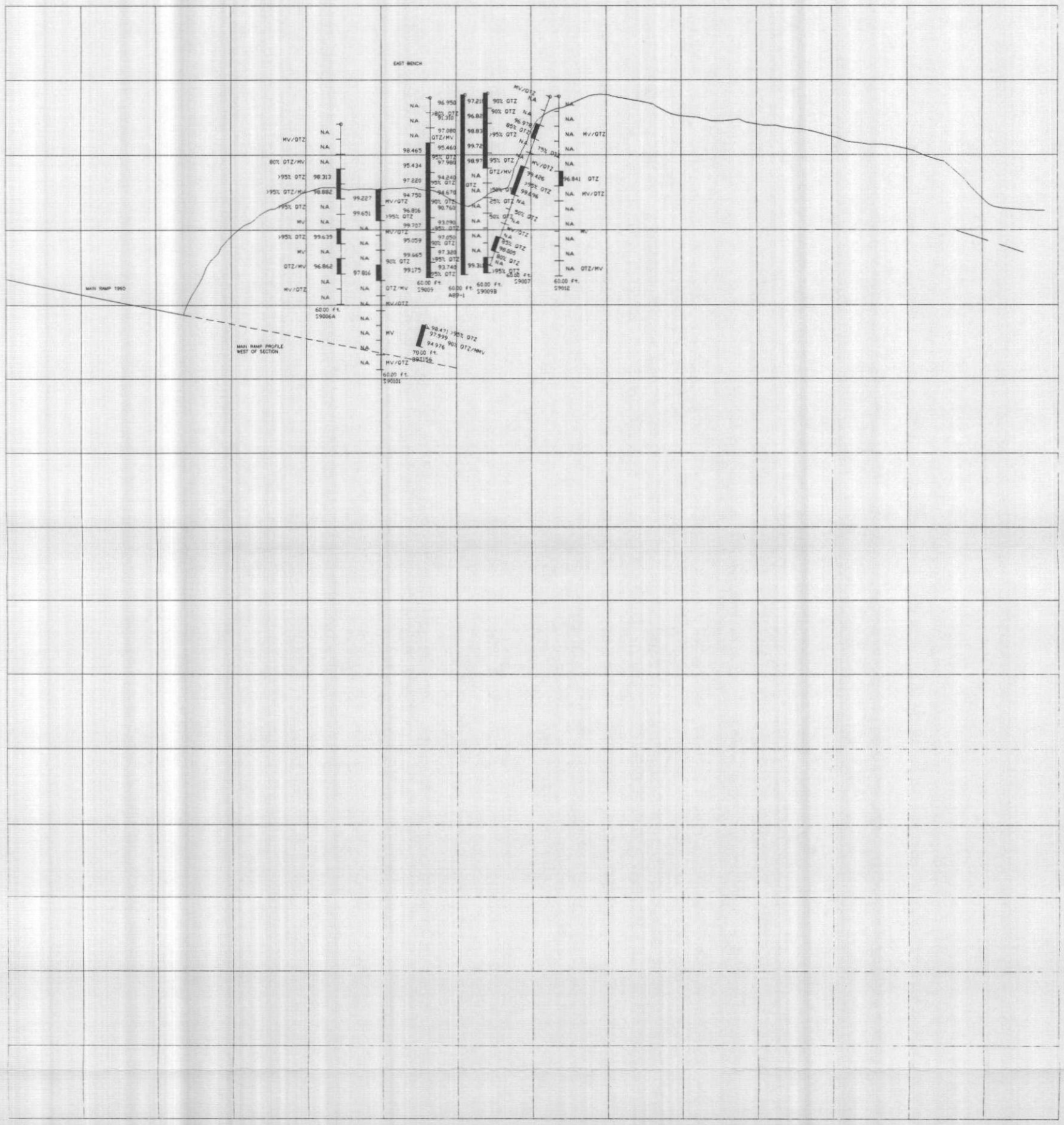


SECTION 5+50 EAST

SECTION 5+50 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 10+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET



325 FEET | 300 FEET | 275 FEET | 250 FEET | 225 FEET | 200 FEET | 175 FEET | 150 FEET | 125 FEET | 100 FEET | 75 FEET | 50 FEET | 25 FEET | 0 FEET | -25 FEET

LEGEND

- DIAMOND DRILL COMPUTER FILE NUMBER
- DIAMOND DRILL HOLE NUMBER
- ELEVATION IN FEET
- ELEVATION IN METERS
- BEARING OF DRILL HOLE
- INCLINATION OF DRILL HOLE
- LENGTH OF DRILL HOLE IN FEET
- AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
- AIRTRACK PERCUSSION DRILL HOLE NUMBER
- ELEVATION IN FEET
- ELEVATION IN METERS
- INCLINATION OF DRILL HOLE
- LENGTH OF DRILL HOLE IN FEET
- AIRTRACK PERCUSSION DRILL HOLE NUMBER
- LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

- 99+% SILICA
- 95% TO 99% SILICA
- 90% TO 95% SILICA
- LESS THAN 90% SILICA
- QTZ QUARTZ
- VOLC MAFIC VOLCANICS
- TCS TALC CHLORITIC SCHIST
- GRANITE GRANITE OR SILICIFIED VOLCANICS
- MIXED QUARTZ AND VOLCANICS
- 99.99 SILICA PRECENTAGE OVER CORE LENGTH
- (95+) ESTIMATED AMOUNT OF SILICA
- N/S NOT SAMPLED
- NA ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET.
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 5+50 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

SURVEY BY: IAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

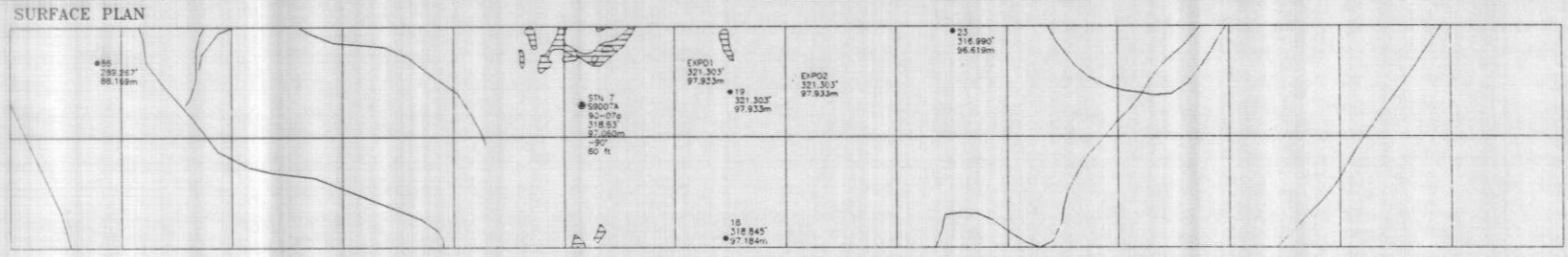
PROJECT NO.:
FILE NO: 93-550.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST SASKATCHEWAN
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY

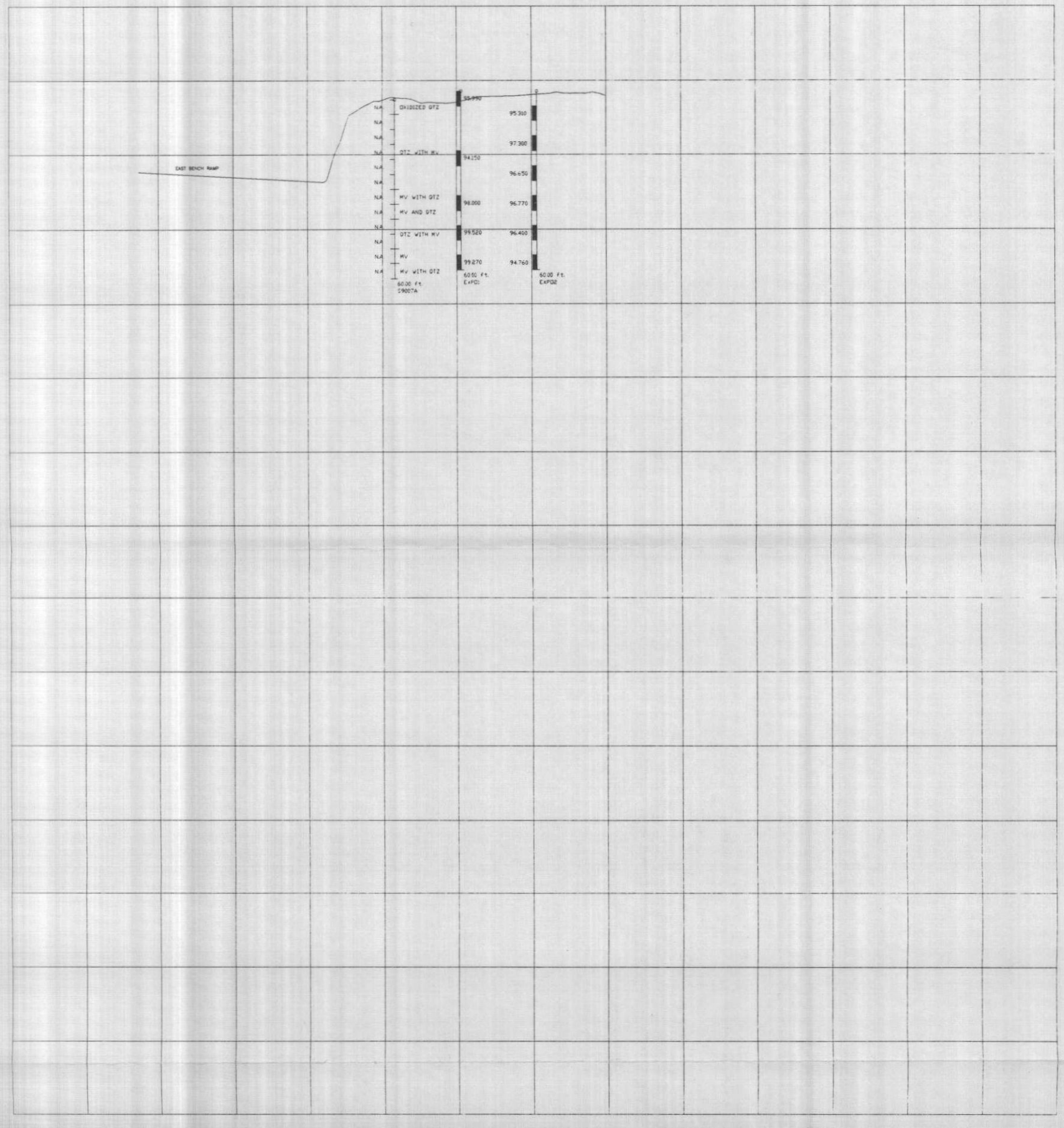
SURFACE PLAN

SECTION 6+00 EAST



150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET



LEGEND

589-8	DIAMOND DRILL COMPUTER FILE NUMBER
# 85-88-08	DIAMOND DRILL HOLE NUMBER
304.942'	ELEVATION IN FEET
92.870m	ELEVATION IN METERS
N 135°E	BEARING OF DRILL HOLE
-90°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
589112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
# AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.643'	ELEVATION IN FEET
95.631m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER
	LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1,302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 6+00 EAST
SECTION LOOKING N 231.25° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

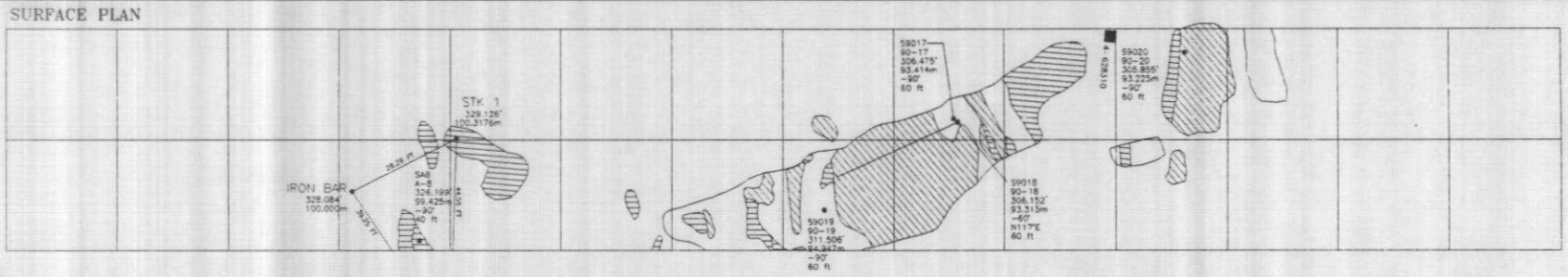
PROJECT NO.:
FILE NO.: S3-600.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
SASKATCHEWAN
01 04 23
YR. MN. DAY

SURFACE PLAN

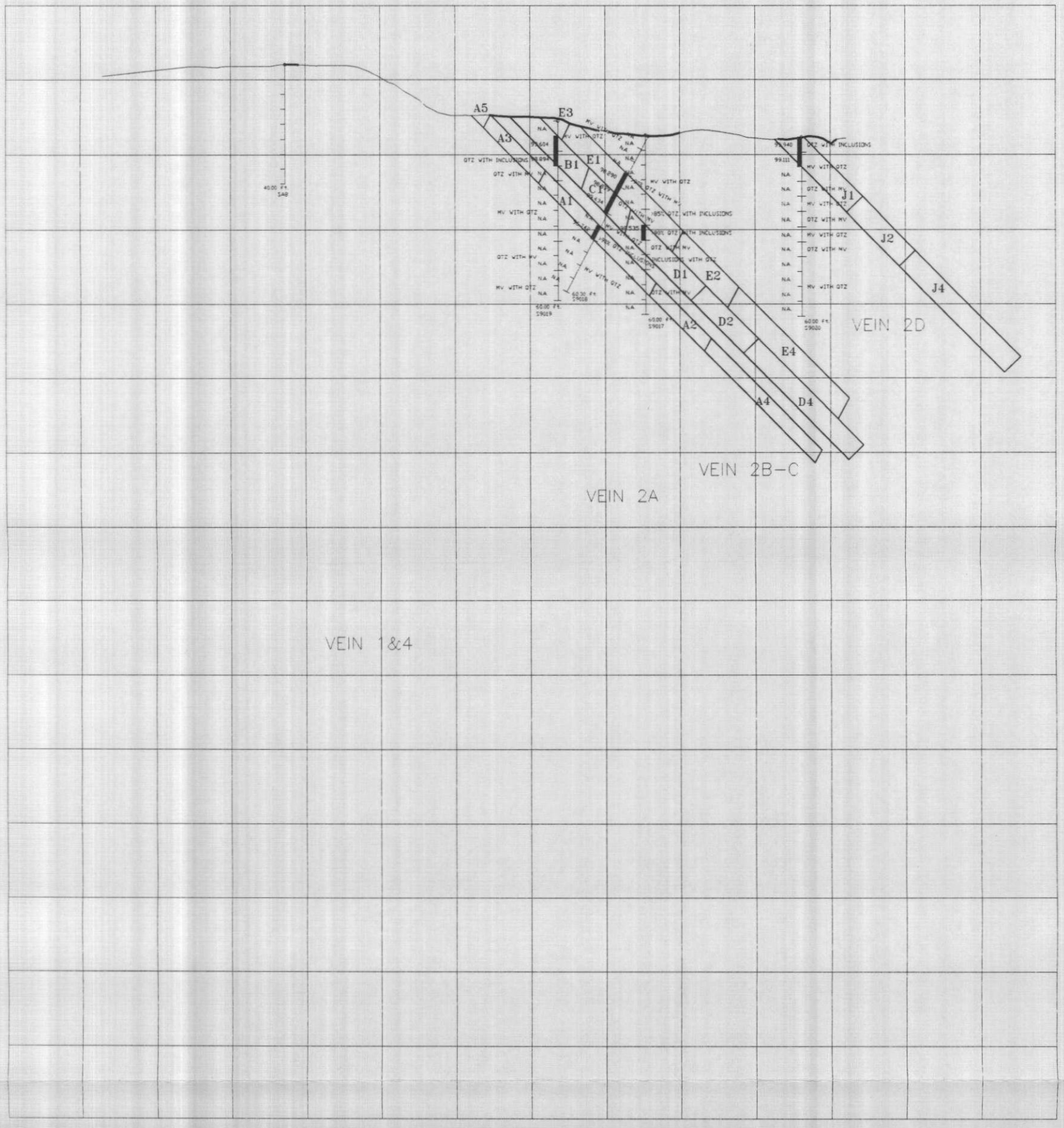
SECTION 0+00 EAST



SECTION 0+00 EAST

100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH | 225 NORTH | 250 NORTH

ELEVATION 350 FEET



ELEVATION 350 FEET

LEGEND

589-18	DIAMOND DRILL COMPUTER FILE NUMBER
# 90-59-08	DIAMOND DRILL HOLE NUMBER
304.042'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 139° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
276' FT	LENGTH OF DRILL HOLE IN FEET
590192	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
# 97-90-T12	AIRTRACK PERCUSSION DRILL HOLE NUMBER
315.043'	ELEVATION IN FEET
95.621m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 m	LENGTH OF DRILL HOLE IN FEET
O A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 - SECTION NO. 0+00 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

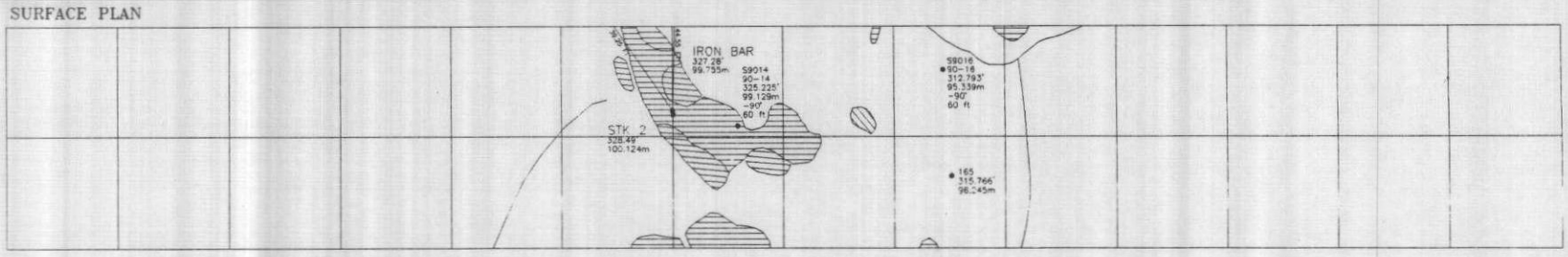
SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-000.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
SASKATCHEWAN
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY

SURFACE PLAN

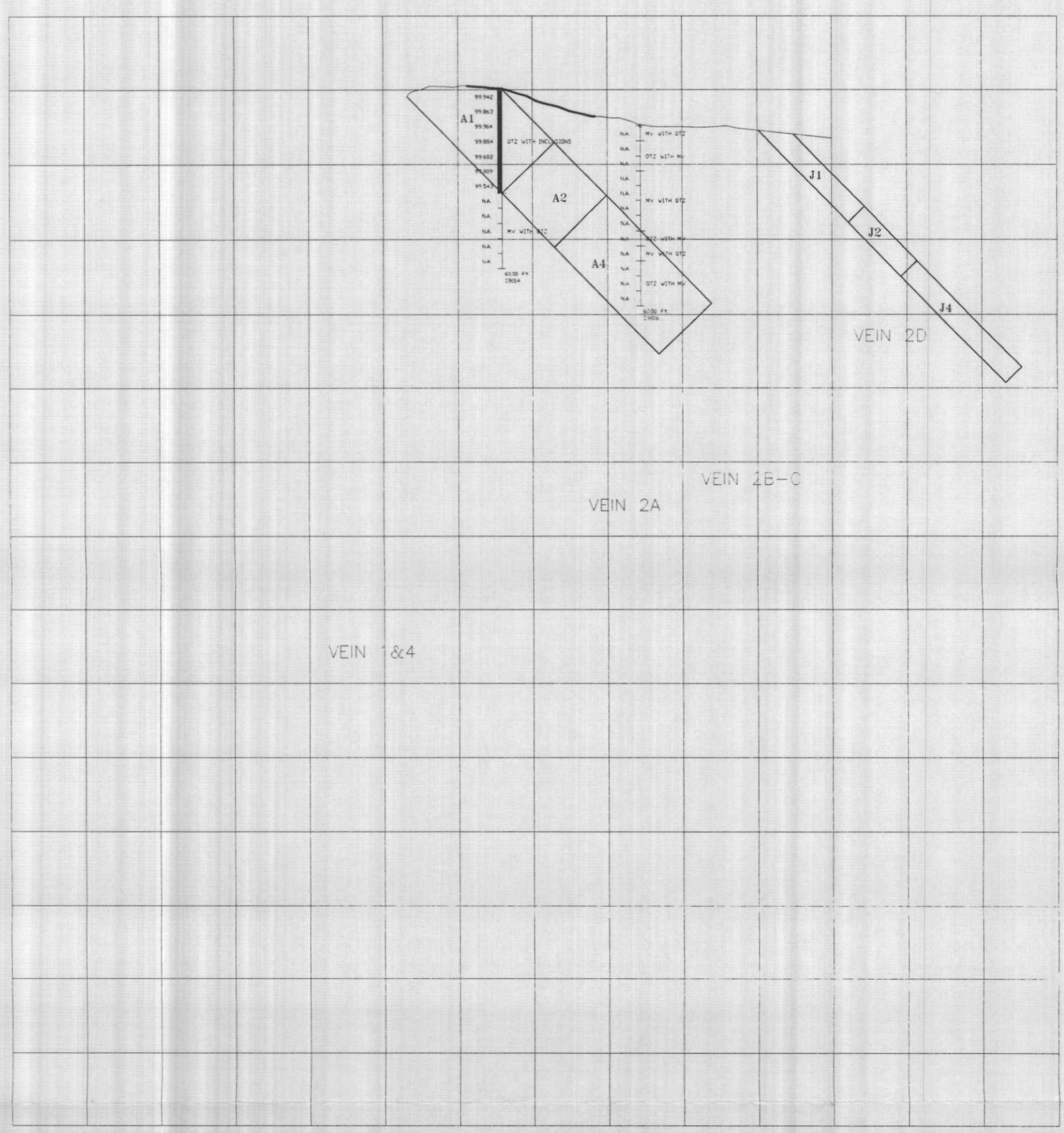


SECTION 0+50 EAST

SECTION 0+50 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET



LEGEND

S89-8	DIAMOND DRILL COMPUTER FILE NUMBER
● RS-89-08	DIAMOND DRILL HOLE NUMBER
304.042'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
S90112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
● AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.043'	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
○ A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 0+50 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO. S3-50.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
SASKATCHEWAN
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY

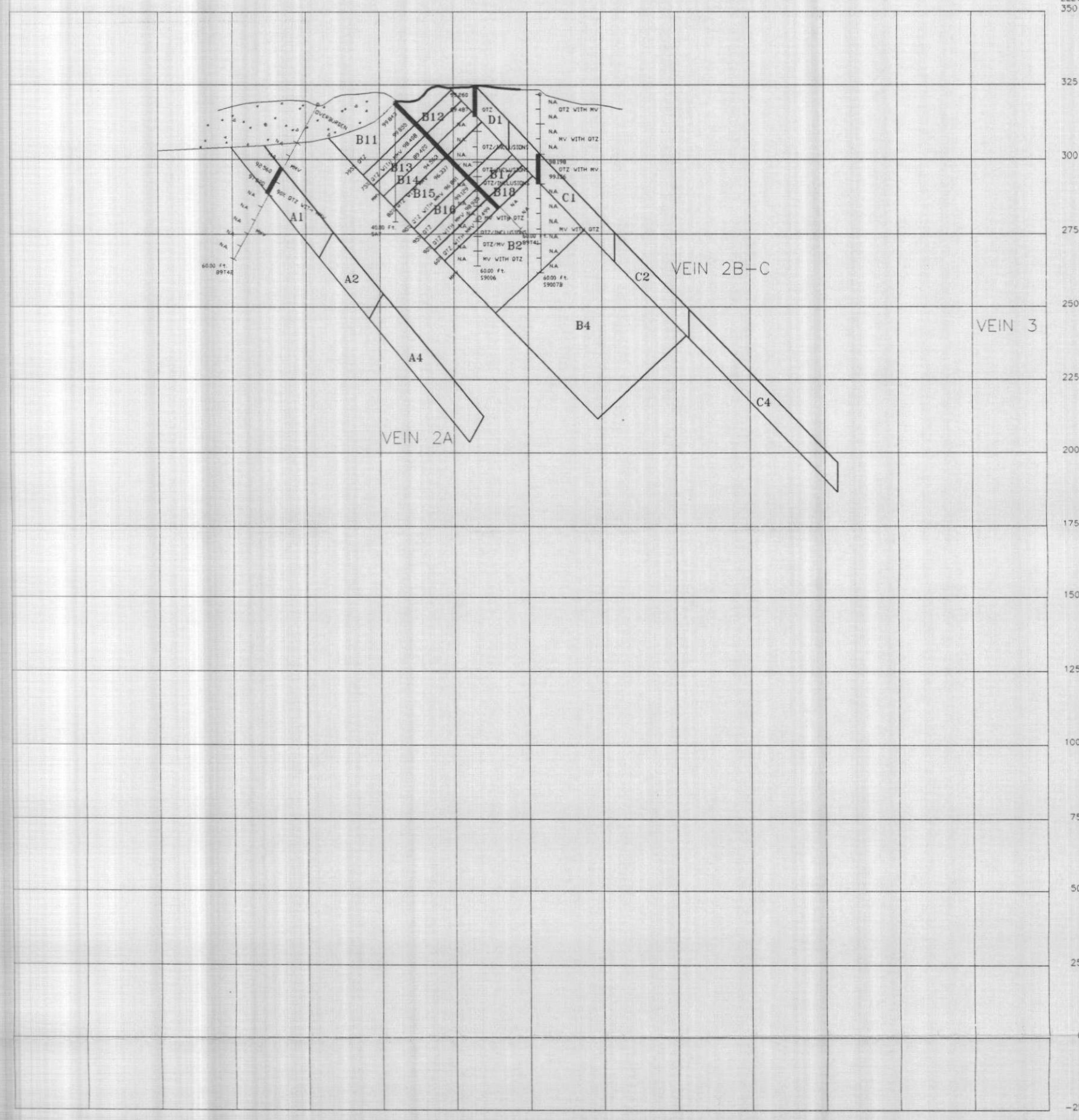
SURFACE PLAN

SECTION 1+00 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

SECTION 1+00 EAST

ELEVATION 350 FEET



325 FEET | 300 FEET | 275 FEET | 250 FEET | 225 FEET | 200 FEET | 175 FEET | 150 FEET | 125 FEET | 100 FEET | 75 FEET | 50 FEET | 25 FEET | 0 FEET | -25 FEET

ELEVATION 350 FEET
325 FEET
300 FEET
275 FEET
250 FEET
225 FEET
200 FEET
175 FEET
150 FEET
125 FEET
100 FEET
75 FEET
50 FEET
25 FEET
0 FEET
-25 FEET

LEGEND

589-6	DIAMOND DRILL COMPUTER FILE NUMBER
+ 90-89-08	DIAMOND DRILL HOLE NUMBER
304.04ft	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
236 FT	LENGTH OF DRILL HOLE IN FEET
89T42	ARTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
+ AT-90-112	ARTRACK PERCUSSION DRILL HOLE NUMBER
315.053'	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
O A-1	ARTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET.
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 - SECTION NO. 1+00 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

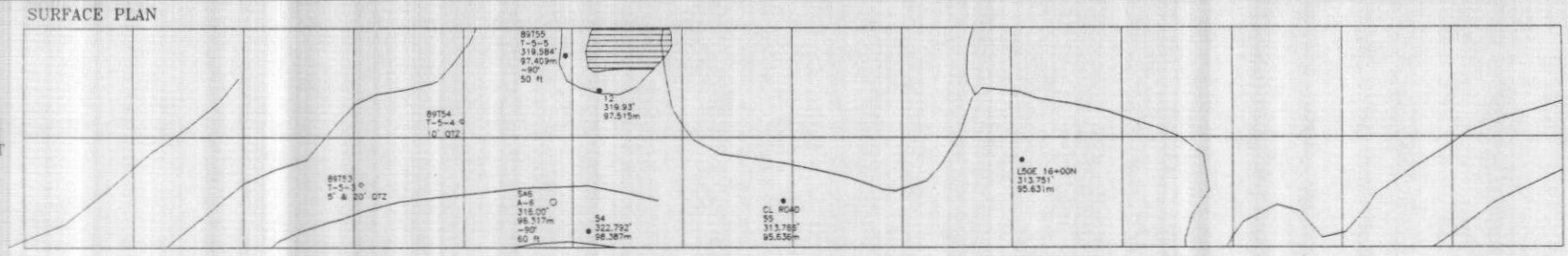
PROJECT NO.:
FILE NO.: S3-100.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
SASKATCHEWAN
01 04 23
YR. MN. DAY

SURFACE PLAN

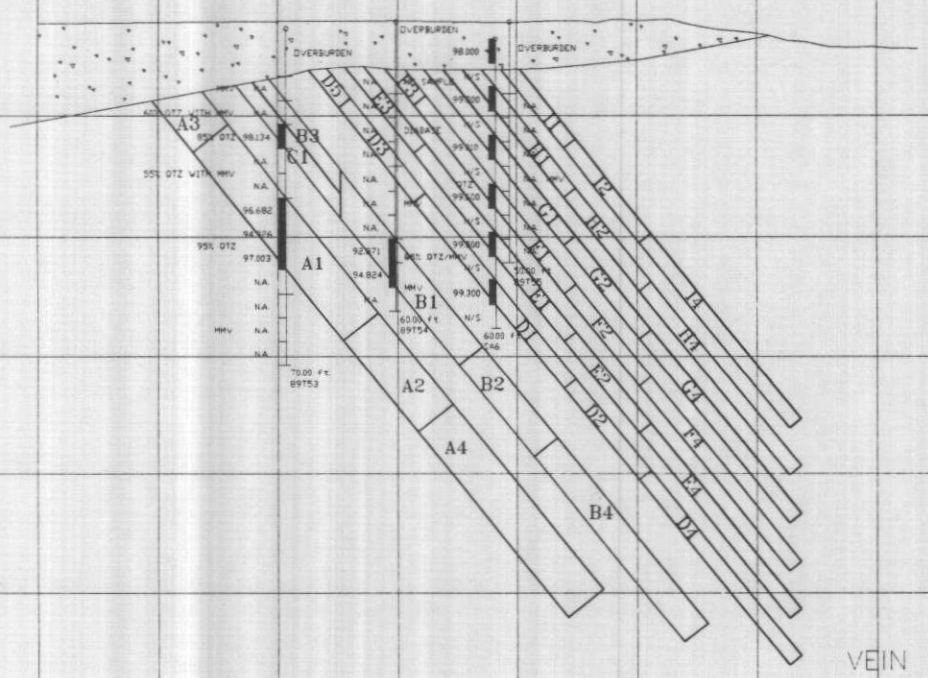
SECTION 1+50 EAST



SECTION 1+50 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET



VEIN 1&4

VEIN 2A

VEIN 2B-C

VEIN 2D

VEIN 3

325 FEET | 300 FEET | 275 FEET | 250 FEET | 225 FEET | 200 FEET | 175 FEET | 150 FEET | 125 FEET | 100 FEET | 75 FEET | 50 FEET | 25 FEET | 0 FEET | -25 FEET

LEGEND

589-8	DIAMOND DRILL COMPUTER FILE NUMBER
● HG-89-08	DIAMOND DRILL HOLE NUMBER
304.042'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135°E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
590112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
●AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063'	ELEVATION IN FEET
95.401m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
○ A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
n/s	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET.
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 - SECTION NO. 1+50 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-150.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
SASKATCHEWAN
01 04 23
YR. MN. DAY

SURFACE PLAN

SECTION 2+00 EAST

SECTION 2+00 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET

325 FEET

300 FEET

275 FEET

250 FEET

225 FEET

200 FEET

175 FEET

150 FEET

125 FEET

100 FEET

75 FEET

50 FEET

25 FEET

0 FEET

-25 FEET

89T52 T-5-2 45° QTZ

L52E 184+00N 321.563' 98.012m

89T51 T-5-1 316.157' 96.374m LOST HOLE

RUBBLE BRIM 323.178' 98.505m

36 T-RAMP 312.506' 95.252m

WEST RAMP

EARTH PILE

62 319.647' 97.428m

ROCK RUBBLE

590111 AT-90-111 314.958' 95.989m -90° 60 ft

63 323.001' 98.451m

ROCK PILE

590112 AT-90-112 313.063' 95.421m -90° 60 ft

37 B-RAMP 301.595' 91.928m

589-8 PS-89-08 304.042' 92.672m N 135° E -45° 238 FT

OVERBURDEN

OVERBURDEN

J5 L3 K3 J3 J1 L1 K1

50% QTZ WITH MMV

75% QTZ WITH MMV

50% QTZ WITH MMV

70.00 Ft. 89T52

M3 O1 N1 M1 O2 N2 O4 N4 M2 M4

QTZ WITH MV

95% QTZ WITH INCLUSIONS

95% QTZ WITH INCLUSIONS

QTZ WITH MV

MV WITH QTZ

95% QTZ

90% QTZ WITH INCLUSIONS

QTZ WITH MV

60.00 Ft. 590111

Q1 P1 I3

95% QTZ

95% QTZ

QTZ WITH MV

MV

MV WITH PY

MV WITH QTZ

60.00 Ft. 590112

589-8 PS-89-08

CASING

89T52

SILICIC GRANITE DIR MV

MAFIC TUFF MV

QUARTZ VEIN

QUARTZ VEIN

Chl. MMV

QUARTZ VEIN

QUARTZ VEIN

MMV WITH QUARTZ

MMV WITH QUARTZ

MMV WITH QUARTZ

I1 I2 I4 H1 H2 G1 G2 H3 G4

VEIN 2D

VEIN 3

VEIN 2B

VEIN 2A

L2 F5 E5 D5 J2 K2 L4 A5 K4 C5 J4 B5 F3 E3 D3 C3 B3 A3 D1 A1 B1 C1 F1 E1 F2 D2 E2 C2 B2 A2 F4 E4 D4 C4 B4 A4

QUARTZ VEIN

MMV

238.00 Ft. 589-8

VEIN 1&4

LEGEND

589-8	DIAMOND DRILL COMPUTER FILE NUMBER
* 95-89-08	DIAMOND DRILL HOLE NUMBER
304.042'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
590112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
* AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
O AT-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 - SECTION NO. 2+00 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-200.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST SASKATCHEWAN
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY

SURFACE PLAN

SECTION 2+50 EAST

SECTION 2+50 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET

325 FEET

300 FEET

275 FEET

250 FEET

225 FEET

200 FEET

175 FEET

150 FEET

125 FEET

100 FEET

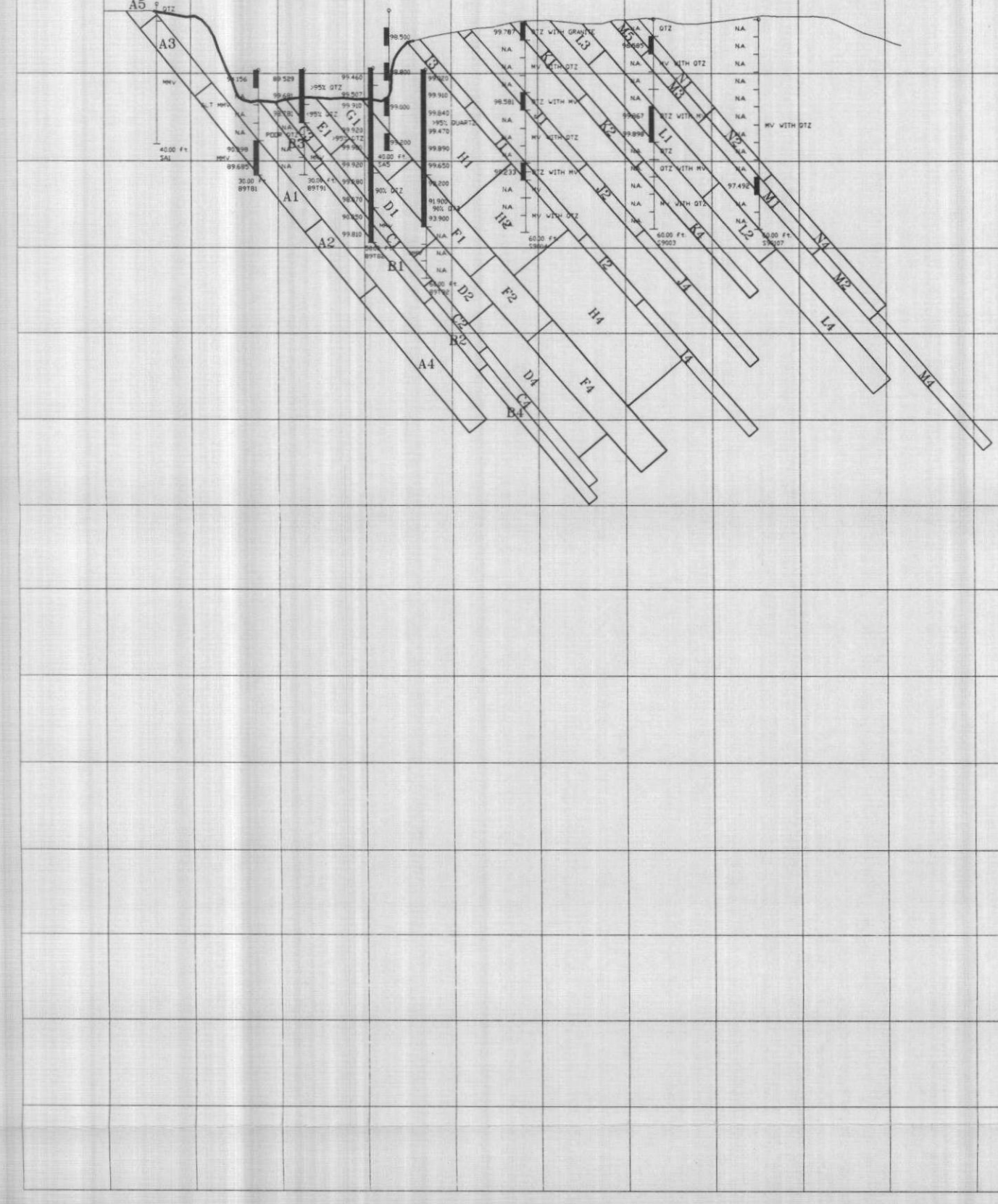
75 FEET

50 FEET

25 FEET

0 FEET

-25 FEET



LEGEND

589-8	DIAMOND DRILL COMPUTER FILE NUMBER
* 95-89-08	DIAMOND DRILL HOLE NUMBER
374.040'	ELEVATION IN FEET
93.672m	ELEVATION IN METERS
N 135°E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
590112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
* AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.043'	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
O A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 2+50 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

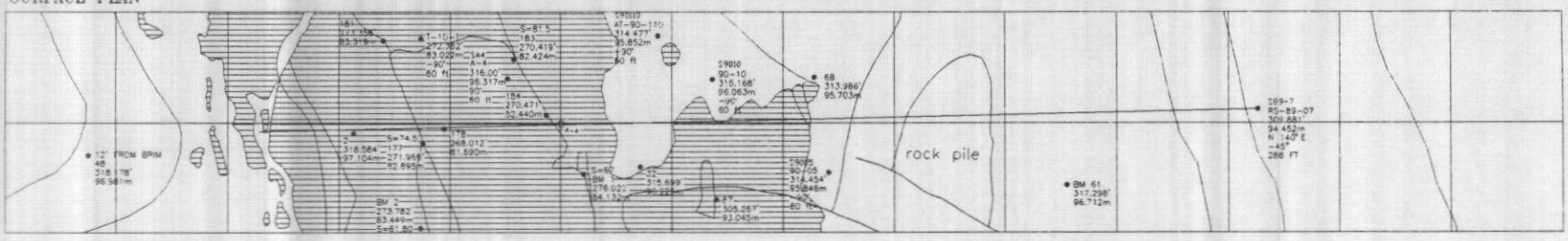
SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-250.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY
SASKATCHEWAN

SURFACE PLAN



SECTION 3+00 EAST

SECTION 3+00 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET

LEGEND

S89-8	DIAMOND DRILL COMPUTER FILE NUMBER
* RS-89-08	DIAMOND DRILL HOLE NUMBER
304.642'	ELEVATION IN FEET
92.872m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
236 FT	LENGTH OF DRILL HOLE IN FEET
S90102	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
* AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063'	ELEVATION IN FEET
95.427m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
O A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ.	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.9%	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 3+00 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

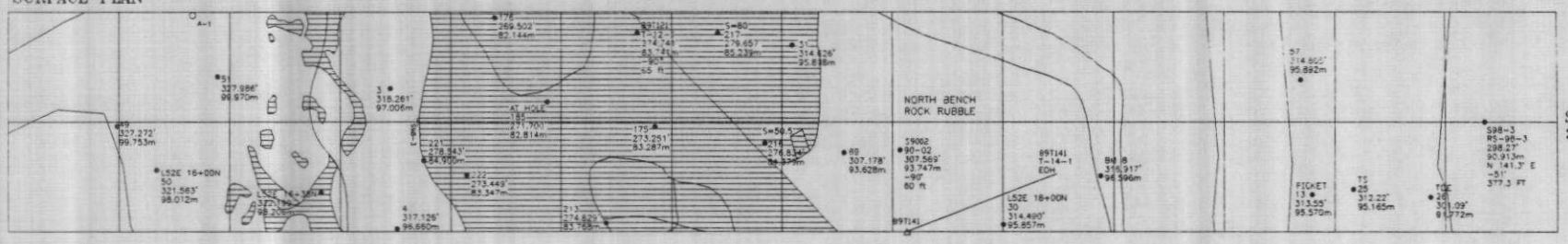
SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-300.dwg

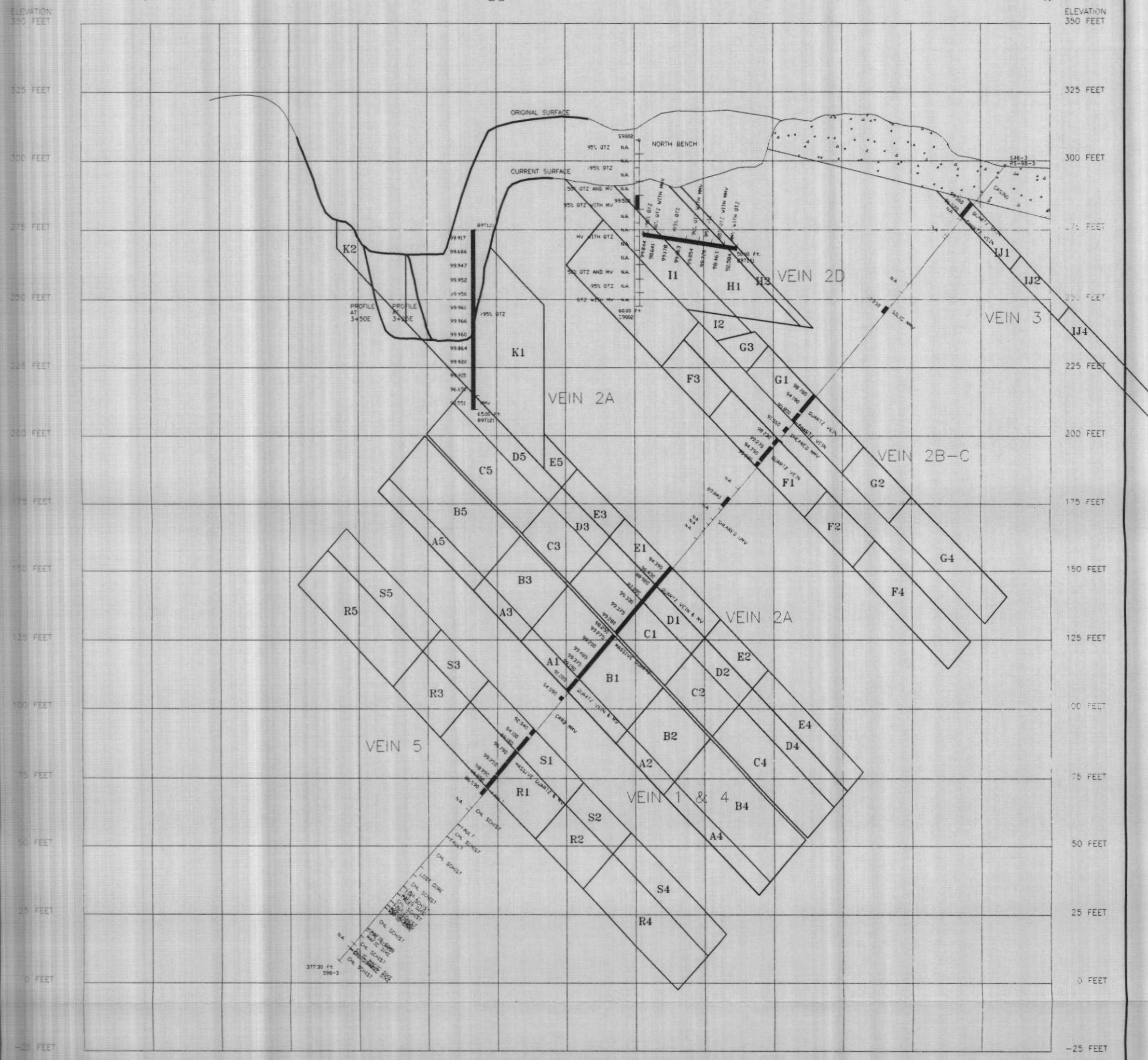
K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
SASKATCHEWAN
01 04 23
YR. MN. DAY

SURFACE PLAN



150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH



LEGEND

589-8	DIAMOND DRILL COMPUTER FILE NUMBER
* 95-89-08	DIAMOND DRILL HOLE NUMBER
304.042	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
236 FT	LENGTH OF DRILL HOLE IN FEET
090112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
* AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063'	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER
	LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1,302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 3+50 EAST
SECTION LOOKING N 231.25° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

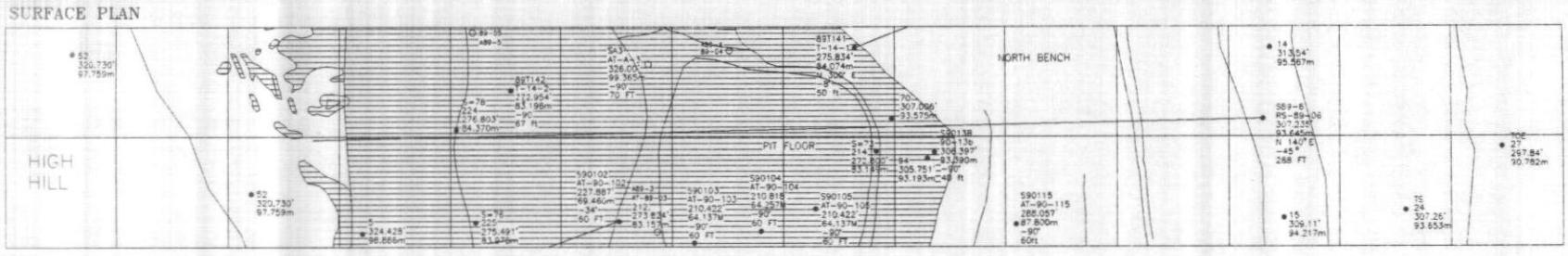
SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY DATE:

PROJECT NO.:
FILE NO.: SJ-350.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

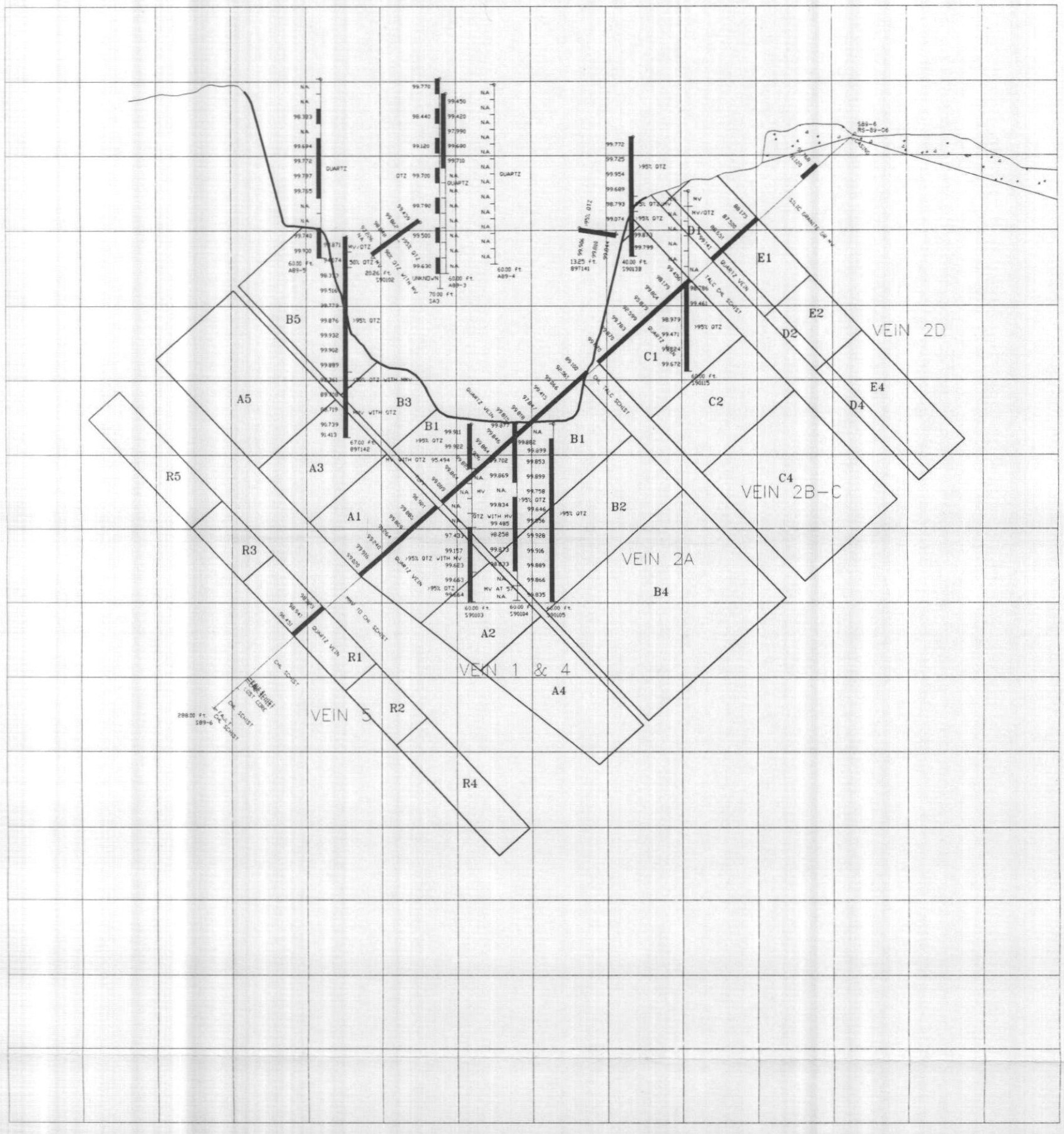
PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
SASKATCHEWAN
d 04 23
YR. MN. DAY

SURFACE PLAN



150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET



LEGEND

- DIAMOND DRILL COMPUTER FILE NUMBER
- DIAMOND DRILL HOLE NUMBER
- ELEVATION IN FEET
- ELEVATION IN METERS
- BEARING OF DRILL HOLE
- INCLINATION OF DRILL HOLE
- LENGTH OF DRILL HOLE IN FEET
- AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
- AIRTRACK PERCUSSION DRILL HOLE NUMBER
- ELEVATION IN FEET
- ELEVATION IN METERS
- INCLINATION OF DRILL HOLE
- LENGTH OF DRILL HOLE IN FEET
- AIRTRACK PERCUSSION DRILL HOLE NUMBER
- LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

- 99+% SILICA
- 95% TO 95% SILICA
- 90% TO 95% SILICA
- LESS THAN 90% SILICA
- QTZ QUARTZ
- VOLC MAFIC VOLCANICS
- TCS TALC CHLORITIC SCHIST
- GRANITE GRANITE OR SILICIFIED VOLCANICS
- MIXED QUARTZ AND VOLCANICS
- 99.99 SILICA PRECENTAGE OVER CORE LENGTH
- (95+) ESTIMATED AMOUNT OF SILICA
- N/S NOT SAMPLED
- NA ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 4+00 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60 80

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-400.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY
SASKATCHEWAN

SURFACE PLAN

SECTION 4+50 EAST

SECTION 4+50 EAST

HIGH HILL

PIT FLOOR

NORTH BENCH

RAMP

125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH | 225 NORTH

ELEVATION 350 FEET

325 FEET

300 FEET

275 FEET

250 FEET

225 FEET

200 FEET

175 FEET

150 FEET

125 FEET

100 FEET

75 FEET

50 FEET

25 FEET

0 FEET

-25 FEET

VEIN 1
VEIN 4
VEIN 2A
VEIN 2B
VEIN 2C
VEIN 3

IJ1 IJ2 IJ3 IJ4

K3 K2 K L3 L2 L1 M3 M2 M1 N3 N2 O3 O2 P3 P2 P1 Q3 Q2 Q1

A5 A4 A3 A2 A1 B4 B3 B2 B1 C4 C3 C2 C1 D4 D3 D2 D1 E4 E3 E2 E1

HV WITH QTZ | MV | MV WITH QTZ | >95% QTZ | 90% QTZ WITH MV | MASSIVE QUARTZ | SILICIC MHV & QUARTZ VEINS | QUARTZ VEIN & SILICIC MHV | QUARTZ VEIN & KOST DIKE | BOTRYOIDAL MHV | MAFIC DIKE AND MHV | MAFIC DIKE | CASING

LEGEND

- 589-8 — DIAMOND DRILL COMPUTER FILE NUMBER
- ● 89-89-08 — DIAMOND DRILL HOLE NUMBER
- 304.042' — ELEVATION IN FEET
- 92.672m — ELEVATION IN METERS
- N 139° E — BEARING OF DRILL HOLE
- -45° — INCLINATION OF DRILL HOLE
- 238 FT — LENGTH OF DRILL HOLE IN FEET
- 590112 — AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
- ● AT-90-112 — AIRTRACK PERCUSSION DRILL HOLE NUMBER
- 315.063' — ELEVATION IN FEET
- 95.421m — ELEVATION IN METERS
- -90° — INCLINATION OF DRILL HOLE
- 60 ft — LENGTH OF DRILL HOLE IN FEET
- ○ A-1 — AIRTRACK PERCUSSION DRILL HOLE NUMBER, LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

- 99+% SILICA
- 95% TO 99% SILICA
- 90% TO 95% SILICA
- LESS THAN 90% SILICA
- QTZ — QUARTZ
- VOLC — MAFIC VOLCANICS
- TCS — TALC CHLORITIC SCHIST
- GRANITE — GRANITE OR SILICIFIED VOLCANICS
- MIXED — QUARTZ AND VOLCANICS
- 99.99 — SILICA PERCENTAGE OVER CORE LENGTH
- (95+) — ESTIMATED AMOUNT OF SILICA
- N/S — NOT SAMPLED
- NA — ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 4+50 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-450.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
SASKATCHEWAN
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY

SURFACE PLAN

SECTION 5+00 EAST

100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH | 225 NORTH | 250 NORTH

SECTION 5+00 EAST

ELEVATION 350 FEET

325 FEET | 300 FEET | 275 FEET | 250 FEET | 225 FEET | 200 FEET | 175 FEET | 150 FEET | 125 FEET | 100 FEET | 75 FEET | 50 FEET | 25 FEET | 0 FEET | -25 FEET

RAMP 1990

VEIN 1 | VEIN 3 | VEIN 4

Dip -56°

LEGEND

589-8	DIAMOND DRILL COMPUTER FILE NUMBER
* 85-89-08	DIAMOND DRILL HOLE NUMBER
304.042'	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
590112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
*A7-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.043'	ELEVATION IN FEET
95.431m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
O A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 5+00 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

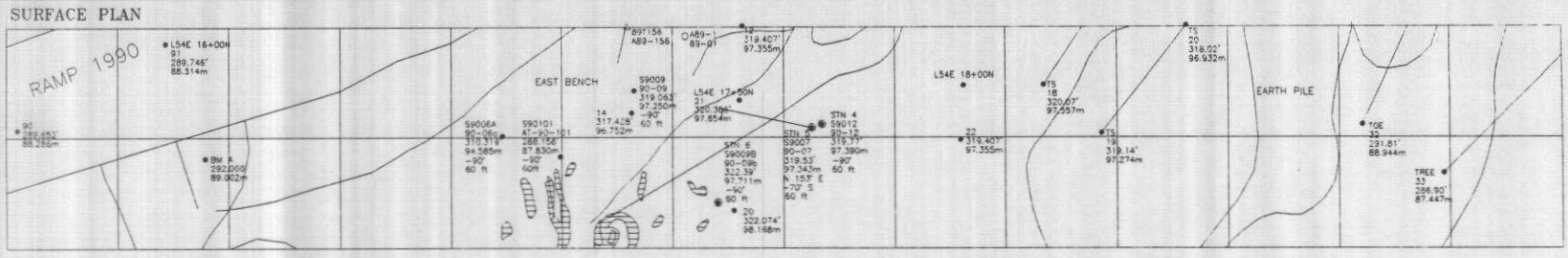
PROJECT NO.:
FILE NO.: S3-500.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST SASKATCHEWAN
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY

SURFACE PLAN

SECTION 5+50 EAST



SECTION 5+50 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE 0+00 | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET

325 FEET | 300 FEET | 275 FEET | 250 FEET | 225 FEET | 200 FEET | 175 FEET | 150 FEET | 125 FEET | 100 FEET | 75 FEET | 50 FEET | 25 FEET | 0 FEET | -25 FEET

LEGEND

- 89-8 — DIAMOND DRILL COMPUTER FILE NUMBER
- * 91-89-08 — DIAMOND DRILL HOLE NUMBER
- 304.042' — ELEVATION IN FEET
- 92.672m — ELEVATION IN METERS
- N 139° E — BEARING OF DRILL HOLE
- -45° — INCLINATION OF DRILL HOLE
- 238 FT — LENGTH OF DRILL HOLE IN FEET
- 590112 — AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
- * AT-90-112 — AIRTRACK PERCUSSION DRILL HOLE NUMBER
- 313.043' — ELEVATION IN FEET
- 95.421m — ELEVATION IN METERS
- -90° — INCLINATION OF DRILL HOLE
- 60 ft — LENGTH OF DRILL HOLE IN FEET
- ○ A-1 — AIRTRACK PERCUSSION DRILL HOLE NUMBER. LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

- 99+% SILICA
- 95% TO 99% SILICA
- 90% TO 95% SILICA
- LESS THAN 90% SILICA
- QTZ — QUARTZ
- VOLC — MAFIC VOLCANICS
- TCS — TALC CHLORITIC SCHIST
- GRANITE — GRANITE OR SILICIFIED VOLCANICS
- MIXED — QUARTZ AND VOLCANICS
- 99.99 — SILICA PRECENTAGE OVER CORE LENGTH
- (95+) — ESTIMATED AMOUNT OF SILICA
- N/S — NOT SAMPLED
- NA — ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET.
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 5+50 EAST
SECTION LOOKING N 231.25 ° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60

SURVEY BY: KIAN A. JENSEN — DATE: DECEMBER, 2000
REVISION BY: — DATE:

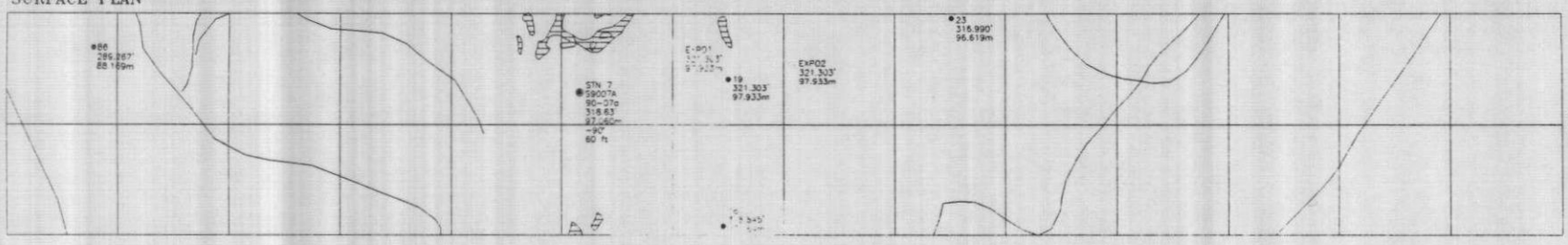
PROJECT NO.:
FILE NO.: S3-550.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
SASKATCHEWAN
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY

SURFACE PLAN

SECTION 6+00 EAST



SECTION 6+00 EAST

150 SOUTH | 125 SOUTH | 100 SOUTH | 75 SOUTH | 50 SOUTH | 25 SOUTH | REFERENCE LINE | 25 NORTH | 50 NORTH | 75 NORTH | 100 NORTH | 125 NORTH | 150 NORTH | 175 NORTH | 200 NORTH

ELEVATION 350 FEET

325 FEET

300 FEET

275 FEET

250 FEET

225 FEET

200 FEET

175 FEET

150 FEET

125 FEET

100 FEET

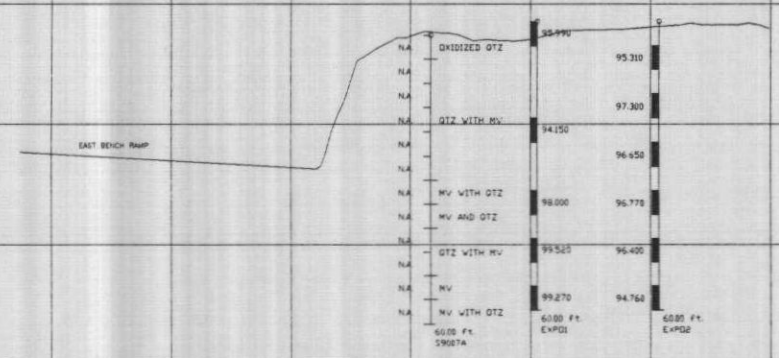
75 FEET

50 FEET

25 FEET

0 FEET

-25 FEET



LEGEND

589-8	DIAMOND DRILL COMPUTER FILE NUMBER
● PS-89-08	DIAMOND DRILL HOLE NUMBER
304.042	ELEVATION IN FEET
92.672m	ELEVATION IN METERS
N 135° E	BEARING OF DRILL HOLE
-45°	INCLINATION OF DRILL HOLE
238 FT	LENGTH OF DRILL HOLE IN FEET
590112	AIRTRACK PERCUSSION DRILL HOLE COMPUTER FILE NUMBER
●AT-90-112	AIRTRACK PERCUSSION DRILL HOLE NUMBER
313.063'	ELEVATION IN FEET
95.421m	ELEVATION IN METERS
-90°	INCLINATION OF DRILL HOLE
60 ft	LENGTH OF DRILL HOLE IN FEET
A-1	AIRTRACK PERCUSSION DRILL HOLE NUMBER
	LOCATION APPROXIMATE, LIMITED DATA AVAILABLE

	99+% SILICA
	95% TO 99% SILICA
	90% TO 95% SILICA
	LESS THAN 90% SILICA
QTZ	QUARTZ
VOLC	MAFIC VOLCANICS
TCS	TALC CHLORITIC SCHIST
GRANITE	GRANITE OR SILICIFIED VOLCANICS
MIXED	QUARTZ AND VOLCANICS
99.99	SILICA PRECENTAGE OVER CORE LENGTH
(95+)	ESTIMATED AMOUNT OF SILICA
N/S	NOT SAMPLED
NA	ASSAYS NOT AVAILABLE

NOTE: EACH GRID SQUARE IS 25 FEET BY 25 FEET
A 25 FOOT CUBE REPRESENTS 1302.08 TONS

ROSEVAL SILICA INCORPORATED

SITE 3 – SECTION NO. 6+00 EAST
SECTION LOOKING N 231.25° E

PENHORWOOD TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

SCALE IN FEET
20 0 20 40 60

SURVEY BY: KIAN A. JENSEN DATE: DECEMBER, 2000
REVISION BY: DATE:

PROJECT NO.:
FILE NO.: S3-600.dwg

K.A. Jensen & Associates Ltd.
Consulting Exploration and Mining Geologists

PROFESSIONAL GEOSCIENTIST
K.A. JENSEN
MEMBER 11004
01 04 23
YR. MN. DAY
SASKATCHEWAN

93 C 2 NW 0339

Work Report Summary

Transaction No: W0160.30060 **Status:** APPROVED
Recording Date: 2001-MAY-02 **Work Done from:** 2000-JAN-04
Approval Date: 2001-SEP-10 **to:** 2001-APR-23

Client(s):

154855 LA SOCIETE DE GESTION MASKOURS INC.

Survey Type(s):

DATA

Work Report Details:

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
P 994260	$11,218	$4,000	$0	$0	$8,000	4,000	$3,218	$0	2002-SEP-17
P 1219704	$0	$0	$1,600	$800	$0	0	$0	$0	2002-MAY-05
P 1219706	$0	$0	$6,400	$3,200	$0	0	$0	$0	2002-MAY-05
	$11,218	$4,000	$8,000	$4,000	$8,000	$4,000	$3,218	$0	

Status of claim is based on information currently on record.

42B01SE2003 2.21339 PENHORWOOD 900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

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

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

Date: 2001-SEP-13

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

Submission Number: 2.21339
Transaction Number(s): W0160.30060

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.

The 45 days outlined in the Notice dated July 24, 2001, have passed. The TOTAL VALUE of assessment credit that will be allowed, based on the information provided in this submission, is $4000.00.

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

Yours Sincerely,

Roy Spooner
Supervisor, Geoscience Assessment Office

Cc: Resident Geologist

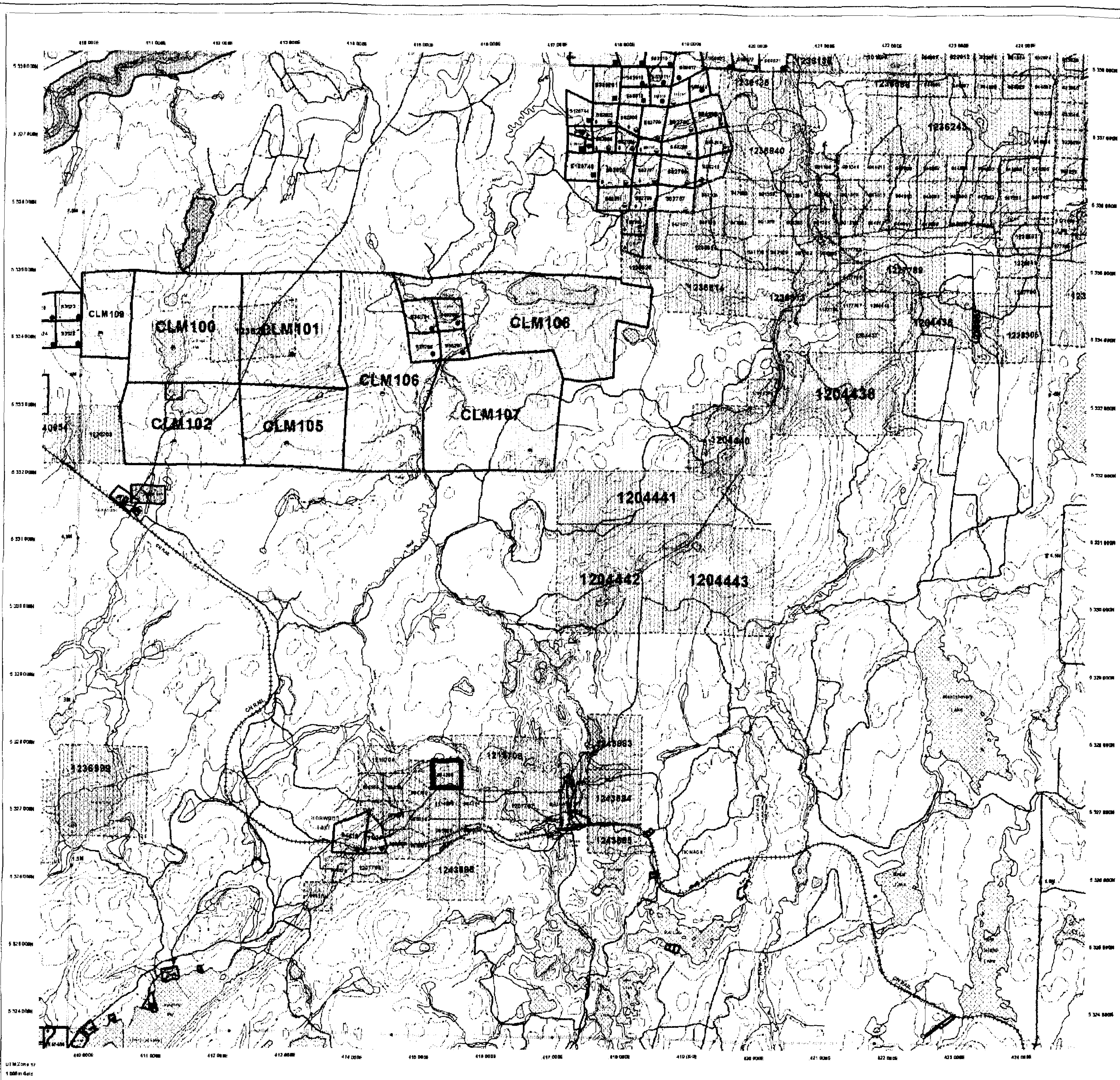
Kian Attwood Jensen
(Agent)

La Societe De Gestion Maskours Inc.
(Assessment Office)

Assessment File Library

La Societe De Gestion Maskours Inc.
(Claim Holder)

42B01SE2003 2.21339 PENHORWOOD 200



Ministry of Northern Development and Mines
Provincial Mining Recorder's Office

MINING LAND TENURE MAP

Date / Time of Issue May 2 2001 15:03h Eastern

TOWNSHIP / AREA PENHORWOOD

PLAN G-3244

ADMINISTRATIVE DISTRICTS / DIVISIONS

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

TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit and Pile
- Contour
- Contour - Approx. Auxiliary Depression
- Shaft
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Hydro Line
- Communication Line
- Wooded Area
- Monument - Cadastral Historical Horiz. Control

LAND TENURE

Freehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation
- Lines not Specified
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

- Land Use Permit
- Order In Council
- Water Power Lease Agreement
- 1236597 Mining Claim

LAND TENURE WITHDRAWALS

1234 Areas Withdrawn from Disposition

Mining Act Withdrawal Types
- Wsm Surface and Mining Rights Withdrawn
- Ws Surface Rights Only Withdrawn
- Wm Mining Rights Only Withdrawn

Order in Council Withdrawal Types
- W'sm Surface and Mining Rights Withdrawn
- W's Surface Rights Only Withdrawn
- W'm Mining Rights Only Withdrawn

IMPORTANT NOTICES

0 Km 2.0 Km

LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
3888	Wsm	Jan 1 2001	40911 RESERVE S.R.O. 136537
3928	Wsm	Jan 1 2001	ORDER OF THE MINISTER #33/87 DATED MARCH 20/87 WITHDRAWS MINING AND SURFACE RIGHTS UNDER SECTION 36 OF THE MINING ACT RSO 1990
3945	Wsm	Jan 1 2001	SEC.36/81 11.7.81 S.R.O. 136537
W-LL-C1656	Wsm	May 17 1999	SEC.35 W-LL-C1656/99 ONT MAY 17/99 M&S
W-LL-P1568	Wsm	May 15 1999	SEC 35 W-LL-P1568/99 ONT MAY 15/99 M&S (200 METRES FROM WATER'S EDGE)

IMPORTANT NOTICES

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

2.21339
DATA

Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, 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 Lands Titles or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

General Information and Limitations

Contact Information:
Provincial Mining Recorders' Office, Willet Green Miller Centre, 933 Ramsey Lake Road, Sudbury, ON P3E 6B5
Toll Free Tel: 1 (888) 415-9845 Fax: 1 (877) 670-1444
Home Page: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Map Datum: NAD 83
Projection: UTM (6 degree)
Topographic Data Source: Land Information Ontario
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.