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1996 ASSESSMENT REPORT

BIG MISSOURI PROPERTY
STEWART, BRITISH COLUMBIA

DIAMOND DRILLING

SKEENA MINING DIVISION
NTS 104B/1, 104A/4
LATITUDE 56° 12'00" N, LONGITUDE 130° 01'00" W

OWNER/OPERATOR
WESTMIN RESOURCES LIMITED

REPORT BY
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WESTMIN RESOURCES LIMITED

MARCH 5, 1997

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,905

RPT97-004

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1.0 SUMMARY

A diamond drilling program was carried out on the Martha Ellen deposit during August and September 1996. Martha Ellen deposit is located within Westmin Resources Limited's Big Missouri mineral property. The purpose of the program was to test interpreted favourable subsurface geology eastward from the Martha Ellen deposit with a series of widely-spaced drill holes.

Nine holes totalling 2,155.23 metres were drilled, seven of which intersected typical Premier Porphyry and the underlying andesitic rocks. Quartz breccia mineralized with pyrite, sphalerite, galena and rare chalcopyrite occurs along the eastward-dipping contact between the porphyry and the andesitic rocks. This mineralized quartz breccia locally contains significant amounts of gold and silver. One hole was drilled within altered andesitic rocks, to test the presumed subsurface extension of an easterly striking, mineralized quartz vein. The other remaining hole was drilled to test for the possible southward extension of the Martha Ellen occurrence. Typical Premier Porphyry does not occur within this southern area.

Drilling indicates that the geology of the target area is favourable and the presence of alteration and mineralization in the holes is encouraging.

Six to ten holes should be drilled to further test the Martha Ellen occurrence area. Some of these holes should be drilled in the vicinity of drill holes B96CH1, B96CH2 and B96CH7 as the mineralized quartz breccia within these two holes contains significant amounts of gold and silver. The other holes should be wider-spaced to continue evaluating the overall continuity and grade of the mineralized quartz breccia zone eastward from the Martha Ellen occurrence area.

2.0 INTRODUCTION

The Big Missouri property is 100% owned by Westmin Resources Limited.

Previous work on the Martha Ellen occurrence area began in the early 1900's. Two shallow shafts, a few short adits and numerous trenches were excavated by 1930. Westmin Resources Limited began work in the area during 1979; by 1988 a total of 8,389 metres of diamond drilling in 144 holes had been completed. For further historical information see Greig (1996).

During September 1995 the author mapped the surface geology of the Martha Ellen area, and re-examined core from some of the earlier drill holes. The results of this work indicated that the geometry of the mineralized zones at Martha Ellen was not well established. The geometry of the mineralized zones in the subsurface was difficult to determine because the mineralized quartz veins exposed at surface have variable geometries, and because many of the earlier drill holes are shallow and randomly oriented. However, the mineralized zones generally appear to dip eastward, following the contact between Premier Porphyry and underlying andesitic rocks.

The drilling program tested the idea that the mineralized quartz breccia zone generally follows the contact with the intrusive(?) Premier Porphyry body, and dips moderately eastwards.

3.0 1996 EXPLORATION PROGRAM

A program of diamond drilling was carried out between August 3 and September 2, 1996 under the direction of the author.

Diamond drilling was contracted to F. Boisvenu Drilling Ltd. of Delta, B.C. A Boyles 56A drill was used for the drilling. A Komatsu D-58 tractor was used to move the drill, to refurbish existing cat roads, and also to prepare drill sites. Most of the holes were drilled from the edges of previously existing cat roads. Areas disturbed by the tractor were recontoured upon completion of the work. A list of personnel employed on the project is included as Appendix A.

The crew was accommodated at Westmin's exploration trailer camp at Premier Gold, 8 kilometres south of the work area.

4.0 EXPENDITURES

Assessment work in the amount of $191,891.00 was filed on November 14, 1996.

Expenditures for the 1996 exploration program are shown in Table 1.

Assessment work done on the Big Missouri property was filed on adjacent mineral claims. These adjacent mineral claims were grouped with the Big Missouri property in order to best utilize the assessment credit. Westmin has a 100% interest in all of these properties.

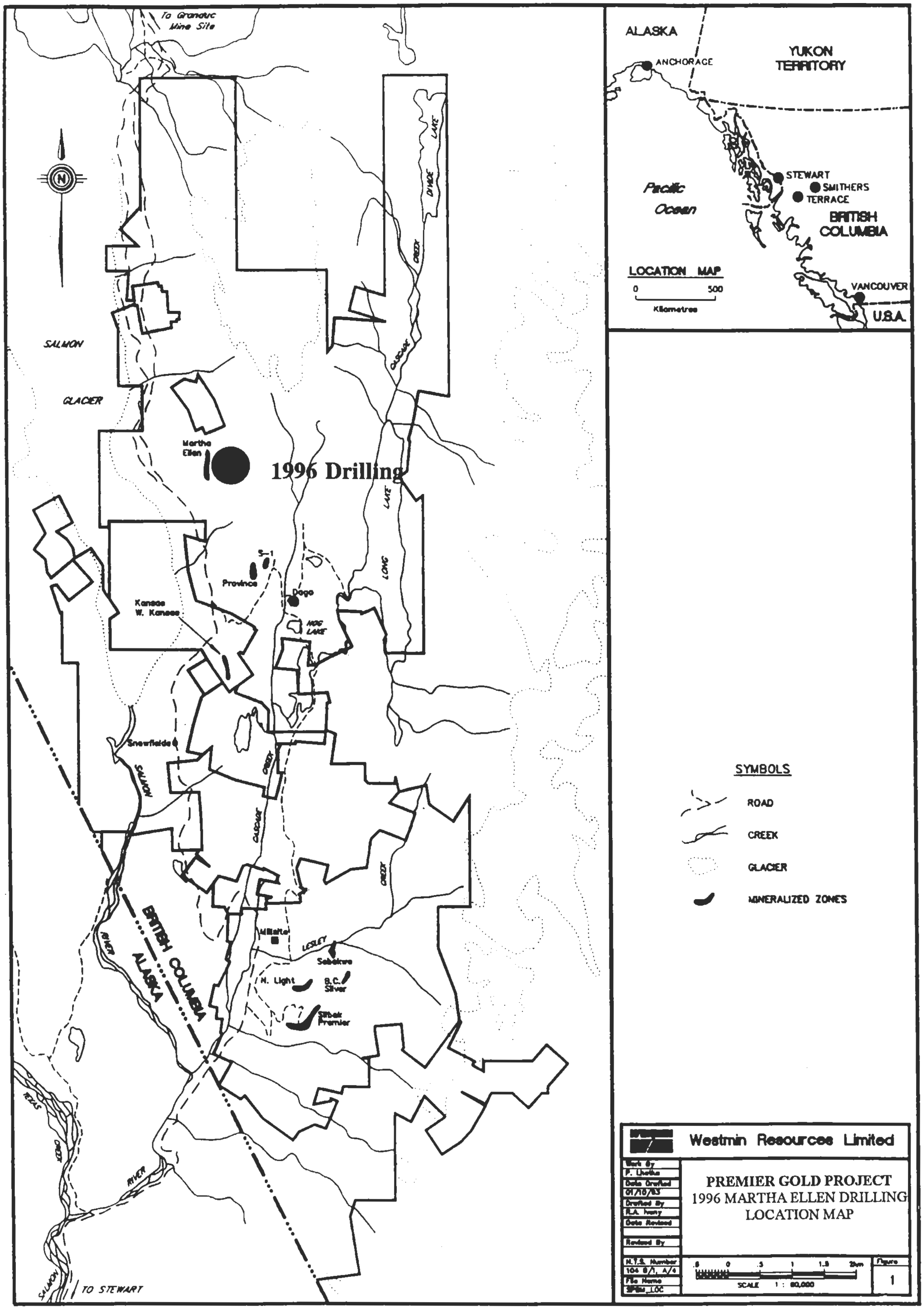
5.0 LOCATION, ACCESS, VEGETATION AND PHYSIOGRAPHY

The Big Missouri property is located 24 kilometres north of Stewart, British Columbia, within NTS map-sheets 104A/4 and 104B/1, at latitude 56° 12' N, longitude 130° 01' W (see Figures 1 and 2).

TABLE 1

EXPENDITURES

	($)	Total ($)
Diamond drilling Coring, 7,071 feet (2,155.23 metres) Mobilization/demobilization Cat rental Other drilling costs	124,757 9,000 4,960 7,327	146,044
Core boxes		2,914
Camp expense 145 mandays at $50 per manday		7,250
Materials and supplies		500
Equipment and instrument rentals		2,550
Salaries and benefits		19,225
Travel		250
Fuel		5,000
Shipping and telephone		250
Assays 416 samples at $13 per sample		5,408
Total		**191,891**



Westmin Resources Limited

Work By
P. Lhotka
Date Drafted
01/10/93
Drafted By
R.A. Ivany
Date Revised

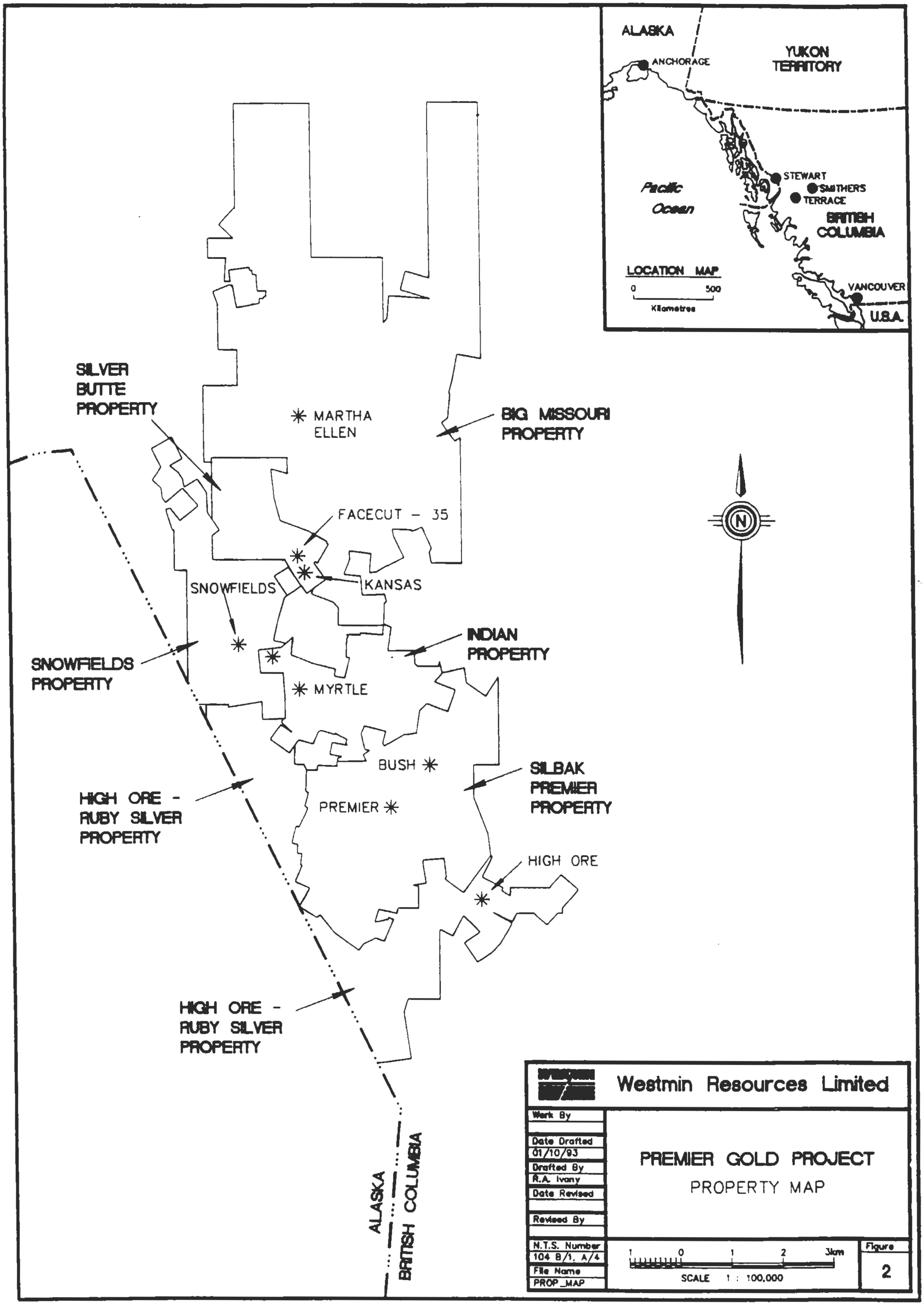
Revised By

N.T.S. Number
104 B/1, A/4
File Name
SPGM_LOC

PREMIER GOLD PROJECT
1996 MARTHA ELLEN DRILLING
LOCATION MAP

.5 0 .5 1 1.5 2km
SCALE 1 : 60,000

Figure
1



Westmin Resources Limited

Work By

Date Drafted
01/10/93

Drafted By
R.A. Ivany

Date Revised

Revised By

N.T.S. Number
104 B/1, A/4

File Name
PROP_MAP

PREMIER GOLD PROJECT

PROPERTY MAP

SCALE 1 : 100,000

Figure
2

Access to the property is via an old road established to provide access for the earlier drilling. This road starts in the area of the old Big Missouri townsite, at the S-1 open pit. A network of good bulldozer roads covers the Martha Ellen area. Heavy snowfalls limit exploration work to the period between mid-July and the end of September.

The area is mostly above treeline. A few flat areas are covered with peat bogs. Local topographic relief is gentle.

6.0 CLAIM STATUS

The Big Missouri property consists of 29 reverted Crown grants, 80 two-post and four-post mineral claims that cover the equivalent of 148 units. The Big Missouri property is 100% owned by Westmin Resources Limited (Figure 2). Claim data is presented in Appendix D.

7.0 PROPERTY GEOLOGY

The Big Missouri property is underlain by lower Jurassic "Hazelton Group" volcanic and sedimentary rocks which are part of the accreted terrane of Stikinia. In the Stewart area Alldrick (1985, 1987) subdivided the Hazelton Group into four formations. It is unclear which portions of Alldrick's stratigraphy correlate with the descriptions that follow, but the Unit 9 rocks described below probably belong within Alldrick's Unuk River Formation.

Detailed mapping by the author during September 1995 showed that the Martha Ellen area is underlain mainly by extensive Unit 9 andesitic tuffs and flows. These rocks are locally altered with abundant sericite, pyrite and quartz in the vicinity of mineralized zones.

Immediately overlying the andesitic rocks is a potassic intrusive(?) body of Premier Porphyry. This porphyry contains diagnostic potassium feldspar megacrysts. The contact between the porphyry and the andesitic rocks dips at 25 to 30 degrees to the east; it is locally irregular. Subhorizontal apophyses of Premier Porphyry up to 5 or 7 metres wide intrude the andesitic rocks. The Premier Porphyry is often bleached and altered near its contact with the andesitic rocks.

Fresh granodiorite, diorite and monzodiorite dykes of Tertiary age intrude the Unit 9 andesites. These dykes are mainly medium grained, and contain dark green, acicular hornblende crystals. The largest of the dykes trends southeasterly and dips 65 to 80 degrees to the southwest. These dykes are part of the Portland Canal swarm.

Late dykes of andesite or, less commonly, dacite or rhyolite are also present within the Martha Ellen area. Andesite dykes intrude some of the dioritic dykes of the Portland Canal swarm.

The South and the North (or Glacier) faults are the two main fault structures within the Martha Ellen area. These faults strike northerly and have apparent right-lateral displacements. The South Fault has an apparent displacement of about 15 metres, and the North Fault has an apparent displacement of about 30 to 60 metres. These faults dip approximately 68 degrees to the west.

The Unit 9 rocks at Martha Ellen occurrence area have a consistent, pervasive, northerly trending foliation that dips from 49 to 64 degrees to the west.

Mineralized veins and zones at Martha Ellen are similar to other occurrences within the Big Missouri area (Greig, 1996). Semi-massive to massive lenses, pods and stringers of pyrite, sphalerite, galena and chalcopyrite occur within variably altered andesitic rocks of Unit 9. Unit 7a Premier Porphyry has also been mineralized in a few places. The Premier Porphyry and the mineralized zones in the Martha Ellen area appear to be genetically related. Mineralization has occurred directly at the porphyry contact, and also within 12 or 15 metres of this contact. The mineralization may have occurred during the later stages of the intrusive event. The mineralized quartz veins exposed in the surface trenches at the Martha Ellen occurrence area have variable geometries and orientations.

The mineralized Unit 9 andesites have been silicified and sericitized, and also contain finely disseminated pyrite. They have a bleached appearance. Contacts between mineralized zones and the wallrock andesites are usually gradational.

Vein quartz within the mineralized zones ranges from watery grey to off-white to clear. This quartz has been brecciated and rehealed by silica. Later, barren veins in the area contain white quartz, carbonate and chlorite with minor local pyrite.

8.0 DIAMOND DRILLING

Diamond drilling was conducted using a skid-mounted Boyles 56A drill. Drilling took place on two 10-hour shifts. The total, all-inclusive cost of the drilling was $97.93 per metre.

NQ size core was recovered. The nine holes were drilled from nine different sites. Locations and directions of the holes are shown on Figure 3, and listed within Table 2.

TABLE 2
1996 MARTHA ELLEN DRILL HOLE CO-ORDINATES AND DOWNHOLE SURVEYS

		Estimated Collar Co-ordinates							
Hole	**Length (m)**	**East**	**North**	**Elevation**	**Azimuth (wrt true n)**	**Dip**	**Depth (m)**	**Method**	**Comments**
B96CH1	334.06	95437	107566	1183	240	-52	0		
						-51	324.92	Acid	
					254	-55	332.23	Tropari	
B96CH2	270.05	95224	107551	1167	240	-58	0		
					241	-63	268.22	Tropari	
B96CH3	209.05	94991	107608	1169	240	-62	0		
					241	-66	207.26	Tropari	
B96CH4	254.81	95604	107573	1143	240	-62	0		
					345	-62	252.98	Tropari	Probably Unreliable
B96CH5	135.03	95155	107293	1065	111	-45	0		
					111	-58	131.98	Tropari	
B96CH6	248.72	94875	107814	1205	240	-50	0		
					256	-63	247.19	Tropari	
B96CH7	273.1	95255	107803	1232	240	-50	0		
					254	-58	271.58	Tropari	
B96CH8	148.13	95756	107468	1101	240	-50	0		
B96CH9	282.24	95377	107758	1204	240	-50	0		
					016	-51	213.36	Tropari	Probably Unreliable
Total	**2,155.2**								

Note: Collars have not been surveyed. Co-ordinates were estimated using detailed 1:1,000 scale orthophotographs prepared by Eagle Mapping in 1995. Uncertainties are expected to be less than 5 metres in X, Y, Z.

Complete geological logs for the holes are included as Appendix B and assay results are included as Appendix C. All of the split core samples were analyzed for gold, silver, copper, lead and zinc.

Cross-sections showing the 1996 diamond drill holes are included as Figures 4 to 11.

Hole B96CH1 (Figure 6)

Hole B96CH1 was drilled to test the theory that the mineralized zone at the south part of Martha Ellen follows the eastward-dipping contact between altered Unit 9 andesitic rocks and Premier Porphyry (Figures 3 and 4).

The hole is within Premier Porphyry to a depth of 129.48 metres. This rock contains phenocrysts of plagioclase, hornblende and potassium feldspar. The porphyry also contains about 1% quartz veinlets, and 1% pyrite as subhedral crystals averaging about 0.75 millimetres across.

From 129.48 to 135.82 metre depth, mineralized quartz breccia was cored. The breccia contains angular fragments of vein quartz and variably silicified andesite wallrock; the breccia has been rehealed by late silica. Both the upper and lower contacts of the mineralized zone are gradational across 5 to 20 centimetres. The mineralized zone contains pyrite, sphalerite and galena. Sphalerite occurs as irregular, brecciated veins and patches up to 25 by 120 millimetres across; sphalerite is usually rimmed by galena. Vein material from the lower part of the zone was stained by sodium cobaltinitrite. This stained material contains about 25% angular fragments 3 or 4 centimetres across with abundant potassium feldspar, within a siliceous matrix. From 130.00 to 132.50 metre depth the core assayed 0.228 oz/ton gold and 5.17 oz/ton silver.

From 135.82 to 334.06 metre depth mainly Unit 9 andesite lapilli tuff was cored in B96CH1. Alteration and stringer mineralization within this unit decrease downhole. The andesitic rocks are faulted in several places, and are also cut by mineralized quartz veins up to 84 centimetres wide. The andesitic rocks are also intruded by dykes of andesite, feldspar porphyry and Premier Porphyry up to 5.6 metres wide.

Hole B96CH2 (Figure 8)

Hole B96CH2 was drilled parallel to B96CH1, about 200 metres northwest of B96CH1.

TABLE 3

SUMMARY OF SIGNIFICANT INTERSECTIONS

Hole	From	To	Width (m)	Gold (oz/ton)	Silver (oz/ton)
B96CH1	130.00	132.5	2.5	0.228	5.17
	318.30	319.30	1.0	0.118	0.38
B96CH2	140.40	146.75	6.35	0.226	0.59
includes	141.40	142.90	1.50	0.869	2.20
B96CH3	168.50	169.00	0.50	0.074	0.09
B96CH4	39.79	40.59	0.80	0.002	1.72
B96CH5	59.50	60.50	1.00	0.156	0.06
	113.11	113.61	0.50	0.240	0.55
B96CH6	55.41	57.17	1.76	0.099	4.38
	60.17	61.17	1.00	0.102	0.47
	108.35	109.85	1.50	0.143	0.82
B96CH7	175.83	176.33	0.50	0.262	40.54
	245.90	246.70	0.80	0.100	0.15
	255.25	256.70	1.45	0.206	0.14
includes	255.25	255.75	0.50	0.494	0.23
	256.20	256.70	0.50	0.102	0.18
	263.68	263.98	0.30	0.446	8.66
B96CH8	131.80	132.40	0.60	Trace	0.61
B96CH9	268.30	269.30	1.00	0.068	0.23

The upper part of this hole is within Premier Porphyry similar to that in B96CH1; the porphyry extends to a depth of 105.36 metres. From 16.77 to 34.32 metres the porphyry is bleached, brecciated and contains quartz veins with open cavities lined by drusy quartz crystals. This vein quartz contains traces of dusty disseminated pyrite, galena and sphalerite.

From 90.86 to 91.61 metres and from 95.00 to 96.44 metres the rock is about 60% quartz with 5% pyrite and to 1% combined sphalerite and galena. The sulphides are finely disseminated within irregular masses up to 10 by 30 millimetres across; the sulphide masses generally have faint boundaries. Pyrite is most abundant near the margins of the silicified zones.

From 105.36 to 141.40 metres hole B96CH2 intersected massive porphyritic andesite with fine pale yellow-green leucoxene speckles. The contact between the Premier Porphyry and the andesitic rocks has a relatively consistent dip of 25 to 30 degrees to the east in this area.

From 141.40 to 142.90 metres the hole intersected 50% vein quartz breccia mineralized with pyrite, galena and sphalerite, and 50% intensely brecciated porphyry. The sulphides are most abundant along the margins of quartz and quartz-carbonate veins. High grade gold values occur in this area.

From 142.90 to 270.05 metre depth the hole was mainly in andesitic lapilli tuffs and porphyritic flows(?), with occasional late andesite dykes.

The mineralized zone along the Premier Porphyry contact in B96CH2 is better mineralized, though not as wide as the mineralized zone in hole B96CH1. In hole B96CH2 the Premier Porphyry nearby the andesite contact is finer grained, and more bleached, altered and brecciated than the Premier Porphyry near the andesite contact within hole B96CH1.

Hole B96CH3 (Figure 9)

This hole was collared 250 metres northwest of B96CH2, and like the first two holes it was designed to test the eastward-dipping contact between the Premier Porphyry and the underlying Unit 9 andesitic rocks.

From surface to 80.17 metres the hole intersected Premier Porphyry mainly similar to that seen in the first two holes. From 3.66 to 32.30 metres, however, the porphyry contains 2 to 3% finely disseminated pyrite with local traces of finely disseminated sphalerite, galena and chalcopyrite. This rock may be part of Dykes' Unit 6, surface exposures of which have been mapped eastward from the collar of B96CH3.

From 80.17 to 82.35 metres weakly mineralized quartz breccia with contacts at 60 degrees to the core axis was recovered. This unit contains disseminated pyrite, sphalerite and galena; the vein quartz gradually changes from medium grey at the top of the interval to pale grey-green at the bottom. A stained sample of mineralized rock from 82.25 metre depth contains 5% potassic fragments within a siliceous matrix.

From 82.35 to 128.56 metres the hole intersected massive to locally brecciated Unit 9 andesite. The rock is locally bleached across 10 to 40 centimetres where quartz-carbonate+/-pyrite-galena-sphalerite stringers are present.

From 128.56 to 128.83 metres weakly mineralized quartz breccia was intersected.

From 128.83 to 209.09 metres the hole intersected mainly dark grey, fine-grained intrusive diorite, probably of Tertiary age. Andesitic dykes up to 12.8 metres wide are present within this interval.

Hole B96CH4 (Figure 5)

This hole was collared approximately 175 metres southeast of B96CH1, and like the first three holes it was designed to test the eastward-dipping contact between the Premier Porphyry and the underlying andesitic rocks.

From surface to 146.53 metres the hole intersected Premier Porphyry mainly similar to that seen in holes B96CH1 and B96CH2. However, the porphyry is thicker and coarser-grained than that seen in the holes to the north. Possibly hole B96CH4 is collared near the source of the Premier Porphyry in this area. The rock locally contains 1% euhedral quartz phenocrysts, and also occasional subhedral to euhedral potassium feldspar megacrysts up to 15 by 8 millimetres. From 94.33 to 126.20 metres the rock has a pseudo-"fragmental" appearance due to sericite and silica alteration apparently related to pervasive fluid movement through the rock. A weathered surface exposure of this "fragmental" rock could possibly be mapped as a breccia dyke within the Premier Porphyry.

From 146.53 to 156.48 metres the hole intersected weakly mineralized quartz breccia which has been brecciated and rehealed by later silica. Spots of pyrite, galena and sphalerite up to a few millimetres across are evenly distributed throughout the unit. The rock locally contains wispy veinlets of blue-black carbonaceous material. A graphite veinlet 2 millimetres wide was seen at 149.75 metres. More or less altered, angular Premier Porphyry fragments to 8 centimetres across are present in the middle third of the interval; angular andesite fragments are present in the lower third of the quartz breccia interval.

Hole B96CH5 (Figure 11)

This hole was collared approximately 225 metres west-northwest of B96CH2. It was designed to test the presumed down-dip extension of the eastward-striking mineralized quartz vein exposed on surface in Trench "86." The mineralized quartz vein here cuts altered andesitic rocks. Trench "86" was sampled during 1986 work by Dykes. Chip samples from the trench contain up to 0.130 oz/ton gold and 41.82 oz/ton silver across 4 metres, and 0.104 oz/ton gold and 83.13 oz/ton silver across 4 metres.

From surface to 55.83 metres the hole intersected mainly green-grey, faintly banded andesitic tuff. There are local patches where sericite-altering fluids have moved through the rock.

From 55.83 to 77.00 metres the hole intersected mainly black, magnetic andesite dykes of Tertiary age. Some of these dykes are brecciated and contain veinlets of garnet, epidote and calcite.

From 77.00 to 101.61 metre depth the hole intersected a medium grained, moderately magnetic diorite dyke.

From 101.61 to 125.80 metres the hole intersected dark grey, fine grained, argillaceous andesite tuff. Quartz occurs both as pervasive alteration and as wormy veinlets. Sphalerite veinlets 1 to 3 millimetres wide, on average at about 60 degrees to the core axis, occur throughout much of the unit. No quartz breccia was intersected; the mineralization is of a different style than that seen along the base of the Premier Porphyry to the east.

From 125.80 to 135.03 metres a Tertiary andesite dyke was cored.

Hole B96CH6 (Figure 10)

Hole B96CH6 was drilled parallel to B96CH3, about 240 metres north-northeast of B96CH3.

The upper part of this hole is Premier Porphyry similar to that within B96CH3; the porphyry extends to a depth of 106.85 metres. Above 12.31 metres, books of pale mica up to 5 millimetres across are present. A weakly mineralized, locally banded quartz breccia is present from 55.41 to 57.17 metre depth; mineralized stringers occur both above and below this interval.

From 106.85 to 110.71 metres the rock is finely brecciated quartz breccia mineralized with pyrite, sphalerite and galena. The upper contact between the quartz breccia and the porphyry is at 55 degrees to the core axis; the lower quartz breccia contact is gradational.

From 110.71 to 154.23 metre depth very fine grained porphyry was cored. This unit may be an altered andesite porphyry of Unit 9, but contains no diagnostic leucoxene. This rock becomes less silicified and less brecciated with depth. The rock contains faint hornblende and plagioclase phenocrysts.

From 154.23 to 248.72 metres hole B96CH6 intersected mainly massive andesitic lapilli tuff, with rare sphalerite in carbonate-quartz veinlets. The rock has a local pervasive fabric subparallel the core axis.

Hole B96CH7 (Figure 8)

Hole B96CH7 was drilled parallel to and behind B96CH2; it was collared about 243 metres northeast of B96CH2.

The upper part of this hole is in Premier Porphyry similar to that within B96CH2; the porphyry extends to a depth of 224.21 metres. Dacite and rhyolite dykes intrude the porphyry. The late dykes intruding porphyry within other holes in this area are more commonly andesite. Sericite-altered patches are present below 180.35 metre depth.

From 224.21 to 227.91 metres quartz breccia weakly mineralized with pyrite, galena and sphalerite was recovered. This unit has been brecciated and rehealed by watery grey quartz. Pyrite is most abundant in topmost 30 centimetres and within lowermost 15 centimetres of unit. Late, off-white carbonate veins are present. The contacts between the quartz breccia and the wallrocks are at 37 and 48 degrees to the core axis.

From 227.91 to 273.10 metre depth andesite was recovered. Mineralized stringers to 30 millimetres wide are locally present within this unit. A massive sulphide band at 40 degrees to the core axis was cored from 263.72 to 263.95 metre depth. The sulphides are both banded and brecciated. The sulphide band contains about 50% sphalerite, 30% chalcopyrite, 2.5% pyrite and about 2.5% galena as well as about 10% vein quartz. Sulphide mineralization of this style was not seen in any of the other drill holes. The andesite wallrock is altered across a couple of centimetres at the upper contact, and across 30 centimetres at the lower contact.

Hole B96CH8 (Figure 4)

Hole B96CH8 was drilled parallel to holes B96CH1 and B96CH4 (Figure 3). It was collared about 175 metres south of B96CH4 to test for the possible southward extension of the mineralized zone at Martha Ellen, and also to test for the presence of Premier Porphyry in the same area.

The hole did not intersect typical Premier Porphyry. The rock cored is a medium to fine grained feldspar porphyry with plagioclase and hornblende phenocrysts, but only one (probable) potassium feldspar megacryst was observed at 39.55 metre depth. The rock is less quartz- and less carbonate-altered than typical Premier Porphyry from the area. Sericite-altering fluids have likely moved through the rock; a similar style of alteration is seen in core from a few of the other holes in the Martha Ellen area.

No mineralized quartz breccia was intersected in hole B96CH8.

Hole B96CH9 (Figure 7)

Hole B96CH9 was drilled parallel to, between and behind holes B96CH1 and B96CH2 (Figure 3). Hole B96CH9 was collared about 200 metres northeast of B96CH1. It was drilled to test for the down-dip extension of the mineralized quartz breccia seen in holes B96CH1 and B96CH2, along the Premier Porphyry/andesite contact. Surface geological mapping had outlined an area of abundant quartz veins in the vicinity of the collar.

The upper part of the hole is Premier Porphyry similar to that within B96CH2 and B96CH1; occasional zoned potassium feldspar megacrysts up to 13 by 26 millimetres across are present. This porphyry extends to a depth of 131.88 metres.

A major fault zone with broken core and gouge is present from 120.70 to 131.88 metre depth. The Premier Porphyry below the fault zone is altered by silica sericite and clay. Phenocrysts are obscured by the alteration, but are visible with a hand lens. This more altered porphyry extends from 131.88 to 206.59 metre depth.

From 206.59 to 282.24 metre depth generally uniform, massive to mottled andesite was recovered. No mineralized quartz breccia was intersected along the Premier Porphyry/andesite contact in this hole; perhaps the mineralized zone here has been displaced as a result of late faulting.

8.1 Analytical Methods

All of the split drill core samples collected were prepared and analyzed at the Premier Gold Assay Laboratory under the direction of Senior Assayer Rosa Craverio.

The core samples were oven dried and crushed in a jaw crusher to about minus 1/4". The samples were then cone crushed to minus 1/8", and then split using a riffle splitter. About 250 grams were then pulverized in a stainless steel ring and puck pulverizer.

Gold assays were done on a one-half assay ton aliquot by standard fire assay techniques using lead collection; silver was parted and the remaining gold bead weighted gravimetrically.

A separate aliquot of the pulp was digested with acid and analyzed for silver, copper, lead and zinc by atomic absorption.

Four hundred sixteen split core samples from the 1996 diamond drill holes were analyzed.

9.0 CONCLUSIONS

Six of the holes intersected the targeted quartz breccia zone along or near the eastward-dipping Premier Porphyry/andesite contact. Base metals were present in the mineralized quartz breccia from all of these six holes. Holes B96CH1 and B96CH2 contained the highest gold and silver concentrations. Gold and silver contents of the mineralized quartz breccia are variable. In addition, some of the mineralized quartz breccia contains fragments of potassium feldspar-altered material.

The above indicates that the geological model upon which the drilling was predicated is correct. A favourable setting for mineralization has been confirmed in the subsurface east of the Martha Ellen deposit.

10.0 RECOMMENDATIONS

Further drilling is warranted to test the prospective Premier Porphyry/andesite contact east of Martha Ellen.

Six to ten holes should be drilled during the next phase of work. Some of these holes should be spotted in the vicinity of holes B96CH1 and B96CH2, in order to follow-up on the favourable results from the 1996 drilling.

11.0 STATEMENT OF QUALIFICATIONS

I, David J. Pawliuk, of Nanoose Bay, in the Province of British Columbia, hereby certify that:

1. I reside at R.R. 2, Box 133, Garry Oaks, Nanoose Bay, British Columbia, V0R 2R0.
2. I hold a B.Sc. in Geology from the University of Alberta in 1975.
3. I am registered as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
4. I am registered as a Professional Geologist with the Association of Professional Engineers, Geologists and Geophysicists of the Province of Alberta.
5. I have practised geology in Canada since 1975.
6. I have no direct financial interest in this property.
7. I supervised the work described in this report.

DATED this 26th day of February, 1997 at Vancouver, British Columbia.

D. J. PAWLIUK

David J Pawliuk

David J. Pawliuk, B.Sc., P.Geo.
Geologist

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APPENDIX A

PERSONNEL

APPENDIX A

PERSONNEL

Name	Position	Company
Paul Lhotka	Senior Project Geologist	Westmin Resources Limited
David Pawliuk	Geologist	Westmin Resources Limited
Leigh Edwards	Cook	Westmin Resources Limited
Patrick Burns	Core Splitter	Westmin Resources Limited
Waylon Grue	Core Splitter	Westmin Resources Limited
F. Falardeau	Driller	F. Boisvenu Drilling Ltd.
C. Johnston	Driller	F. Boisvenu Drilling Ltd.
D. Cleveland	Drill Assistant	F. Boisvenu Drilling Ltd.
M. Leduc	Drill Assistant	F. Boisvenu Drilling Ltd.
S. Tarrant	Drill Assistant	F. Boisvenu Drilling Ltd.
J. Cleveland	Cat Operator	F. Boisvenu Drilling Ltd.

APPENDIX B

DRILL HOLE GEOLOGICAL LOGS

```
linek f                   T %     T   Q TEXT    M   U ST A TD ALTERATION   SULFIDES ALT
    e l  from    to       m MROCK    MAT    GRANI   N RU Z /I   MIN         MIN    MIN
    y a                   d X     MAT   FRAG    N   I CT   BP
      g                                             T
    /     #      #    rec QZX *  PFAX * * * FC%M*   * ** # ***QZLECYCBAKXXPYCPGLYYF1F2
    L                 rqd KS     CR   * * *           ** # ***KFMUCLEPHE  SSSVSL  M1M2
    R
    K     #      #
    0     1         2          3         4         5         6         7         8
    12345678.901234.567890123456789012345678901234567890123456789012345678901234567890
==================================================================================
  1 IDEN6B0202       S94CU28 BQTK941017PGL      BOISVEN94
  2 IPRJ            WESTMIN RESOURCES LTD.          KANSAS
  3 S  1  0.00   0.00
  4 R     0.00   0.00 SEC 700N -20E
  5 /     0.00   2.80        AXXS    GG+MXBR        P GC   B4085    V)    E1  E*  65
  6 L     0.00   2.80            5A                               Q+          E)  54
  7 R     0.00   2.80 V. SIMILAR TO UNIT OF SAME NAME IN 94-26 AND 27 WITH REPLACEMENT
  8 R     0.00   2.80 SULFIDES. METALLIC GREY SPHALERITE. ABRUPT END.
  9 FFLT  1.00   1.30
 10 R     1.00   1.30 MINOR FAULT AT 30 DEGREES TO CORE AXIS.
```

EXPLANANTORY NOTES:

AFTER THE TOP THREE HEADER LINES THERE ARE THREE MAIN TYPES OF LINE

"/" LINES ARE THE UPPER LINE OF A COUPLET WHICH CONTAIN THE INFORMATION FOR CODE ITEMS AS NOTED ABOVE

"L" LINES ARE THE LOWER LINE OF THE CUPLET AND CONTAIN CODES FOR DIFFERENT ITEMS

"R" LINES ARE SIMPLY FREE FORM TEXT COMMENTS

LASTLY

"K" LINE ARE SOMETIMES USED TO FLAG OTHER FEATURES (EG FAULTS) AND DO NOT CONTAIN ANY CODED INFORMATION EG "KTMN" MEANS "KEY TOP OF MINERALIZATION"

LITHOLOGIC UNIT TYPES (INDICATED IN COLUMN 47 IN / LINE)

"P" P-UNITS ARE THE PRIMARY ROCK TYPE AND MUST FORM A CONTINUOUS NON OVERLAPPING SEQUENCE FROM THE START TO END OF THE HOLE.

"R" R-UNITS ARE DIFFERENT TO THE ENCLOSING P-UNIT FOR EXAMPLE A SMALL ANDESITE DIKE IN SHALES THEY CAN FIT ANYWHERE IN THE P-UNIT CHAIN.

"D" D-UNITS ARE SUBUNITS OF THEIR HOST P-UNIT AND ARE THE SAME EXCEPT FOR THE CODES ENTERED IN THE D-UNIT.

"A" A-UNITS ARE THE SAME AS THE PREVIOUS P-NITS EXCEPT FOR WHATEVER IS CODED IN THE A-UNIT

NOTES ON CODE POSITIONING

CODES BEGIN IN COLUMN 21 FOR BOTH / AND L LINES

A. PHENOCRYSTS (TYPIFYING MATERIAL) ARE INDICATED AS FOLLOWS:

QUARTZ	/ COL 21-22	IN ALL CASES
K-SPAR	L COL 21-22	THE 1ST COLUMN IS THE SIZE FROM S-SCALE
PLAGIOCLASE	/ COL 28-29	THE 2ND COLUMN IS THE AMOUNT FROM THE G-SCALE
AMPHIBOLE	/ COL 30-31	

EG "J2" IN LCOL28-29 MEANS "K-SPAR PHENOCRYSTS OF 1.4MM MAKE UP 20% OF ROCK"

B. ROCK CODE

A FOUR LETTER ROCK CODE IN /24-27 SEE LIST OF ROCK CODES
EXAMPLE ABOVE MEANS "ANDESITE SILICIFIED"

C. %MIX

IN /COL23 INDICATES THE PERCENTAGE OF THE ROCK UNIT USING THE G-SCALE (NORMALLY 100% BUT COULD USE LESS EG A ZONE OF R-UNIT DYKES TOTALLING 70% OF THE INTERVAL)

D. ROCK COLOR IS IN L28-29 SEE LIST OF COLOR CODES TWO COLORS OR A COLOUR AND INTENSITY CAN BE ENTERED
EG "5A" MEANS "MEDIUM GRAY"

E. Q MAT (QUALIFYING MATERIAL IN / AND L 32-34)

IS USED TO INDICATE THE TYPE OF MATERIAL COL 32-33 AND AMOUNT COL 34 USING THE G-SCALE
EG."GG+" MEANS "GOUGE 2.5%"

F. TEXTURES (TWO DESCRIPTORS MAY BE USED IN /35-36 AND /37-38)

IN THE EXAMPLE "MX" MEANS "MASSIVE" AND "BR" MEANS "BRECCIATED"

G. FRAGMENT TYPES ARE INDICATED IN L35-36 AND L37-38 SEE CODE LIST

H. GRAIN SIZE IS INDICATED IN /39-42 WHERE
/39 IS THE FINE FRACTION USING S-SCALE
/40 IS THE COARSE FRACTION USING S-SCALE
/41 IS THE % OF COARSE FRACTION USING G-SCALE
/42 IS THE MAXIMUN SIZE USING THE G-SCALE

I. THE ROCK UNIT TYPE CODE IS IN /47 (SEE ABOVE)

K. STRUCTURES ARE INDICATED IN /49-50 AND/OR L49-50
EG "GC" MEANS GRADATIONAL CONTACT"

THE AZIMUTH OF THE STRUCTURE WOULD BE INDICATED IN /51-53 AND/OR L51-53

THE TOP OR BOTTOM OF A CONTACT IS INDICATED IN /54 AND/OR L54
EG THE "B" MEANS THE "BOTTOM GRADATIONAL CONTACT"

DIP OF A STRUCTURE TO CORE AXIS IS INDICATED IN /55-56 AND/OR L55-56 ORDINARY INTEGERS
EG "40" MEANS "40 DEGREES TO CORE AXIS"

L. ALTERATION MINERALS ARE INDICATED IN / AND L 57-68
EACH MINERAL HAS A SPECIFIC POSITION AS INDICATED WHERE THE H-SCALE AND G-SCALE INDICATE HOW THE OCCUR AND IN WHAT AMOUNT RESPECTIVELY.

QZ QUARTZ	KF K-SPAR
LE LEUCOXENE	MU MUSCOVITE/SERICITE
CY CLAY	CL CHLORITE
CB CARBONATE	EP EPIDOTE
AK ANKERITE	HE HEMATITE
XX USER DEFINED	XX HOW AND AMOUNT
USER DEFINED	RC RHODOCHROSITE
	BA BARITE
	JS JASPER
	AB ALBITE

FOR EXAMPLE "V)" IN /63-64 MEANS "CARBONATE OCCURS AS VEINS TOTALING 1%"
FOR OTHER USER DEFINED MINERALS THE MINERAL IS INDICATED IN /63-64 AND THE HOW AND AMOUNT OF THE USER DEFINED MINERAL ARE INDICATED IN L63-64

M. METALLIC MINERALS WORK EXACTLY THE SAME AS ALTERATION MINERALS AND ARE INDICATED IN /69-76 AND /69-76

PY PYRITE SS SULPHOSALTS
CP CHALCOPYRITE SV NATIVE SILVER
GL GALENA SL SPHALERITE
YY USER DEFINED YY HOW AND AMOUNT
USER DEFINED TD TETRAHEDRITE
EL ELECTRUM
RS RUBY SILVER
AP ARSENOPYRITE

N. ALTERATION SUMMARY IS IN /77-78 AND/OR /79-80
AND INDICATES THE TYPE OF ALTERATION (SEE CODES) AND INTENSITY (1-9 INCREASING)
FOR EXAMPLE "65" ABOVE MEANS "SILICIFICATION MODERATE" SEE N-SCALE

O. MINERALIZATION SUMMARY WORKS THE SAME AS ALTERATION SUMMARY BUT IN /77-78 AND/OR L79-80
EG "54" MEANS "PYRITE>GALENA + SPHALERITE LOW-MODERATE INTENSITY" SEE N-SCALE

↕↕

LIST OF SCALES

LC-COLOUR SCALE

COL 28

1	W	WHITE
2	9	PALEST
3	8	PALE
4	7	LIGHT
5	6	LIGHTER (M. LIGHT)
6	5	MEDIUM (50%)
7	4	DARKER (M. LIGHT)
8	3	DARK
9	2	VERY DARK
10	1	DARKEST
11	N	BLACK
12	COL 29	
13	R	RED
14	U	BROWN (UMBER)
15	O	ORANGE
16	T	TAN (KHAKI)
17	Y	YELLOW
18	L	LIME (Y-G)
19	G	GREEN
20	Q	AQUA (B-P)
21	B	BLUE
22	V	VIOLET (B-P)
23	P	PURPLE
24	M	MAUVE (P-R)
25	W	WHITE
26	A	GRAY
27	N	BLACK

G - SCALE

8	(	0.1 %
9	)	1 %
10	*	0.3 %
11	+	2.5 %
13	-	0.03 %
14	.	0.01 %
15	/	Non Determined Amount of
17	1	10 %
18	2	20 %
19	3	30 %
20	4	40 %
21	5	50 %
22	6	60 %
23	7	70 %
24	8	80 %
25	9	90 %
29	=	5 %
31	?	Possibly Present
56	X	100 %

N - SCALE

8	(	0.1 %
9	)	1 %
10	*	0.3 %
11	+	2.5 %
13	-	0.03 %
14	.	0.01 %
15	/	Non Determined Amount of
16	0	absent
17	1	trace
18	2	very low
19	3	low
20	4	fairly low
21	5	moderate
22	6	fairly high
23	7	high
24	8	very high
25	9	extremely high
29	=	5 %
31	?	Possibly Present
56	X	exceptionally high

H - SCALE

3	#	In Breccia Fillings,
4	$	as sheetings
8	(	0.1 %
9	)	1 %
10	*	as clasts,
11	+	as phenocrysts,
13	-	0.03 %
14	.	0.01 %
15	/	Non Determined Amount of
16	0	as spots,
17	1	occurs as amygdaloids,minor veins and disseminations,
18	2	occurs as macro veins and veins,
19	3	occurs as veins and dalmationite,
20	4	occurs as veins occasionally with envelopes,
21	5	occurs as veins often with abundant envelopes,
22	6	as Veins > Diss,Env,& Perv,
23	7	occurs as perv. dissem. = to veins,selvages and envelopes,
24	8	Occur as Diss,Env,& Perv, >Veins,
25	9	Flooded,
28	<	in micro veins,
29	=	5 %
30	>	in macro veins,
31	?	Possibly Present
33	A	in amygdaloids or cavity fillings,
35	C	as coatings,
36	D	as disseminations,
37	E	In Envelopes of Veins,
38	F	as framework crystals,
39	G	as gouge,
40	H	as Phenocryst Replacement,
41	I	as eyes or augens,
42	J	interstitial,
43	K	in stockwork,
44	L	as laminations or beds,
45	M	is massive,
46	N	as nodules,
47	O	as spots,
48	P	pervasive,
49	Q	as patches,
50	R	as rosettes,
51	S	in selvages,
52	T	as stainings,
53	U	as euhedral crystals,
54	V	as Veins,
55	W	in lenses,
56	X	massive,
58	Z	Primary Mineral in Rock

TEXTURES

1	BD	bedded,
2	BK	blocky,
3	BN	banded veins,
4	BR	brecciated,
5	F$	fissile,
6	FB	Flow Banded
7	FO	foliated,
8	FR	fragmented,
9	HO	homogeneous,
10	HT	heterogeneous,
11	IB	In-Situ Breccia
12	IC	intercalated,
13	LM	laminated,
14	LN	lensoidal,
15	MX	massive,
16	ND	nodular,
17	SC	schistose,
18	SL	slaty,
19	UF	uniform,
20	VR	varved,
21	XB	cross-bedded,
22	$$	slickensided,
23	IQ	inequigranular,
24	EQ	equigranular,
25	AM	amygdaloidal,
26	AG	augen,
27	CR	crenulated,
28	FB	FUBERITE
29	LV	LEVERITE
30	XC	cross-cutting,
31	XL	crystalline,
32	G;	graded bedding,
33	GN	gneissic,
34	GP	glomeroporphyritic,
35	<<	micro-veined,
36	>>	macro-veined,
37	PK	poikilitic,
38	PB	porphyritic,
39	P/	porphyroblastic,
40	VG	vuggy,
41	WL	welded,
42	VV	intense veining,
43	TB	thick bedded,
44	BC	bicoloured,
45	SP	spotted,
46	MT	mottled,
47	PO	porphyritic,
48	BR	Breccia
49	FI	Fiamme
50	CS	Carbonate Spots
51	IB	In-situ Breccia
52	OX	Oxidized
53	BN	Banded Veins
54	FO	Foliated,
55	SS	Slickensided

56	OX	Oxidized
57	BX	Brecciated,

STRUCTURAL IDENTIFIERS

1	BN	Banding at
2	BD	Bedding at
3	CV	Cleavage at
4	CN	Sharp Contact at
5	D/	Dyke at
6	F/	Fault at
7	SH	Shear at
8	GC	Contact Gradational,
9	LM	laminations at
10	VN	veins at
11	FO	foliation at
12	V5	Cb-(Qtz) Veins at
13	V2	Grey Chalcedony + Py Veins at
14	V1	Qtz-Kf Veins at
15	V0	Qtz - Carb Veins at
16	V3	Qz-(Py-Sl-Gl)-(Ss) Veins at
17	V4	Qz-Py-Ss Veins at
18	VP	Pyrite Veins at
19	V8	Qz-Cl-Cb Veins at
20	VS	Sericite Veins at
21	V6	Cb-Rc-Base Metal Veins at
22	V7	Cb-Qtz-Ser Veins at
23	F4	Fairly Low Foliation at
24	F2	Very Low Foliation at
25	FI	Faint Foliation at
26	F2	Very Weak Foliation at
27	F3	Weak Foliation at
28	F4	Fairly Weak Foliation at
29	F5	Moderate Foliation at
30	F6	Fairly Strong Foliation at
31	F7	Strong Foliation at
32	F8	Very Strong Foliation at
33	F9	Extremely Strong Foliation at
34	VO	as Qtz-(Cb)
35	F1	Faint Foliation at
36	VC	Cb-Gl-Ss veins at
37	F0	foliation at

T-SCALE

1	BN	Banding at
2	BD	Bedding at
3	CV	Cleavage at
4	CN	Sharp Contact at
5	D/	Dyke at
6	F/	Fault at
7	SH	Shear at
8	GC	Contact Gradational,
9	LM	laminations at
10	VN	veins at
11	FO	foliation at
12	V5	Cb-(Qtz) Veins at
13	V2	Grey Chalcedony + Py Veins at
14	V1	Qtz-Kf Veins at
15	V0	Qtz - Carb Veins at
16	0	THINLY LAMINAR (<0.2 cm)
17	1	LAMINATED (0.2 cm to 0.6 cm)
18	2	VERY THIN BEDDED (0.6 cm to 2 cm)
19	3	THIN BEDDED (2 cm to 6 cm)
20	4	MEDIUM THIN BEDDED (6 cm to 20 cm)
21	5	MEDIUM BEDDED (20 cm to 60 cm)
22	6	MEDIUM THICK (60 cm to 2 m)
23	7	THICK BEDDED (2 to 6m)
24	8	VERY THICK (6 to 20m)
25	9	EXTREMELY THICK (>20m)
26	F2	Very Weak Foliation at
27	F3	Weak Foliation at
28	<	micro-
29	F5	Moderate Foliation at
30	F6	Fairly Strong Foliation at
31	F7	Strong Foliation at
32	F8	Very Strong Foliation at
33	F9	Extremely Strong Foliation at
34	VO	as Qtz-(Cb)
35	F1	Faint Foliation at
36	VC	Cb-Gl-Ss veins at
37	F0	foliation at
38	PB	porphyritic,
39	P/	porphyroblastic,
40	VG	vuggy,
41	WL	welded,
42	VV	intense veining,
43	TB	thick bedded,
44	BC	bicoloured,
45	SP	spotted,
46	MT	mottled,
47	PO	porphyritic,
48	BR	Breccia
49	FI	Fiamme
50	CS	Carbonate Spots
51	IB	In-situ Breccia
52	OX	Oxidized
53	BN	Banded Veins
54	F0	Foliated,
55	SS	Slickensided

56	OX	Oxidized
57	BX	Brecciated,
58	Z	Primary Mineral in Rock

S - SCALE

1	BN	Banding at
2	BD	Bedding at
3	CV	Cleavage at
4	CN	Sharp Contact at
5	D/	Dyke at
6	F/	Fault at
7	SH	Shear at
8	GC	Contact Gradational,
9	LM	laminations at
10	VN	veins at
11	FO	foliation at
12	V5	Cb-(Qtz) Veins at
13	V2	Grey Chalcedony + Py Veins at
14	V1	Qtz-Kf Veins at
15	V0	Qtz - Carb Veins at
16	0	0.003 mm
17	1	0.008 mm
18	2	0.03 mm
19	3	0.12 mm
20	4	0.5 mm
21	5	2.0 mm
22	6	8.0 mm
23	7	16-64 mm
24	8	6.4-256 cm
25	9	25.6 cm to 1 m
26	F2	Very Weak Foliation at
27	F3	Weak Foliation at
28	<	micro-
29	F5	Moderate Foliation at
30	F6	Fairly Strong Foliation at
31	F7	Strong Foliation at
32	F8	Very Strong Foliation at
33	A	0.003-0.004 mm
34	B	0.004-0.004 mm
35	C	0.008-0.016 mm
36	D	0.016-0.03 mm
37	E	0.03-0.06 mm
38	F	0.06-0.12 mm
39	G	0.12=0.25 mm
40	H	0.25-0.50 mm
41	I	0.5-1.0 mm
42	J	1.0-2.0 mm
43	K	2.0-4.0 mm
44	L	4.0-8.0 mm
45	M	8.0-16.0 mm
46	N	16 mm - 3.2 cm
47	O	3.2-6.4 cm
48	P	6.4-13.0 cm
49	Q	13.0-25.0 cm
50	R	25.0-50.0 cm
51	S	0.5-1.0 m
52	T	1.0-2.0 m
53	U	2.0-4.0 m
54	V	4.0-8.0 m
55	W	> 8.0 m

DEGREE SCALE

1	BN	Banding at
2	BD	Bedding at
3	CV	Cleavage at
4	CN	Sharp Contact at
5	D/	Dyke at
6	F/	Fault at
7	SH	Shear at
8	GC	Contact Gradational,
9	LM	laminations at
10	VN	veins at
11	FO	foliation at
12	V5	Cb-(Qtz) Veins at
13	V2	Grey Chalcedony + Py Veins at
14	V1	Qtz-Kf Veins at
15	V0	Qtz - Carb Veins at
16	0	0 Degrees
17	1	1 Degrees
18	2	2 Degrees
19	3	3 Degrees
20	4	4 Degrees
21	5	5 Degrees
22	6	6 Degrees
23	7	7 Degrees
24	8	8 Degrees
25	9	9 Degrees
26	F2	Very Weak Foliation at
27	F3	Weak Foliation at
28	<	micro-
29	F5	Moderate Foliation at
30	F6	Fairly Strong Foliation at
31	F7	Strong Foliation at
32	F8	Very Strong Foliation at
33	A	0.003-0.004 mm
34	B	0.004-0.004 mm
35	C	0.008-0.016 mm
36	D	0.016-0.03 mm
37	E	0.03-0.06 mm
38	F	0.06-0.12 mm
39	G	0.12=0.25 mm
40	H	0.25-0.50 mm
41	I	0.5-1.0 mm
42	J	1.0-2.0 mm
43	K	2.0-4.0 mm
44	L	4.0-8.0 mm
45	M	8.0-16.0 mm
46	N	16 mm - 3.2 cm
47	O	3.2-6.4 cm
48	P	6.4-13.0 cm
49	Q	13.0-25.0 cm
50	R	25.0-50.0 cm
51	S	0.5-1.0 m
52	T	1.0-2.0 m
53	U	2.0-4.0 m
54	V	4.0-8.0 m
55	W	> 8.0 m

```
    NUMBER CODE SCALE
    =========================

  1  BN   Banding at
  2  BD   Bedding at
  3  CV   Cleavage at
  4  CN   Sharp Contact at
  5  D/   Dyke at
  6  F/   Fault at
  7  SH   Shear at
  8  GC   Contact Gradational,
  9  LM   laminations at
 10  VN   veins at
 11  FO   foliation at
 12  V5   Cb-(Qtz) Veins at
 13  V2   Grey Chalcedony + Py Veins at
 14  V1   Qtz-Kf Veins at
 15  V0   Qtz - Carb Veins at
 16  0   0
 17  1   1
 18  2   2
 19  3   3
 20  4   4
 21  5   5
 22  6   6
 23  7   7
 24  8   8
 25  9   9
 26  F2   Very Weak Foliation at
 27  F3   Weak Foliation at
 28  <   micro-
 29  F5   Moderate Foliation at
 30  F6   Fairly Strong Foliation at
 31  F7   Strong Foliation at
 32  F8   Very Strong Foliation at
 33  A   0.003-0.004 mm
 34  B   0.004-0.004 mm
 35  C   0.008-0.016 mm
 36  D   0.016-0.03 mm
 37  E   0.03-0.06 mm
 38  F   0.06-0.12 mm
 39  G   0.12=0.25 mm
 40  H   0.25-0.50 mm
 41  I   0.5-1.0 mm
 42  J   1.0-2.0 mm
 43  K   2.0-4.0 mm
 44  L   4.0-8.0 mm
 45  M   8.0-16.0 mm
 46  N   16 mm - 3.2 cm
 47  O   3.2-6.4 cm
 48  P   6.4-13.0 cm
 49  Q   13.0-25.0 cm
 50  R   25.0-50.0 cm
 51  S   0.5-1.0 m
 52  T   1.0-2.0 m
 53  U   2.0-4.0 m
 54  V   4.0-8.0 m
 55  W   > 8.0 m
```

DIP SCALE

1	BN	Banding at
2	BD	Bedding at
3	CV	Cleavage at
4	CN	Sharp Contact at
5	D/	Dyke at
6	F/	Fault at
7	SH	Shear at
8	GC	Contact Gradational,
9	LM	laminations at
10	VN	veins at
11	FO	foliation at
12	V5	Cb-(Qtz) Veins at
13	V2	Grey Chalcedony + Py Veins at
14	V1	Qtz-Kf Veins at
15	V0	Qtz - Carb Veins at
16	0	0 Degrees to Core Axis
17	1	1 Degrees to Core Axis
18	2	2 Degrees to Core Axis
19	3	3 Degrees to Core Axis
20	4	4 Degrees to Core Axis
21	5	5 Degrees to Core Axis
22	6	6 Degrees to Core Axis
23	7	7 Degrees to Core Axis
24	8	8 Degrees to Core Axis
25	9	9 Degrees to Core Axis
26	F2	Very Weak Foliation at
27	F3	Weak Foliation at
28	<	micro-
29	F5	Moderate Foliation at
30	F6	Fairly Strong Foliation at
31	F7	Strong Foliation at
32	F8	Very Strong Foliation at
33	A	0.003-0.004 mm
34	B	0.004-0.004 mm
35	C	0.008-0.016 mm
36	D	0.016-0.03 mm
37	E	0.03-0.06 mm
38	F	0.06-0.12 mm
39	G	0.12=0.25 mm
40	H	0.25-0.50 mm
41	I	0.5-1.0 mm
42	J	1.0-2.0 mm
43	K	2.0-4.0 mm
44	L	4.0-8.0 mm
45	M	8.0-16.0 mm
46	N	16 mm - 3.2 cm
47	O	3.2-6.4 cm
48	P	6.4-13.0 cm
49	Q	13.0-25.0 cm
50	R	25.0-50.0 cm
51	S	0.5-1.0 m
52	T	1.0-2.0 m
53	U	2.0-4.0 m
54	V	4.0-8.0 m
55	W	> 8.0 m

QUALIFYING MATERIALS

1	KF	K-FELDSPAR IN SIBX MATRIX
2	SI	SILICA IN SIBX MATRIX
3	CB	CARBONATE IN SIBX MATRIX
4	SL	SULPHIDE IN SIBX MATRIX
5	GG	GOUGE IN FAULT ZONE
6	VN	VEINS

ALTERATION FACIES

1	KF	K-FELDSPAR IN SIBX MATRIX
2	SI	SILICA IN SIBX MATRIX
3	CB	CARBONATE IN SIBX MATRIX
4	SL	SULPHIDE IN SIBX MATRIX
5	GG	GOUGE IN FAULT ZONE
6	VN	VEINS
7		
8	GC	Contact Gradational,
9	LM	laminations at
10	VN	veins at
11	FO	foliation at
12	V5	Cb-(Qtz) Veins at
13	V2	Grey Chalcedony + Py Veins at
14	V1	Qtz-Kf Veins at
15	V0	Qtz - Carb Veins at
16	0	Fresh Rock
17	1	Propylitic
18	2	Chlorite
19	3	Albite
20	4	Carbonate
21	5	5 Degrees to Core Axis
22	6	Silicification
23		
24	8	K-Feldspar Flooding
25	9	9 Degrees to Core Axis
26	F2	Very Weak Foliation at
27	F3	Weak Foliation at
28	<	micro-
29	F5	Moderate Foliation at
30	F6	Fairly Strong Foliation at
31	F7	Strong Foliation at
32	F8	Very Strong Foliation at
33	A	Argillic
34	B	0.004-0.004 mm
35	C	0.008-0.016 mm
36	D	0.016-0.03 mm
37	E	0.03-0.06 mm
38	F	0.06-0.12 mm
39	G	0.12=0.25 mm
40	H	0.25-0.50 mm
41	I	0.5-1.0 mm
42	J	1.0-2.0 mm
43	K	K-Feldspar Flooding
44	L	4.0-8.0 mm
45	M	8.0-16.0 mm
46	N	16 mm - 3.2 cm
47	O	3.2-6.4 cm
48	P	6.4-13.0 cm
49	Q	13.0-25.0 cm
50	R	25.0-50.0 cm
51	S	0.5-1.0 m
52	T	1.0-2.0 m
53	U	2.0-4.0 m
54	V	Qtz + Adularia Veins,
55	W	> 8.0 m

56	X	Hematite
57	BX	Brecciated,
58	Z	Primary Mineral in Rock

METALLIC MIN. FACIES

1	KF	K-FELDSPAR IN SIBX MATRIX
2	SI	SILICA IN SIBX MATRIX
3	CB	CARBONATE IN SIBX MATRIX
4	SL	SULPHIDE IN SIBX MATRIX
5	GG	GOUGE IN FAULT ZONE
6	VN	VEINS
7		
8	GC	Contact Gradational,
9	LM	laminations at
10	VN	veins at
11	FO	foliation at
12	V5	Cb-(Qtz) Veins at
13	V2	Grey Chalcedony + Py Veins at
14	V1	Qtz-Kf Veins at
15	V0	Qtz - Carb Veins at
16	0	Negligible,
17	1	Ss >Py+(Gl),
18	2	Ss-Gl-Py,
19	3	Py+Gl+(Sl) >Ss,
20	4	Sl+Gl >Py,
21	5	Py >Sl+Gl,
22	6	Pyrite in Addition To Normal Dissemination,
23	7	Barren Veins,
24	8	K-Feldspar Flooding
25	9	9 Degrees to Core Axis
26	F2	Very Weak Foliation at
27	F3	Weak Foliation at
28	<	micro-
29	F5	Moderate Foliation at
30	F6	Fairly Strong Foliation at
31	F7	Strong Foliation at
32	F8	Very Strong Foliation at
33	A	Argillic
34	B	0.004-0.004 mm
35	C	0.008-0.016 mm
36	D	0.016-0.03 mm
37	E	0.03-0.06 mm
38	F	0.06-0.12 mm
39	G	0.12=0.25 mm
40	H	0.25-0.50 mm
41	I	0.5-1.0 mm
42	J	1.0-2.0 mm
43	K	K-Feldspar Flooding
44	L	4.0-8.0 mm
45	M	8.0-16.0 mm
46	N	16 mm - 3.2 cm
47	O	3.2-6.4 cm
48	P	6.4-13.0 cm
49	Q	13.0-25.0 cm
50	R	25.0-50.0 cm
51	S	0.5-1.0 m
52	T	1.0-2.0 m
53	U	2.0-4.0 m
54	V	Qtz + Adularia Veins,
55	W	> 8.0 m

STRUCTURE DIP CODE

1	KF	K-FELDSPAR IN SIBX MATRIX
2	SI	SILICA IN SIBX MATRIX
3	CB	CARBONATE IN SIBX MATRIX
4	SL	SULPHIDE IN SIBX MATRIX
5	GG	GOUGE IN FAULT ZONE
6	VN	VEINS
7		
8	GC	Contact Gradational,
9	LM	laminations at
10	VN	veins at
11	FO	foliation at
12	V5	Cb-(Qtz) Veins at
13	V2	Grey Chalcedony + Py Veins at
14	V1	Qtz-Kf Veins at
15	V0	Qtz - Carb Veins at
16	0	Negligible,
17	1	Ss >Py+(Gl),
18	2	Ss-Gl-Py,
19	3	Py+Gl+(Sl) >Ss,
20	4	Sl+Gl >Py,
21	5	Py >Sl+Gl,
22	6	Pyrite in Addition To Normal Dissemination,
23	7	Barren Veins,
24	8	K-Feldspar Flooding
25	9	9 Degrees to Core Axis
26	F2	Very Weak Foliation at
27	F3	Weak Foliation at
28	<	micro-
29	F5	Moderate Foliation at
30	F6	Fairly Strong Foliation at
31	F7	Strong Foliation at
32	F8	Very Strong Foliation at
33	A	Argillic
34		SS- GL -PY,
35	C	0.008-0.016 mm
36	D	0.016-0.03 mm
37	E	0.03-0.06 mm
38	F	0.06-0.12 mm
39	G	0.12=0.25 mm
40	H	0.25-0.50 mm
41	I	0.5-1.0 mm
42	J	1.0-2.0 mm
43	K	K-Feldspar Flooding
44	L	4.0-8.0 mm
45	M	8.0-16.0 mm
46	N	16 mm - 3.2 cm
47	O	3.2-6.4 cm
48	P	6.4-13.0 cm
49	Q	13.0-25.0 cm
50	R	25.0-50.0 cm
51	S	0.5-1.0 m
52	T	Top
53	U	2.0-4.0 m
54	V	Qtz + Adularia Veins,
55	W	> 8.0 m

FRAGMENT TYPES

1	KF	K-FELDSPAR IN SIBX MATRIX
2	SI	SILICA IN SIBX MATRIX
3	CB	CARBONATE IN SIBX MATRIX
4	SL	SULPHIDE IN SIBX MATRIX
5	GG	GOUGE IN FAULT ZONE
6	VN	VEINS
7		
8	GC	Contact Gradational,
9	LM	laminations at
10	VN	veins at
11	FO	foliation at
12	V5	Cb-(Qtz) Veins at
13	V2	Grey Chalcedony + Py Veins at
14	V1	Qtz-Kf Veins at
15	V0	Qtz - Carb Veins at
16	0	type 1 non-porphyritic
17	1	Type 2 non-porphyritic
18	2	Plagioclase porphyritic
19	3	Amphibole porphyritic
20	4	Plagioclase and Amphibole prophyritic
21	5	Py >Sl+Gl,
22	6	Pyrite in Addition To Normal Dissemination,
23	7	Barren Veins,
24	8	K-Feldspar Flooding
25	9	9 Degrees to Core Axis
26	F2	Very Weak Foliation at
27	F3	Weak Foliation at
28	<	micro-
29	F5	Moderate Foliation at
30	F6	Fairly Strong Foliation at
31	F7	Strong Foliation at
32	F8	Very Strong Foliation at
33	A	Argillic
34		SS- GL -PY,
35	C	0.008-0.016 mm
36	D	0.016-0.03 mm
37	E	0.03-0.06 mm
38	F	0.06-0.12 mm
39	G	0.12=0.25 mm
40	H	0.25-0.50 mm
41	I	0.5-1.0 mm
42	J	1.0-2.0 mm
43	K	K-Feldspar Flooding
44	L	4.0-8.0 mm
45	M	8.0-16.0 mm
46	N	16 mm - 3.2 cm
47	O	3.2-6.4 cm
48	P	6.4-13.0 cm
49	Q	13.0-25.0 cm
50	R	25.0-50.0 cm
51	S	0.5-1.0 m
52	T	Top
53	U	2.0-4.0 m
54	V	Qtz + Adularia Veins,
55	W	> 8.0 m

ROCK NAMES

1	ALXX	ANDESITE LAPILLI TUFF
2	ATXX	ANDESITE TUFF
3	AFPX	PORPHYRITIC ANDESITE
4	AXXX	ANDESITE, NONDESCRIPT
5	BXXX	BRECCIA, BLACK MATRIX
6	FZXX	FAULT ZONE
7	FXXX	FAULT
8	AM*X	"MESSY" ANDESITE
9	SXXX	SEDIMENTS
10	SA/9	INTERMIXED ANDESITE/ARGILLITE
11	SAXX	ARGILLITE
12	CTUF	CHERTY TUFF
13	AXXS	ANDESITE, SILICIFIED
14	ALXS	ANDESITE LAPILLI TUFF, SILICIFIED
15	QBXX	QUARTZ BRECCIA
16	QBXD	QUARTZ BRECCIA, DISSEMINATED SULFIDE 2-10%
17	QBXS	QUARTZ BRECCIA, SEMIMASSIVE SULFIDE 10-25%
18	QBXM	QUARTZ BRECCIA, MASSIVE SULFIDE >25%
19	VMXX	VEIN, MINERALIZED
20	V3XX	VEIN, LATE STAGE QUART-CALCITE+-CHLORITE
21		
24		

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25
  KEY NAMES
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 1  MN   MINERALIZATION
 2  IB   IN-SITU BRECCIA
 3  SA   SERICITE ALTERATION
 4  IA   INTENSE ALTERATION
 5  SB   SILICEOUS BRECCIA
 6  FR   FRACTURE ZONE
 7  FZ   FAULT ZONE
 8  VG   VISIBLE GOLD/ELECTRUM
 8  BK   BROKEN CORE
 9  FL   FAULT
10  C1   10% CORE LOSS
11  C2   20% CORE LOSS
12  C3   30% CORE LOSS
13  C4   40% CORE LOSS
14  C5   50% CORE LOSS
15  C6   60% CORE LOSS
16  C7   70% CORE LOSS
17  C8   80% CORE LOSS
18  C9   90% CORE LOSS

  FLAG NAMES
    ========================

 1  FAL   MAJOR FAULT
 2  CON

  XX MINERALS
    ========================

 1  LE   Leucoxene
 2  AK   Ankerite
 3  RC   Rhodocrosite
 4  BA   Barite
 5  X1   Unknown mineral
 6  96   zzz
 7  JS   Jasper
 8  AB   Albite

  YY MINERALS
    ========================

 1  SS   Sulphosalts
 2  SV   Native Silver
 3  TD   Terahedrite
 4  EL   Electrum
 5  RS   Ruby Silver
 6  Y1   Unknown mineral
 7  AP   Arsenopyrite
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line  k  f                           T  %       T     Q  TEXT      M    U  S   A    D ALTERATION       SULFIDES    ALT. FACIES
      e  l    from      to           m   ROCK       MAT     GRA   I    N  R   Z  / I    MIN              MIN       MIN. FACIES
      y  a                           d  X       MAT     F  AG     N    I  CT       P
         g                                                             T
      /       #         #    rec     Q     *    PF A   *  *  *       *    *  **  #  * ** Q  LE C  C  A  X  P  C  G  Y  F1 F2
      L                      rqd     KS         CR     *  *  *            **  #  * ** K  M  C  E  HE    S  S  SL    M  M2
      R
      K       #         #
      0           1               2          3          4          5          6          7          8
      1234 5678.90  1234.56  7890 12 34567 89 01 234 56 78    34 56  90 123  56 78 90 12 34 56 78 90 12 34 56 78 90
==== ==== ======== ======== ==== == ===== == == === == == == == == == == == === === == == == == == == == == == == == ==
   1 IDEN6B0202   B96CH1  NQ  960812      BOISVEN
   2 I DP               WESTMIN RESOURCES LTD.          MARTHA ELLEN
   3
   4 /          0.00      6.10          CASN                          P
   5 /          6.10     95.27          PIKX  KF 5= VN+ M  B       6  P  V5         V+       V+       8)          26
   6 L                                        AG                                          '<-                    62
   7 R                                        PY AS SUBHEDRAL XTALS AV. 0.75 MM THROUGHOUT PORPHYRY
   8 R                                        AND SOME VEINS. PATCHY PERV. SILICA(?)-ALTD PORPHYRY
   9 R                                        WHERE FELDSPAR PHENOS  FAINT FROM 31.04 - 34.17. 39.36 - 39.83.
  10 R                                        WATER LOST AT 36.9 M. BLEACHED FROM 8.32 - 6.57. 9.53 - 9.85.
  11 R                                        23.08 - 23.93. SUBHEDRAL TO EUHEDRAL PY XTALS TO 1 MM FORM
  12 R                                        60 % / QTZ 40% IN RARE VEINS TO 7 MM WIDE. BELOW 37.2 M
  13 R                                        SOOTY PY WITH WATERY GREY QTZ VLTS TO 7 MM.  AV. 2 %
  14 R                                        QZ-CL-CB LATE VEINS. BELOW 69.0 HORNBLENDE PHENOS
  15 R                                        1 % AS EUHEDRAL LATHS TO 10 x 3 MM. MORE OR LESS CL-ALTD.
  16 R                                        KSPAR MEGACRYSTS AT 73.50 STAIN BRIGHT YELLOW.
  17
  18 /         49.37     49.82          PIKX           BR                 D             65       V2       D)    D-    66
  19 L                                                                                                         D.
  20 R                                        20 % DISSEMINATED PY IN BRECCIATED BAND (OR VEIN?)
  21 R                                        2.5 CM WIDE AT 40 DEGREES AT 49.43 M.
  22 /         57.78     57.96          PIKX                              D                               D+
  23 L                                        NG                                                P)
  24 /         66.28     66.40          FALT     GG.                      R  F/      52
  25 R                                        SMEAR SOOTY PY ON SLIP AT 66.28; MOSTLY HEALED.
  26 /         66.73     67.03          PIKX           BR                 D  CN      63       V2             D)
  27 L
  28 /         95.27    129.48          PIKX  KF   VN= BR       +5        P               7=       V+       D+
  29 L                                        GA                                                P+ P)
  30 R                                        MORE ALTERED AND BRECCIATED PORPHYRY THAN ABOVE;
  31 R                                        MORE QZ-CB AND QZ-CB-PY VEINS THAN ABOVE.
  32 R                                        BI IN BROWN-FLESH COLORED PATCHES UP TO 25 MM ACROSS.
  33 R                                        FELDSPAR PHENOS SMALLER AND ROCK SOFTER THAN UPHOLE.
  34 R                                        MOST VEINS AT 35 TO 50 DEGREES. BX'D QZ-PY VN 4 MM WIDE AT
  35 R                                        35 DEGREES AT 128.23 WITH TRACE GALENA(?).
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36 R                                 PATCHY MODERATE KSPAR ALTERATION OF PORPHYRY AT 127.40
37 R
38 /      103.45  105.49        PIKX         BR             D          83 P)  V*     D=   D-   62
39 L                                                                                      D.   52
40 /      105.39  105.39        PIKX         BR             D          83 P)  V*     D=   D-   62
41 R                                 SMEAR OF SOOTY PY, SER AND FINELY BKN CORE ON SLIP.
42 /      129.48  135.82        SIBX      VN7 B B     8     P GC    T  67     V)     6+   S*   67
43 L                                 WA                       GC    B  P1 Q*              Q)   56
44 R                                 REHEALED SILICEOUS BRECCIA WITH ANGULAR FRAGMENTS OF
45 R                                 VEIN QUARTZ AND VARIABLY SILICIFIED ANDS WALLROCK WITHIN
46 R                                 SILICEOUS MATRIX. MINOR LATE OFF-WHITE CB-QZ VEINS,
47 R                                 VEINLETS TO 6 MM WIDE. GRADATIONAL CONTACTS OVER 5 TO
48 R                                 20 CM AT ZONE MARGINS. SL AS IRREGULAR, BRECCIATED VEINS
49 R                                 AND PATCHES, LIGHT BROWN, TO 2.5 X 12 CM. SL USUALLY
50 R                                 RIMMED BY GL. PY MAINLY DISS ALONG IRREGULAR, SHORT
51 R                                 DISCONTINUOUS FRACTURES. BEST MINERALIZED FROM
52 R                                 131.30 - 131.75, 132.00 - 132.32. TWO SAMPLES OF VEIN
53 R                                 MATERIAL FROM LOWER PART OF ZONE CONTAIN 25 % ANGULAR
54 R                                 KSPAR BRECCIA FRAGMENTS UP TO 3 OR 4 CM ACROSS WITHIN A
55 R                                 MILKY WHITE SILICEOUS MATRIX.
56 /      134.60  135.05        AXXX      MX                D CN     45        V)     D=   D.
57 L                                 UG                                    P)              D-
58 R                                 UPPER CONTACT DISCRETE.
59 /      135.82  169.80        AXLT         M  B     8     P        6)     V*     D+
60 L                                 GA                                 P+ P)
61 R                                 ALTERATION AND MINERALIZATION DECREASE WITH DEPTH.
62 R                                 WATERY GREY TO OFF-WHITE QUARTZ VEINS OFTEN FAINTLY
63 R                                 BANDED. VEINS TO 12 MM WIDE ABOVE 142.50 CONTAIN
64 R                                 IRREGULAR PY MASSES. PATCHY WEAK TO MODERATE KSPAR STAIN
65
66 /      149.50  149.50        FALT      GG.               R F/     33
67 R                                 BLACK CL ON SMOOTH SLIP.
68 /      149.50  149.97        AXLT                        D          73
69 L                                 GA
70 /      150.80  150.80        FALT      GG.               R F/     40
71 R                                 4 MM BLACK CL. PY AND FINELY CRUSHED CORE.
72 R                                 WALLROCK FINELY BRECCIATED AND REHEALED ACROSS
73 R                                 15 TO 25 CM BOTH ABOVE AND BELOW FAULT.
74 /      150.65  151.32        AXLT         BR             D          72
75 L                                                                          P= P)
76 /      155.15  156.10        AXLT         BR             D CN     25 64         D1
77 L                                 GU                                    P+
78 /      169.20  172.56        DXPX PF      M  B     6     P F/     20            D+
79 L                                 UW                               25   P+ P*
80 R                                 PALE GREENISH BROWN, BLEACHED. BANDED WATERY GREY
81 R                                 VEIN QUARTZ ALONG LOWER DYKE CONTACT. CHILLED MARGINS.
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 82 /        169.20   169.80          FALT                            R  F/      20
 83 R                                       MODERATELY BROKEN CORE; CL SLIP AT 169.62.  FAIRLY MAJOR FAULT.
 84 /        172.56   174.40          AXLT                            A
 85 R                                       AS FOR 135.82 - 169.80.
 86 /        172.85   172.85          FALT       GG*                  R  F/      10
 87 R                                       CLAY AND PY GOUGE ON SLIP.
 88 /        174.40   180.00          DXPXA  KF      M  B      6      P  CN      15                            D)
 89 L                                       UG                           F/      50   P) P)
 90 R                                       SOMEWHAT ALTERED, NON-MAGNETIC.
 91 /        177.00   178.80          AXLT                            R
 92 R                                       AS FOR 135.82 - 169.80.
 93 /        178.65   178.80          FALT                            R
 94 R                                       15 CM MODERATELY BROKEN CORE;; ?? ORIENTATION.
 95 /        180.00   205.06          AXLT                            P
 96 L                                       GA
 97 R                                       AS FOR 135.82 - 169.80.
 98 /        189.87   190.19          DIDI                            R  CN      70
 99 L                                       3A
100 /        190.84   191.72          DIDI                            R  CN      55
101 L                                       3A
102 /        197.46   198.77          PIKX  KF PF                     R  CN      22         V+
103 L                                       G
104 R                                       APPEARS TO BE TWO GENERATIONS OF PORPHYRY. LATE CB
105 R                                       VEINS TO 13 MM WIDE, RANDOMLY ORIENTED.
106 /        203.40   203.45          VEIN                            R  CN      35 V6      V4      D)
107 R                                       4 CM WIDE.
108 /        205.06   255.23          D/AN  AX       M  F      6      P  CN      40                 D*
109 L                                       GA                                        P) P)
110 R                                       BRECCIATED PY-QZ-CB +/- PY VEINS AT
111 R                                       212.00, 219.25, 238.70 4 MM WIDE AT 15 DEGREES. UNIT MAY
112 R                                       BE MASSIVE FLOW.
113 /        210.70   212.18          D/AN           BR                  CN      50
114 R                                       MODERATELY BRECCIATED BAND. BX'D PY-QZ-SL(?) VEIN 15 MM
115 R                                       WIDE SUBPARALLEL CORE AXIS FROM 211.80 -212.18.
116 /        223.05   223.50          AFXX           BR               D  CN      25 V1      V*      D*   D.
117 L                                                                                 P*                 D)
118 R                                       SL AS REDDISH BROWN MASSES AV. 1 TO 1.5 MM. GL AS FAINT
119 R                                       DISSEMINATIONS AND AS WISPY MASSES. UPPER CONTACT CHLORITIC
120 R                                       SLIP AT 25 DEGREES.
121 /        225.70   226.20          AFXX           BR               D  CN      15 84      V)      D)   Q)
122 L                                                                                 P) P)              <*
123 R                                       LIGHT REDDISH BROWN TO BROWN -ORANGE, MOSTLY AS MASSES 2 TO 4 MM. GL
124 R                                       PATCHES TO 3 X 10 MM. NO CP SEEN. VEIN QZ MAINLY WATERY GREY.
125 /        224.79   245.27          AFXX           BR               D  CN      20 63      V)      Q=   D-
126 L                                                                                 P) P+              Q*
127 /        225.23   289.41          AXLT           MT        7      P  CN      25 V+      V*   D*
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128 L                                   G                                      P) P)
129 /      259.30   259.93         SBXX QZ       B BN           R CN    B'20 >7     V)     D)   D<
130 L                                   WA                                  V1   D*            D*
131 R                                   VEIN OFF-WHITE TO WATERY GREY TO PALE GREEN, WITH 20 % INCLUSIONS
132 R                                   OF BRECCIATED WALLROCK. SULPHIDES MAINLY BLEBBY DISSEMINATIONS WITHIN
133 R                                   CERTAIN GREY VEIN QUARTZ  BANDS.
134 /      264.70   264.80         AXLT                         D VN      25
135 R                                   BX'D QZ - SL - GL - CL VEIN 12 MM WIDE AT 25 DEGREES.
136 /      267.48   268.75         AXLT          B MT           D           V2      V*     D+   D-
137 L                                                                              P) P+           D*
138 R                                   INTENSELY BRECCIATED, REHEALED; PALE GREEN VEIN QUARTZ.
139 R                                   SULPHIDES AS BLEBS AV. 2 TO 4 MM
140 /      269.41   274.77         D/AN          MX      5      P CN      32 V*     A)     D*
141 L                                   GA                                     P) P)
142 /      274.77   302.45         AXLT          M B     7      P           V)      V+     D+
143 L                                   G                                      P) P)
144 R                                   PY VEIN 4 MM WIDE AT 20 DEGREES AT 276.35. D/AN 20 MM  WIDE AT 15 DEGREES AT
145 R                                   AT 279.26; DYKE CLOUDY, APHANITIC, LIGHT GREEN GREY.
146 R                                   QZ-SL-GL-PY STRINGERS AT 15 TO 40 DEGREES AT 294.98, 295.86, 298.25, 298.98,
147 R                                   299.90 AND 300.73.
148 /      284.70   285.15         D/AN                         R CN      60
149 L                                   3A
150 R                                   MODERATELY MAGNETIC. LIGHT GREEN, CLOUDY, CHILLED MARGINS.
151 /      290.60   292.10         D/AN                         R
152 L                                   3A
153 /      293.05   295.60         D/AN                         R
154 L                                   3A
155 /      302.45   303.29         SBXX          B MT             CN      20 67            D+   D-
156 L                                   WG                       BGC        P1   P)            D)
157 R                                   SULPHIDES MAINLY AS DUSTY DISSEMINATIONS WITHIN AND ALONG MARGINS
158 R                                   OF EARLIER VEIN QUARTZ. LATER QZ-CB VEINS OFF-WHITE AND UNMINERALIZED.
159 R                                   LOWER CONTACT GRADATIONAL ACROSS 5 CM. KSPAR VEIN CUT BY LATER WHITE
160 R                                   VEIN QUARTZ.
161 /      303.29   320.28         AXLT          MT      8        F/      61     V*     D+  D-
162 L                                   GA                                  P* P)           D*
163 R                                   MODERATELY BRECCIATED, MODERATELY SILICIFIED WITH 5 % PY BELOW 316.75
164 R                                   SAY 20 % AFXX(?) WITH CB FILLING AMYGDULES. FAULT CONTACT WITH UNDERLYING
165 R                                   DYKE MARKED BY MODERATELY TO FINELY BROKEN CORE ACROSS 17 CM.
166 R                                   QZ-PY-CL-SL-GL VEIN ABOUT 20 CM WIDE AT 20 DEGREES AT 314.50.
167 R                                   318.30-318.90 WATERY GREY QZ-PY-GL-SL VEIN APPROX. 15 MM WIDE SUBPARALLEL
168 R                                   C.A. WK KSPAR STAIN IN PATCHES WITH FAINT MARGINS AT 318.40.
169 /      316.30   316.30         FALT                         R F/      20
170 R                                   HEALED PYRITIC SLIP.
171 /      319.07   319.07         FALT      GG-                R F/      25
172 R                                   SMEAR CLAYEY, SERICITIC GOUGE ON SMOOTH SLIP/
173 /      320.28   321.80         D/FP PF       MX      4      P
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174 L                                    GW
175 R                                    EUHEDRAL WATERY GREY PLAG LATHS. NON-MAGNETIC. BOTH TOP AND
176 R                                    BOTTOM CONTACTS FAULTED -ORIENTATION NOT MEASUREABLE.
177 /       321.80   334.06         AXXX            MX      5    P         V)      V*     D*    D.
178 L                                    GA                                   P) P)             D-
179 /       334.06                       END OF HOLE
180 RSUM                                 MINERALIZED STRINGERS AT 327.06, 327.40, 327.56, 333.20 ALL AT APPROX.
181 RSUM                                 50 DEGREES TO C.A., AND FROM 4 TO 30 MM WIDE.
182 RSUM                                 FIRST HOLE 1996 PROGRAMME.  MAIN ZONE INTERSECTED IMMEDIATELY
183 RSUM                                 UNDERLYING THE PREMIER PORPHYRY. ONLY OCCASIONAL STRINGERS
184 RSUM                                 BELOW THE MAIN ZONE. NO CP NOR V.G. SEEN.
185 RSUM                                 TROPARI AT 332.23 M AZ. 254 DEGREES, INCLIN. -55 DEGREES.
186 RSUM                                 ACID TEST AT 324.92 M - 51 DEGREES.
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line  k f                         T %       T      Q  TEXT        M     U S    A     D ALTERATION      SULFIDES   ALT. FACIES
      e l    from        to       m  ROCK       MAT        GRA I     N R    Z  /  I    MIN              MIN      MIN. FACIES
      y a                         d X       MAT       F  AG       N     I CT          P
        g                                                               T
      /        #          #   rec Q     *   PF A  •   *  *        *     *  **   #  * ** Q  LE C  C  A  X  P  C  G  Y  F1 F2
      L                       rqd KS        CR    •   *  *                 **   #  * ** K  M  C  E  HE    S  S  SL    M  M2
      R
      K        #          #
      0          1               2           3           4            5            6             7              8
      1234 5678.90  1234.56  7890 12 34567 89 01 234 56 78      34 56   90 123   56 78 90 12 34 56 78 90 12 34 56 78 90
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   1 IDEN6B0202    B96CH2  NQ  960814        BOISVEN
   2 I DP              WESTMIN RESOURCES LTD.           MARTHA ELLEN
   3
   4 /          0.00        3.66          CASN                         P
   5 /          3.66      105.36          PIKX  KF P   VN)  M  B  '   ' '6   P              V)        V*        D*         26
   6 L                                          AG                                              P+ P*                     62
   7 R                                          MEDIUM GREEN-GREY, COMPETENT ROCK WITH KSPAR, PLAG AND HBLD
   8 R                                          PHENOS ALL PRESENT. HBLD PHENOS LIGHT COLOURED, EUHEDRAL,
   9 R                                          SERICITE ALTERED. PERVASIVE STAIN ENVELOPES OF ORANGE-BROWN
  10 R                                          EUHEDRAL XTALS 1 MM ACROSS AND ALSO AS DUSTY DISSEMINATIONS.
  11 R                                          LATE QZ-CB VEINLETS MOSTLY 2 TO 5 MM WIDE,ABOUT 50 DEGREES
  12 R                                          FEW 3 TO 5 CM WIDE WITH GREENISH BLACK CHLORITE. PORPHYRY
  13 R                                          DARKER THAN IN HOLE B96CH01. LARGER KSPAR MEGACRYSTS APPEAR
  14 R                                          TO BE ZONED, ONE OF 7 X 12 MM. ORANGE ZEOLITE OR FELDSPAR
  15 R                                          IN CB VEINLET AT 50.05. MODERATE KSPAR IN MATRIX AND MEGACRYST
  16 R                                          STAINED, AT 81.80 M.
  17
  18 /         16.77       34.32          PIKX             B  MX           D              V=   P1          D)   D*    66
  19 L                                          UW                                             P+                D*
  20 R                                          BLEACHED PALE CREAMY BROWN PORPHYRY, OFTEN MODERATELY
  21 R                                          BRECCIATED WITH WATERY GREY TO OFF-WHITE QZ VEINS AS
  22 R                                          BRECCIA MATRIX; THERE ARE OPEN CAVITIES TO 2 X 5 CM LINED BY
  23 R                                          DRUSY QZ XTALS. BLEACHED ENVELOPE ALONG FAULT. > 50 % VEIN
  24 R                                          QZ (MINERALIZED) FROM 16.77 - 17.07, 23.40 - 24.92 (AT 42 DEGREES TO C.A.)
  25 R                                          26.55 -26.85 (AT 60 DEGREES TO C.A.). LIMONITE STAIN ENVELOPES ALONG
  26 R                                          FRACTURES. DUSTY DISSEMINATED SULPHIDES. GRADATIONAL CONTACT
  27 R                                          BETWEEN BLEACHED AND UNBLEACHED PORPHYRY AT BOTTOM OF INTERVAL.
  28 R                                          QZ VEINS LIKELY TERTIARY AGE.
  29 /         25.30       25.30          FALT      GG)                    R  F/        23
  30 R                                          3 MM PALE GREY CLAYEY GOUGE.
  31 /         75.94       78.46          PIKX             M  BR           D              V+   P1          D+
  32 L                                          UW                                        V)  P+
  33 R                                          BLEACHED ENVELOPE AROUND FAULT AT 77.80. VN QZ HERE WHITE,
  34 R                                          BARREN, WITHOUT OPEN CAVITIES. CREAMY FELDSPAR WITHIN MOST OF
  35 R                                          THE QZ VEINS. GRADATIONAL MARGINS ACROSS 3 CM BOTH TOP AND BOTTOM
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36 R                                    OF BLEACHED INTERVAL.
37 /       77.70     77.97         FALT                         R
38 R                                    MODERATELY BROKEN WITH SOME GOUGE ON FRACTURE SURFACES.
39 '/      85.12     98.90         PIKX                         D            '7+  P)        D)
40 L                                    GA                                     P+
41 R                                    LIGHT GREYISH GREEN AND GREYISH BROWN PATCHES. STREAMING SERICITE
42 R                                    AND QUARTZ ALTERATION HAS OCCURRED GIVING ROCK THE APPEARANCE OF BRECCIA.
43 L                                    93.7 STAINED FOR KSPAR; 2 -3 % IN MATRIX. FROM 90.86 - 91.61 AND 95.00 - 96.44 ROCK CONTAINS 60
44 R                                    60 % QUARTZ, 5 % PYRITE (MOST ABUNDANT NEAR MARGINS OF SILICIFIED ZONES), AND
45 R                                    0.5 TO 1 % COMBINED SL AND GL. SULPHIDES DUSTY DISSEMINATIONS, AND WITHIN IRREGULAR
46 R                                    MASSES UP TO 10 X 30 MM ACROSS. SULPHIDE MASSES GENERALLY HAVE FAINT BOUNDARIES.
47 R                                    IRREGULAR PY VLT 2 MM WIDE AT 15 DEGREES AT 96.23 M DEPTH.
48 /                               PIKX                           CN      50 V+             8)   V)
49 L                                                              CN      50   P+                  V-
50 R                                    BAND OF SLIGHTLY BLEACHED, LIGHT GREEN PORPHYRY WITH QZ-GL-PY-SL VLTS AV.
51 R                                    3 TO 4 MM WIDE SUBPARALLEL C.A., AND AT ABOUT 40 DEGREES TO C.A. VLTS
52 R                                    CONTINUE TO 103.25 M.
53 /      103.25    104.14         VEIN                           CN      20
54 L                                    W                         CN      65
55 R                                    OFF -WHITE QZ-CB-CL VEIN.
56 /      105.36    141.40         AXPX          M B      5     P F1      20 P P*           D)   D.
57 L                                    4G                                        P+             D-
58 R                                    VERY FINE SPECKLES YELLOW-GREEN LEUCOXENE. PERVASIVE
59 R                                    GREEN CL(?) ALTERATION; FAINT PHENOCRYSTS. OFTEN GREENISH
60 R                                    BLACK CL COATING FRACTURE SURFACES. FAINT FABRIC
61 R                                    AT 20 DEGREES. ANDESITE PORPHYRY?
62 /      106.06    106.06         VEIN                         R CN      60
63 L                                    W                         CN      43
64 R                                    OFF-WHITE QZ-CB-CL VEIN.
65 /      129.10    129.10         VEIN                         R CN      18 V7             D+   V2
66 L                                    AB
67 R                                    GREYISH BLUE QZ-GL-PY VEIN 7 MM WIDE.
68 /      131.41    131.41         FALT      GG*                R         34
69 R                                    SMEAR GREY, CLAYEY GOUGE ON SMOOTH SLIP.
70 /      134.19    134.43         PIKX          BR             D CN      30 P4     V=      D=   D*
71 /      141.40    142.90         QBXX          BR             P CN      20 76     V+      7)   7+   66 41
72 L                                    6A                        CN      27   P) P*             Q+   44
73 R                                    VEIN QUARTZ AS PALE GREY, IRREGULAR MASSES WITHIN MATRIX; FAINT
74 R                                    MARGINS. CB AS LATE WHITE VEINS. INTERVAL ABOUT 50 % INTENSELY
75 R                                    BRECCIATED(?) PORPHYRY.
76 /      142.90    158.55         AXLT          MX      8      P            V) P*  V)      D-   V. V.
77 L                                    5G                                        P)
78 R                                    PALE YELLOW-GREEN VERY FINE LEUCOXENE(?) SPECKLES VARY FROM TRACES TO
79 R                                    LOCALLY 2 % ACROSS 20 TO 30 CM.
80 /      142.90    145.25         APXX          BR      6      D GC     B  82      V*      D+   D)   62
81 R                                    5A                                     P) P*             D)   51
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 82 R                                  GRADATIONAL CONTACT OVER ABOUT 50 CM WITH UNDERLYING AXLT.
 83 R                                  LOWERMOST 110 CM OF INTERVAL IS BEST-MINERALIZED.
 84 R                                  NO KSPAR STAINED AT 145 A
 85 /      158.55   270.05       AXPX         M  F       6      P  CN        25 V+ D)     V)       D)
 86 L                                  4G                          R  F/        10
 87 R                                  WATERY GREY, FAINT, SUBHEDRAL PLAG PHENOS. 2 % PY (AND SL?) AS
 88 R                                  IRREGULAR VLTS TO 4 MM WIDE FROM 170.10 - 170.50. NO KSPAR STAINED AT
 89 R                                  240.40. SAY 2 % KSPAR STAINED AT 254.00 AS FAINT, BRECCIATED VLTS.
 90 R                                  TWO QZ-PY-GL VEINS 8 MM WIDE AT 30 DEGREES AT 194.09. 5 % PY-GL-SL VLTS
 91 R                                  AND IRREGULAR MASSES ACROSS 20 CM AT 211.95. 1 % DISSEMINATED SL ACROSS
 92 R                                  10 CM AT 219.90. FEW SL VLTS TO 3 MM AT 40 DEGREES FROM 229.40 - 229.80.
 93 R                                  QZ-PY-GL VEIN 15 MM AT 20 DEGREES AT 239.77. MODERATELY BRECCIATED
 94 R                                  FROM 239.60 - 240.40.
 95 /      161.52   163.54       D/AN         MX                   R  CN        35            A)
 96 L                                  9G                                       40
 97 R                                  MODERATELY MAGNETIC. LATE QZ-CB-CL VEINS 23 CM WIDE ALONG BOTH UPPER
 98 R                                  AND LOWER DYKE CONTACTS. FAULT SLIP BOTTOM DYKE CONTACT.
 99 /      164.00   164.50       FALT      GG-                     R            40
100 R                                  GREEN CHLORITIC GOUGE ON SLIP AT 164.40. MODERATELY BROKEN
101 R                                  CORE OVER INTERVAL.
102 /      231.06   238.52       AXLT                              A  CN        35
103 R                                  AS FOR 145.25 - 158.55.
104 /      248.56   253.70       AXPX                     6      D  CN        28
105 L                                  6G                             F/        25
106 R                                  POSSIBLE APOPHYSIS OF PREMIER PORPHYRY, THOUGH NO MEGACRYSTS
107 R                                  SEEN. LOWER CONTACT FAULT WITH 3 MM GREY GOUGE; FINER GRAINED
108 R                                 NORMAL"  AXPX BELOW FAULT IS INTENSELY TO MODERATELY BRECCIATED
109 R                                  ACROSS 70 CM; THIS INTERVAL CONTAINS 3 % DISSEMINATED PY AND 0.3 %
110 R                                  DISSEMINATED GL.
111 /      256.50   258.65       AXPX                              D               V+      V*       6)    V)
112 L                                                                                       V*              V-
113 R                                  IRREGULAR STRINGERS AND VEINLETS TO 12 MM WIDE, MOSTLY AT ABOUT 25 DEGREES.
114 /      259.54   259.80       FALT      GG4                     K  CN        27
115 R                                  35 CM FINELY BROKEN CORE AND GREY-GREEN CHLORITIC GOUGE.
116 R                                  CORE MODERATELY TO LOCALLY FINELY BROKEN 256.00 - 262.50.
117 /      265.50   266.24       D/AN                              R  CN        40            A)
118 L                                  7A                             F/        36
119 R                                  MODERATELY MAGNETIC. CHILLED MARGIN 9 CM WIDE AT TOP.
120 R                                  LOWER CONTACT FAULT SLIP WITH 1 MM GOUGE.
121 /      267.17   267.79       D/AN                              R  CN        40            A)
122 L                                  7A                             CN        38
123 R                                  MODERATELY MAGNETIC. CHILLED MARGIN 6 CM WIDE ALONG LOWER CONTACT.
124 /               270.05                                         K
125 R                                  END OF HOLE.
126 RSUM                               TROPARI AT 268.22 M AZ. 241 DEGREES INCLIN. -63 DEGREES.
127 RSUM                               MINERALIZED ZONE ALONG PORPHYRY / VOLCANIC CONTACT AS
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128	RSUM	FOUND IN HOLE B96CH01. ZONE IN HOLE -2 BETTER-MINERALIZED BUT NOT
129	RSUM	AS WIDE AS IN HOLE -1.

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line  k  f                             T  %       T     Q  TEXT        M     U  S    A    D ALTERATION        SULFIDES    ALT. FACIES
      e  l     from       to           m   ROCK        MAT       GRA   I     N  R    Z  / I    MIN               MIN      MIN. FACIES
      y  a                             d  X       MAT       F AG       N     I  CT        P
         g                                                                   T
      /          #         #     rec   Q      *  PF A    *  *  *        •     *  **  #  * ** Q LE C   C  A  X  P  C  G  Y  F1 F2
      L                          rqd   KS        CR      *  *  *                 **  #  * ** K  M C   E HE     S  S SL    M M2
      R
      K          #         #
      0              1                2              3              4             5              6              7              8
      1234 5678.90  1234.56  7890 12 34567 89 01 234 56 78     34 56   90 123   56 78 90 12 34 56 78 90 12 34 56 78 90
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    1 IDEN6B0202      B96CH3  NQ  960814       BOISVEN
    2 I DP             WESTMIN RESOURCES LTD.              MARTHA ELLEN
    3
    4 /           0.00       3.66          CASN                              P
    5 /           3.66      32.30          PIKX KF Q  VN* M  B  '   ' '6    P              V*       V-       D  D. D-
    6 L                                          '5U                                           P*                   D-
    7 R                                          DENSE. SULPHIDES VERY FINELY DISSEMINATED; OCCASSIONAL SPECKLES GL AND SL.
    8 R                                          PORPHYRY MUCH MORE MINERALIZED THAN IN HOLES B96CH01, -02. PY THROUGHOUT
    9 R                                          INTERVAL MAY BE AFTER HEMATITE? CP SPECKS TO 1 MM ALONG MARGINS OF PY
   10 R                                          MASSES UP TO 7 X 25 MM ACROSS AT 31.70 M. NO KSPAR STAIN AT 14.30.
   11 R                                          WEAK TO MODERATE KSPAR IN PORPHYRY MATRIX AT 29.10 M. LHOTKA THINKS THAT
   12 R                                          THIS ROCK MAY BE PART OF MAP-UNIT 6.
   13 /           3.66       8.68          PIKX                  ' ' ' '6    D              P+                D*
   14 L                                          GA                                            P+ P*
   15 R                                          SUBROUND TO ANGULAR FRESH PORPHYRY REMNANTS IN LIGHT GREY,
   16 R                                          PERVASIVELY SERICITE- AND QZ-ALTERED MATRIX. FRESH REMNANTS TO 14 CM ACROSS.
   17 R                                          ROCK HAS BRECCIA-LIKE APPEARANCE.
   18 /          21.68      21.85          FALT                              R  F/       12
   19 R                                          MODERATELY TO FINELY BROKEN CORE WITH LIMONITE ON FRACTURE
   20 R                                          SURFACES. FRACTURE AT 12 DEGREES AT 21.68.
   21 /           24.4      24.65          FALT                              R
   22 R                                          LIKELY FAULT; MODERATELY BROKEN WITH SOME GROUND CORE.
   23 /           32.3         42          PIKX        VN* MX         6      P              V*       6*AD34'  D*
   24 L                                          3A                                               P*    7)
   25 R                                          1 TO 2 % BRICK RED, IRREGULAR HEMATITE VEINLETS TO 4 MM ACROSS
   26 R                                          FROM 38.75 TO 40.25.
   27 /             42      80.17          PIKX        VN) MX         6      P  GC      B   V)       V*       D*
   28 L                                          GA                                               7*
   29 R                                          GRADATIONAL CONTACT ACROSS 5 CM WITH UNDERLYING QBXX. PY XTALS
   30 R                                          SUBHEDRAL, DISSEMINATED, AND UP TO 1.5 MM ACROSS. MATRIX HAS
   31 R                                          MODERATE KSPAR STAIN AT 43.60.
   32 /          58.73       75.7          PIKX        VN+ M  BR             D              V+       V)       8*    V.
   33 L                                          8T                                               V-
   34 R                                          BLEACHED ENVELOPE ALONG FAULTS. GRADATIONAL CONTACTS WITH
   35 R                                          ADJACENT UNBLEACHED PORPHYRY. HAIRLINE TO 2 MM PY-GL VLTS BELOW
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36 R                                     71.80 FORM SAY 1 % OF THE ROCK VOLUME.
37 /        59.74    60.09          QBX  Q  C VN5 BR              K  CN      55 V4     V1      8)   D)
38 L                                     GA
39 R                                     LOWER THIRD LATE, OFF-WHITE CB-QZ VEIN.
40 /        70.68    70.94          VEIN QZ                       K  F/      22
41 L                                     9G
42 R                                     OPEN CAVITIES TO 12 MM ACROSS LINED BY CLEAR, DRUSY QUARTZ
43 R                                     CRYSTALS. LOCAL TRACES BLUISH, VERY FINELY DISSEMINATED
44 R                                     SULPHIDES; GL?  TOP CONTACT FAULT SLIP.
45 /        71.04    71.14          FALT            BR            K  F/      20
46 R                                     IRREGULAR FRACTURE AT 20 DEGREES COATED BY YELLOW-BROWN
47 R                                     LIMONITE AND A MINOR AMOUNT OF FINELY BROKEN CORE.
48 /        73.65     73.8          FALT      GG*                 K  F/      42
49 R                                     SERICITIC GOUGE ON SLIPS AT 42 DEGREES; MOERATELY BROKEN CORE.
50 /        76.28     78.5          D/AN                          R
51 L                                     4A
52 R                                     WEAKLY MAGNETIC.
53 /        80.17    82.35          QBX  QZ   VN9 B  MT           P  CN      60 69     V*      6)   D*
54 L                                     8A                                    P=                   D-    54
55 R                                     PY ( AND CP?) MASS 4.3 X 11.0 CM WITHIN IRREGULAR VEIN  AT 20 DEGREES AT 81.08.
56 R                                     PY VEIN CUT BY LATE WHITE CB VEINLETS TO 4 MM WIDE. VEIN QUARTZ GRADUAL CHANGE
57 R                                     FROM MEDIUM GREY AT TOP OF VEIN TO PALE GREY-GREEN AT BOTTOM OF VEIN.
58 R                                     5 % STAINED KSPAR FRAGMENTS WITHIN SILICEOUS BRECCIA MATRIX AT 82.25 M.
59 /        82.35   128.56          AXXX      VN+ M  B      5     P            V) P*   V+
60 L                                     GA                                          8)
61 R                                     LOCALLY MODERATELY BRECCIATED ACROSS 10 TO 40 CM WHERE
62 R                                     QZ-CB +/- PY-GL-SL STRINGERS PRESENT. LOCAL CHLORITIC SELVAGES
63 R                                     ALONG VEINS. AXXX UNIFORM, MONOTONOUS. MODERATELY BRECCIATED
64 R                                     ABOVE 83.70. LHOTKA THINKS THAT UNIT MAY BE EARLY SILL OR DYKE.
65 R                                     2 % STAINED KSPAR VEINLETS TO 3 X 20 MM AT 85.00 M.
66 /         93.8    96.35          AXXX      VN1 BR              D            V1      V+      D)   D-
67 L                                                                                                D.
68 R                                     OCCASSIONAL SHORT, DISCONTINUOUS, WISPY STRINGERS.
69 /       101.07   101.96          AXXX      VN3 BR              D  CN      43 V3     V=      8=   D-
70 /       113.85   114.32          VEIN                          R  CN      75 V8     V2
71 L                                     W                                   55      V+
72 /       116.48   116.74          FALT                          R
73 R                                     MODERATELY BROKEN, SLIGHTLY BLEACHED CORE. 50 % VEIN
74 R                                     QUARTZ ACROSS 10 CM WITH 2 - 3 % DISS. PY BELOW FAULT.
75 /       123.18   123.25          VEIN Q  CB    BR              R  CN      65                     Q*
76 L                                     W  CL                                                      Q*
77 R                                     3 % COMBINED SL AND GL AS IRREGULAR MASSES OVER 15 CM WITHIN AND
78 R                                     BELOW VEIN.
79 /       128.56   128.83          QBXX          B  MT           P  CN      54 75     V+      D+   D-
80 L                                     4A                                                         D*    53
81 /       128.83    193.8          DIDI      VN) M  B      5     P  GC    T   V)      V)
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 82 L                                 GA
 83 /       128.83        137    DIDI                      D  GC     B
 84 L                                 1A
 85 R                                 DARK GREY TO BLACK, VERY FINE GRAINED, MODERATELY MAGNETIC.
 86 R                                 LOOKS MUCH LIKE D/AN EXCEPT GRADATIONAL CONTACT ACROSS A COUPLE OF
 87 R                                 METRES WITH UNDERLYING AXXX.
 88 /        155.7      161.5    DIDI                      D  F7    40                  D+
 89 R                                 LOCAL MODERATELY WELL DEVELOPED FABRIC.
 90 /        168.8      168.8    VEIN  Q  CB               R  CN    35                  D     D
 91 L                                 6U PY
 92 R                                 QZ-CB-PY-GL VEIN 15 MM WIDE AT 35 DEGREES.
 93 /       175.84     176.34    DIDI                      D
 94 L                                 8G                                   P) P+
 95 R                                 BLEACHED ENVELOPE ALONG FAULT AT 176.20; FAULT SMEAR OF PALE
 96 R                                 GREY CLAYEY GOUGE ON FRACTURE AT 50 DEGREES.
 97 /          181      193.8    DIDI                      D  F3    40                  D+
 98 R                                 AS FOR 155.70 - 161.50 WITH LOCAL, MODERATELY WELL-DEVELOPED
 99 R                                 FABRIC AT ABOUT 40 DEGREES.
100 /        193.8     209.09    D/DI        VN-  MX     6  P  CN    25 V-         V-    D.
101 L                                 GA                                         P-
102 R                                 SUBHEDRAL, BLOCKY PLAG PHENOS WKLY ALTERED TO PALE YELLOW-
103 R                                 GREEN EPIDOTE(?). PY VERY FINELY DISSEMIINATED.
104 /       205.28     207.97    DIDI        VN) B  FO     D                   P1       <)
105 L                                 8T                                   P+
106 R                                 BLEACHED, CLAY-ALTERED FAULT ENVELOPE. MODERATELY BROKEN 206.50
107 R                                  - 207.97. CLEAR, DRUSY QZ XTALS TO 2 MM ALONG FRACTURE SURFACE
108 R                                 AT 35 DEGREES.
109 /        207.6     207.85    FALT                      R  F/    46
110 L                                 6A
111 R                                 FINELY CRUSHED AND REHEALED BRECCIA; BANDED AT 46 DEGREES.
112 /       209.09                    END OF HOLE
113 RSUM                              MINERALIZED QUARTZ BRECCIA  AGAIN ALONG PREMIER PORPHYRY -
114 RSUM                              ANDESITE CONTACT. ZONE LESS MINERALIZED AND MORE NARROW THAN
115 RSUM                              IN HOLES B96CH01, B96CH02. TROPARI AT 207.26 M AZ. 241DEGREES,
116 RSUM                              INCLIN. - 66 DEGREES.
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line k  f                           T %       T     Q  TEXT       M    U  S  A    D  ALTERATION      SULFIDES    ALT. FACIES
     e  l     from      to          m   ROCK      MAT      GRA   I    N  R  Z  /  I     MIN             MIN      MIN. FACIES
     y  a                           d X       MAT      F AG       N    I  CT      P
        g                                                              T
     /         #         #    rec   Q     *  PF A   •   * *        *   *  **  # * ** Q  LE C C  A  X P  C G  Y  F1 F2
     L                        rqd   KS       CR     *   * *                 **  # * ** K  M  C E  HE   S  S SL    M  M2
     R
     K         #         #
     0             1               2             3            4            5              6            7             8
     1 234 5678.90   1234.56  7890  12 34567 89 01 234 56 78      34 56   90 123  56 78 90 12 34 56 78 90 12 34 56 78 90
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   1 IDEN6B0202     B96CH4  NQ  960812      BOISVEN
   2 I DP            WESTMIN RESOURCES LTD.            MARTHA ELLEN
   3
   4 /          0.00      3.66          CASN                           P
   5 /          3.66     42.88          PIKX KF P VN* M  B      6      P             P)    P)        D*
   6 L                                       8T                                         P+
   7 R                                       QZ PHENOS EUHEDRAL, CLOUDY, TO 3 MM. OCCASSIONAL SUBHEDRAL TO EUHEDRAL
   8 R                                       KSPAR MEGACRYSTS TO 15 BY 8 MM. PATCHY PERVASIVE MODERATELY SILICIFIED.
   9 /         19.52     19.52          FALT      GG-                  R  F/      '30
  10 R                                       TRACE GREY PYRITIC GOUGE ON SLIP.
  11 /         28.73     30.63          D/PX PF AX     MX       5         F/      '21
  12 L                                       8G                           CN      '23
  13 R                                       GREY GOUGE 1 MM THICK ON FAULT SLIP AT UPPER DYKE CONTACT.
  14 R                                       MODERATELY BROKEN CORE WITH PIECES 2 TO 4 CM ACROSS FROM
  15 R                                       29.26 - 29.58 M, LIKELY FAULT. DIFFICULT DRILLING THROUGH THIS.
  16 R                                       CHILLED MARGIN 4 CM WIDE ALONG LOWER CONTACT.
  17 /         33.80     34.30          PIKX           BR              D             V1              D=
  18 L
  19 /         36.08     42.88          PIKX           M BR            D             81              D)   D-
  20 R                                       7A                                         P+
  21                                         LIGHT GREENISH GREY, PERVASIVELY ALTERED. MODERATELY BRECCIATED
  22                                         FROM 38.77 - 41.27 WITH 3 TO 5 % PY DISSEMINATED AND WITHIN IRREGULAR
  23                                         MASSES, LOCAL TRACES GL ALONG MARGINS OF PY MASSES. PALE GREEN
  24                                         DYKELET 25 MM WIDE AT 32 DEGREES AT 41.34 M.
  25 '/        38.39     38.77          VEIN Q CB      MT                 CN      '70                D)
  26 L                                       W
  27 R                                       OFF-WHITE VEIN WITH ABOUT 5 % BLACK CARBONACEOUS MATERIAL.
  28 R                                       STYLOLITES(?) PRESENT. PY DUSTY TO 1.5 MM ACROSS.
  29
  30 /         40.54     40.74          SIBX QZ        B MT               F/      40 67      V)      D+
  31 L                                       7A
  32 /         42.88     56.47          D/PX PF AX     M B      5         CN      27 V*      V*      D-
  33 R                                       8G                           CN      38    P- P*   D.
  34 R                                       CHILLED MARGINS. RED HEMATITE(?) DUSTY SPECKLES WITHIN SOME PLAG PHENOS.
  35 R                                       PLAG WEAKLY SERICITE-ALTERED. FRACTURES AND VEINLETS FROM 0 TO 20 DEGREES
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36 R                                  TO C.A.  LOCAL GLOBULAR MASSES TO 2.5 CM ACROSS- SOME SORT OF MELT SEGREGATION?
37 R                                  NON-MAGNETIC ROCK.
38 R
39 /       56.47   146.53        PIKX =5 16   M B      6     P           8+     V*      8)
40 R                                  A  *6                               V) P+ P*
41 R                                  HBLD PHENOS ELONGATE, EUHEDRAL, WKLY CHLORITE-ALTERED. PATCHY
42 R                                  MODERATELY SILICIFIED WHERE ROCK IS BRECCIATED. BRECCIA MATRIX IS SILICA.
43 R                                  2 TO 5 % PY WITHIN AND ALONG THE MARGINS OF THESE BRECCIATED AND SILICIFIED
44 R                                  ZONES. DARK BLUISH BLACK CARBONACEOUS MATERIAL IN WISPY IRREGULAR VLTS
45 R                                  TO 2.5 MM WIDE THROUGHOUT; < 0.5 % ROCK VOLUME.
46
47 /       57.00    58.05        PIKX         B  MT          D           64             8+
48 L                                                                     V+                      61
49 R                                  PATCHY MOTTLED GREY-WHITE VEINS AT ABOUT 20 DEGREES TO C.A.
50 /       67.00    68.20        PIKX                        D V4      30 V=            8+
51
52 /       71.83    73.03        PIKX         M  BR          D VP      40 84            6=
53 L                                                                                             62
54 /       74.72    75.31        PIKX         BR             D VP      15 82            82
55 L                                                                                             66
56 R                                  DISSEMINATED PY WITHIN VEIN 25 MM WIDE.
57 /       80.50    94.33        PIKX         M  BR          D           84
58 L                                  6A                                 P= P=     D-
59 R                                  LIGHT BROWN CAST TO ROCK BELOW 93.45 M  DEPTH POSSIBLY
60 R                                  DUE TO DUSTY DISSEMINATED HEM.
61 /       93.75    93.75        FALT                        R F/      37
62 R                                  SLICKS ON PY-COATED SLIP.
63 /       94.33   126.20        PIKX                        D           81             D)
64 R                                  GU                                    P+
65 R                                  PSUEDO  "FRAGMENTAL" WITH PERVASIVE SERICITE-SILICIA ALTERATION
66 R                                  POSSIBLY WITH FLUID MOVEMENT THROUGH ROCK. ANGULAR PIKX
67 R                                  FRAGMENTS" (THE LESS ALTERED PATCHES) MAX. 20 CM ACROSS,
68 R                                  SOMETIMES WITH FAINT BOUNDARIES. UNALTERED PATCHES USUALLY
69 R                                  LENSOID 1 TO 4 CM ACROSS. APPARENT  "DUCTILE" MOVEMENT LIKELY
70 R                                  A RELIC OF ALTERING FLUID MOVEMENT THROUGH ROCK. ODD-LOOKING;
71 R                                  PERHAPS ON WEATHERED SURFACE THIS UNIT COULD BE MAPPED AS
72 R                                  UNIT 7A BRECCIA DYKE.
73 /      117.97   118.10        VEIN         MT               CN      28 V9    V=      D+
74 R                                  QZ - CB VEIN 6 CM WIDE WITH MODERATELY SILICIFIED , PYRITIC ENVELOPES
75 R                                  3 CM WIDE ALONG UPPER AND LOWER CONTACTS.
76
77 /      126.20   128.43        PIKX         M  BR            CN      65 P5    V)      D*       64
78 L                                  7A                                    P+ P-
79
80 /      128.43   146.53        PIKX         MX               CN      54               D+
81 L                                  MU                                    P+     D+
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 82 R                                  DARK BROWN COLOUR DUE TO FINELY DISSEMINATED HEMATITE. BROWN
 83 R                                  SECTIONS CONTAIN FINELY DISSEMINATED PY. DENSE INTERVAL. BOTH HEM
 84 R                                  AND PY VERY FINELY DISSEMINATED THROUGHOUT.
 85 R                                  PORPHYRY MATRIX. DISCRETE CONTACT WITH UNDERLYING SBXX.
 86 R                                  NO SL NOR GL SEEN.
 87 /      140.37   140.37        FALT                         R F/     35
 88 R                                  SMOOTH PYRITIC SLIP
 89 /      146.53   156.48        SBXX          B MT             CN     44 86             8)  D*    67
 90 L                                  6A                                  P1 P*              Q*    52
 91 R                                  BRECCIATED AND REHEALED; HARD, COMPETENT ROCK. MINERALIZED WITH SPOTS OF GL
 92 R                                  AND SL AND LESSER PY TO FEW MM ACROSSTHROUGHOUT.  WIDER BUT LESS WELL
 93 R                                  MINERALIZED THAN HOLES B96CH1, B96CH2.  GL AND SL EVENLY DISTRIBUTED.  SILICA
 94 R                                  CONTENT GREATEST IN TOPMOST THIRD OF UNIT.  MORE OR LESS ALTERED, ANGULAR
 95 R                                  PORPHYRY FRAGMENTS TO 8 CM ACROSS IN MIDDLE THIRD OF INTERVAL.  ANGULAR
 96 R                                  ANDESITE FRAGMENTS IN BOTTOM THIRD OF INTERVAL.  NO CARBONATE SEEN.
 97 R                                  LOCAL BLUE-BLACK CARBONACEOUS MATERIAL FORMS WISPY VEINLETS; LOCALLY
 98 R                                  UP TO 10 % ACROSS 6 CM; GRAPHITE VEINLET 2 MM WIDE AT 15 DEGREES AT 149.75 M.
 99 /      156.48   162.58        AXLT          F B      7     P                          D=
100 L                                  1U                                     P=                    65
101 R                                  SOFT, EASILY SCRATCHED WITH NAIL; CARBONACEOUS(?).
102 /      157.28   157.65        DXPX                  5       CN     36
103 L                                  8G                        CN     37
104 /      158.70   158.70        FALT      GG-                R F/     20
105 R                                  SEVERAL SMOOTH SLIPS AT 20 TO 25 DEGREES IN UPPER, PYRITIC UNIT
106 /      162.58   187.45        AXLT      VN+ M B      6     P CN     50 V) D*  V)      8)
107 L                                  5G                        GC    B      P+ P*
108 R                                  MATRIX USUALLY MORE SERICITE-ALTERED THAN FRAGMENTS.   MORE ROD
109 R                                  GREASE COATING AND OBSCURING CORE THAN USUAL.  GRADATIONAL CONTACT
110 R                                  ACROSS SAY 3 TO 4 M WITH UNDERLYING UNIT.
111 /      180.15   181.60        AXLT          BR             D           V+     V+
112
113 /      187.45   201.97        AXXX          B M      5     P           8=     V)      7+
114 L                                  AU                                     P=
115 R                                  MEDIUM BROWNISH GREY, BRECCIATED, ROCK.  BRECCIATION VERY WEAK,
116 R                                  INCIPIENT THROUGHOUT WITH WISPY PY VEINLETS WITH FAINT BOUNDARIES
117 R                                  AND WATERY GREY QTZ TO 1 MM WIDE RIMMING BRECCIA FRAGMENTS.  PATCHY
118 R                                  PERVASIVELY SILICIFIED; UNIT IN MOST PLACES EASILY SCRATCHED BY KNIFE.
119 /      201.25   201.97        AXXX                         D                              D-
120 L                                                                                         D*    51
121 R                                  SL AND GL SPOTS TO 2 MM ACROSS.
122 /      201.97   203.64        VEIN          M BR             CN     23 V4     V2      D)  D-
123 L                                  WA                        GC                           Q)    42
124 R                                  GRADATIONAL CONTACT ACROSS 5 CM AT BOTTOM OF ZONE.  BRECCIATED BANDS AND
125 R                                  XENOLITHS OF AXXX TO 5 CM ACROSS WITHIN VEIN ZONE.  ALSO SAY 0.5 % BLUISH BLACK
126 R                                  CARBONACEOUS MATERIAL WITHIN VEIN.
127 /      203.64   254.81        AXXX =  +     MX       5     P           8) P*  V*      D*  D.    73 61
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128	L				6A	P= P-
129	R				LATE CB-QZ VLTS MAINLY AT ABOUT 30 DEGREES. QZ-SER-PY ALTERATION GRADUALLY	
130	R				DECREASES DOWNHOLE. ROCK WEAKLY BRECCIATED IN TOPMOST 5 M WITH SAY 5 %	
131	R				QZ-CB+/-PY VEINS TO 5 CM WIDE.	
132	/	240.00	240.00	VEIN	R	
133	R				PY-QZ-SL VEINLET 3 TO 5 MM WIDE SUBPARALLEL C. A.	
134	/	254.81			END OF HOLE.	
135	RSUM				TROPARI TEST HOLE AZ. 345 DEGREES, INCLIN. -62 DEGREES AT 252.98 M;	
136	RSUM				AZIMUTH DUBIOUS. THICK PORPHYRY ALONG THIS SECTION WITH	
137	RSUM				MINERALIZED ZONE ALONG BASE. NOT AS WELL-MINERALIZED AS	
138	RSUM				HOLES B96CH1, B96CH2, BUT WIDER.	

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line  k f                          T %      T     Q  TEXT       M    U  S  A    D ALTERATION      SULFIDES   ALT. FACIES
      e l    from      to          m  ROCK      MAT      GRA I    N  R  Z  / I    MIN            MIN     MIN. FACIES
      y a                          d X      MAT     F  AG    N    I  CT      P
        g                                                         T
      /        #        #    rec   Q     *  PF A  *   * *       *    *  **   # * ** Q  LE C C  A  X  P  C  G  Y  F1 F2
      L                      rqd   KS       CR    •   * *              **   # * ** K  M  C E  HE    S  S  SL    M  M2
      R
      K        #        #
      0           1              2             3            4           5             6             7             8
      1234 5678.90  1234.56  7890 12 34567 89 01 234 56 78        34 56   90 123  56 78 90 12 34 56 78 90 12 34 56 78 90
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   1 IDEN6B0202    B96CH5  NQ  960814       BOISVEN
   2 I DP           WESTMIN RESOURCES LTD.           MARTHA ELLEN
   3
   4 /         0.00      3.66          CASN                          P
   5 /         3.66      7.95          AXXT     VN+ B  B '   ' '6    P             '7 'D*  V)      D)         72 62
   6 L                                      AG                                       'P P*                  61
   7 R                                      QZ-CB VEINS TO 18 MM WIDE, AT 47 TO 65 DEGREES.
   8 R                                      POSSIBLE RARE TRACE SL?
   9 /         7.95      9.86          D/AN '1  '=     MX   ' ' ' '5       CN      52          A*      D-
  10                                        4A
  11                                        STRONGLY MAGNETIC; AMYGDULES 1 TO 3 MM ACROSS.
  12 /         9.86     55.83          AXXT     VN= B  B ' ' ' '6    P             '7 D)   V+      '7*
  13 L                                      AG      MX                               P+ P*
  14 R                                      GENERALLY  FAINTLY BANDED. BANDS AND VEINS OF JASPER LOCALLY
  15 R                                      TO 10 % OF ROCK VOLUME BELOW 18.90 M. NON-MAGNETIC WHERE
  16 R                                      TESTED. LOCAL PATCHES WHERE SER-ALTERING FLUID HAS STREAMED
  17 R                                      THROUGH ROCK; UNALTER R  F/       12
  18 R                                      OF "LAPILLI".
  19 /         19.6      19.6          FALT     GG)                  R  F/     43
  20 R                                      1 MM PALE GREY, CLAYEY GOUGE ON SLIP.  10 % JASPER
  21 R                                      ACROSS 50 CM IN WALLROCKS.
  22 /         21.3      25.1          AXXT         B  MX            D             71              8+
  23 L                                      GA                                       P=
  24 R                                      IRREG. BAND OR VEIN OF DISS PY 20 MM WIDE AT 10 DEGREES AT 23.16
  25 R                                      WITHIN PALE COLOURED, MOD. SIL SECTION.
  26 /           25      25.1          FALT         BR               R  F/     60
  27 R                                      HEALED FAULT; BXD AND REHEALED WITH AT LEAST 2
  28 R                                      GENERATIONS OF VEIN QTZ.
  29 /         32.6     36.62          AXXT         BR               D             72              8+   D-    63 71
  30 L                                      AU                                       P=                   Q*    52
  31 R                                      5 % SL, 1 % GL IN QZ VN OR BAND 6 CM WIDE AT 35 DEGREES
  32 R                                      AT 33.08 M. SL AS IRREG. MASSES TO 7 MM ACROSS, GL AS
  33 R                                      DUSTY DISSEMINATIONS.
  34 /         45.4      46.7          AXXT     VN2 BR               D             62      V=      6)   D-
  35 L                                      8T                                                          Q*    52
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36 R                                 BXD AND REHEALED WATERY GREY QZ-CB VNS TO 8 CM WIDE AT 40 DEGREES
37 R                                 AND 60 DEGREES. SL AS SPOTS AND VEINLETS TO 3 MM WIDE,
38 R                                 WITHIN VEINS OR INTENSELY SILICIFIED BANDS.
39 /      49.84   49.84     VEIN                      R
40 R                                 SL - QZ - GL VEINLETS 4 MM WIDE AT 35 AND 65 DEGREES.
41 /       52.7   53.15     AXXT        BR            D  F/      70 65
42 L                                 6A
43 R                                 MOD. SIL, HEALED FAULT WITH WATERY GREY VEIN QZ FRAGS.
44 /      55.83      77     D/AN    VN2 B  MT             CN      50 61    V+    V1 D)   D.
45 L                                 UN                                                   V*
46 R                                 LIGHT BROWN GARNET AS IRREG., HAIRLINE WISPY VLTS MOSTLY AT
47 R                                 ABOUT 60 DEGREES. RARE TR DUSTY DISS GL. LOWER CONTACT DISCRETE.
48 R                                 IRREG., WORMY QZ-CB-GT STGRS BELOW D/AN; SOME SL LIKELY
49 R                                 PRESENT AS WELL.
50 /      62.79   63.88     D/AN    VN5 BR                D          P=    V5    Q)
51 L                                 5A                                         <-            <-
52 R                                 MOD. TO INT. BXD; REHEALED. AT LEAST 2 GENERATIONS OF VEIN CB,
53 R                                 ONE WITH BLUISH GREY CALCITE. DOGTOOTH SPAR XTALS UP TO
54 R                                 6 OR 8 MM ACROSS. EP AS LOCAL HAIRLINE RIMS AROUND
55 R                                 IRREG. GT MASSES. LIKELY SL TRACES WITHIN GARNET.
56 /      73.98   73.98     FALT    GG.                   R  F/      55       P1
57 R                                 BLEACHED, CLAY-ALTERED ENVELOPE 80 CM WIDE ALONG FAULT;
58 R                                 40 CM ABOVE AND 40 CM BELOW FAULT. WISPY SL VLT 1.5 MM
59 R                                 WIDE AT 74.48.
60 /       75.1    75.1     VEIN                          R  CN      80
61 R                                 WATERY GREY QZ-CB VEIN 7 MM WIDE AT 80 DEGREES PARALLEL
62 R                                 TO ADJACENT SL-HE-PY VLT 4 MM WIDE.
63 /      76.55      77     D/AN                          D
64 R                                 MEDIUM GREY - GREEN; CHILLED CONTACT ZONE.
65 /         77  101.61     D/DI 55 62    MX       6         GC       <-
66 L                                 5A 61                                      <-
67 R                                 MOD. MAGNETIC; BOTTOM CONTACT GRADATIONAL ACROSS 15 CM.
68 /      84.45   84.95     D/DI                          D          V)
69 L                                                                            <*
70 R                                 WEAKLY BLEACHED ENVELOPE ALONG SMALL HEALED FAULT
71 R                                 SLIP AT 20 DEGREES AT 84.70.
72 /      100.4  101.61     D/DI                    5     D                    A+
73 R                                 FINE GRAINED CHILLED MARGIN WITH CB AMYGDULES TO 6 MM ACROSS.
74 /     101.61   125.8     AXXT        M  B       4     P           82       6)     7*    D-   63
75 L                                 4A                                 P)                 6*   44
76 R                                 DK GREY TO MEDIUM OR LIGHT GREY (WHERE MORE SILICIFIED) TO
77 R                                 BLACK. UNIT APPEARS ARGILLACEOUS; NO CL NOR LEUCOXENE SEEN.
78 R                                 WATERY GREY TO LIGHT BLUISH GREY TO OFF-WHITE QZ BOTH AS PERVASIVE
79 R                                 ALTERATION AND AS WORMY VEINLETS. SL AS SOMEWHAT IRREGULAR
80 R                                 VEINLETS AV. 1 TO 3 MM WIDE OFTEN WITHIN OR
81 R                                 ALONG MARGINS OF QZ VEINLETS. SL VEINLETS DISCONTINUOUS
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 82 R                                   AND MOSTLY AT ABOUT 60 DEGREES. IRREGULAR, WISPY MASSES
 83 R                                   AND VEINLETS OF SL ALONG SHORT, DISCONTINUOUS FRACTURES TO 20 MM
 84 R                                   LONG ARE IN DETAIL RANDOMLY ORIENTED; THERE SEEMS TO BE A
 85 R                                   PREFERRED ALIGNMENT OF THESE SL VLTS AT ABOUT 60 DEGREES.
 86 R                                   MINERALIZATION DIFFERENT IN STYLE FROM THAT SEEN ALONG BASE OF
 87 R                                   PREMIER PORPHYRY TO THE EAST OF THIS HOLE. THERE IS NO SBXX
 88 R                                   WITHIN THIS HOLE, AND NUMEROUS SL +/- GL VLTS OCCUR WITHOUT
 89 R                                   ANY ACCOMPANYING QZ. MINERALIZATON OF LOWER GRADE BUT WIDER
 90 R                                   (STRATABOUND WITHIN ARGILLACEOUS AXXT?)
 91 R                                   THAN IN SBXX AT PREMIER PORPHYRY CONTACT.
 92 /      101.61   104.78         AXXT          MT             D            P6             7)
 93 L                                   6A                                                       <-
 94 R                                   HARD, SILICA-INDURATED; MORE PY AND LESS SL THAN
 95 R                                   IN UNDERLYING ROCK.
 96 /       108.8    113.5         AXXT          BR             D                              D. 8*
 97 L                                                                                            <+
 98 R                                   WKLY TO MODERATELY BX'D, WELL-MINERALIZED ZONE. QZ-SL-GL VEINS
 99 R                                   AT 64 DEGREES AT 109.52, AT 45 DEGREES AT 110.58, AT 70 DEGREES AT 112.45,
100 R                                   AT 40 DEGREES AT 113.13, AT 60 DEGREES AT 113.35. SL VLTS AT
101 R                                   110.10 M AT 75 DEGREES.
102 /      124.71    125.8         VEIN          M  BR             CN     40 V8     V1      D-   D-
103 L                                   WA                         CN     40      S+             Q*   41
104 R                                   BOTH UPPER AND LOWER CONTACTS BRECCIATED; APPROX. ORIENTATION. VEIN
105 R                                   POSSIBLY ALONG A HEALED FAULT?
106 /       125.8   135.03         D/AN      VN= M B      4     P            V)     V=      D-
107 L                                   3A                                          <-
108 R                                   CB IN AMYGDULES AND PERVASIVE AS WELL AS VEINS. FREH-LOOKING
109 R                                   ROCK,; LOCALLY WKLY MAGNETIC.
110 /      127.87   128.31         VEIN          MT                CN     30 V3     V7           D-
111 L                                   7A                                        S)
112 R
113 /               135.03              END OF HOLE.
114
115 RSUM                                TROPARI AT 131.98 M INCLIN. - 58 DEGREES, AZ. 111 DEGREES.
116 RSUM                                SEE REMARKS FOR INTERVAL FROM 101.61 TO 125.80 M DEPTH
117 RSUM                                FOR DETAILS ON MINERALIZATION WITHIN THIS HOLE.
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line k f                        T %      T    Q  TEXT      M    U S   A   D ALTERATION     SULFIDES  ALT. FACIES
     e l    from     to         m   ROCK    MAT      GRA I    N R   Z / I    MIN           MIN     MIN. FACIES
     y a                        d X      MAT     F  AG     N    I CT      P
       g                                                        T
     /       #        #    rec  Q     *  PF A  *  *  *      *    * **  #  * ** Q LE C  C  A  X  P  C  G  Y  F1 F2
     L                     rqd  KS       CR    *  *  *             **  #  * ** K M  C  E  HE    S  S  SL    M  M2
     R
     K       #        #
     0           1            2            3           4          5           6           7            8
     1 234 5678.90  1234.56  7890 12 3 4567 89 01 234 56 78    34 56   90 123  56 78 90 12 34 56 78 90 12 34 56 78 90
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   1 IDEN6B0202   B96CH6  NQ  960824      BOISVEN
   2 I DP          WESTMIN RESOURCES LTD.          MARTHA ELLEN
   3
   4 /         0.00     3.66       CASN                         P
   5 /         3.66    12.31       PIKX 53 Q  VN* M  F  ' ' ' '6    P  F1       10         V*       D+
   6 L                                  '5U                         CN       30   P)
   7 R                                  RARE, OFF-WHITE, SOFT, HEXAGONAL MICA BOOKS TO 5 MM ACROSS;
   8 R                                  GROUNDHOG MARKER??  WEAK FABRIC SUBPARALLEL TO 10 DEGREES TO C.A.
   9 R                                  PY DUSTY DISSEMINATED.
  10 /         7.30    12.31       PIKX          BR             D            P=             D=
  11 R
  12
  13 /        12.31    23.74       D/AN      VN* MX   ' ' ' '5       CN      '3  P+       A*       D-
  14 L                                  GA                                              Q*
  15 R                                  EP AS FAINT PATCHES AND RIMMING CB AMYGDULES. NON-MAGNETIC ROCK.
  16 /        23.74    29.86       PIKX          MX       5          CN      19 P+                D=
  17 L                                  5U                                       P)                       65
  18 R                                  VERY SIMILAR TO UNIT IN TOP OF HOLE B96CH3.
  19 /        29.86    37.53       D/AN    5     MX       5          CN      33            A)
  20 L                                  AG                                              P-
  21 R                                  CB IN AMYGDULES, MATRIX AND VLTS. MODERATELY MAGNETIC.
  22 R                                  10 % BLACK, EUHEDRAL HORNBLENDE PHENOS.
  23 /        37.53    55.41       PIKX 53 5+    MX       6          CN      28            V*       D-
  24 L                                  AU
  25 R                                  RELATIVELY FRESH, MEDIUM TO FINE GRAINED PORPHYRY.
  26 /        38.77    39.56       D/AN                              CN      20            A*
  27 /         45.2     45.2       FALT                         R  F/       23 P1                  Q2
  28 L                                                                                                        62
  29 R                                  LIKELY HEALED FAULT 20 MM WIDE. PY AS ELONGATE LENSES AND DISS.
  30 /        52.75    55.41       PIKX      VN1 B  MT          D             62       V=       6+             63
  31 L                                                                          P*                    Q*   61
  32 R                                  BLUISH BLACK CARBONACEOUS MATERIAL AS LOCAL WISPY HAIRLINE VLTS.
  33 R                                  REDDISH BROWN SL SPOTS TO 6 MM.
  34 /        55.41    57.17       SBXX      VN5 B  MT                  CN      30 77         V2       D)   D-
  35 R                                  6A           BN                                        D-          D-
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36 R                                    LOCALLY BANDED, WATERY GREY QZ; VEIN CB LATER, OFF-WHITE
37 R                                    PY VEIN OR BAND 16 MM WIDE AT 35 DEGREES AT 56.82. QZ-CB-SL-GL VEIN
38 R                                    55 MM WIDE AT 30 DEGREES AT 57.14.
39 /        57.17    69.67       PIPX   51       B M     5         CN     23 82             D)
40 L                                    5A                                     P* P-
41 R                                    FELDSPAR PHENOS FAINT, SUBHEDRAL. FEW QZ-CB-SL-GL STGRS TO 15
42 R                                    MM WIDE AT ABOUT 30 DEGREES THROUGHOUT INTERVAL. SL AND GL AS SPOTS
43 R                                    TO 5 MM ACROSS. TOPMOST 2 M MOD SILICIFIED; WKLY SILICIFIED BELOW 59.20 M.
44 /        68.84    69.43       VEIN            M BR              CN     76 V4     V5      D*   D*
45 L                                    8A                         CN     43                     Q=   45
   R                                    SL AS HONEY BROWN MASSES TO 13 BY 7 MM ACROSS; GL AS
   R                                    WISPY RIMS ON SL MASSES.
46 /        69.67    74.13       PIKX            B MT              GC        81     V5      D)        46
47 L                                    6A                                     P*                D-
48 R                                    GRADATIONAL CONTACT ACROSS 20 CM AT BOTTOM OF UNIT.
49 /        69.67       71       PIKX                           D                                D*
50 L                                                                                             Q+   45
51
52 /        73.88    74.04       FALT        GG-                 R  F/      20
53 L
54 R                                    SMEAR PY ON IRREGULAR FRACTURE AT 20 DEGREES. FAULT WITHIN BRECCIATED,
55 R                                    HEALED, THEN FAULTED OFF-WHITE VEIN CARBONATE.
56 /        74.13   106.85       PIKX   52 5= VN= B M    5         GC        7=     V+      D*
57 L                                    AG                                     P+ P*
58 R                                    LIGHT GREENISH GREY, VARIABLY ALTERED AND BRECCIATED. GRADATIONAL
59 R                                    CONTACT ACROSS SAY 80 CM AT BOTTOM. GL AND SL SPOTS AV.
60 R                                    2.5 MM ACROSS WITHIN WATERY GREY TO OFF-WHITE QZ STRINGERS
61 R                                    BELOW 99.58 M. SL AND GL IN QZ STRGRS AT 87.55, 94.50 M.
62 /        74.13    75.08       PIKX            BR             D            P+
63 L                                                                             P)
64 R                                    INTENSELY BRECCIATED; REHEALED BY PERV. SILICA.
65 /        82.07    85.21       PIKX        VN1 BR                GC        7=     V=      7=        72 41
66 L                                    UA                         CN     26   P=                     67
67 /       103.87   106.85       PIKX        VN= B MT              CN     55 85     V*      7+   D*   66
68 L                                    6A                         GC          P) S-             D)   54
69 R                                    QZ-PY-SL-GL STGRS MAINLY AT 37 TO 45 DEGREES. SAY 2 % WHITE,
70 R                                    LATE QZ-CB-CL VEINS TO 10 CM WIDE AT 65 TO 80 DEGREES.
71 /       106.85   110.71       SBXX        VN= B MT              GC        88             D+   D*
72 L                                    5A                         GC                             D+
73 R                                    FINELY BRECCIATED (FRAGS SUBANGULAR, MOSTLY 5 TO 15 MM ACROSS)
74 R                                    AND REHEALED BY WATERY GREY QTZ. PERVASIVELY SILICA-ALTERED
75 R                                    1 TO 2 % LATE WHITE QZ-CB-+/- CHL VEINS. SL MOSTLY LIGHT BROWN,J89
76 R                                    LOCAL RED-BROWN. LOCAL GL AND SL MASSES UP TO 18 BY 9 MM AT 109.50 M
77 R                                    DEPTH. LOWER CONTACT GRADATIONAL ACROSS SAY 60 CM.
78
79
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 80 /    110.71    154.23       PIPA       VN+ B  M    5        GC      7A      V+     D*   D-   62
 81 R                                AG                                      P) P-           D*   52
 82 R                                LIGHT GREENISH GREY, VERY FINE GRAINED PORPHYRY WITH ONLY LOCAL, FAINT
 83 R                                HORNBLENDE AND PLAG PHENOS. UNIT MAY POSSIBLY BE UNIT 9 ANDESITE BUT NO
 84 R                                DIAGNOSTIC LEUCOXENE SEEN. SILICIFICATION AND BRECCIATION DECREASE
 85 R                                DOWNHOLE. OCCASSIONAL OFF-WHITE CB (MAINLY)-QZ STRGRS WITH SL AND GL
 86 R                                SPECKLES ABOVE 127.80 M, MOSTLY AT 25 TO 40 DEGREES TO C.A. GRADATIONAL
 87 R                                CONTACT ACROSS 3 TO 4 M AT BOTTOM OF UNIT.
 88 R
 89 /    110.71       114       PIPA       VN2 BR                GC      74      V+     D)   D)   65
 90 R                                                                              S*             D)   44
 91 R                                WATERY GREY, MOTTLED QZ-PY-SL-GL STRGRS UP TO 30 MM WIDE THROUGHOUT
 92 R                                MOSTLY AT ABOUT 35 DEGREES TO C.A. THESE MINERALIZED STRINGERS FORM ABOUT
 93 R                                10 % OF THE ROCK VOLUME FROM 11O.71 TO 114.00 M DEPTH.
 94 /    118.43    119.76       PIPA       VN= BR              D         71      V)     D+   D)   61
 95 L                                                                                             D)   42
 96 R                                FINELY BRECCIATED AND REHEALED WITH PY AND QZ MATRIX.
 97 /    130.42    138.43       PIPX       VN+ BR              D         6+      V)     D=   D*
 98 L                                                                            P+                D*   52
 99 R                                PY VERY FINELY DISS. GL AND SL SPOTS IN CB-QZ STRINGERS AV. ABOUT 30 DEGREES,
100 R                                UP TO 15 MM WIDE.
101 /    138.43    143.25       PIPX           M  BR           D  F/     8=      V)     D+
102 /    146.67    154.23       PIPA           BR      5          CN   20 71     V)     D=
103 L                                                             GC         P+ D)
104 R                                BOTH PLAG AND HORNBLENDE PHENOS HAVE FAINT BOUNDARIES; MATRIX
105 R                                APHANITIC AND SOMEWHAT ALTERED.
106 /    154.23    181.32       AALT       VN+ M  F    8          GC      6+      V)     D*
107 L                                5G                           F/   35    P* P*
108 R                                RARE SL IN CB-QZ VLTS. PATCHY, WEAK PERVASIVE FABRIC SUBPARALLEL
109 R                                C.A.BRECCIA MATRIX APPEARS TO BE SOMEWHAT PORPHYRITIC; PROBABLY
110 R                                A CRYSTAL TUFF THOUGH IN PLACES IT HAS THE APPEARANCE OF FINE
111 R                                GRAINED PREMIER PORPHYRY. SUBANGULAR TO SUBROUND FRAGMENTS OF
112 R                                VARIOUS LITHOLOGIES, LOCALLY WITH ALTERED RIMS, ARE PRESENT.
113 R                                COMPETENT UNIT.
114 /    162.35    162.87       AALT       VN3 MX              D         V2      V1     D)   D-   63
115 L                                7G                                                            D*   51
116 /     170.4     170.4       FALT       VN-                 R  F/   17
117 R                                CB VLT 1 MM WIDE WITH CHLORITIC SELVAGES ALONG FAULT FRACTURE
118 R                                SURFACE. WELL-DEVELOPED SLICKS.
119 /    181.32    190.34       AXXT       VN* M  F    5          CN   20 V*     V-
120 L                                6G                                            S-
121 R                                UNIFORM. NON-MAGNETIC. ROCK LOCALLY HAS THE APPEARANCE OF
122 R                                FINE GRAINED CRYSTAL TUFF.
123 /    189.32    189.32       FALT       GG.                 R  F/   31
124 R                                TRACE PALE GREY GOUGE ON SLIP.  MYLONITIC FABRIC PARALLEL FAULT
125 R                                WITHIN BLEACHED ENVELOPE 45 CM WIDE.
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126 /      190.34   248.72        AALT      VN) M  F    7     P           V* P*  V)      D*
127 L                                  6G                                    P+ 5-
128 R                                  MORE SER-ALTERED, SOFTER AND LIGHTER COLOURED THAN LAPILLI
129 R                                  TUFF ABOVE. LAPILLI SMALLER AND A LITTLE LESS ABUNDANT. MORE
130 R                                  LAPILLI WITHIN THIS LOWER UNIT HAVE SERICITE-ALTERED RIMS THAN ABOVE.
131 R                                  1 % PY LAPILLI FROM 228.10 - 229.00 M, TO 6 MM ACROSS.
132 /      190.34    201.5        AALT      VN+ BR            D           V)     V+      D)
133
134 /      212.16   218.08        AALT                        D                  P+    P1
135 L                                  8L
136 R                                  PALE GREENISH YELLOW, BLEACHED ENVELOPE ALONG FAULTS.
137 /       212.5   212.75        FALT                        R  F/      22
138 R                                  25 CM MODERATELY BROKEN CORE.
139 /       216.3    216.3        FALT      GG5               R  F/      30
140 R                                  12 MM CLAYEY, PYRITIC GOUGE ON SLIP AT 30 DEGREES.
141 /      218.08   218.08        FALT      GG                R  F/      30
142 R                                  2 MM CLAYEY, PYRITIC GOUGE ON SLIP AT BOTTOM OF BLEACHED INTERVAL..
143 /      238.47   240.11        AALT                        D                P1
144 L                                  8L
145 R                                  BLEACHED ENVELOPE ALONG FAULT.
146 /      239.17   239.23        FALT      GG2               R  F/      55
147 R                                  5 CM FINELY BROKEN CORE AND GOUGE.
148 /      243.76    244.1        VEIN                          CN      25 V8    V2
149 L                                  W                        CN      80     S+
150
151
152 /      248.72                      END OF HOLE
153 RSUM                               APPEARS TO BE BEST-MINERALIZED HOLE OF 1996 PROGRAMME.
154 RSUM                               MINERALIZED ZONES WITHIN PREMIER PORPHYRY, AND CHARACTERIZED
155 RSUM                               BY FINELY BRECCIATED AND REHEALED WATERY GREY QUARTZ. SULPHIDES
156 RSUM                               MOSTLY DISSEMINATED, BUT BOTH SL AND GL LOCALLY OCCUR
157 RSUM                               AS MASSES 18 MM ACROSS.  TROPARI AT 247.19 M DEPTH INCLIN.
158 RSUM                               - 63 DEGREES, AZ. 256 TRUE.
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line k f                       T  %     T    Q  TEXT     M    U S   A   D ALTERATION    SULFIDES  ALT. FACIES
     e l    from     to        m   ROCK     MAT     GRA  I    N R   Z / I   MIN           MIN     MIN. FACIES
     y a                       d  X     MAT     F AG     N    I CT      P
       g                                                      T
     /       #        #   rec  Q     •  PFA  *  *  •      *   * ** # * ** Q LEC  C  A X  P C G  Y F1 F2
     L                    rqd  KS       CR   *  *  *            ** # * ** K  M C E  HE   S S SL   M M2
     R
     K       #        #
     0           1            2            3          4          5            6           7          8
     1234 5678.90 1234.56 7890 12 34567 89 01 234 56 78  34 56  90 123  56 78 90 12 34 56 78 90 12 34 56 78 90
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   1 IDEN6B0202  B96CH7  NQ 960824    BOISVEN
   2 I DP         WESTMIN RESOURCES LTD.        MARTHA ELLEN
   3
   4 /        0.00    3.05        CASN                        P
   5 /        3.05  145.66        PIKX '6 52 VN* M B ' ' ' '6 P           '7=    '<*    D*        '61
   6 L                                 G  '5=                               P* P*
   7 R                                 MEDIUM TO LIGHT GREYISH GREEN, RELATIVELY FRESH AND LITTLE
   8 R                                 ALTERED FOR THE MOST PART. DSPAR MEGACRYSTS AV. 6 - 10 MM,
   9 R                                 MAX. 15 X 8 MM. YELLOW BROWN TO ORANGE LIMONITE COATS MOST
  10 R                                 MOST FRACTURE SURFACES TO 69 M DEPTH. WATERY GREY QZ VLTS
  11 R                                 AV. 2 TO 7 MM WIDE, MAINLY AT 20 DEGREES TO C.A. PORPHYRY
  12 R                                 UNIFORM, MONOTONOUS EXCEPT AT FAULTS WHERE ROCK BLEACHED,
  13 R                                 BRECCIATED, AND CONTAINS MORE VEIN QZ.
  14
  15 /       16.60   19.25        PIKX       VN) B  MX        D           '82           8)        A1
  16 L                                 6U                                   P) P+
  17 R                                 WKLY BRECCIATED; PY BOTH DISS AND AS WISPY VLTS. SOMEWHAT BROKEN CORE.
  18 /       30.53   31.07        VEIN           M  BR          CN     '1 V9            D+
  19 L                                                          CN     '12
  20 R                                 REHEALED, BRECCIATED WATERY GREY VEIN QUARTZ. PY VERY FINELY DISS
  21 R                                 WITHIN IRREGULAR MASSES UP TO A FEW MM ACROSS, CONCENTRATED WITHIN
  22 R                                 CENTRAL PORTION OF VEIN.
  23
  24
  25 /       34.95    39.8        PIKX       VN+ B  MX          GC       81   P1        6)        A3
  26 L                                 8T                       CN     18   P*
  27 R                                 WEAKLY BRECCIATED, BLEACHED INTERVAL. SOMEWHAT BROKEN CORE.
  28 /        39.8      40        VEIN           B  MT          CN     18 V8
  29 L                                 7A                       CN
  30 R                                 HEALED BRECCIA ACROSS 20 CM ALONG LOWER CONTACT WITH QZ MATRIX.
  31 R                                 LESS THAN 0.5 % HAIRLINE STYLOLITIC VEINLETS OF BLUISH BLACK CARBONACEOUS
  32 R                                 MATERIAL THROUGHOUT VEIN.
  33 /       47.55   51.28        D/RH           M  M   6       CN     64
  34 L                                 7G                       CN     21
  35 R                                 DYKE SPOTTED BY LIGHT GREY, SUBHEDRAL TO EUHEDRAL QZ PHENOS UP TO 6 MM
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36 R                                    ACROSS. NON-MAGNETIC. NO CB PRESENT.
37 /       54.23    58.68          PIKX      VN+ BR                GC        6=   P=        8)         A2
38 L                                    7T                         GC           P* S*                  61
39 R                                    BLEACHED, WEAKLY TO MODERATELY BRECCIATED FAULT ENVELOPE.
40 R                                    CLAY ALONG SELVAGES OF LATE WHITE QZ VEINS.
41 /          56       56          FALT      GG-                R  F/     20
42 R                                    SMEAR OF PALE ORANGE LIMONITIC GOUGE ON FRACTURE AT 20 DEGREES.
43
44
45 /        60.9    66.33          PIKX      VN+ BR                GC        82   P=        7)         A2
46 L                                    7T                         GC           P)                     61
47 R                                    INTENSELY BRECCIATED 64.27 TO 65.14 M.
48 R
49 R
50 /       61.28    61.35          FALT      GG- BR                F/     46 71             D=
51 L                                    4U                         F/     46                           62
52 R                                    HEALED, FINELY BRECCIATED AND CRUSHED BAND WITH DISS PY AND PERVASIVE
53 R                                    SILICA WITHIN MATRIX. SMOOTH SLIPS WITH THIN SMEARS OF GOUGE AT TOP AND BOTTOM.
54 /       62.03    62.23          FALT                         R
55 R                                    INTERVAL INCLUDES 8 CM FINELY BROKEN CORE.
56 /       63.68     63.9          FALT      GG.                R  F/     18
57 R                                    SMEAR ORANGE LIMONITIC GOUGE ON FRACTURE.
58 /        74.7    85.86          PIKX          B  MX            GC        81   P2                   A4
59 L                                    8T                         GC           P=
60 R                                    BLEACHED, GENERALLY BRECCIATED FAULT ENVELOPE. OCC. KSPAR MEGACRYSTS
61 R                                    TO  18 MM ACROSS. SMEARS BLACK CARBONACEOUS MATERIAL ALONG MINOR, SMOOTH SLIPS.
62 /       80.43    80.43          FALT      GG8                R  F/     20
63 R                                    SEAM OF LIGHT GREY CLAYEY GOUGE 7 MM THICK ON FRACTURE
64 R                                    AT 20 DEGREES. PROBABLY MAJOR FAULT.
65 /        90.4     90.4          FALT      GG*                R  F/     21
66 R                                    0.5 MM MEDIUM GREY PYRITIC GOUGE ON SMOOTH SLIP.
67 /        92.3    94.33          D/RH          MX               CN     16
68 L                                    8T                         CN     11
69 R                                    2 % SUBHEDRAL QZ PHENOS UP TO 8 MM ACROSS.
70 R
71 /       94.33    96.63          D/AN          MX               F/        P+     P*
72 L                                    3G
73 R                                    BOTTOM CONTACT FAULTED. MODERATELY MAGNETIC ROCK.
74 /      116.98   118.25          FALT      VN= BR             R  F/     14 7=     P+     7=
75 L                                    7T                                      P)
76 R                                    MODERATELY TO INTENSELY BRECCIATED, FINELY FRACTURED, WITH SAY 5 %
77 R                                    BLACK CARBONACEOUS MATERIAL IN ABUNDANT IRREGULAR, HAIRLINE VEINLETS
78 R                                    AND AS BRECCIA MATRIX. IRREGULAR FAULT SLIP AT 14 DEGREES TO C. A. AT 117.97 M.
79 R
80 /      118.25   130.67          PIKX      VN) BR             D            8+   P)        7)
81 L                                    TG                                      P)
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  82 R                                WEAKLY BRECCIATED; SAY 50 % PATCHY BLEACHED TO LIGHT TAN COLOUR.
  83 /     139.21   140.98     PIKX     51                     D
  84 L                                GN                                        P+
  85 R                                GREEN- BLACK, CHLORITE ALTERED. MAY BE HORNFELSED IN PART?
  86 R                                MORE ABUNDANT HORNBLENDE PHENOS ALTERED TO CHLORITE.
  87 /     140.98   143.97     D/DA        VN*                   CN     24         A)     D.
  88 L                                5G                         CN     24
     R                                CHILLED MARGINS. WEAKLY MAGNETIC. SOMEWHAT BROKEN CORE.
  89 /     145.66    153.6     D/DA        VN*          5        CN     10         A)
  90 L                                5G                         CN     10
  91 R                                SMALL FAULT SLIPS ALONG BOTH UPPER AND LOWER CONTACTS. WEAKLY TO MODERATELY
  92 R                                MAGNETIC. CB AS VLTS AT 20 DEGREES AS WELL AS AMYGDULES. FRESH ROCK.
  93 /     150.02   150.22     PIKX                              CN     30
  94 L                                                           CN     16
  95 R                                AS FOR 3.05 - 145.66 M ABOVE. SLIVER OF PORPHYRY BETWEEN 2
  96 R                                D/DA DYKES. DYKES HAVE CHILLED MARGINS.
  97
  98 /      153.2   175.83     PIKX        VN) MX       6        CN     40 8= P- V)     8*   D)   65
  99 R                                6G                                        P)             D)   44
 100 R                                LOCALLY FAINTLY BLEACHED. PERVASIVE SILICIFICATION INCREASES WITH
 101 R                                DEPTH. CB - QZ VLTS MAINLY AT 30 DEGREES TO 34 DEGREES TO C. A.,
 102 R                                UP TO 13 MM WIDE.
 103 /     155.33   156.05     D/DA                              CN     39         P-
 104 L                                                           CN     45
 105 R
 106 /      156.2   156.65     FALT            BR              R
 107 R                                PROBABLE FAULT. MODERATELY BRECCIATED AND MODERATELY
 108 R                                BROKEN CORE.
 109 R
 110 /     160.77   163.37     D/DA                              CN     22
 111 L                                3G                         CN     23
 112 R                                CHILLED MARGINS.
 113 /     174.97   175.83     PIKX        VN1 BR              D           7=      V1     D)   D)   45
 114 R                                MODERATELY BRECCIATED.
 115 /     175.83   180.35     PIKX             BR      6        CN     59 73 P+ V2     D)   D*   63 42
 116 R                                7T                                      P+               D*   51
 117 R                                INTENSELY TO MODERATELY BRECCIATED. HEALED BY LATE SILICA. SULPHIDES
 118 R                                MOST ABUNDANT ALONG MARGINS OF QZ- CB VEINS.
 119 R                                NOT WELL - MINERALIZED.
 120 /     180.35   224.21     PIKX   52 6- VN* M  B   6        CN     37 8=    V*     D)
 121 L                                3  51                                   P+ P+
 122 R                                OCCAISIONALLY BLEACHED WHERE SERICITE-ALTERED, BOTH AS FAULT
 123 R                                ENVELOPES AND AS MORE LOCAL FLUID STREAMING THROUGH ROCK.
 124 R                                LOCALLY ROCK HAS APPEARANCE OF COARSE TO MEDIUM GRAINED ANDESITE
 125 R                                PORPHYRY.  OVERALL MORE LIKELY PREMIER PORPHYRY.
 126 /     184.64   184.71     D/RH            BN                CN     35
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127 L                                         6G                            CN      33
128 R                                         CHILLED MARGINS. BANDED THROUGHOUT.
129 /        184.81    191.57           PIKX           BR                D
130 R                                         WEAKLY TO MODERATELY BRECCIATED. SOMEWHAT FRAGMENTAL
131 R                                         APPEARANCE.
132 /        197.06    201.13           PIKX       VN1 BR                   GC         83       V*      D+    D+    63
133 L                                         AU                            GC            P= P+               D*    51
134 R                                         MODERATELY TO INTENSELY BRECCIATED. PATCHY MODERATE SILICIFICATION. SULPHIDES
135 /         202.1     202.1           VEIN                             R  CN      28
136 L                                         4A
137 R                                         GL - SL VEINLET 8 MM WIDE.
138 /        202.72    202.72           VEIN                             R  CN      30
139 L                                         4A
140 R                                         GL - SL - QZ VEIN 10 MM WIDE.
141 /        204.02    204.02           FALT       GG*                   R  F/      10
142 R                                         3 MM GOUGE AND FINELY BROKEN CORE ON CHLORITIC SLIP.
143 /        216.75    218.13           PIKX                             D  F/      45 P1   P=         D+
144 L                                         7T                                          P+
145 R                                         BLEACHED FAULT ENVELOPE; 0.5 MM GOUGE ON SLIP AT 45 DEGREES
146 R                                         AT 217.55 M.
147 /        224.21    227.91           SBXX       VN6 M  BR                CN      37 67      V)      Q+    D*    67
148 L                                         6A                            CN      48    P)                  D*    52
149 R                                         BRECCIATED AND REHEALED BY WATERY GREY QUARTZ. PY AS IRREGULAR MASSES
150 R                                         UP TO 15 BY 45 MM. SL AND GL DISS. SPOTS TO 3 OR 4 MM ACROSS. VEIN CB LATE,
151 R                                         OFF - WHITE. PY MOST ABUNDANT IN TOPMOST 30 CM OF SBXX WHERE IT IS UP TO 25 %
152 R                                         ROCK VOLUME.  PY ALSO ABUNDANT IN LOWERMOST 15 CM OF UNIT.
153 /        227.91    263.72           AXXX 42 41 VN)  M  B      5      P             V) D-   V*      D)
154 L                                         5G                                          P+ P+
155 R                                         VEIN QZ MAINLY IN UPPER HALF OF UNIT. VEIN CB MAINLY IN LOWER HALF.
156 R                                         OCCASSIONAL MINERALIZED PY- SL - +/- STRGR VEINS TO 8 MM WIDE
157 R                                         AT 30 TO 40 DEGREES TO C.A.
158 /         246.1     246.6           VEIN                             R
159 R                                         QZ - PY - SL - GL VEIN 12 TO 30 MM WIDE SUBPARALLEL CORE AXIS.
160 /         248.5    248.95           AXXX       VN2 BR                D             V2       V*      D1
161 L
162 /         255.5     255.5           VEIN                             R  CN      40                  D-    D=
163 L                                                                                                         Q4
164 R                                         SL - QZ - CB - GL - PY VEIN 15 MM WIDE AT 40 DEGREES.
165 /         256.3     256.3           AXXX           BR                D             V1               D=
166 L                                         6G                                                              D4    51
167
168
169 /         263.1     263.3           FALT                             R
170 R                                         MODERATELY BROKEN CORE; POSSIBLE FAULT.
171
172 /        263.72    263.95           MSSB       SL9 B  B       5         CN      40 V1               D  L3 D=    61
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173 L                                   UY                         CN      40                     L5   49
174 R                                   BANDED MASSIVE SULPHIDES. THIS STYLE OF MINERALIZATION NOT SEEN IN ANY OF THE
175 R                                   PREVIOUS 1996 DRILL HOLES. MODERATELY BRECCIATED AND MODERATELY SERICITE-ALTERED.
176 R                                   AXXX OVER A COUPLE OF CM AT THE UPPER MARGIN. MODERATELY BRECCIATED WITH
177 R                                   20 % PY ACROSS 30 CM AT THE LOWER MARGIN. NO CB WHERE TESTED. NON-MAGNETIC.
178 /      263.95   273.1         AXXX                          P
179 R                                   AS FOR 227.91 - 263.72 ABOVE.
180 /         270   270.63        AXXX       VN1 BR             D           V1              D*   D-
181 L                                                                                              D*
182 R                                   IRREGULAR OFF-WHITE QZ VEINS TO 20 MM WIDE SPOTTED BY I TO 2 MM SL, PY AND GL.
183 /       273.1                       END OF HOLE
184 RSUM                                MINERALIZED SILICEOUS BRECCIA  AGAIN NEAR PREMIER PORPHYRY/
185 RSUM                                VOLCANIC CONTACT. INTERESTING MASSIVE SULPHIDE BAND
186 RSUM                                MORE LIKE PREMIER MINE - STYLE MINERALIZATION INTERSECTED.
187 RSUM                                TROPARI TEST AZ. 254 DEGREES, INCLIN. - 58 DEGREES, AT 271.58 M.
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line k f                    T %    T    Q TEXT     M   U S  A  D ALTERATION  SULFIDES  ALT. FACIES
     e l  from    to        m ROCK  MAT    GRA I   N R  Z / I   MIN          MIN     MIN. FACIES
     y a                    d X    MAT   F AG  N   I CT      P
       g                                           T
     /      #      #   rec  Q   *  PF A  *  *  *    *  * **  # * ** Q LE C  C  A X P  C  G  Y  F1 F2
     L                 rqd  KS     CR    *  *  *         **  # * ** K M  C  E  HE  S  S  SL    M  M2
     R
     K      #      #
     0         1           2          3          4          5          6          7          8
     1234 5678.90  1234.56  7890 12 34567 89 01 234 56 78    34 56  90 123  56 78 90 12 34 56 78 90 12 34 56 78 90
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   1 IDEN6B0202   B96CH8  NQ  960812     BOISVEN
   2 I DP          WESTMIN RESOURCES LTD.         MARTHA ELLEN
   3
   4 /        0.00     0.00
   5 /        0.00    54.04        PIPX 52 51   MX  '  ' '6    P          '<*  D- '<*    D-        '73
   6 L                                  GA                                P1 P)   D-
   7 R                                  MEDIUM TO FINE GRAINED FELDSPAR PORPHYRY. PLAG PHENOS PALE
   8 R                                  GREY, SERICITE- AND LOCALLY ALSO CLAY-ALTERED. SERICITE ALTERATION
   9 R                                  THROUGHOUT ROCK UNIT APPEARS TO HAVE OCCURRED AS A RESULT OF FLUID
  10 R                                  STREAMING AS SEEN IN SIMILAR ROCK ABOVE PREMIER PORPHYRY TO THE NORTH OF
  11 R                                  THIS HOLE. SER-ALTERING STREAMING IN THIS HOLE OVER MUCH WIDER INTERVAL THAN
  12 R                                  SEEN ELSEWHERE. PERHAPS THIS IS A MARGINAL PHASE OF THE PREMIER PORPHYRY?
  13 R                                  ONLY ONE (PROBABLE) KSPAR MEGACRYST SEEN AT 39.55 M DEPTH.
  14 R                                  UNIT HAS LESS QZ AND LESS CB ALTERATION THAN USUAL AT MARTHA ELLEN.
  15 R                                  NON-MAGNETIC. PSUEDO "BRECCIA" WITH FRAGMENTS OF RELATIVELY UNALTERED
  16 R                                  PORPHYRY WITHIN GREYISH, SERICITE-ALTERED MATRIX.
  17
  18 /        6.10    10.60        PIPX                            D
  19 L                                                                                D*
  20 R                                  DUSTY DISSEMINATED HEMATITE THROUGHOUT SERICITE-ALTERED ROCK.
  21 R
  22 /        9.60     9.80        FALT                            R  F/     '15
  23 R                                  MODERATELY BROKEN, LIMONITE-STAINED CORE. FRACTURE WITH FINELY BROKEN
  24 R                                  FINELY BROKEN CORE AT 15 DEGREES.
  25 /       14.90    14.90        FALT                            R  F/     '05
  26 R                                  IRREGULAR SLIP WITH SLICKENSIDES AT ABOUT 5 DEGREES.
  27 /       18.07    18.07        FALT                            R  F/     '33
  28 R                                  3 MM FINELY BROKEN CORE AND GOUGE ON SLIP AT 33 DEGREES.
  29 /       30.05    30.40        FALT     GG+                    R  F/     '10
  30 R                                  4 MM FINELY BROKEN CORE AND CLAYEY GOUGE ON SLIP AT 30.28 M.
  31 /       33.50    35.10        FALT                            R  F/     '33
  32 R                                  INTENSELY BRECCIATED, MODERATELY BLEACHED. MODERATELY BROKEN
  33 R                                  FROM 34.55 - 34.76 M. SLIP MEASURED AT 34.55 M. MAJOR FAULT.
  34 /       36.65    37.15        PIPX                            D                        'Q+
  35 L                                                                                             '61
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36 R                                   PY DISSEMINATED WITHIN IRREGULAR MASSES TO 11 BY 25 MM.
37
38 /       54.04    91.66         PIPX '5  '5  VN) MX    ' ' ' '6       CN      '7  '8=      V)      D*
39 L                                   6A                               CN      '40   P= D+
40 R                                   LIGHT GREENISH GREY, MASSIVE. PERVASIVE ALTERATION MAKES PHENOS
41 R                                   LOCALLY APPEAR FAINT. NO SERICITE STREAMING AS SEEN IN OVERLYING UNIT.
42 R                                   HORNBLENDE PHENOS MORE OR LESS COMPLETELY CHLORITE - ALTERED AND
43 R                                   GREEN - BLACK. CONTACT WITH OVERLYING UNIT DISCRETE WITH 2 % PY OVER 10 CM.
44 R
45 /       66.09    66.09         FALT      GG*                  R  F/      07
46 R                                   THIN SMEAR OF GOUGE ON SLIP WITH SLICKS; PY VLT 1 MM
47 R                                   WIDE ALONG FAULT.
48 /       78.35    78.55         FALT                           R  F/      27
49 R                                   HEALED FAULT; FINELY BANDED INTERVAL.
50 /       86.03    86.92         PIPX      VN= BR               D                    V=      D)   D-
51 R                                   MODERATELY BRECCIATED. IRREGULAR CB VEINS AND VEINLETS.
52 /       91.66   134.71         PIPX 52 51     MX    '   ' '6    P              '<*   D- '<*    D-        '73
53 R                                   GA                                         P1 P)    D-
54 R                                   MEDIUM TO FINE GRAINED FELDSPAR PORPHYRY. PLAG PHENOS PALE
55 R                                   GREY, SERICITE- AND LOCALLY ALSO CLAY-ALTERED. SERICITE ALTERATION
56 R                                   THROUGHOUT ROCK UNIT APPEARS TO HAVE OCCURRED AS A RESULT OF FLUID
57 R                                   STREAMING AS SEEN IN SIMILAR ROCK ABOVE PREMIER PORPHYRY TO THE NORTH OF
58 R                                   THIS HOLE. SER-ALTERING STREAMING IN THIS HOLE OVER MUCH WIDER INTERVAL THAN
59 R                                   SEEN ELSEWHERE. PERHAPS THIS IS A MARGINAL PHASE OF THE PREMIER PORPHYRY?
60 R                                   ONLY ONE (PROBABLE) KSPAR MEGACRYST SEEN AT 39.55 M DEPTH.
61 R                                   UNIT HAS LESS QZ AND LESS CB ALTERATION THAN USUAL AT MARTHA ELLEN.
62 R                                   NON-MAGNETIC. PSUEDO "BRECCIA" WITH FRAGMENTS OF RELATIVELY UNALTERED
63 R                                   PORPHYRY WITHIN GREYISH, SERICITE-ALTERED MATRIX.
64 R                                   IRREGULAR PY MASSES. PATCHY WEAK TO MODERATE KSPAR STAIN
65
66 /      121.62   121.62         FALT      GG*                  R  F/      29
67 R                                   0.5 MM GREY PYRITIC GOUGE ON SLIP.
68 /      131.88   132.27         VEIN          MT                 CN      40          P9      D*
69 L                                   7A                               CN      20
70 R                                   PYRITE - RICH SELVAGES.
71 /      134.71   148.13         PIPX      VN) M  BR              CN      29 P=       V)      D+        71
72 L                                   5U                                         P+                     61
73 R                                   LOCAL FAINT PY VEINLETS TO 1 MM WIDE.
74
75 /      137.57   138.42         FALT                           R  F/      19          V+      D+
76 R                                                                                                     62
77 R                                   MODERATELY TO INTENSELY BRECCIATED. FAULT SLIP AT 137.75 M.
78 R
79 /      148.13                       END OF HOLE.               P
80
81 RSUM                                TROPARI AT 122.22 M INCLIN. - 53 DEGREES, AZ. 237 DEGREES.
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82	RSUM	HOLE DID NOT INTERSECT TYPICAL PREMIER POPHYRYAS SEEN IN HOLES
83	RSUM	TO NORTH. ALSO, NO MINERALIZED SILICEOUS BRECCIA WAS INTERSECTED.
84	RSUM	HOLE PERHAPS ORIENTED PARALLEL TO, OR AT A SHALLOW ANGLE TO,
85	RSUM	ROCK UNIT CONTACTS.

```
line  k  f                             T  %       T     Q  TEXT        M     U  S   A    D ALTERATION         SULFIDES    ALT. FACIES
      e  l     from       to           m   ROCK        MAT       GRA   I     N  R   Z  / I     MIN               MIN      MIN. FACIES
      y  a                             d  X       MAT      F  AG       N     I  CT       P
         g                                                                   T
      /          #         #     rec   Q     *   PF A   *   •  *        *    •  **   #  * ** Q  LE C  C  A  X  P  C  G  Y  F1 F2
      L                          rqd   KS        CR     *   *  *                 **   #  * ** K  M  C  E  HE    S  S  SL    M  M2
      R
      K          #         #
      0              1               2               3             4             5               6             7              8
      1234 5678.90  1234.56  7890  12 34567  89 01 234 56 78       34 56    90 123   56 78 90 12 34 56 78 90 12 34 56 78 90
==== ==== ======== ======== ==== == ===== == == === == == ====== == ==== === === == == == == == == == == == == == ==
    1 IDEN6B0202      B96CH9  NQ   960812      BOISVEN
    2 I DP            WESTMIN RESOURCES LTD.         MARTHA ELLEN
    3
    4 /          0.00                    CASN                              P
    5 /                   131.88         PIKX  '5 '5 VN) MX    '  ' '6      P              81      '<-       D)         '62
    6 L                                          GA                                            P) P)                   '61
    7 R                                          DARK GREYISH GREEN, MEDIUM GRAINED PORPHYRY WITH OCCASSIONAL BLOCKY
    8 R                                          SUBHEDRAL TO EUHEDRAL KSPAR MEGACRYSTS. THESE MEGACRYSTS APPEAR ZONED;
    9 R                                          COLOUR PALE GREY.  LARGEST MEGACRYST SEEN 13 BY 26 MM, AT 100.41 M DEPTH. PLAG
   10 R                                          PHENOS BLOCKY, SUBHEDRAL TO ANHEDRAL WITH FAINT MARGINS PROBABLY DUE TO
   11 R                                          PERVASIVE ALTERATION OF THE ROCK. QZ VEINLETS WATERY GREY, GENERALLY WITH
   12 R                                          BLUISH BLACK CARBONACEOUS MATERIAL COMPROMISING 2 TO 10 % OF THE VEINLET
   13 R                                          VOLUME. THE CARBONACEOUS MATERIAL IS USUALLY CONCENTRATED ALONG THE VEINLET
   14 R                                          SELVAGES. PY DISSEMINATED EUHEDRAL TO SUBHEDRAL XTALS AV. 0.75 MM; PY LOCALLY
   15 R                                          FORMS IRREGULAR MASSES TO 10 MM ACROSS OR FAINT VEINLETS. PORPHYRY HARD,
   16 R                                          COMPETENT EXCEPT AT FAULTS WHERE IT IS MODERATELY BROKEN. ROCK MOSTLY
   17 R                                          PERVASIVELY SILICIFIED; DIFFICULT TO SCRATCH WITH A KNIFE. NON-MAGNETIC. HORNBLENDE
   18 R                                          PHENOS APPEAR LARGELY ALTERED TO BLACK CHLORITE.
   19 /          4.36      4.97          PIKX                              D              '84   P)
   20 L                                                                                    P+
   21 R                                          MODERATELY SILICIFIED,  SLIGHTLY BLEACHED. QZ-CARBON-PY VEIN 10 MM WIDE
   22 R                                          AT 30 DEGREES AT 4.57
   23
   24 /          9.25      9.75          FALT        GG-                   R  'F/      '42
   25 R                                          TRACE LIMONITIC GOUGE AND FINELY BROKEN CORE ON FRACTURE  SURFACE
   26 R                                          AT 9.70 M DEPTH. SOMEWHAT BROKEN CORE ACROSS FAULT INTERVAL
   27 /         17.60     19.13          PIKX        VN=                   D           '71      V)       D+
   28 R                                          QZ VEINLETS MAINLY AT ABOUT 25 DEGREES.
   29 /         23.64     23.64          FALT                              R  'F/      '35
   30 R                                          LIMONITIC, SMOOTH SLIP.
   31
   32 /         24.08     24.08          FALT                              R  F/       '12
   33
   34 /         31.06     31.06          FALT        GG)                   R  F/       '20
   35 R                                          3 MM FINELY BROKEN CORE AND LIMONITIC GOUGE ON IRREGULAR
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36 R                                 FRACTURE SURFACE. WALLROCKS WEAKLY BLEACHED ACROSS A FEW CM.
37 /       35.03   35.40        FALT     GG=              R  F/      '25
38 R                                 GREY GOUGE WITH SOOTY PY ON SLIP. MODERATELY BROKEN CORE
39
40 /       35.88   36.04        PIKX                      D            '83            D=
41 L                                 7A
42 R                                 MODERATELY SILICIFIED; DRUSY QZ XTALS TO 3 MM LINE CAVITY 10 MM ACROSS
43 /       38.80   39.33        FALT         B  MX          GC              P+
44 R                                 7G                     GC
45                                   WEAKLY BLEACHED, CLAY-ALTERED FAULT ENVELOPE. GENERALLY MODERATELY
46                                   FRACTURED AND WEAKLY BRECCIATED INTERVAL
47 '/      43.69   44.28        FALT                      R  'F/     '18
48 R                                 MODERATELY BROKEN CORE; INTENSELY BRECCIATED ACROSS 18 CM.
49 '/      46.00   46.00        FALT                      R  'F/     '05
50 R                                 SMOOTH BLACK SLIP COATED WITH CHLORITE(?).
51
52 /       51.50   56.35        PIKX         BR             GC        85             D)   D.   66
53 R                                 7A                     F/        30
54 R                                 MODERATELY BRECCIATED. REHEALED BY PERVASIVE WATERY GREY QUARTZ. SAY 1 %
55 R                                 BLUISH BLACK  CARBONACEOUS MATERIAL AS WISPY, HAIRLINE LOCALLY STYLOLITIC
56 R                                 VEINLETS AND AS IRREGULAR PATCHES. POSSIBLE RARE TRACE GALENA; SAMPLED FOR ASSAY.
57 R
58 /       53.17   53.57        FALT     GG)              R  F/      25
59                                   3A
60 R                                 0.5 MM BLACK, GRAPHITIC GOUGE ON SLIP. CORE MODERATELY BROKEN
61 R                                 ACROSS 40 CM.
62 /       59.43   59.88        PIKX         BR           D            83    P+       6=
63 L                                 8T                                                         62
64 R                                 BLEACHED, BRECCIATED. PROBABLE FAULT
65 /       60.10   60.10        FALT     GG*              R  F/
66 R                                 SMEAR OF PYRITIC GOUGE ON SMOOTH SLIP @ 30 DEGREES
67 R
68 /       64.40   69.45        PIKX         B  MX          GC              P=
69 L                                 7T
70 R                                 GENERALLY MODERATELY BLEACHED; WEAKLY BRECCIATED; LIGHT TAN COLOUR
71 R
72 /       65.57   65.57        FALT     GG-              R  F/      43
73 R                                 TRACE PYRITIC GOUGE ON SMOOTH SLIP
74 /       68.70   68.70        FALT                      R  F/      10
75 R                                 APPROXIMATE ORIENTATION OF FRACTURE SURFACE
76 /       69.82   70.73        FALT     GG*              R  F/      05
77 R                                 SMEAR  PYRITIC GOUGE ON SMOOTH SLIP
78
79 /       74.90   77.25        PIKX         BR           D            82    P+       6)        62
80 L                                 6G
81                                   LIGHT GREYISH GREEN, MODERATELY TO INTENSELY BRECCIATED
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 82 /          76.72     77.23            FALT                              R  F/      05
 83 R                                           FINELY BROKEN PYRITIC CORE ON FRACTURE AT 77.05.
 84 /          78.13     78.40            VEIN            MT                   CN      65 V9
 85 L                                                                          CN      40
 86 R                                           MILKY WHITE QZ VEIN; NO SULPHIDES SEEN
 87 /          78.50     78.54            FALT        GG2                   R  F/      63                             67
 88 R                                           GOUGE AND FINELY BROKEN CORE ON SLIP                                     52
 89 /          79.60     79.60            FALT                              R  F/      30
 90 R                                           FINELY BROKEN CORE 1.5 MM THICK ON SMOOTH SLIP
 91 /          81.19     86.51            PIKX            B  MT                CN      58 76   P* V-      7)         67
 92 L                                           7A                             CN      40 V* P+
 93 R                                           LIGHT BROWNISH GREY TO MEDIUM WATERY GREY, REHEALED; PY BOTH DISSEMINATED
 94 R                                           AND AS IRREGULAR WISPY VEINLETS AND PATCHES UP TO 3 OR 4 MM ACROSS.
 95 R                                           TOP CONTACT FAULT SLIP, WITH PY VEINLET 1 MM WIDE ON SMOOTH FRACTURE SURFACE
 96 R                                           BOTTOM CONTACT GRADATIONAL ACROSS 2 CM. ABOUT 2 % BLUISH BLACK CARBONACEOUS
 97 R                                           MATERIAL AS WISPY, HAIRLINE, RANDOMLY ORIENTED, IRREGULAR VEINLETS THROUGHOUT.
 98
 99 /          87.72     88.70            PIKX            BR                   GC         82     P)
100 L                                           7T                             GC            P+
101 R                                           BLEACHED, WEAKLY TO MODERATELY BRECCIATED FAULT ENVELOPE.
102 /          88.23     88.23            FALT        GG-                   R  F/      23
103 R                                           TRACE PYRITIC GOUGE ON SMOOTH SLIP.
104
105 /          89.35     91.00            PIKX            M  BR             D              82                6+
106
107 /          97.23     98.52            PIKX                              D              82     P+
108 L                                           8T
109 R                                           BLEACHED.
110
111 /          97.24     97.24            FALT        GG*                   R  F/      23
112 R                                           SMEAR PYRITIC GOUGE ON SLIP
113
114 /          99.00    115.00            PIKX                              D              71
115 R                                           QZ-CB VEINS HAVE MODERATELY SILICIFIED ENVELOPES 3 TO 8 CM WIDE.
116
117 /         104.82    104.82            FALT        GG)                   R  F/      20
118 R                                           SMEAR PYRITIC GOUGE ON SLIP
119 /         114.50    115.22            FALT                              R  F/      10
120 R                                           MODERATELY BROKEN CORE. SMEAR OF GOUGE ON SLIP
121
122 /         118.75    125.19            PIKX            BR                D                    P=
123 R                                           8T
124                                             BLEACHED, LOCALLY INTENSELY FRACTURED CORE. UPPER PORTION
125                                             MAJOR FAULT ZONE.
126 /         120.70    131.88            FALT            BR                R  F/      12
127 L                                           6T
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128 R                                 MAJOR FAULT ZONE. MODERATELY TO FINELY BROKEN CORE. GOUGE
129 R                                 ON IRREGULAR FRACTURES AND SLIPS AT 12 TO 40 DEGREES; MAIN
130 R                                 FAULT AT 131.75 M DEPTH WHERE PALE TAN SILICIFIED GOUGE(?) 20 MM
131 R                                 THICK ON FRACTURE AT 12 DEGREES. FINELY BRECCIATED WITH ABUNDANT
132 R                                 DISCONTINUOUS HAIRLINE FRACTURES. BLEACHED WITH PERVASIVE
133 R                                 CLAY MINERAL ALTERATION OVER UPPERMOST THIRD OF INTERVAL.
134 R                                 TOUGH DRILLING
135
136 /      129.95  131.88        PIKX         BR             D          71   P=        V)
137 L                                 8T
138 R                                 BLEACHED.
139 /      131.88  206.59        PIKX 52 51 VN+ MX      6       F/     12 82    V)      D-       62
140 L                                 6G                       F/     12  P) P)
141 R                                 PERVASIVE SILICIFICATION AND SERICITE AND CLAY ALTERATION THROUGHOUT; EUHEDRAL
142 R                                 PHENOS PARTLY OBSCURED BUT CAN BE SEEN CLEARLY WITH HAND LENS.  VEIN CB
143 R                                 MOTTLED, LIGHT GREY.
144
145 /      141.35  142.11        PIKX      VN2 BR            D          72    V2
146
147 /      143.18  143.18        VEIN                        R CN    80               D3
148 R                                 OFF-WHITE QZ-CB-PY (SELVAGES) VEIN 3 CM WIDE.
149 /      149.25  150.30        PIKX      VN= BR            D          8=    V=
150
151 /      151.08  151.08        VEIN                        R       25
152 R                                 OFF-WHITE QZ-CB-PY(SELVAGES) VEIN 3 CM WIDE.
153
154 /      155.81  155.81        FALT                        R F/    28
155 R                                 BLUISH BLACK CARBONACEOUS MATERIAL ON SLIP.
156
157 /      162.40  162.50        FALT      GG  BR            R F/    70
158 R                                 MODERATELY TO FINELY BROKEN CORE WITH SERICITIC GOUGE ON
159 R                                 FRACTURES AT 70 DEGREES.
160 /      163.50  164.27        PIKX         BR             D GC    T  81   P=
161 L                                 6T                       CN     60
162 R                                 BLEACHED; OFTEN FINELY BRECCIATED WITH LOCAL 5 % BLUISH
163 R                                 BLACK CARBONACEOUS MATERIAL AS IRREGULAR VEINLETS IN BRECCIATED
164 R                                 SECTIONS.
165 /      172.41  172.52        VEIN         BN             R CN    30 V4    V6      D-
166 L                                 7A                       CN     46
167 R                                 BANDED LIGHT GREY TO OFF-WHITE.
168 /      184.42  185.77        PIKX      VN+ BR            D          72   P1
169 L                                 7T
170 R                                 BLEACHED; WEAKLY BRECCIATED FAULT ENVELOPE.
171
172 /      185.07  185.07        FALT                        R F/    25
173 R                                 FINELY BROKEN CORE ON IRREGULAR SLIP.
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174 /        192.16    201.16          PIKX      VN= BR                 D              71     V+
175 R                                        WEAKLY BRECCIATED WITH MILKY WHITE QZ-CB VEINS TO 5 CM WIDE MAINLY
176 R                                        AT ABOUT 65 DEGREES TO C.A., SOME WITH CL SELVAGES.
177
178 /        195.70    195.88          FALT                             R  F/
179 R                                        MODERATELY TO FINELY BROKEN CORE.
180 /        198.71    199.33          FALT          BN                 R  F/      43
181 R                                        REHEALED; FINELY CRUSHED, MYLONITIC BANDING
182
183 /        206.59    282.24          AXXX 52 51 VN* M  M      5       P              V- D-    V*
184 L                                        4G                                           P* P+
185 R                                        DARK GREEN TO MEDIUM GREYISH GREEN, GENERALLY UNIFORM ROCK.
186 R                                        VEIN CB MOTTLED, LIGHT GREY, IN VEINS TO 6 CM WIDE MOSTLY AT 20 DEGREES
187 R                                        NON-MAGNETIC WHERE TESTED.
188
189 /        206.59    209.78          AXXX          F  BR              D  F5      40       P=
190 L                                                                                       L=
191 R                                        FINELY LAMINATED, MYLONITIC, CRUSHED BRECCIA ZONE BELOW FAULT
192 R                                        CONTACT WITH OVERLYING PORPHYRY.  BANDS AND SLIPS AT 40 DEGREES
193 R                                        LINED BY BLACK CHLORITE.
194 R        220.94    221.00          D/AN                             R  CN      15
195 L                                        4T                            CN      54
196 R                                        CHILLED MARGINS; WEAKLY MAGNETIC
197
198 /        224.30    224.30          FALT                             R  F/      22
199 R                                        BLACK CHLORITE(?) ON SLIP. 5 % DISSEMINATED PY ACROSS 5 CM ABOVE FAULT
200
201 /        236.25    236.25          FALT                             R  F/      21
202 R                                        SLICKENSIDES; SOOTY PY ON SLIP SURFACE
203 /        248.33    248.33          FALT                             R  F/      21
204 R                                        SLICKENSIDES; BLACK CHLORITE ON SLIP SURFACE
205 /        252.13    256.86          AXXX      VN+ BR                 D              V)       V)       D)
206 L                                        7G                                           P+
207 R                                        LIGHT GREEN, WEAKLY BRECCIATED. VEINLETS IRREGULAR, DISCONTINUOUS;
208 R                                        MOST AT ABOUT 10 DEGREES.
209
210 /        267.33    270.15          AXXX          MT                 D                                D=
211 L                                        GU                                           P)
212 R                                        BROWNISH GREEN. PY FORMING FINE DISSEMINATIONS IN IRREGULAR MASSES
213 R                                        UP TO 25 MM ACROSS.  PY OFTEN VERY FINE, SOOTY, BROWN COLOUR
214
215 /        272.30    276.83          AXXX      VN+ B  MX              D              81     P= V)
216 L                                        7T
217 R                                        BLEACHED, ALTERED FAULT ENVELOPE.
218 /        275.13    275.33          FALT                             R  F/
219 R                                        FINELY BRECCIATED, REHEALED BY SILICA. MODERATELY BROKEN CORE.
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220
221 /          282.24                                END OF HOLE              P
222 RSUM                                             TROPARI TEST HOLE AZ. 016 DEGREES, INCLIN. -51 DEGREES AT 213.36 M;
223 RSUM                                             AZIMUTH DUBIOUS.  NO SILICEOUS BRECCIA INTERSECTED IN HOLE ALTHOUGH
224 RSUM                                             FAVOURABLE PORPHYRY/VOLCANIC CONTACT WAS CORED. PERHAPS
225 RSUM                                             SILICEOUS BRECCIA HERE WAS TRANSPORTED OR DISPLACED BY LATE FAULTING?
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APPENDIX C

ASSAY RESULTS

drill hole number= B96CH1

HF=half
W=whole

from (m)	to (m)	interval (m)	sample no.	core sampled	GOLD (oz/ton)	SILVER (g/t)	COPPER (g/t)	ZINC (g/t)	LEAD (g/t)
6.10	8.50	2.40	59001	HF-CORE	0.010	1	20	165	2
11.00	12.00	1.00	59002	HF-CORE	0.014	0	4	65	130
20.00	21.00	1.00	59003	HF-CORE	0.010	0	19	49	67
21.00	22.00	1.00	59004	HF-CORE	0.022	2	38	40	31
37.20	38.20	1.00	59005	HF-CORE	0.010	0	11	40	36
38.20	39.20	1.00	59006	HF-CORE	0.006	4	0	28	0
49.00	50.00	1.00	59007	HF-CORE	0.006	9	18	98	27
57.60	58.10	0.50	59008	HF-CORE	0.006	5	6	46	2
103.45	104.45	1.00	59009	HF-CORE	0.000	2	22	66	28
104.45	105.49	1.04	59010	HF-CORE	0.002	13	78	190	156
126.20	127.20	1.00	59011	HF-CORE	0.000	5	16	64	66
127.20	128.48	1.28	59012	HF-CORE	0.004	3	25	141	51
128.48	129.48	1.00	59013	HF-CORE	0.004	12	32	84	86
129.48	130.00	0.52	59014	HF-CORE	0.014	21	92	990	956
130.00	130.50	0.50	59015	HF-CORE	0.152	48	131	2120	1100
130.50	131.00	0.50	59016	HF-CORE	0.128	45	155	2880	1440
131.00	131.50	0.50	59017	HF-CORE	0.294	220	528	22400	12100
131.50	132.00	0.50	59018	HF-CORE	0.124	249	568	9820	9530
132.00	132.50	0.50	59019	HF-CORE	0.440	324	414	29500	14900
132.50	133.00	0.50	59020	HF-CORE	0.036	27	45	241	293
133.00	133.50	0.50	59021	HF-CORE	0.024	17	15	255	239
133.50	134.00	0.50	59022	HF-CORE	0.016	7	9	31	57
134.00	134.60	0.60	59023	HF-CORE	0.012	6	3	62	122
134.60	135.05	0.45	59024	HF-CORE	0.012	2	4	47	23
135.05	136.00	0.95	59025	HF-CORE	0.018	3	0	51	6
136.00	137.00	1.00	59026	HF-CORE	0.014	2	8	89	9
137.00	138.00	1.00	59027	HF-CORE	0.016	2	2	90	22
138.00	139.00	1.00	59028	HF-CORE	0.016	3	1	105	29
139.00	140.00	1.00	59029	HF-CORE	0.014	15	3	77	99
140.00	141.00	1.00	59030	HF-CORE	0.012	5	12	323	95
141.00	142.00	1.00	59031	HF-CORE	0.028	6	13	628	170
142.00	143.00	1.00	59032	HF-CORE	0.026	7	42	112	66
149.50	150.50	1.00	59033	HF-CORE	0.010	6	65	167	71
150.50	151.50	1.00	59034	HF-CORE	0.018	2	12	90	56
155.15	156.15	1.00	59035	HF-CORE	0.026	6	3	65	13
203.25	203.75	0.50	59036	HF-CORE	0.006	44	28	90	28
211.75	212.25	0.50	59037	HF-CORE	0.002	7	14	66	49
219.00	219.50	0.50	59038	HF-CORE	0.008	3	29	83	1
222.00	223.00	1.00	59039	HF-CORE	0.006	1	16	116	26
223.00	223.50	0.50	59040	HF-CORE	0.026	3	21	1590	970
223.50	224.50	1.00	59041	HF-CORE	0.022	1	22	423	197
224.50	225.50	1.00	59042	HF-CORE	0.018	2	26	271	101
225.50	226.25	0.75	59043	HF-CORE	0.038	4	47	5040	1110
226.25	227.25	1.00	59044	HF-CORE	0.028	0	21	258	59
238.50	239.00	0.50	59045	HF-CORE	0.014	1	25	146	36
244.75	245.35	0.60	59046	HF-CORE	0.028	26	41	264	205
258.30	259.30	1.00	59047	HF-CORE	0.008	2	28	431	257
259.30	259.93	0.63	59048	HF-CORE	0.016	1	35	428	194
259.93	260.93	1.00	59049	HF-CORE	0.014	0	24	148	81
264.20	265.20	1.00	59050	HF-CORE	0.018	1	59	1580	502
267.20	267.90	0.70	59051	HF-CORE	0.020	1	14	586	320
267.90	268.90	1.00	59052	HF-CORE	0.012	1	15	446	97
276.00	276.50	0.50	59053	HF-CORE	0.012	1	5	85	47
294.80	295.30	0.50	59054	HF-CORE	0.018	3	98	3490	2110
295.30	296.30	1.00	59055	HF-CORE	0.008	2	24	1340	952
296.30	297.30	1.00	59056	HF-CORE	0.022	0	9	244	111
297.30	298.30	1.00	59057	HF-CORE	0.006	0	5	1160	775
298.30	299.30	1.00	59058	HF-CORE	0.004	4	40	5110	3360
299.30	300.30	1.00	59059	HF-CORE	0.008	11	151	12700	8050
300.30	301.30	1.00	59060	HF-CORE	0.010	2	27	1760	1120
301.30	302.30	1.00	59061	HF-CORE	0.008	1	13	340	289
302.30	303.30	1.00	59062	HF-CORE	0.012	2	26	1090	409

drill hole number= B96CH1

HF=half
W=whole

from (m)	to (m)	interval (m)	sample no.	core sampled	GOLD (oz/ton)	SILVER (g/t)	COPPER (g/t)	ZINC (g/t)	LEAD (g/t)
303.30	304.60	1.30	59063	HF-CORE	0.018	1	1	830	201
306.90	307.90	1.00	59064	HF-CORE	0.018	0	4	643	254
314.30	315.30	1.00	59065	HF-CORE	0.014	0	19	306	128
315.30	316.30	1.00	59066	HF-CORE	0.016	2	17	78	49
316.30	317.30	1.00	59067	HF-CORE	0.018	2	11	123	112
317.30	318.30	1.00	59068	HF-CORE	0.008	2	6	174	110
318.30	319.30	1.00	59069	HF-CORE	0.118	13	247	2300	1380
319.30	320.28	0.98	59070	HF-CORE	0.012	2	10	99	51
326.90	327.30	0.40	59071	HF-CORE	0.008	1	12	1030	532
327.30	327.70	0.40	59072	HF-CORE	0.010	3	11	1210	682
332.92	333.42	0.50	59073	HF-CORE	0.058	5	15	204	102

drill hole number= B96CH2

HF=half
W=whole

from (m)	to (m)	interval (m)	sample no.	core sampled	GOLD (oz/ton)	SILVER (g/t)	COPPER (g/t)	ZINC (g/t)	LEAD (g/t)
15.77	16.77	1.00	59074	HF-CORE	0.012	10	16	125	93
16.77	17.07	0.30	59075	HF-CORE	0.03	65	37	146	161
17.07	18.07	1.00	59076	HF-CORE	0.01	4	8	128	57
18.07	19.07	1.00	59077	HF-CORE	0.014	2	15	76	15
19.07	20.07	1.00	59078	HF-CORE	0.014	3	13	75	22
20.07	21.07	1.00	59079	HF-CORE	0.008	5	15	65	44
21.07	22.07	1.00	59080	HF-CORE	0.004	4	15	93	56
22.07	23.37	1.30	59081	HF-CORE	0.014	23	23	293	93
23.37	23.87	0.50	59082	HF-CORE	0.018	50	99	475	290
23.87	24.37	0.50	59083	HF-CORE	0.012	26	28	297	84
24.37	24.97	0.60	59084	HF-CORE	0.024	20	22	322	90
24.97	25.97	1.00	59085	HF-CORE	0.006	5	10	148	20
25.97	26.97	1.00	59086	HF-CORE	0.008	5	10	89	25
26.97	27.97	1.00	59087	HF-CORE	0.006	3	22	58	11
27.97	28.97	1.00	59088	HF-CORE	0.004	2	19	69	16
28.97	29.97	1.00	59089	HF-CORE	0.004	1	18	60	27
89.86	90.86	1.00	59090	HF-CORE	0.004	1	19	51	41
90.86	91.66	0.80	59091	HF-CORE	0.018	3	27	562	596
91.66	92.66	1.00	59092	HF-CORE	0.008	1	22	349	238
94.00	95.00	1.00	59093	HF-CORE	0.01	2	35	599	300
95.00	95.50	0.50	59094	HF-CORE	0.016	2	10	564	330
95.50	96.00	0.50	59095	HF-CORE	0.022	5	66	601	324
96.00	96.50	0.50	59096	HF-CORE	0.046	4	30	291	134
96.50	97.50	1.00	59097	HF-CORE	0.002	5	6	175	40
101.20	102.00	0.80	59098	HF-CORE	0.014	6	227	547	570
102.00	102.60	0.60	59099	HF-CORE	0.018	12	257	2000	4900
102.60	103.25	0.65	59100	HF-CORE	0.008	3	113	636	518
128.80	129.30	0.50	59101	HF-CORE	0.008	2	13	102	4100
133.69	134.19	0.50	59102	HF-CORE	0.004	3	19	140	63
134.19	134.49	0.30	59103	HF-CORE	0.002	2	8	66	54
134.49	134.99	0.50	59104	HF-CORE	0.006	1	16	98	66
140.40	141.40	1.00	59105	HF-CORE	0.022	3	74	1960	2000
141.40	141.90	0.50	59106	HF-CORE	0.35	34	712	46200	5280
141.90	142.40	0.50	59107	HF-CORE	1.376	79	2280	69100	8800
142.40	142.90	0.50	59108	HF-CORE	0.88	113	4000	58800	8400
142.90	143.90	1.00	59109	HF-CORE	0.01	3	68	2400	861
143.90	144.40	0.50	59110	HF-CORE	0.038	7	127	2520	3200
144.40	144.90	0.50	59111	HF-CORE	0.018	4	90	580	379
144.90	145.25	0.35	59112	HF-CORE	0.01	4	15	320	204
145.25	146.75	1.50	59113	HF-CORE	0.044	2	112	2510	2800
170.00	170.60	0.60	59114	HF-CORE	0.006	3	33	227	116
193.85	194.75	0.90	59115	HF-CORE	0.022	3	69	5800	4400
211.50	212.20	0.70	59116	HF-CORE	0.002	1	14	107	9
219.50	220.30	0.80	59117	HF-CORE	0.01	2	81	3200	3000
229.00	230.00	1.00	59118	HF-CORE	0	1	32	123	98
239.50	240.50	1.00	59119	HF-CORE	0.002	1	65	1980	368
253.70	254.40	0.70	59120	HF-CORE	0.008	12	60	6900	3600
256.00	257.00	1.00	59121	HF-CORE	0.004	10	114	5000	3100
257.00	258.00	1.00	59122	HF-CORE	0.002	7	89	4400	4000
258.00	259.00	1.00	59123	HF-CORE	0.006	5	108	8500	3600

drill hole number= B96CH3

HF=half
W=whole

from (m)	to (m)	interval (m)	sample no.	core sampled	GOLD (oz/ton)	SILVER (g/t)	COPPER (g/t)	ZINC (g/t)	LEAD (g/t)
8.68	9.68	1.00	59124	HF-CORE	0	1	17	80	20
9.68	10.68	1.00	59125	HF-CORE	0	1	40	2290	53
10.68	11.68	1.00	59126	HF-CORE	0	1	21	189	75
11.68	12.68	1.00	59127	HF-CORE	0	1	19	78	31
12.68	13.68	1.00	59128	HF-CORE	0	1	18	87	28
13.68	14.68	1.00	59129	HF-CORE	0.002	1	21	166	43
14.68	15.68	1.00	59130	HF-CORE	0.002	2	19	94	58
15.68	16.68	1.00	59131	HF-CORE	0.002	3	17	79	48
16.68	17.68	1.00	59132	HF-CORE	0.002	2	21	80	19
17.68	18.68	1.00	59133	HF-CORE	0.002	2	16	75	23
18.68	19.68	1.00	59134	HF-CORE	0.002	2	20	84	55
19.68	20.68	1.00	59135	HF-CORE	0.002	2	19	74	49
20.68	21.68	1.00	59136	HF-CORE	0.002	2	18	69	25
29.45	30.45	1.00	59137	HF-CORE	0.002	3	24	81	21
30.45	31.45	1.00	59138	HF-CORE	0.002	3	23	40	25
31.45	32.45	1.00	59139	HF-CORE	0	2	20	52	28
32.45	33.45	1.00	59140	HF-CORE	0	3	49	61	18
38.75	40.25	1.50	59141	HF-CORE	0	0	5	71	14
59.70	60.70	1.00	59142	HF-CORE	0	2	8	42	37
71.80	72.80	1.00	59143	HF-CORE	0.002	5	35	66	36
72.80	73.80	1.00	59144	HF-CORE	0.006	3	23	344	188
79.17	80.17	1.00	59145	HF-CORE	0.002	2	29	294	131
80.17	80.67	0.50	59146	HF-CORE	0.012	1	63	616	387
80.67	81.05	0.38	59147	HF-CORE	0.028	6	53	1470	1260
81.05	81.30	0.25	59148	HF-CORE	0.028	8	45	341	945
81.30	81.80	0.50	59149	HF-CORE	0.008	20	72	127	236
81.80	82.35	0.55	59150	HF-CORE	0.012	4	38	165	121
82.35	83.35	1.00	59151	HF-CORE	0.026	3	17	67	93
83.35	84.35	1.00	59152	HF-CORE	0	3	23	101	56
84.35	85.35	1.00	59153	HF-CORE	0	0	28	151	62
85.35	86.35	1.00	59154	HF-CORE	0.006	1	35	241	87
93.80	94.80	1.00	59155	HF-CORE	0.006	2	34	190	101
94.80	96.30	1.50	59156	HF-CORE	0.004	1	20	226	65
101.00	102.00	1.00	59157	HF-CORE	0.002	2	21	405	298
123.00	123.50	0.50	59158	HF-CORE	0	2	0	56	60
126.30	127.30	1.00	59159	HF-CORE	0.008	1	7	1210	588
127.30	128.50	1.20	59160	HF-CORE	0.002	0	21	1090	407
128.50	128.90	0.40	59161	HF-CORE	0.002	0	11	421	894
128.90	129.90	1.00	59162	HF-CORE	0.006	9	122	3080	5100
158.50	160.00	1.50	59163	HF-CORE	0.054	2	58	2450	658
160.00	161.50	1.50	59164	HF-CORE	0.004	1	23	83	51
168.50	169.00	0.50	59165	HF-CORE	0.074	3	26	79	39

drill hole number= B96CH4

HF=half
W=whole

from (m)	to (m)	interval (m)	sample no.	core sampled	GOLD (oz/ton)	SILVER (g/t)	COPPER (g/t)	ZINC (g/t)	LEAD (g/t)
33.80	34.30	0.50	59167	HF-CORE	0.002	14	7	270	34
38.39	38.79	0.40	59168	HF-CORE	0.002	6	5	50	31
38.79	39.79	1.00	59169	HF-CORE	0.002	22	13	92	19
39.79	40.59	0.80	59170	HF-CORE	0.002	59	17	620	180
40.59	41.34	0.75	59171	HF-CORE	0.004	35	15	260	72
41.34	42.88	1.54	59172	HF-CORE	0.004	7	13	80	15
57.00	58.10	1.10	59173	HF-CORE	0.008	22	28	183	150
67.00	68.20	1.20	59174	HF-CORE	0.004	2	11	70	20
71.83	73.03	1.20	59175	HF-CORE	0.006	14	31	93	98
74.70	75.40	0.70	59176	HF-CORE	0.002	14	21	68	50
117.80	118.30	0.50	59177	HF-CORE	0.002	4	19	69	41
143.13	144.13	1.00	59178	HF-CORE	0.004	5	31	128	106
144.13	145.13	1.00	59179	HF-CORE	0.002	3	19	105	100
145.13	146.13	1.00	59180	HF-CORE	0.002	3	20	176	151
146.13	146.53	0.40	59181	HF-CORE	0.006	4	15	75	69
146.53	147.13	0.60	59182	HF-CORE	0.028	9	25	553	410
147.13	147.63	0.50	59183	HF-CORE	0.024	10	102	2630	1920
147.63	148.13	0.50	59184	HF-CORE	0.01	7	101	435	400
148.13	148.63	0.50	59185	HF-CORE	0.004	12	41	712	650
148.63	149.13	0.50	59186	HF-CORE	0.012	8	83	1460	1590
149.13	149.63	0.50	59187	HF-CORE	0.004	6	151	2190	2260
149.63	150.13	0.50	59188	HF-CORE	0.01	12	125	1950	1890
150.13	150.63	0.50	59189	HF-CORE	0.004	8	65	148	169
150.63	151.13	0.50	59190	HF-CORE	0.006	11	100	166	151
151.13	152.13	1.00	59191	HF-CORE	0.004	7	103	1090	960
152.13	153.13	1.00	59192	HF-CORE	0.034	25	185	7200	5900
153.13	153.63	0.50	59193	HF-CORE	0.014	3	98	625	510
153.63	154.13	0.50	59194	HF-CORE	0.004	12	586	6430	5000
154.13	154.63	0.50	59195	HF-CORE	0.004	9	504	3810	2960
154.63	155.13	0.50	59196	HF-CORE	0.002	14	556	7770	6870
155.13	155.63	0.50	59197	HF-CORE	0.002	2	24	201	153
155.63	156.13	0.50	59198	HF-CORE	0.002	3	74	256	199
156.13	156.48	0.35	59199	HF-CORE	0.004	3	28	651	549
156.48	157.28	0.80	59200	HF-CORE	0.002	3	31	110	129
157.65	158.65	1.00	59201	HF-CORE	0.002	3	25	93	150
158.65	159.65	1.00	59202	HF-CORE	0.002	3	26	78	95
159.65	160.65	1.00	59203	HF-CORE	0.002	2	33	68	17
160.65	161.65	1.00	59204	HF-CORE	0.004	4	24	96	33
161.65	162.65	1.00	59205	HF-CORE	0.002	4	15	100	35
199.97	200.97	1.00	59206	HF-CORE	0.004	4	15	67	48
200.97	201.97	1.00	59207	HF-CORE	0.006	3	15	191	58
201.97	202.47	0.50	59208	HF-CORE	0.006	5	7	43	40
202.47	202.97	0.50	59209	HF-CORE	0	6	6	33	29
202.97	203.67	0.70	59210	HF-CORE	0	3	7	45	35
203.67	204.67	1.00	59211	HF-CORE	0.01	7	19	109	20
204.67	205.67	1.00	59212	HF-CORE	0.002	5	10	53	24
205.67	206.67	1.00	59213	HF-CORE	0.002	2	6	52	16
206.67	207.67	1.00	59214	HF-CORE	0.034	4	5	82	17
240.90	242.40	1.50	59215	HF-CORE	0	2	26	69	24

drill hole number= B96CH5 HF=half
W=whole

from (m)	to (m)	interval (m)	sample no.	core sampled	GOLD (oz/ton)	SILVER (g/t)	COPPER (g/t)	ZINC (g/t)	LEAD (g/t)
18.80	19.80	1.00	59216	HF-CORE	0.012	4	131	89	52
32.60	33.10	0.50	59217	HF-CORE	0.006	5	26	5180	997
33.10	33.60	0.50	59218	HF-CORE	0.002	4	34	502	262
45.40	46.40	1.00	59219	HF-CORE	0.002	1	34	936	437
46.40	47.40	1.00	59220	HF-CORE	0	4	34	785	206
49.60	50.10	0.50	59221	HF-CORE	0	4	32	3290	1240
59.50	60.50	1.00	59222	HF-CORE	0.156	2	115	1760	394
60.50	60.80	0.30	59223	HF-CORE	0.016	4	197	23800	1410
60.80	61.15	0.35	59224	HF-CORE	0.012	12	433	107000	3720
61.15	61.65	0.50	59225	HF-CORE	0.006	4	109	11700	3050
61.65	62.65	1.00	59226	HF-CORE	0.008	3	53	10700	926
62.65	63.15	0.50	59227	HF-CORE	0.004	4	22	1440	373
63.15	63.65	0.50	59228	HF-CORE	0	5	11	632	249
63.65	64.10	0.45	59229	HF-CORE	0.008	6	57	3890	480
73.60	74.70	1.10	59230	HF-CORE	0	4	178	98	30
74.70	75.70	1.00	59231	HF-CORE	0	5	141	5070	269
75.70	77.00	1.30	59232	HF-CORE	0	1	41	156	20
101.61	102.61	1.00	59233	HF-CORE	0.002	1	15	227	39
102.61	103.61	1.00	59234	HF-CORE	0	5	20	508	163
103.61	104.61	1.00	59235	HF-CORE	0.002	4	14	274	90
104.61	105.61	1.00	59236	HF-CORE	0.004	2	15	956	89
105.61	106.61	1.00	59237	HF-CORE	0.002	2	26	1200	238
106.61	107.61	1.00	59238	HF-CORE	0.002	4	40	1611	1090
107.61	108.61	1.00	59239	HF-CORE	0.004	1	13	96	45
108.61	109.11	0.50	59240	HF-CORE	0.024	3	92	1860	370
109.11	109.61	0.50	59241	HF-CORE	0.002	2	87	2160	320
109.61	110.11	0.50	59242	HF-CORE	0.006	2	41	1010	191
110.11	110.61	0.50	59243	HF-CORE	0.002	1	48	1300	480
110.61	111.11	0.50	59244	HF-CORE	0.012	3	87	5990	1540
111.11	111.61	0.50	59245	HF-CORE	0.004	2	45	1530	680
111.61	112.11	0.50	59246	HF-CORE	0.016	3	9	1990	737
112.11	112.61	0.50	59247	HF-CORE	0.03	8	77	4610	1520
112.61	113.11	0.50	59248	HF-CORE	0.004	1	26	2013	277
113.11	113.61	0.50	59249	HF-CORE	0.24	19	136	2933	310
113.61	114.61	1.00	59250	HF-CORE	0.002	3	31	920	252
114.61	115.61	1.00	59251	HF-CORE	0	3	15	700	236
115.61	116.61	1.00	59252	HF-CORE	0	3	17	841	214
116.61	117.61	1.00	59253	HF-CORE	0	2	28	1250	148
117.61	116.51	-1.10	59254	HF-CORE	0	1	17	359	87
116.51	119.61	3.10	59255	HF-CORE	0	2	25	1250	258
119.61	120.61	1.00	59256	HF-CORE	0.002	2	35	260	71
120.61	121.61	1.00	59257	HF-CORE	0	2	22	307	118
121.61	122.61	1.00	59258	HF-CORE	0.002	2	14	191	78
122.61	123.61	1.00	59259	HF-CORE	0	4	37	4040	1140
123.61	124.61	1.00	59260	HF-CORE	0	6	32	2260	1100
124.61	125.81	1.20	59261	HF-CORE	0	1	2	295	161

drill hole number= B96CH6

HF=half
W=whole

from (m)	to (m)	interval (m)	sample no.	core sampled	GOLD (oz/ton)	SILVER (g/t)	COPPER (g/t)	ZINC (g/t)	LEAD (g/t)
52.75	53.75	1.00	59262	HF-CORE	0.02	9	68	782	334
53.75	54.25	0.50	59263	HF-CORE	0.048	27	102	3600	1540
54.25	54.75	0.50	59264	HF-CORE	0.024	17	61	3160	980
54.75	55.41	0.66	59265	HF-CORE	0.008	16	73	335	317
55.41	55.91	0.50	59266	HF-CORE	0.056	102	167	3710	1310
55.91	56.41	0.50	59267	HF-CORE	0.062	336	266	6050	2830
56.41	57.17	0.76	59268	HF-CORE	0.152	60	620	7100	3190
57.17	58.17	1.00	59269	HF-CORE	0.004	10	43	289	405
58.17	59.17	1.00	59270	HF-CORE	0.01	11	111	58	52
59.17	60.17	1.00	59271	HF-CORE	0.006	8	145	71	43
60.17	61.17	1.00	59272	HF-CORE	0.102	16	293	4440	1810
61.17	62.17	1.00	59273	HF-CORE	0.014	6	57	241	190
62.17	63.17	1.00	59274	HF-CORE	0.016	3	33	74	15
63.17	64.17	1.00	59275	HF-CORE	0.034	5	142	158	162
64.17	65.17	1.00	59276	HF-CORE	0.002	3	24	100	26
65.17	66.17	1.00	59277	HF-CORE	0.01	6	64	118	284
66.17	67.17	1.00	59278	HF-CORE	0.022	8	241	90	138
67.17	68.17	1.00	59279	HF-CORE	0.004	5	71	76	31
68.17	68.84	0.67	59280	HF-CORE	0.01	5	22	96	61
68.84	69.44	0.60	59281	HF-CORE	0.04	22	335	20500	4260
69.44	69.94	0.50	59282	HF-CORE	0.052	18	345	7010	4700
69.94	70.44	0.50	59283	HF-CORE	0.032	9	124	3240	1110
70.44	70.94	0.50	59284	HF-CORE	0.124	31	672	14100	6630
70.94	71.94	1.00	59285	HF-CORE	0.03	10	121	1950	1260
71.94	72.94	1.00	59286	HF-CORE	0.008	4	28	172	128
72.94	74.14	1.20	59287	HF-CORE	0.008	5	26	78	101
87.25	87.75	0.50	59288	HF-CORE	0.004	5	317	1950	275
94.30	94.80	0.50	59289	HF-CORE	0.022	4	17	2420	1380
99.50	100.50	1.00	59290	HF-CORE	0.008	8	277	1460	1390
100.50	101.50	1.00	59291	HF-CORE	0.004	13	32	1220	960
101.50	102.50	1.00	59292	HF-CORE	0.038	5	50	460	330
102.50	103.50	1.00	59293	HF-CORE	0.018	6	59	310	190
103.50	104.50	1.00	59294	HF-CORE	0.054	8	108	140	110
104.50	105.50	1.00	59295	HF-CORE	0.102	6	31	110	159
105.50	106.50	1.00	59296	HF-CORE	0.038	15	182	1031	1130
106.50	106.85	0.35	59297	HF-CORE	0.058	5	18	1440	265
106.85	107.35	0.50	59298	HF-CORE	0.042	10	91	2480	726
107.35	107.85	0.50	59299	HF-CORE	0.036	19	91	2280	4000
107.85	108.35	0.50	59300	HF-CORE	0.01	13	272	1820	1470
108.35	108.85	0.50	59301	HF-CORE	0.162	29	58	11900	14700
108.85	109.35	0.50	59302	HF-CORE	0.142	30	69	24800	16100
109.35	109.85	0.50	59303	HF-CORE	0.124	25	101	37700	15400
109.85	110.35	0.50	59304	HF-CORE	0.032	22	130	32100	12700
110.35	110.70	0.35	59305	HF-CORE	0.01	6	19	2370	2740
110.70	111.20	0.50	59306	HF-CORE	0.014	3	19	1400	316
111.20	111.70	0.50	59307	HF-CORE	0.036	4	17	772	380
111.70	112.20	0.50	59308	HF-CORE	0.02	4	43	4680	331
112.20	112.70	0.50	59309	HF-CORE	0.02	5	38	5120	1320
112.70	113.20	0.50	59310	HF-CORE	0.022	5	79	6000	1360
113.20	113.70	0.50	59311	HF-CORE	0.036	7	44	6300	2570
113.70	114.20	0.50	59312	HF-CORE	0.004	6	49	5730	2130
114.20	115.20	1.00	59313	HF-CORE	0.002	5	31	1360	1010
115.20	116.20	1.00	59314	HF-CORE	0.01	5	46	1030	908
116.20	117.20	1.00	59315	HF-CORE	0.006	6	39	775	598
117.20	118.20	1.00	59316	HF-CORE	0.012	4	23	391	460
118.20	119.20	1.00	59317	HF-CORE	0.01	4	11	520	337
119.20	120.20	1.00	59318	HF-CORE	0.01	3	9	1896	1310
120.20	121.20	1.00	59319	HF-CORE	0	3	21	151	148
121.20	122.20	1.00	59320	HF-CORE	0.004	4	13	682	461
122.20	123.20	1.00	59321	HF-CORE	0.01	6	12	1340	952
123.20	124.20	1.00	59322	HF-CORE	0.006	4	14	2610	1820
124.20	125.20	1.00	59323	HF-CORE	0.004	5	9	790	558

125.20	126.20	1.00	59324	HF-CORE	0.01	3	18	2960	1380
126.20	127.20	1.00	59325	HF-CORE	0.002	4	28	820	388
127.20	128.20	1.00	59326	HF-CORE	0.006	9	13	316	279
133.10	134.10	1.00	59327	HF-CORE	0.024	5	10	2620	1810
134.10	135.10	1.00	59328	HF-CORE	0.026	5	8	1010	734
135.10	136.10	1.00	59329	HF-CORE	0.026	8	9	360	277
136.10	137.10	1.00	59330	HF-CORE	0.018	5	8	2161	1700
137.10	138.10	1.00	59331	HF-CORE	0.034	5	5	720	577
162.20	162.90	0.70	59332	HF-CORE	0.012	13	17	932	594

drill hole number= B96CH7

HF=half
W=whole

from (m)	to (m)	interval (m)	sample no.	core sampled	GOLD (oz/ton)	SILVER (g/t)	COPPER (g/t)	ZINC (g/t)	LEAD (g/t)
30.40	31.10	0.70	59333	HF-CORE	0	5	9	152	19
39.80	41.00	1.20	59334	HF-CORE	0	3	9	96	32
174.83	175.83	1.00	59335	HF-CORE	0.014	72	19	430	138
175.83	176.33	0.50	59336	HF-CORE	0.262	1390	160	9960	6580
176.33	176.83	0.50	59337	HF-CORE	0.002	10	28	410	155
176.83	177.33	0.50	59338	HF-CORE	0.004	12	59	699	481
177.33	177.83	0.50	59339	HF-CORE	0	9	36	720	544
177.83	178.33	0.50	59340	HF-CORE	0.002	7	16	151	108
178.33	178.83	0.50	59341	HF-CORE	0	6	22	460	249
178.83	179.33	0.50	59342	HF-CORE	0.002	5	13	103	75
179.33	179.83	0.50	59343	HF-CORE	0	7	12	114	57
179.83	180.33	0.50	59344	HF-CORE	0.002	5	25	260	138
180.33	181.33	1.00	59345	HF-CORE	0.002	2	13	74	28
196.06	197.06	1.00	59346	HF-CORE	0.002	2	46	52	18
197.06	197.56	0.50	59347	HF-CORE	0.02	6	96	3610	2570
197.56	198.06	0.50	59348	HF-CORE	0.018	5	42	2280	1120
198.06	198.56	0.50	59349	HF-CORE	0.016	3	44	1030	552
198.56	199.06	0.50	59350	HF-CORE	0.018	4	24	960	436
199.06	199.56	0.50	59351	HF-CORE	0.014	4	17	420	85
199.56	200.06	0.50	59352	HF-CORE	0.018	3	35	590	115
200.06	200.56	0.50	59353	HF-CORE	0.026	6	44	4950	3090
200.56	201.16	0.60	59354	HF-CORE	0.018	3	36	275	183
201.16	202.16	1.00	59355	HF-CORE	0.018	4	93	4210	2620
202.16	203.16	1.00	59356	HF-CORE	0.022	18	1230	10200	8520
205.20	205.70	0.50	59357	HF-CORE	0.01	7	62	3040	2170
212.10	212.60	0.50	59358	HF-CORE	0.006	2	14	69	35
223.21	224.21	1.00	59359	HF-CORE	0.004	4	13	54	25
224.21	224.71	0.50	59360	HF-CORE	0.008	9	16	103	63
224.71	225.21	0.50	59361	HF-CORE	0.022	40	22	307	159
225.21	225.71	0.50	59362	HF-CORE	0.022	31	19	351	375
225.71	226.21	0.50	59363	HF-CORE	0.018	92	27	760	520
226.21	226.71	0.50	59364	HF-CORE	0.012	6	28	393	215
226.71	227.21	0.50	59365	HF-CORE	0.006	6	50	193	101
227.21	227.91	0.70	59366	HF-CORE	0.032	8	177	880	590
227.91	228.91	1.00	59367	HF-CORE	0.004	4	191	94	39
233.90	234.40	0.50	59368	HF-CORE	0.004	1	5	374	460
245.90	246.70	0.80	59369	HF-CORE	0.1	5	50	22	1400
248.50	249.00	0.50	59370	HF-CORE	0.024	3	5	93	57
255.25	255.75	0.50	59371	HF-CORE	0.494	8	108	2390	2610
256.20	256.70	0.50	59372	HF-CORE	0.102	6	279	4861	4100
263.68	263.98	0.30	59373	HF-CORE	0.446	297	44600	82000	10400
263.98	265.48	1.50	59374	HF-CORE	0.054	8	366	7233	5820
269.80	270.80	1.00	59375	HF-CORE	0.008	4	46	1459	1010

drill hole number= B96CH8

HF=half
W=whole

from (m)	to (m)	interval (m)	sample no.	core sampled	GOLD (oz/ton)	SILVER (g/t)	COPPER (g/t)	ZINC (g/t)	LEAD (g/t)
36.65	37.15	0.50	59376	HF-CORE	0	1	15	57	96
86.00	87.00	1.00	59377	HF-CORE	0	3	24	36	25
131.80	132.40	0.60	59378	HF-CORE	0	21	23	623	410
137.50	138.50	1.00	59379	HF-CORE	0	5	15	162	109

drill hole number= B96CH9 HF=half
W=whole

from (m)	to (m)	interval (m)	sample no.	core sampled	GOLD (oz/ton)	SILVER (g/t)	COPPER (g/t)	ZINC (g/t)	LEAD (g/t)
4.20	5.20	1.00	59380	HF-CORE	0.002	2	15	111	200
18.43	19.13	0.70	59381	HF-CORE	0.002	4	14	58	150
51.50	52.50	1.00	59382	HF-CORE	0	3	6	31	70
52.50	53.50	1.00	59383	HF-CORE	0.008	5	9	54	69
53.50	54.50	1.00	59384	HF-CORE	0.012	2	5	90	58
54.50	55.50	1.00	59385	HF-CORE	0.002	2	11	57	85
55.50	56.50	1.00	59386	HF-CORE	0.002	5	9	28	15
81.19	82.19	1.00	59387	HF-CORE	0.012	4	9	27	19
82.19	83.19	1.00	59388	HF-CORE	0.002	4	10	36	26
83.19	84.19	1.00	59389	HF-CORE	0.002	7	9	35	30
84.19	85.19	1.00	59390	HF-CORE	0	40	11	201	140
85.19	86.19	1.00	59391	HF-CORE	0	81	13	160	97
86.19	87.19	1.00	59392	HF-CORE	0	16	18	73	81
130.00	130.70	0.70	59393	HF-CORE	0	3	6	19	10
130.70	131.70	1.00	59394	HF-CORE	0.004	2	7	17	10
141.35	142.15	0.80	59395	HF-CORE	0.004	5	9	24	30
142.80	143.30	0.50	59396	HF-CORE	0.006	2	16	48	29
150.90	151.40	0.50	59397	HF-CORE	0.002	3	11	37	40
154.80	155.80	1.00	59398	HF-CORE	0.002	2	7	17	10
155.80	156.80	1.00	59399	HF-CORE	0	3	13	34	19
156.80	157.80	1.00	59400	HF-CORE	0	3	13	70	65
205.59	206.59	1.00	59401	HF-CORE	0	2	14	44	31
206.59	207.59	1.00	59402	HF-CORE	0	3	12	48	39
207.59	208.59	1.00	59403	HF-CORE	0	2	12	65	50
208.59	209.59	1.00	59404	HF-CORE	0.004	4	20	112	79
224.00	224.50	0.50	59405	HF-CORE	0.002	3	12	53	33
252.13	253.13	1.00	59406	HF-CORE	0	9	20	52	26
253.13	254.13	1.00	59407	HF-CORE	0	8	23	49	59
254.13	255.13	1.00	59408	HF-CORE	0	8	14	61	70
255.13	256.13	1.00	59409	HF-CORE	0	17	24	76	59
256.13	257.13	1.00	59410	HF-CORE	0.004	8	21	47	56
267.30	268.30	1.00	59411	HF-CORE	0.002	7	15	38	19
268.30	269.30	1.00	59412	HF-CORE	0.068	8	13	38	15
269.30	270.30	1.00	59413	HF-CORE	0	6	15	48	38
270.30	271.30	1.00	59414	HF-CORE	0	4	9	42	40
271.30	272.30	1.00	59415	HF-CORE	0	4	8	44	57
274.50	275.50	1.00	59416	HF-CORE	0.002	9	20	117	95

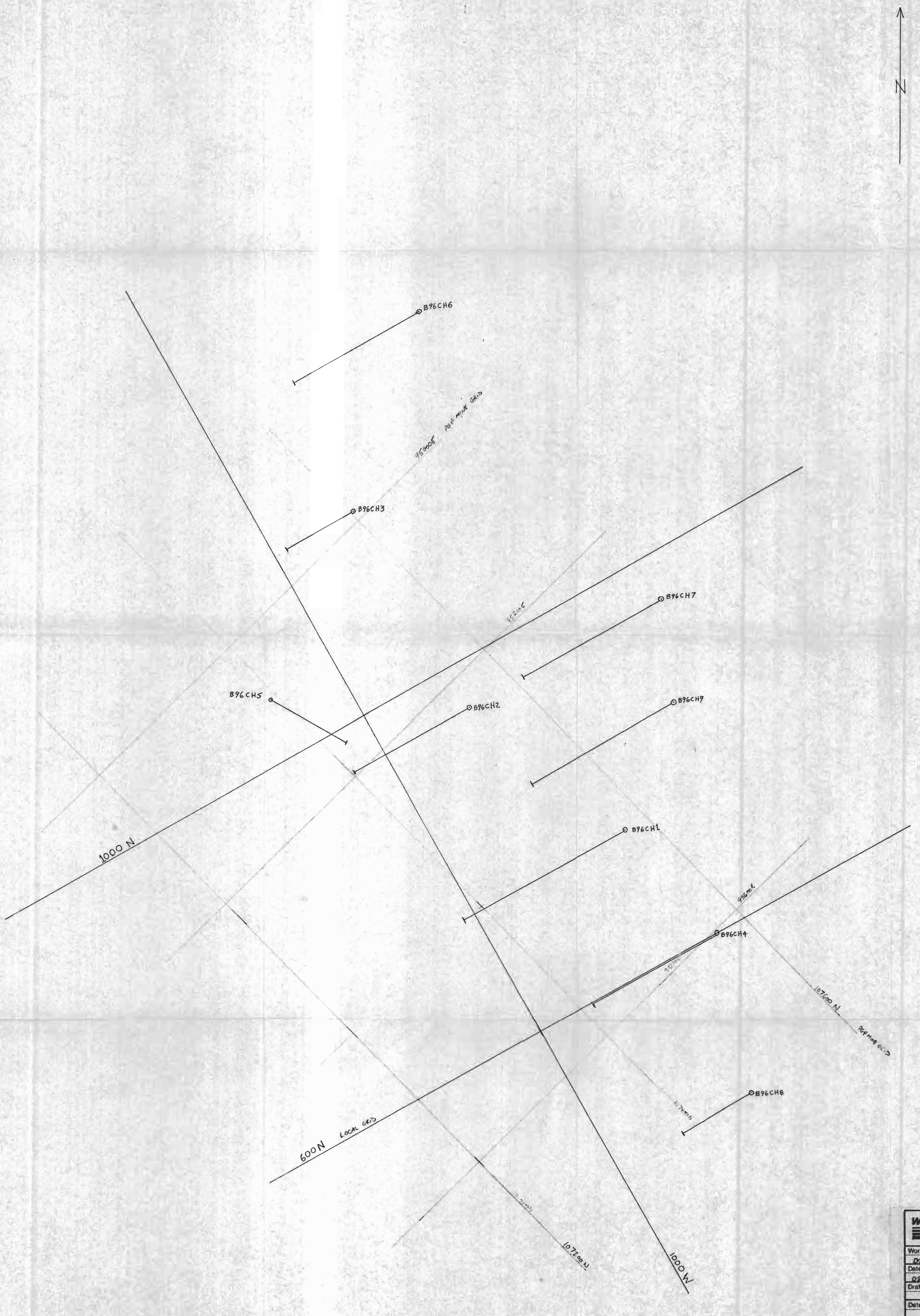
APPENDIX D

CLAIM STATUS, BIG MISSOURI PROPERTY

*BIG MISSOURI, BC 19-11-96

PREF	DISP'N #	DISPOSITION NAME	LOT No	TYPE	NTS	UNITS	REC DATE	EXP DATE
L	1521	MARTHA ELLEN			104B/1E			Wednesday, 02 July, 1997
L	1522	GLACIER			104B/1E			Wednesday, 02 July, 1997
L	1525	LECKIE FR.			104B/1E			Wednesday, 02 July, 1997
L	3208	PROVINCE			104B/1E			Wednesday, 02 July, 1997
L	3210	GOLDEN CROWN			104B/1E			Wednesday, 02 July, 1997
L	3211	J P FRACTION			104B/1E			Wednesday, 02 July, 1997
L	3213	E PLURIBUS		+SUR	104B/1E			Wednesday, 02 July, 1997
L	3216	UNUM FR.		+SUR	104B/1E			Wednesday, 02 July, 1997
L	4036	BELLA COOLA			104B/1E		10/01/76	Wednesday, 02 July, 1997
L	4037	GOOD HOPE			104B/1E		02/14/78	Wednesday, 02 July, 1997
L	4038	MAY P.J.			104B/1E		10/01/76	Wednesday, 02 July, 1997
L	4039	SILVER LEAF			104B/1E		02/08/79	Wednesday, 02 July, 1997
L	4040	LADYBIRD #2			104B/1E		10/01/76	Wednesday, 02 July, 1997
L	4127	DAY NO 1			104B/1E			Wednesday, 02 July, 1997
L	4129	DAY NO 2			104B/1E			Wednesday, 02 July, 1997
L	4130	DAY NO 3			104B/1E			Wednesday, 02 July, 1997
L	4131	DAY NO 4			104B/1E			Wednesday, 02 July, 1997
L	4132	DAY FRACTION			104B/1E			Wednesday, 02 July, 1997
L	4163	SEPTEMBER FR.			104B/1E		02/08/79	Wednesday, 02 July, 1997
L	4534	UNICORN			104B/1E			Wednesday, 02 July, 1997
L	4535	UNICORN NO 2			104B/1E			Wednesday, 02 July, 1997
L	4536	UNICORN NO 3			104B/1E			Wednesday, 02 July, 1997
L	4537	UNITY			104B/1E			Wednesday, 02 July, 1997
L	4538	GOOD HOPE			104B/1E			Wednesday, 02 July, 1997
L	4539	SNOW KING			104B/1E			Wednesday, 02 July, 1997
L	4540	SILVER CREEK FR		+SUR	104B/1E			Wednesday, 02 July, 1997
L	4541	H AND W FRACTION			104B/1E			Wednesday, 02 July, 1997
L	4542	UNITY FR.			104B/1E			Wednesday, 02 July, 1997
L	4543	V FRACTION			104B/1E			Wednesday, 02 July, 1997
	250350	TIGER	L4152		104B/1E		75/08/11	Saturday, 11 August, 2007
	250351	PYRARGYRITE	L4155		104B/1E		75/08/11	Saturday, 11 August, 2007
	250352	SILVERCREST FR.	L4162		104B/1E		75/08/11	Wednesday, 10 September, 2003
	250353	LION #1	L4166		104B/1E		75/08/11	Saturday, 11 August, 2007
	250354	LION #2	L4167		104B/1E		75/08/11	Saturday, 11 August, 2007
	250359	YELLOWSTONE FR.	L4025		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250360	BOSTON	L4026		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250361	DARWIN	L4028		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250362	DUMAS	L4029		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250363	DICKENS	L4030		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250364	OCCIDENTAL FR.	L4035		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250365	LION #3	L4168		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250366	LION FR.	L4169		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250367	HIGH GRADE #2	L4603		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250368	HIGH GRADE #1	L4604		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250369	HIGH GRADE	L4605		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250370	GALENA	L4615		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250373	MONTANA	L5092		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250374	MONTANA #1	L5093		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250375	MONTANA #2	L5094		104B/1E		75/09/10	Wednesday, 10 September, 2003
	250376	TERMINUS	L3221		104B/1E		75/09/30	Tuesday, 30 September, 2003
	250431	G. T. FR.	L3222		104B/1E		77/09/19	Friday, 19 September, 2003
	250432	FALLS VIEW	L3223		104B/1E		77/09/20	Saturday, 20 September, 2003
	250433	PROUSTITE	L4156		104B/1E		77/09/20	Saturday, 20 September, 2003
	250434	STEPHANITE	L4157		104B/1E		77/09/20	Saturday, 20 September, 2003
	250435	NATIVE	L4158		104B/1E		77/09/20	Saturday, 20 September, 2003
	250436	HESSITE	L4159		104A/4W		77/09/20	Saturday, 20 September, 2003
	250437	CERARGERITE	L4160		104A/4W		77/09/20	Saturday, 20 September, 2003
	250438	STROMEYRITE	L4161		104A/4W		77/09/20	Saturday, 20 September, 2003
	250439	A. G. FR.	L4171		104B/1E		77/09/20	Saturday, 20 September, 2003
	250440	DAUNTLESS	L3219		104B/1E		77/09/20	Saturday, 20 September, 2003

PREF	DISP'N #	DISPOSITION NAME	LOT No	TYPE	NTS	UNITS	REC DATE	EXP DATE
	250666	PASS FR.	L3906		104B/1E		79/04/04	Wednesday, 04 April, 2007
	250754	DICKY			104B/1E	4	79/08/13	Saturday, 13 September, 2003
	250755	20TH CENTURY			104B/1E	12	79/08/13	Saturday, 13 September, 2003
	250756	WMI			104B/1E	4	79/08/13	Saturday, 13 September, 2003
	250758	BOX FR.			104B/1E	1	79/08/13	Saturday, 13 September, 2003
	250759	BOETS FR.			104B/1E	1	79/08/13	Saturday, 13 September, 2003
	250767	LINDGREN			104B/1E	18	79/08/30	Thursday, 30 August, 2007
	250770	SILVER LAKE			104B/1E	4	79/08/27	Monday, 27 August, 2007
	250908	LOUPY			104A/4W	10	80/09/26	Friday, 26 September, 2003
	250909	HELEN			104A/4W	6	80/09/26	Friday, 26 September, 2003
	250910	B.C. FR.			104A/4W	1	80/09/26	Friday, 26 September, 2003
	250920	VASEY FR.			104B/1E	1	80/09/08	Monday, 08 September, 2003
	251030	KAT			104A/4W	10	81/10/14	Tuesday, 14 October, 2003
	251031	ERL			104A/4W	10	81/10/14	Tuesday, 14 October, 2003
	251067	PAM FR.			104B/1E	1	82/07/28	Saturday, 28 July, 2007
	251778	LOOKOUT	L3905		104B/1E		87/04/06	Friday, 06 April, 2007
	252193	CHICAGO FR.			104B/1E	1	88/08/11	Saturday, 11 August, 2007
	252194	MARIE RITA			104A/4W	2	88/08/11	Saturday, 11 August, 2007
	252201	TIGER FR.			104B/1E	1	88/08/11	Saturday, 11 August, 2007
	252952	MARIE NO. 2			104B/1E	8	89/07/21	Saturday, 21 July, 2007
	255397	POLYBACITE	L4154		104B/1E		75/01/06	Saturday, 06 January, 2007
	255398	ARGENTITE	L4153		104B/1E		75/01/06	Saturday, 06 January, 2007
	255399	POLYBACITE FR.	L4177		104B/1E		75/01/06	Saturday, 06 January, 2007
	255400	THE "49"	L4024		104B/1E		75/03/04	Sunday, 04 March, 2007
	255401	OXEDENTAL	L4023		104B/1E		75/03/04	Sunday, 04 March, 2007
	255402	CHICAGO	L4027		104B/1E		75/03/04	Sunday, 04 March, 2007
	255403	MILLAN DOLLAR FR.	L4034		104B/1E		75/03/04	Sunday, 04 March, 2007



note collar locations ~ Table 2 are more accurate than Fig 3

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,905

Westmin Resources Limited
MINING DIVISION

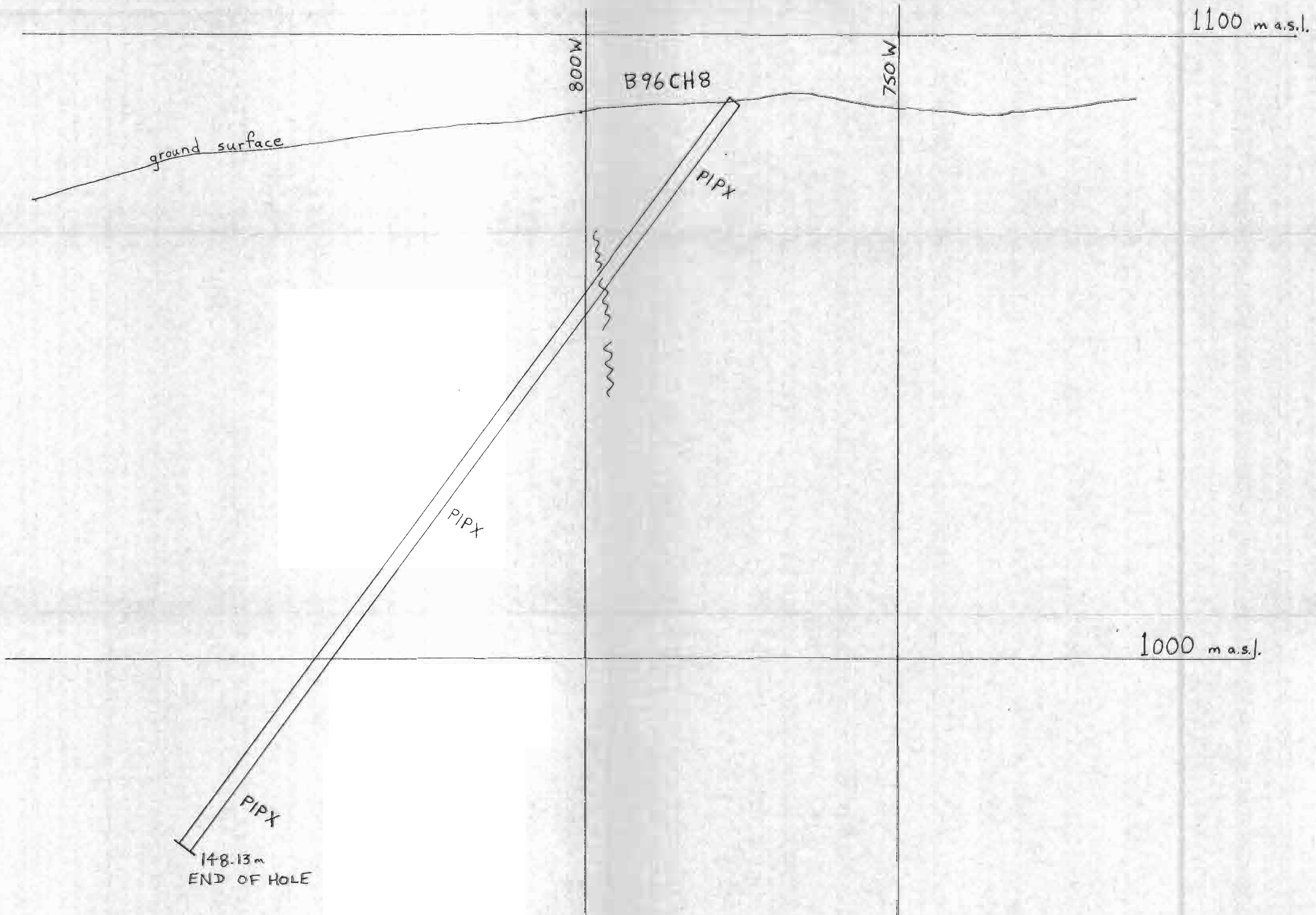
Work By: DJP
Date Drafted: 02/97
Drafted By:
Date Revised:
Revised By:
N.T.S. Number:

BIG MISSOURI PROJECT

DRILL HOLE LOCATION MAP

SCALE 1:2000

Figure 3



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Date Drafted
02/97
Drafted By

Date Revised

Revised By

N.T.S. Number

MARTHA ELLEN
ZONE

SECTION 430 N

10 0 10 20 30
SCALE 1:500

Figure
4

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,905

WESTMIN

Westmin Resources Limited
MINING DIVISION

Work By
DJP
Date Drafted
02/97
Drafted By

Date Revised

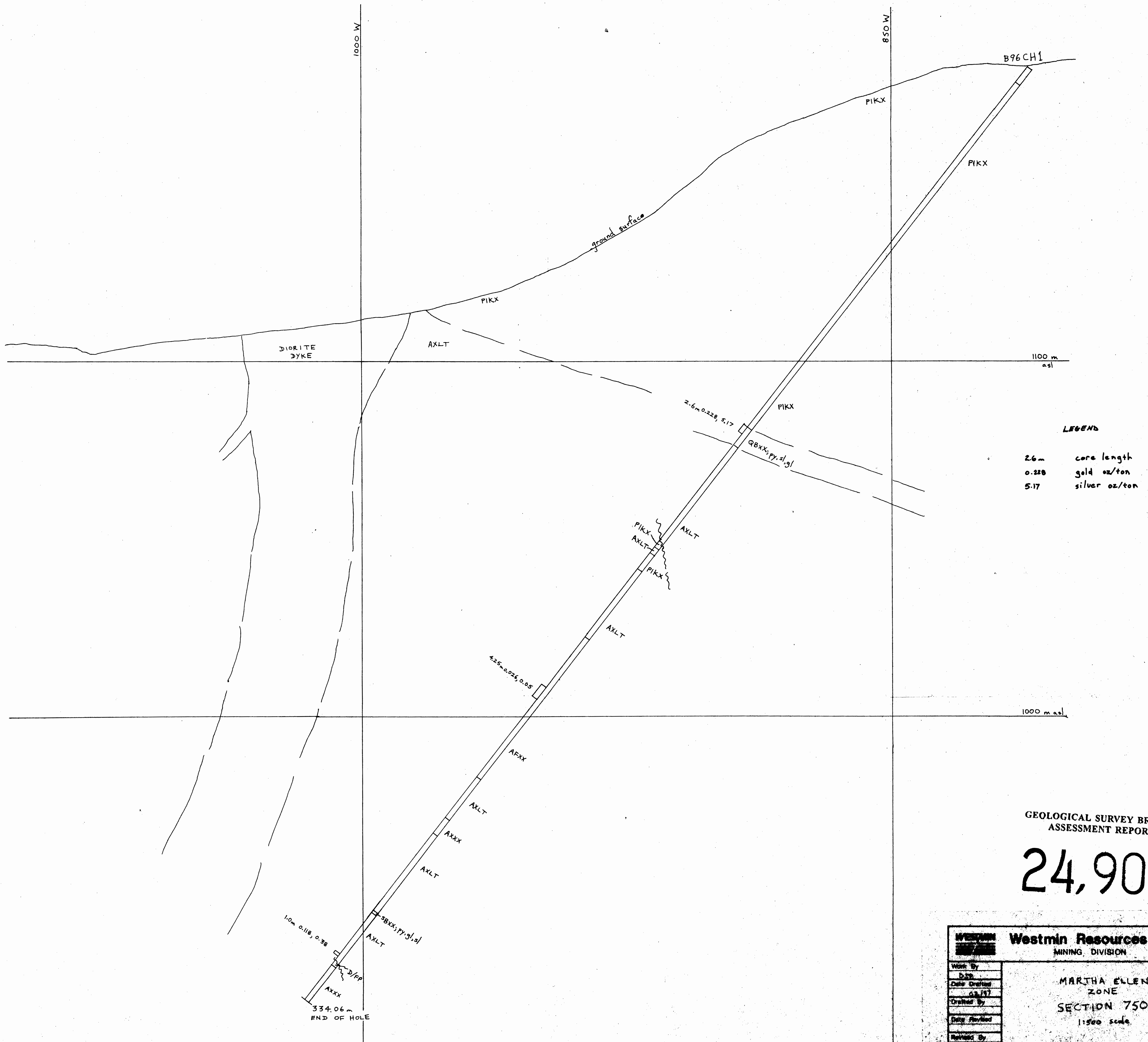
Revised By

N.T.S. Number

MARTHA ELLEN
ZONE

SECTION 600N
1:500 scale

Figure
5



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,905

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MINING DIVISION

Work By DSP	MARTHA ELLEN ZONE SECTION 750N 1:500 scale
Date Drafted 02/97	
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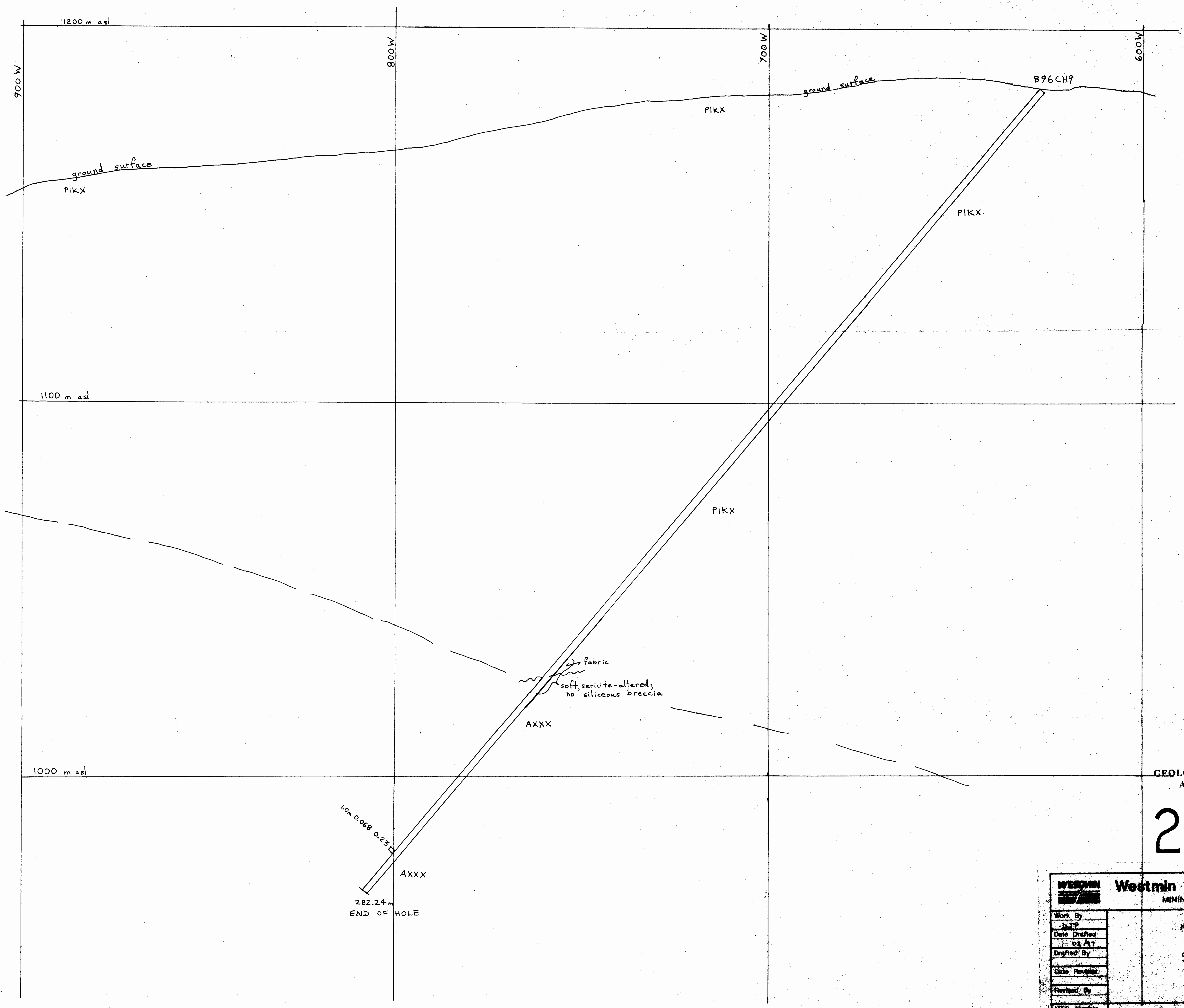
Date Revised	
Revised By	
N.T.S. Number	Figure 6



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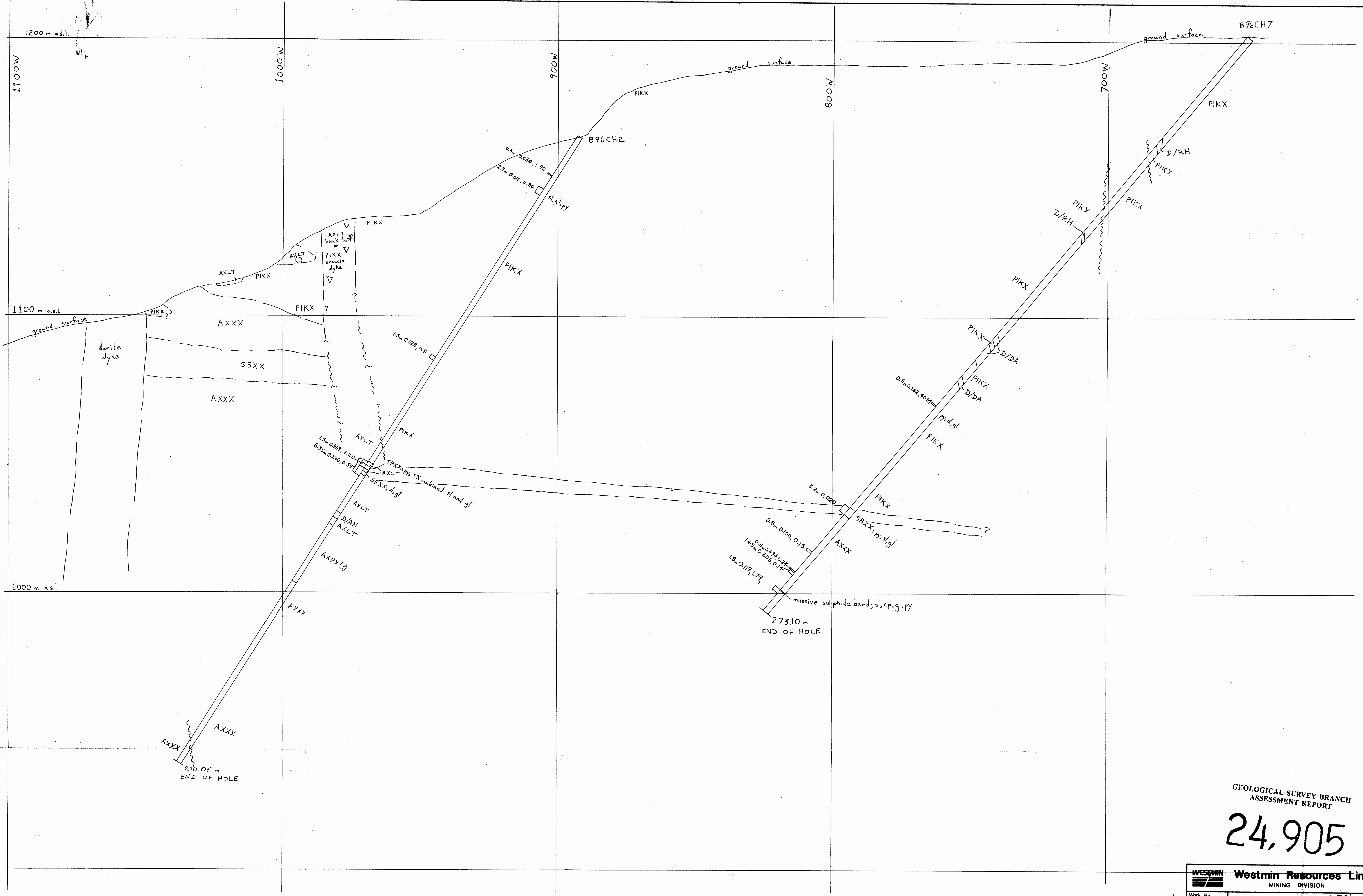
MARTHA ELLEN
ZONE

SECTION 850 N
scale 1:500

SCALE

Figure
7



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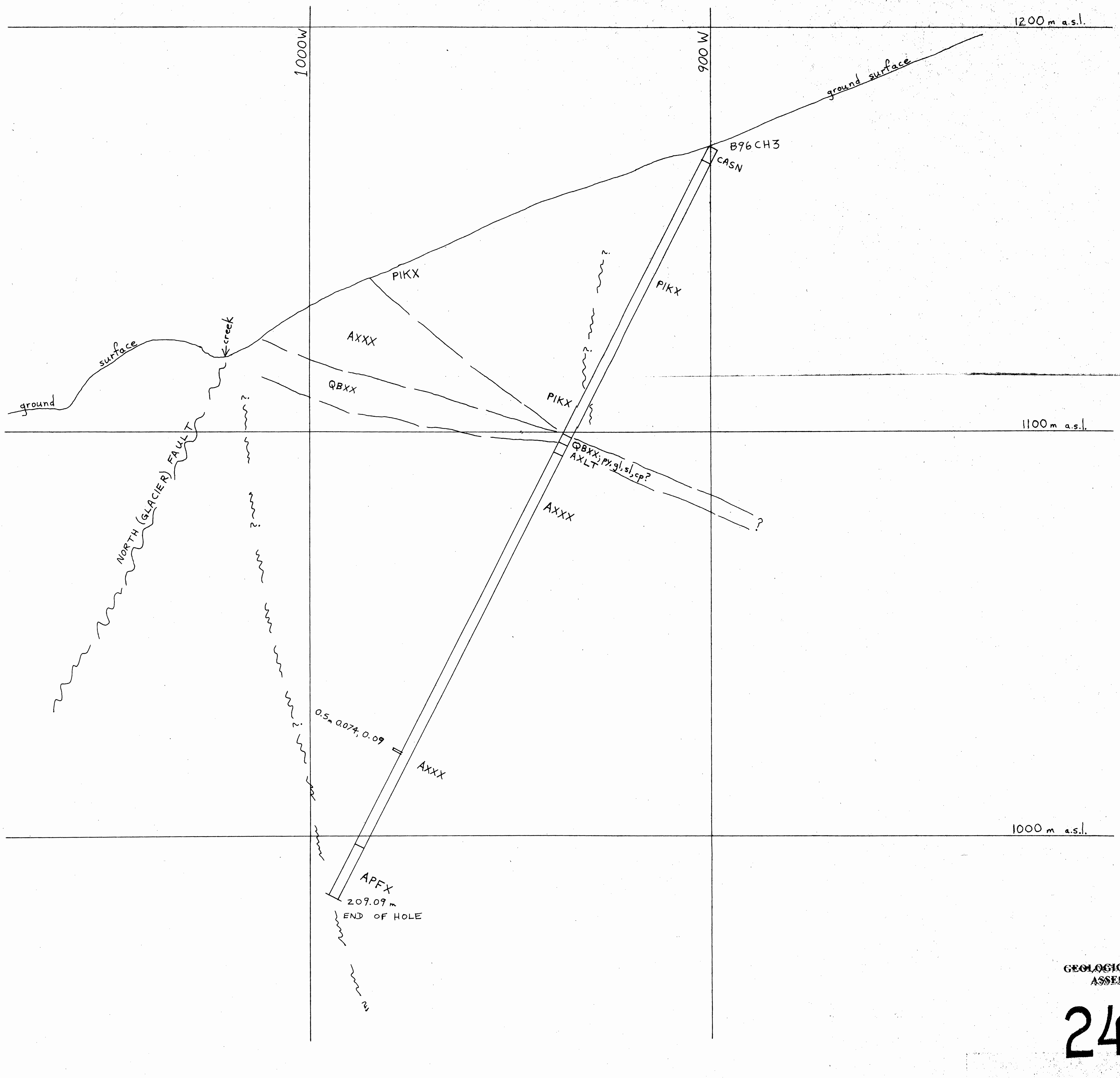
MARTHA ELLEN
ZONE
SECTION 950 N
scale 1:500

10 0 10 20 30 m
SCALE

Figure 8



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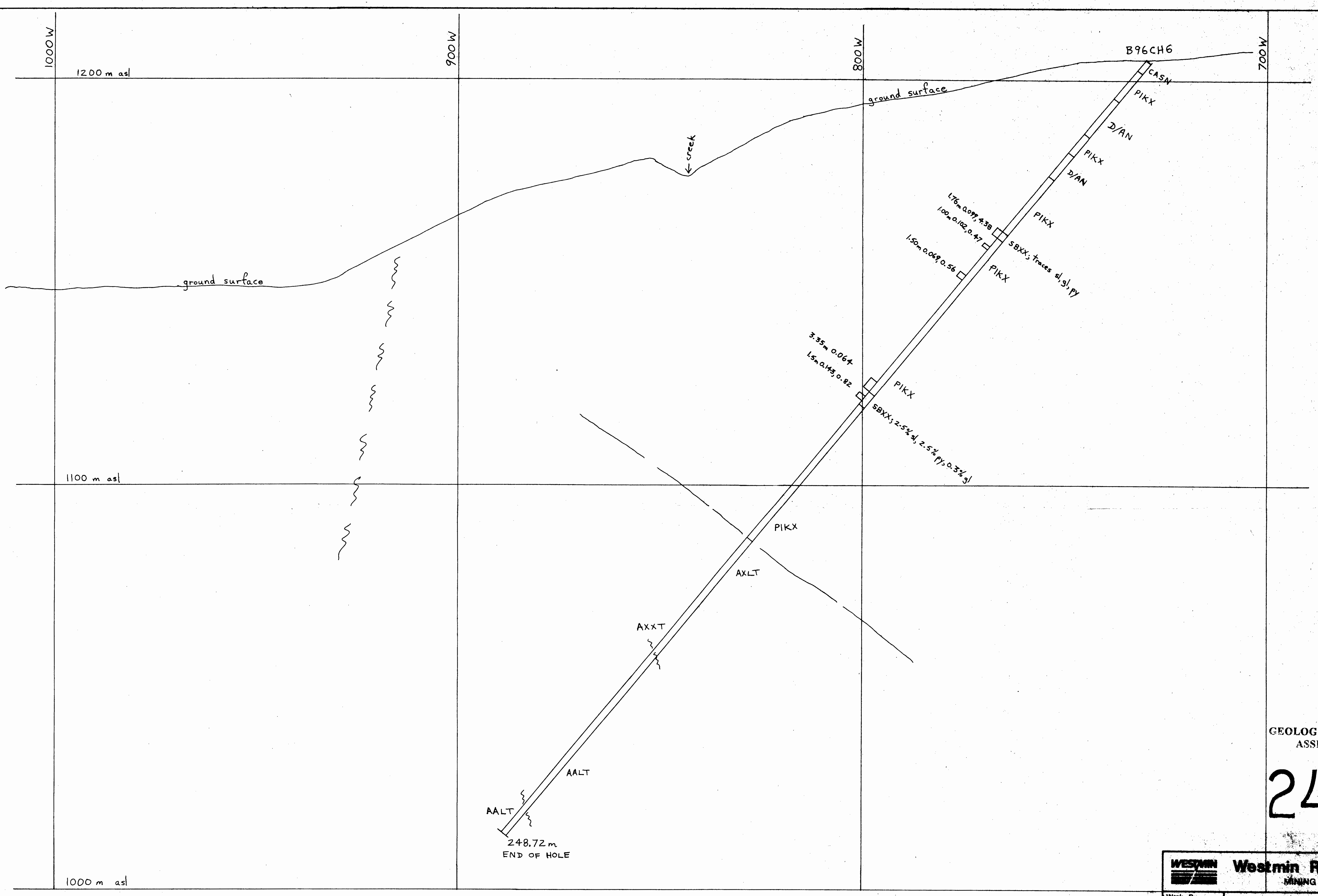
MARTHA ELLEN
ZONE
SECTION 1200N
scale 1:500

SCALE

Figure
9



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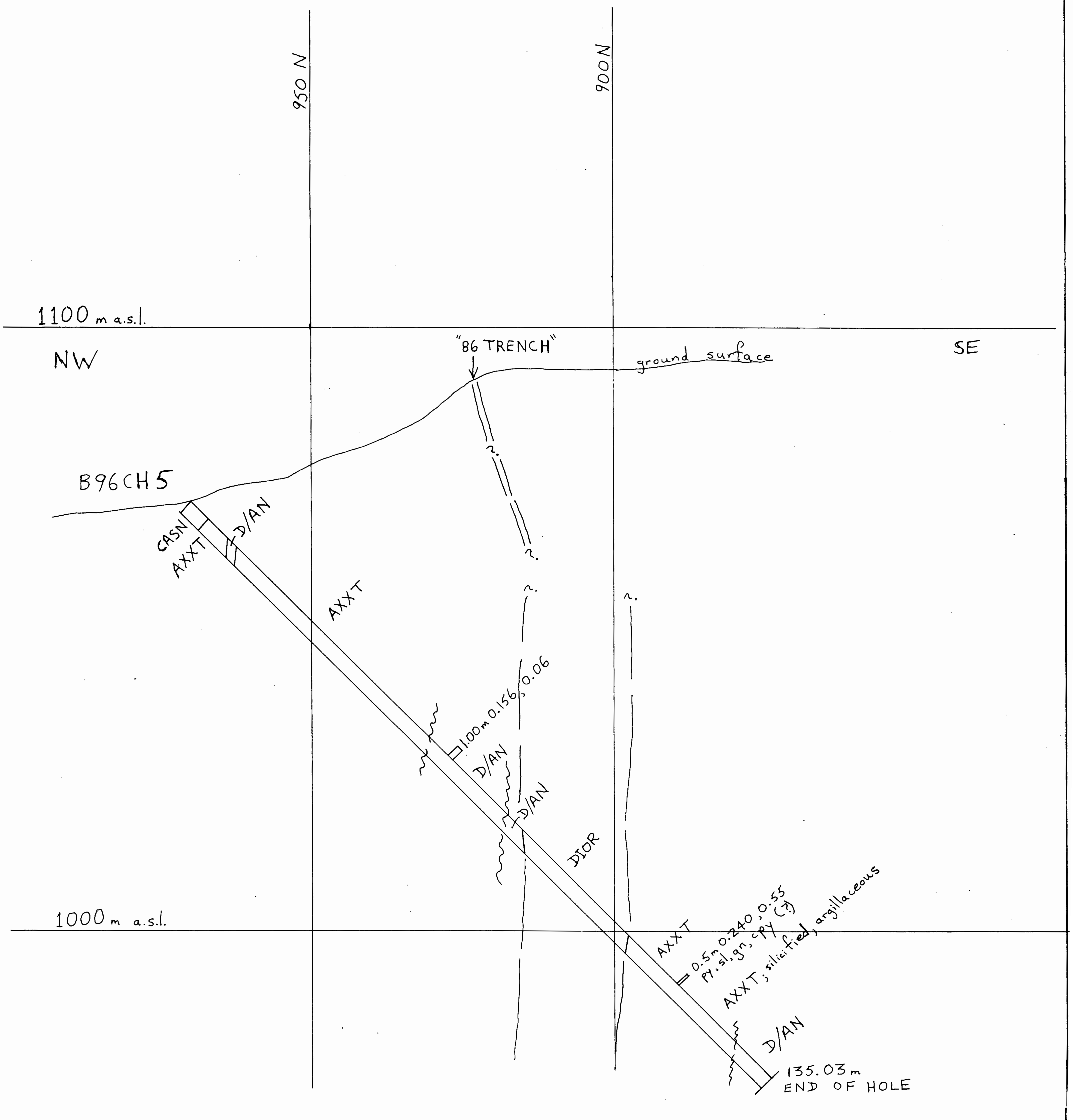
MARTHA ELLEN
ZONE
SECTION 1358 N
scale 1:500

SCALE

Figure 10



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MARTHA ELLEN
ZONE

SECTION 1140W

scale 1:500

10 0 10 20 30
SCALE

Figure
11