38-584R-

HOLE NUMBER: 7516 7516

FALCONBRIDGE LIMITED
DRILL HOLE RECORD

DATE: 01/09/1998
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: 2MINE EXPLORATION
PROJECT NUMBER: #2Mine
CLAIM NUMBER: LMA75-#2276
LOCATION: 3800L Expl. Drift

PLOTTING COORDS GRID: Mine Grid
NORTH: 65538.30N
EAST: 65827.10E SURV.
ELEV: 2165.85

ALTERNATE COORDS GRID: UTM
NORTH: 5393055mN
EAST: 473164mE
ELEV:

COLLAR DIP: -5° 0' 0"
LENGTH OF THE HOLE: 285.00M
START DEPTH: 0.00M
FINAL DEPTH: 285.00M

COLLAR ASTRONOMIC AZIMUTH: 160° 0' 0" S20°E

GRID ASTRONOMIC AZIMUTH: 0° 0' 0"

DATE STARTED: 12/06/1997
DATE COMPLETED: 12/08/1997
DATE LOGGED: 12/20/1997

COLLAR SURVEY: YES
MULTISHOT SURVEY: YES
RQD LOG: YES

PULSE EM SURVEY: NO
PLUGGED: YES
HOLE SIZE: BQ

CONTRACTOR: Morissette
CASING:
CORE STORAGE: Minesite
UTM COORD.:

COMMENTS :
WEDGES AT:

DIRECTIONAL DATA:

Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
15.00	162° 0' 0"	-5° 0' 0"	S	OK		-	-	-	-	-	
30.00	166° 0' 0"	-6° 0' 0"	S	OK		-	-	-	-	-	
60.00	166° 0' 0"	-9° 0' 0"	S	OK		-	-	-	-	-	
120.00	170° 0' 0"	-9° 0' 0"	S	OK		-	-	-	-	-	
180.00	170° 0' 0"	-10° 0' 0"	S	OK		-	-	-	-	-	
240.00	172° 0' 0"	-9° 0' 0"	S	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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Pascal Prince

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 61.50	«R,M,BX» Brecciated, massive rhyolite	-From 0 to 1.5m: no core -Fine grained, light to dark grey coloured -Interlayered brecciated and more massive units -Rare qtz phenocryst evident -From 5 to 5.3m: broken core, disking -Weakly schistose at 45 to 60° TCA -Fracture controlled mineralization throughout, minor pyrite and fine sphalerite stringers, with associated fine elongated tourmaline crystals -From 22.7 to 23.1m: Strongly chloritized fragmental unit. Silicified and chlorite-sericite rich clasts are present in fine grained chlorite matrix. Trace disseminated pyrite also evident -From 25.5 to 54.9m: Mildly brecciated sericitized rhyolite with frature controlled pyrite mineralization -‖54.9-61.5‖«‹FAI›»: Shear zone, core is broken along foliation (50° TCA). Minor gouge at 55.4m. -Lower contact is poorly defined. Based on the presence of lapilli		-Moderately siliceous and sericitic with weak fracture controlled chlorite -From 22.9 to 25.5: increasingly chloritized (moderate) -From 25.5 to 61.5m: strongly sericitized with weak to moderate silica alteration.	-Weakly mineralized throughout, stringer type mineralization with 1-5% pyrite, trace fine sphalerite stringers (dusting) and associated fine tourmaline needles.	R,BX,SI+SE+CL,WS,1-5S,T
61.50 TO 87.60	«R,LT,BX» Rhyolite Lapilli tuff, Brecciated	-Fine grained, light grey-green coloured -Occasional silicified lapilli within tuffaceous rhyolite -Quartz phenocrysts evident, approximatly 1% Minor fracture controlled pyrite mineralization throughout -Fractured and veined: Fracture filling chlorite and sericite alt., minor qtz-calcite veinlets -Moderately schistose at 50° TCA, strongly schistose at and near shear zones -‖67-68.2‖«‹FAI›»: Fault zone with minor gouge material, strongly sericitized -From 68.2 to 80.6m: Core is broken along foliation at 50-60° TCA -From 84 to 86m: coarse rhyolitic fragments from		-From 61.5 to 86m: Strong sericite alteration, fracture controlled, weak to moderate silicification -From 86 to 87.6m: Strong pervassive chlorite alteration and minor fracture filling calcite	-Minor fracture controlled pyrite mineralization throughout -Fine stringer (trace chalcopyrite) is present in strongly chloritized units immediately above mafic intrusion	R,LT,SE,MS,TP,0

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		0.1 to 4.0cm diameter are evident, breccia to lapillistone textured, strongly sericitic -From 86 to 87.6m: dark grey-green coloured, chloritized rock, alteration strongly overprints bracciated or lapillistone texture, trace chalcopytite mineralization at 87.5m -Lower contact is sharp at 87.6m @ 70° TCA				
87.60 TO 89.60	«A/D 1» Mafic dyke	-Fine grained, green coloured -Massive -Minor very fine buff coloured leucoxenes evident -Fractured and veined: thin qtz-calcite veinlets -Trace amounts of disseminated pyrite -Lower contact is sharp at 80° TCA, minor chilled margin of the mafic intrusion is present		-Pervassive chlorite alteration -Minor fracture filling qtz-calcite	-Trace disseminated pyrite	A/D1,M,CL,FV,TP,LXP
89.60 TO 108.50	«QFP» Quartz feldspar porphyry	-Medium to coarse grained, light grey coloured -Massive porphyritic -Mineral composition: 50-60% coarse feldspar crystals (laths), 30% qtz porphyritic crystals, minor grey-green sericitization -Fractured and veined: abundant qtz veins @ 45° TCA, 0.1 to 15.0cm wide veins, minor amounts of sericite rich veins and fracture filling chlorite -Minor disseminated (1-5%) pyrite mineralization throughout -Lower contact is sharp, along pyrite bearing qtz vein, at 80° TCA		-Weak fracture controlled grey-green sericite alteration -Trace chlorite	-Minor disseminated and fracture controlled pyrite mineralization throughout	QFP,M,SE,FV,DP,QV
108.50 TO 285.00	«G,B» Greywacke	-Fine to medium grained, light to dark grey coloured, depending on grain size (finer grained darker coloured) -Bedded at 70° TCA, parallel to a weak schistosity -Occasional grading, minor argillitic fragments present -Minor disseminated euhedral pyrite crystals -Fractured and veined: abundant qtz-calcite veining, 0.1 to 3.0cm wide veins		-Moderately chloritic -Qtz-calcite veining	-Minor disseminated pyrite, 1 to 5% -Trace disseminated and rare clastic pyrrhotite	G,B,CL,FV,DP,QV

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-From 108.5 to 109.2m: Very hard rock (sedimentary), chert like, very fine grained, black coloured, with 1-5% pyrrhotite (weakly magnetic) -From 200m to EOH: poor RQDs -From 201.5 to 204.8m: Broken core -From 207.7 to 208m: Joint at 10° TCA, weak shear -From 211.9 to 212.4m: Joint at 5° TCA -From 214.4 to 214.7m: Joint at 5° TCA				
285.00 TO 285.00	«E.O.H»					

HOLE NUMBER : 7516

ASSAYS SHEET

DATE: 09/01/1998

Sample	From (M)	To (M)	Leng. (M)	Ag g/T	Cu %	Zn %	Pb %	Ni ppm	S %	Se ppm	S.G.	Rock Type	MIN	ALT	Au ppb
KA02520	1.50	2.50	1.00	0.3	59	5140	3	4							<2
KA02521	11.50	12.50	1.00	0.4	109	8560	16	3							<2
KA02522	18.00	19.00	1.00	13.3	214	29900	1320	3							<2
KA02523	19.00	20.00	1.00	10.2	61	20000	210	4							<2
KA02524	20.00	21.00	1.00	9.6	38	890	139	5							<2
KA02525	87.00	87.60	0.60	12.0	1850	368	5	66							<2
KA02526	106.00	107.00	1.00	0.1	13	63	6	19							<2
KA02527	107.00	108.50	1.50	0.1	24	90	14	21							14

38-548R-

HOLE NUMBER: 7531 7531

FALCONBRIDGE LIMITED
DRILL HOLE RECORD

DATE: 04/15/1998
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: 2MINE EXPLORATION
PROJECT NUMBER: #2Mine
CLAIM NUMBER: LMA75-#2276
LOCATION: 38L Expl. Drift

PLOTTING COORDS GRID: Mine Grid
NORTH: 65544.40N
EAST: 65828.00E
ELEV: 2167.24

Est. 65544.4 / 65826.9 SURV. / 2167.24

ALTERNATE COORDS GRID: UTM
NORTH: 5393062 mN
EAST: 473165 mE
ELEV:

COLLAR DIP: -5° 0' 0"
LENGTH OF THE HOLE: 273.00M
START DEPTH: 0.00M
FINAL DEPTH: 273.00M

COLLAR ASTRONOMIC AZIMUTH: 0° 0' 0"
GRID ASTRONOMIC AZIMUTH: 0° 0' 0"

DATE STARTED: 12/22/1997
DATE COMPLETED: 12/30/1997
DATE LOGGED: 01/10/1998

COLLAR SURVEY: YES
MULTISHOT SURVEY: YES
RQD LOG: YES

PULSE EM SURVEY: NO
PLUGGED: YES
HOLE SIZE: BQ

CONTRACTOR: Morissette
CASING:
CORE STORAGE: mine site
UTM COORD.:

COMMENTS :
WEDGES AT:

DIRECTIONAL DATA:

Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
15.00	355° 0' 0"	-6° 0' 0"	S	OK	
30.00	0° 0' 0"	-5° 0' 0"	S	OK	
60.00	4° 0' 0"	-1° 0' 0"	S	OK	
120.00	4° 0' 0"	0° 0' 0"	S	OK	
180.00	4° 0' 0"	0° 0' 0"	S	OK	
240.00	17° 0' 0"	5° 0' 0"	S	OK	

Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

Pascal Prince

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 9.40	<R,LT> Rhyolite lapilli tuff	-Fine grained, dark grey coloured -Minor amounts of rhyolitic lapilli are present, 0.2-2.0cm diameter, rounded, siliceous -Matrix is fine grained chlorite-sericite altered tuff -Fractured and veined: occasional thin qtz-calcite veinlets are evident -From 1-1.9m: broken core, poor RQDs following casing -Minor stringer sulphide mineralization, mainly pyrite and trace fine sphalerite stringers -Lower contact is poorly defined, down hole of contact no lapilli are evident, rhyolite appears massive with stockwork of micro-fractures		-Moderate chlorite and weak sericite alteration of tuffaceous rhyolite -Rare rhyolite lapilli are silicified	-Stringer mineralization is evident: 1-5% fracture controlled pyrite and trace localized sphalerite staining	R,LT,CL,FV,1-5S,QV
9.40 TO 113.60	<R,M,FV> Fractured and veined Massive rhyolite	-Fine grained, light to medium grey coloured, and green in strongly sericitized zone -Rare fine grained qtz phenocryst evident -Fractured and veined: qtz-calcite veining, fracture controlled pyrite mineralization -From 9.4 to 37.5m: Weakly schistose at 50-60° TCA -Locally brecciated where stringer pyrite mineralization and sphalerite staining is strong -Minor fine elongated tourmaline crystals associated with mineralized zones -From 22.7 to 31.8m: Moderate sphalerite staining -From 25.6m to 53.8m: light green coloured, strongly sericitic rhyolite -From 37.5 to 113.6m: weak to moderate schistosity at 45° TCA -From 41.7 to 45m: stringer pyrite mineralization -From 39.3 to 45.4m: broken core, poor RQDs -From 53.8 to 58.2m: Black coloured massive rhyolite, very fine grained, strong silicification, weak fracture controlled sericite alteration -From 59.4 to 60.5m: qtz-calcite veining, minor		-Weak to moderate pervasive chlorite and sericite alteration -From 25.6 to 53.8m: strong sericite alteration (pervasive) -Minor fracture controlled chlorite alt. -From 47 to 84.5m: strong silica and moderate sericite alterations -From 84.5 to 113.6m: sericite alteration and qtz-calcite veining	-Locally stringer pyrite mineralization and sphalerite staining is evident -From 22.7 to 31.8m: Moderate sphalerite staining, 1-5% pyrite -From 41.7 to 45m: 1-5% pyrite	R,M,SI+SE,FV,1-5S,T

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		fracture controlled pyrite -From 63.2 to 78.5m: breccia looking rhyolite: banded alteration (along foliation), green (sericite) and light grey (silica) bands. -From 90.5-90.6m: Thin tuffaceous bed, fine sandy texture, sericitic, minor fine disseminated pyrite crystals -From 109.8 to 112.3m: brecciated rhyolite, with strong qtz-calcite veining -Lower contact at 113.6m is poorly defined, down hole rhyolite has a brecciated to lapillistone texture			-From 94 to 95.2m: strong stringer pyrite mineralization, 5-10% py -From 95.2 to 113.6m: minor disseminated pyrite -From 112.5 to 113.6m: minor disseminated pyrrhotite	
113.60 TO 183.60	«R,BX» Brecciated rhyolite	-Fine grained, light to dark grey coloured -Brecciated, where blocks of silicified and sericitic rhyolite are seperated by interstitial chlorite-sericite -Minor very fine grained qtz and feldspar phenocrysts -Trace disseminated pyrite -From 113.6 to 148.5m: Weak to moderate schistosity at 70° TCA -From 121.4 to 126m: broken core, poor RQDs -‖125-126‖«‹FAI›»: At 126m, 1m of grind, may be fault zone? -Fractured and veined: Qtz-calcite veining throughout -From 137 to 137.6m: Large qtz-calcite vein at 10-20° TCA -From 139.9 to 144m: broken core, poor RQDs -‖142-144‖«‹FAI›»: at 144m, 2m grind, may be fault zone? -‖148.5-152‖«‹Fol 80°›»: shear zone, strong schistosity at 80° TCA -From 161.2 to 161.4m: Qtz veining with minor pyrrhotite mineralization -From 152 to 167.3m: weak schistosity at 70° TCA -‖167.3-168‖«MRF»: Mixed fragmental, dominately rhyolite clasts from 0.1 to 3.0cm diameter, subrounded and stretched. Minor (1-5%) fine		-Pervasive silica and sericite alteration, plus moderate fracture controlled chlorite-sericite alt.	-Minor disseminated pyrite and localized disseminated pyrrhotite -From 161.2 to 161.4m: Qtz veining with minor pyrrhotite	R,BX,SI+SE+CL,MS,TP,QV

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		mafic clasts, 0.1-1.0cm diameter. Matrix is fine grained and sericite altered -From 172 to 183.6m: Intensely sericitized rhyolite, primary textures are overprinted. Minor amounts of fine grained (1-3mm) euhedral calcite crystals are evident locally -Lower contact is sharp at 183.6m @ 70° TCA. Down hole rhyolite is silicified and massive		-From 172 to 183.6m: Intense sericite alteration, with minor euhedral calcite crystals evident		
183.60 TO 245.10	«R,M,FV» Fracture and veined massive rhyolite	-Very fine grained, mainly dark grey coloured with minor light grey-greenish intervals -Quartz phenocrysts are evident throughout <1% -Rhyolite is massive and fractured and veined: Abundant qtz-calcite veining, and fracture controlled chloritic alteration -From 183.6 to 204.5m: Weak schistosity at 70° TCA -«193-195»«FAI»: Broken core, poor RQDs, 1.3m of grind. May be fault zone ? -Lower contact at 245.1m at 90° TCA		-Very strong silicification and minor fracture controlled chlorite alteration. Abundant micro-veinlets of chlorite -From 195 to 245.1m: Intense silica alteration, dark grey coloured, fractured -Abundant qtz-calcite veining throughout	-Trace fracture controlled pyrite	R,M,SI,FV,TP,QV
245.10 TO 262.70	«R,TPQ» Rhyolite tuff porphyritic qtz eyes	-Fine grained, grey-green coloured -Abundant qtz phenocrysts 1% -Occasional rhyolite fragment, 0.2-2.0cm diameter, subrounded, stretched -Fractured and veined: minor qtz-calcite veining -Lower contact is sharp at 70° TCA at 262.7m		-Clorite-sericite alteration -Minor Qtz-calcite veining		R,TPQ,CL+SE,FV,0,QV
262.70 TO 273.00	«TC» Talc carbonate	-Fine grained, dark grey coloured -Soft -Network textured: stock work of carbonate veinlets -Fractured and veined		-Talc and carbonate alteration -Moderately chloritic		TC,NT,T+CA,FV,0,0
273.00 TO 273.00	«E.O.H»					

HOLE NUMBER : 7531

ASSAYS SHEET

DATE: 15/04/1998

Sample	From (M)	To (M)	Leng. (M)	Ag g/T	Cu %	Zn %	Pb %	Ni ppm	S %	Se ppm	S.G.	Rock Type	MIN	ALT	Au ppb
KA02616	22.00	23.00	1.00	20.1	516	1400	219	9							3
KA02617	23.00	24.00	1.00	10.5	69	2080	537	10							10
KA02618	24.00	25.00	1.00	26.6	49	1910	230	5							17
KA02619	25.00	26.00	1.00	25.3	27	11500	2660	10							17
KA02620	26.00	27.00	1.00	9.2	13	8180	304	6							10
KA02621	27.00	28.00	1.00	10.5	23	5380	136	11							<2
KA02622	28.00	29.00	1.00	703.0	60	44400	680	5							171
KA02623	29.00	30.00	1.00	5.1	34	980	208	9							<2
KA02624	30.00	31.00	1.00	15.5	87	10000	3250	10							17
KA02625	31.00	32.00	1.00	22.9	33	6310	2610	9							38
KA02626	41.70	42.50	0.80	1.5	10	188	68	12							14
KA02627	94.00	95.00	1.00	29.5	31	2100	183	14							10

HOLE NUMBER: 7541

FALCONBRIDGE LIMITED
DRILL HOLE RECORD

DATE: 05/29/1998
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: 2MINE
PROJECT NUMBER: #2Mine
CLAIM NUMBER: LMA75-#2276
LOCATION: 3800L Expl. Drift

PLOTTING COORDS GRID: Mine Grid
NORTH: 65543.70N
EAST: 65828.00E
ELEV: 2166.00

ALTERNATE COORDS GRID: UTM
NORTH: 5393061mN
EAST: 473166mE
ELEV:

COLLAR DIP: -5° 0' 0"
LENGTH OF THE HOLE: 303.00M
START DEPTH: 0.00M
FINAL DEPTH: 303.00M

COLLAR ASTRONOMIC AZIMUTH: 340° 0' 0"

GRID ASTRONOMIC AZIMUTH: 0° 0' 0"

DATE STARTED: 12/30/1997
DATE COMPLETED: 01/07/1998
DATE LOGGED: 01/16/1998

COLLAR SURVEY: YES
MULTISHOT SURVEY: YES
RQD LOG: YES

PULSE EM SURVEY: NO
PLUGGED: YES
HOLE SIZE: BQ

CONTRACTOR: Morissette
CASING:
CORE STORAGE: mine site
UTM COORD.:

COMMENTS :
WEDGES AT:

DIRECTIONAL DATA:

Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
15.00	345° 0' 0"	-5° 0' 0"	S	OK	
30.00	347° 0' 0"	-3° 0' 0"	S	OK	
60.00	346° 0' 0"	-1° 0' 0"	S	OK	
120.00	347° 0' 0"	2° 0' 0"	S	OK	
180.00	348° 0' 0"	3° 0' 0"	S	OK	
240.00	353° 0' 0"	4° 0' 0"	S	OK	
300.00	350° 0' 0"	7° 0' 0"	S	OK	

Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

Pascal Prince

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 41.10	<R,BX,FV> Brecciated rhyolite, Fractured and veined	-Fractured and veined rhyolite with several brecciated intervals. -Fine grained light to dark grey coloured -Fine qtz phenocrysts present -Locally brecciated, subrounded to subangular fragments evidant. Sulphide content increases in breccia intervals, sphalerite staining is strong -Fractured and veined: quartz-calcite veinlets present throughout. Fracture controlled pyrite (stringer) mineralization. -Weak schistosity dominately at 40 to 50° TCA -Lower contact poorly defined. Down hole, brecciated intervals are absent, and massive texture predominates		-Moderate fracture controlled chlorite and more pervassive sericite + weak silica alterations	-Minor fracture controlled pyrite mineralization with associated fine elongated tourmaline crystals -From 18.7 to 41.1m: weak to strong sphalerite staining. Sphalerite varies from brick red to light orange (buff) coloured. Trace amounts of galena and 1-5% pyrite is also evident	R,BX,CL+SE,FV,1-5S,T
41.10 TO 93.00	<R,M,FV> Massive Rhyolite, fractured and veined	-Very fine grained, light to dark grey coloured -Minor fine quartz phenocrysts present -Fractured and veined: Minor fine qtz-calcite veinlets, and fracture controlled pyrite mineralization present -From 68.1 to 68.7m: Qtz veining at 50° TCA -From 57.1 to 93m: weak schistosity at 30 to 50° TCA. Fine qtz-cc veinlets and "bedding-like" fine alteration bands (localized) are oriented parallel to foliation -From 87.8 to 93m: Dark green coloured rock, fine grained, strongly chloritic, with minor stringer pyrite and pyrrhotite mineralization. Occasional qtz phenocrysts present. Strongly altered rhyolite -Lower contact is poorly defined (textural change). Down hole rhyolite lapilli are locally evident		-Strong pervassive sericite and silica alteration, and weak fracture controlled chlorite and sericite alt. -From 87.8 to 93m: Strongly chloritized rhyolite, with weak calcite spotted (fine blebs) alteration	-From 41.1 to 53.5m: 1-5% stringer pyrite mineralization, fine pyritic fractures -From 53.5 to 87.8m: minor (1%) disseminated pyrite -From 59.5 to 65.5m: trace very fine grained sphalerite (stringer-blebs) -From 87.8 to 93m: Minor (1-2%) stringer sulphide mineralization, pyrite and pyrrhotite only	R,M,SI+SE+CL,FV,1-5S,PO
93.00 TO 190.20	<R,LT,BX> Rhyolite lapilli tuff, Locally brecciated	-Fine grained, light to dark grey (black) -Occasional rhyolite lapilli are evident, 1 to 3cm diameter, rounded and stretched along schistosity -Minor amounts of fine qtz phenocrysts present -Rare mafic clast, <1cm diameter		-Moderate chlorite (fracture controlled) and sericite (pervassive) alteration -Rhyolite lapilli are light grey coloured, sericite and silica altered	-From 93 to 96.4m: Stringer sulphide mineralization, mainly pyrite (1-5%). Very fine sphalerite stringers (dusting) trace to 1% -From 106.5 to 111m: Minor sphalerite staining and fracture controlled	R,BX,SI+SE+CL,FV,1-5S,QV

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-Fractured and veined: Minor qtz-calcite veining, rare chlorite veinlet, and fracture controlled pyrite mineralization -Weak schistosity at 60 to 70° TCA -From 124 to 190.2m: Lapillistone to brecciated rhyolite. Fine grained, light to dark grey, stringer sulphide mineralization -From 169.5 to 169.9m: Weak shear at 50° TCA -From 169.9 to 190.2m: Weak to moderate schistosity at 30 to 50° TCA		-From 186.3 to 186.4m: Minor localized fuchsite (fracture filling) -From 186.3 to 190.2m: increasingly siliceous towards lower contact	pryrite (1-5%) -From 123 to 127.9m: 5% stringer pyrite -From 127.9 to 145m: Minor 1-3% pyrite, replacing primary fragments -From 145 to 146m: 1% fine sphalerite stringers (dusting), 5% pyrite -From 146 to 153m: Minor stringer and fragment replacing pyrite (<5%) -From 153 to 158.6m: Trace stringer cpy and sph -From 168 to 180m: Trace to strong sphalerite staining and very fine stringers (dusting), trace chalcopyrite, 1-5% pyrite	
190.20 TO 223.50	«R,M» Massive rhyolite	-Very fine grained, dark grey -Massive -Fractured and veined: abundant fine fractures and thin qtz-calcite veinlets -Weak to moderate schistosity at 60° TCA -Trace disseminated pyrite evident -From 212.6 to 223.5m: light grey coloured, fine grained, sericitic rhyolite -Fine qtz phenocrysts present <1% -Lower contact is gradational, poorly defined. Minor rhyolite lapilli are evident down hole		-From 190.2 to 212.6m: Strong silicification, weak to moderate chlorite alteration (dark grey coloured) -From 212.6 to 223.5: Moderate sericite and chlorite alteration	-Trace disseminated pyrite	R,M,SI+SE+CL,FV,TP,0
223.50 TO 252.90	«R,LT» Rhyolite lapilli tuff	-Fine grained, light to medium grey coloured -Occasional silicified and sericitized lapilli: 0.2 to 3.0cm diameter, rounded and stretched -Matrix is tuffaceous, chloritic, with minor amounts of fine quartz phenocrysts -Fractured and veined: Very thin fractures and qtz-calcite veinlets		-Chloritic and sericitic tuffaceous matrix -Lapilli are strongly siliceous and sericitic	-nil	R,LT,CL+SE,FV,0,0

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-Weak schistosity at 70° TCA				
		-From 250.8 to 252.6m: Strongly silicified (bleached) and fractured towards lower contact with ultramafics		-From 250.8 to 252.6m: Lower contact is strongly silicified (bleached)		
		-Lower contact is gradational from 252.6 to 252.9m				
252.90 TO 266.40	<MTC,R> Mixed talc carbonate, interbedded with rhyolite	-╢252.9-255.8╟<TC>: Fine grained, black coloured talc-carbonate. -Network textured -Soft		-Talc-Carbonate alteration	-nil	MTC,NT,T+CA,FV,0,IL
		-╢255.8-256.5╟<R,M>: Massive rhyolite, very fine grained, strong silica and sericite alteration -Upper and lower contact are sharp at 45° TCA		-Strong silica and sericite alteration, pervassive		
		-╢256.5-257.7╟<TC>: Talc-Carbonate		-Talc-carbonate alteration		
		-╢257.7-260.9╟<R,M>: Massive rhyolite, strong silica and sericite alteration, locally banded alteration: dark and light grey-green (sericite and chlorite) bands		-Strong silica and sericite alt., weakly chloritic		
		-╢260.9-266.4╟<TC>: talc-carbonate -Lower contact with mafic intrusive is poorly defined, gradational, at 266.4m		-Talc-carbonate alt		
266.40 TO 267.00	<A/D1> Andesite diorite	-Very fine grained, dark grey coloured -Minor amounts of very fine buff coloured leucoxenes		-Pervassive chlorite alteration	-nil	A/D1,M,CL,FV,0,LXP
		-Fractured and veined: minor thin qtz-calcite veinlets evidant				
		-Lower contact near 267m is absent due to 20cm of grinded rock. Does not appear to be fault related				
267.00 TO 290.50	<R,T> Tuffaceous rhyolite	-Fine grained, light to dark grey-green coloured -Minor amound of fine qtz phenocrysts -Rare silica fragments, strongly silicified rhyolite lapilli, 0.2 to 1.0cm diameter, subrounded -Rare fine bleached fragments, mafic, <1cm diameter		-Pervassive sericite and weak silica alteration -Fracture controlled (filling) sericite and minor chlorite alt.		R,LT,SI+SE+CL,WS,0,MF

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-Fractured and veined: minor amounts of thin qtz-cacite veinlets, fracture filling sericite alt. -Weak schistosity at 80° TCA -From 278.6 to 280m: locally broken core, very weak shear zone, no gouge -From 283.5 to 285.3m: Rhyolite lapillistone, abundant silicified (silica) lapilli -285.3-288.1<A/D1>: Mafic intrusive, minor pink leucoxenes, upper and lower contacts at 20-30° TCA with chilled margin, Fractured and veined (networked textured), soft -From 288.1 to 290.5m: Tuffaceous rhyolite, fine grained, minor qtz phenocrysts, silica and sericite alteration, weak schistosity at 70° TCA -Lower contact is sharp at 290.5m at 45° TCA		-Talc-carbonate, weak chlorite alteration		
290.50 TO 294.80	<A/D1> Andesite diorite	-Fine grained, dark grey-green coloured mafic intrusive -Massive -Soft -Minor fine pink leucoxenes evident -Fractured and veined: minor thin qtz-calcite veinlets -Lower contact is sharp along talc-carbonate vein at 20° TCA		-Minor chlorite alteration -Minor carbonate veinlets	-nil	A/D1,M,CL,FV,0,LXP
294.80 TO 303.00	<TC> Talc carbonate	-Fine grained, dark grey to black coloured -soft -Network textured: abundant talc-carbonate veining -From 296.8 to 297.3m: Broken core, minor shear with slickenside lineations at 40° TCA		-Talc-carbonate alteration	-Trace disseminated pyrite	TC,NT,T+CA,FV,TP,NM
303.00 TO 303.00	<E.O.H>					

HOLE NUMBER : 7541 ASSAYS SHEET DATE: 29/05/1998

Sample	From (M)	To (M)	Leng. (M)	Ag g/T	Cu %	Zn %	Pb %	Ni ppm	S %	Se ppm	S.G.	Rock Type	MIN	ALT	Au ppb
KA02528	19.50	21.00	1.50	14.8	76	3860	2390	7							7
KA02529	21.00	22.50	1.50	214.3	78	14900	7240	15							24
KA02530	22.50	24.00	1.50	28.7	132	23900	404	7							<2
KA02531	24.00	25.50	1.50	46.5	413	47600	220	15							<2
KA02532	25.50	27.00	1.50	9.7	73	22900	225	8							<2
KA02533	27.00	28.50	1.50	12.5	74	9980	295	14							<2
KA02534	28.50	30.00	1.50	23.5	37	6260	950	7							<2
KA02535	30.00	31.50	1.50	4.7	8	2710	648	8							<2
KA02536	31.50	33.00	1.50	5.9	45	1790	777	8							<2
KA02537	33.00	34.50	1.50	75.0	979	84200	1130	12							10
KA02538	34.50	36.00	1.50	74.9	54	15400	325	8							<2
KA02539	36.00	37.50	1.50	7.8	21	2220	235	12							<2
KA02540	37.50	39.00	1.50	11.2	142	9460	54	7							<2
KA02541	39.00	40.50	1.50	11.8	86	20000	197	14							7
KA02542	40.50	42.00	1.50	41.7	79	16400	378	7							75
KA02543	42.00	43.50	1.50	3.7	10	86	16	23							<2
KA02544	93.00	94.50	1.50	26.5	13	4660	1970	7							41
KA02545	94.50	96.00	1.50	34.1	17	5920	2340	9							48
KA02546	106.50	108.00	1.50	2.5	32	912	81	8							7
KA02547	108.00	109.50	1.50	1.4	27	136	22	7							17
KA02548	109.50	111.00	1.50	3.7	25	1910	23	7							21
KA02549	145.00	146.00	1.00	4.1	114	8160	1610	9							10
KA02550	153.00	154.50	1.50	7.9	2580	2140	7	6							<2
KA02601	154.50	156.00	1.50	2.2	889	720	6	9							<2
KA02602	156.00	157.50	1.50	5.4	2230	2650	6	5							<2
KA02603	157.50	159.00	1.50	3.8	1090	1540	13	7							7
KA02604	159.00	160.50	1.50	1.9	163	13400	119	5							<2
KA02606	162.00	163.50	1.50	6.1	102	6620	161	5							<2
KA02607	163.50	165.00	1.50	6.2	27	4290	71	7							<2
KA02608	165.00	166.50	1.50	44.7	48	8620	1170	6							3
KA02609	166.50	168.00	1.50	46.6	250	15100	834	8							<2
KA02605	168.00	169.50	1.50	1.6	27	2710	219	8							<2
KA02606	169.50	171.00	1.50												
KA02607	171.00	172.50	1.50												
KA02608	172.50	174.00	1.50												
KA02609	174.00	175.50	1.50												
KA02610	175.50	177.00	1.50	16.1	168	9460	209	5							<2
KA02611	177.00	178.50	1.50	29.5	419	41000	375	10							<2
KA02612	178.50	180.00	1.50	9.2	91	5720	230	12							<2

38-548R-

HOLE NUMBER: 7542

FALCONBRIDGE LIMITED
DRILL HOLE RECORD

DATE: 01/30/1998
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: 2MINE EXPLORATION
PROJECT NUMBER: #2Mine
CLAIM NUMBER: LMA75-#2276
LOCATION: 38L Expl. Drift

PLOTTING COORDS GRID: Mine Grid
NORTH: 65543.70N
EAST: 65828.00E
ELEV: 2166.00
} Est.

ALTERNATE COORDS GRID: UTM
NORTH: 5393061 mN
EAST: 473165 mE
ELEV:

COLLAR DIP: -30° 0' 0"
LENGTH OF THE HOLE: 360.00M
START DEPTH: 0.00M
FINAL DEPTH: 360.00M

COLLAR ASTRONOMIC AZIMUTH: 38° 0' 0"
GRID ASTRONOMIC AZIMUTH: 0° 0' 0"

DATE STARTED: 01/15/1998
DATE COMPLETED: 01/26/1998
DATE LOGGED: 01/30/1998

COLLAR SURVEY: YES
MULTISHOT SURVEY: YES
RQD LOG: YES

PULSE EM SURVEY: NO
PLUGGED: YES
HOLE SIZE: BQ

CONTRACTOR: Morissette
CASING:
CORE STORAGE: mine site
UTM COORD.:

COMMENTS :
WEDGES AT:

DIRECTIONAL DATA:

Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
15.00	42° 0' 0"	-29° 0' 0"	S	OK		-	-	-	-	-	
30.00	43° 0' 0"	-26° 0' 0"	S	OK		-	-	-	-	-	
60.00	44° 0' 0"	-24° 0' 0"	S	OK		-	-	-	-	-	
120.00	42° 0' 0"	-21° 0' 0"	S	OK		-	-	-	-	-	
180.00	42° 0' 0"	-17° 0' 0"	S	OK		-	-	-	-	-	
300.00	40° 0' 0"	-13° 0' 0"	S	OK		-	-	-	-	-	
360.00	40° 0' 0"	-11° 0' 0"	S	OK		-	-	-	-	-	
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Pascal Prince

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 41.80	«R,BX,FV» Fractured and veined Brecciated rhyolite	-Fine grained, light to medium grey coloured -Locally massive -Minor amounts of fine qtz phenocrysts -Fractured and veined: qtz-calcite veinlets present throughout -Stringer pyrite mineralization, up to 5% -Locally traces of sphalerite staining -From 1 to 1.5m: broken core, poor RQDs -Weak schistosity at 20-30° TCA throughout -[24.8-25.2]«FAI»: Weak fault at 5° TCA with minor gouge and slickenside lineations at 50° TCA -Lower contact is gradational at 41.8m, where down hole rhyolite is massive, strongly silicified and dark grey coloured		-Moderate pervasive sericite and weak fracture controlled chlorite alteration -Qtz-calcite veining present throughout	-Minor fracture controlled pyrite (1-5%) and localized traces of sphalerite staining	R,BX,CL+SE,FV,1-5S,QV
41.80 TO 113.50	«R,M,FV» Fractured and veined massive rhyolite	-Very fine grained, dark grey coloured -Minor amounts of qtz and feldspar phenocrysts throughout -Locally brecciated -Fractured and veined: Abundant micro-fractures, qtz-calcite veining is present -From 50 to 65m: interval rich in fine (1-3mm) feldspar phenocrysts (1%) -From 65.4 to 65.8m: Joint at 5° TCA -From 78.2 to 78.6m: Broken core, jointing at 20° TCA, minor fault. -From 80 to 113.5m: Weak schistosity at 40° TCA -From 105.9 to 113.5m: Brecciated rhyolite -[105.9-107]«R,BX»: breccia, dark grey coloured, silicified and weakly graphitic, angular fragments of rhyolite within silicified matrix. Minor feldspar phenocrysts in fragments -From 113.2 to 113.5m: Broken core, weak fault. Down hole of fault, minor mafic fragments and silicified lapilli are evident. Rhyolite fragmental		-Intense silicification -Minor fracture controlled sericite alteration -From 90m on: fracture controlled sericite increases (moderate), pervasive silicification is still strong -Qtz-calcite veinlets present throughout	-Trace fracture controlled pyrite	R,M,SI,FV,TP,QV

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
113.50 TO 130.20	«R,LT» Rhyolite lapilli tuff	-Fine grained, light to dark grey coloured -Mixed fragmental: mainly rhyolite lapilli, silicified, 0.1 to 5.0cm diameter, rounderd, stretched. Minor mafic clasts, subangular, 0.1 to 2.0cm diameter, bleached. -Matrix is chloritic and sericitic -Minor qtz phenocrysts evident -Fractured and veined: minor qtz-carbonate veining -Weak schistosity at 45° TCA throughout -Joint at 127.2m at 20° TCA -Lower contact is sharp at 40° TCA at 130.2m		-Fracture controlled and interstitial chlorite and minor sericite alteration -Moderate pervasive silicification	-Trace disseminated pyrite	R,LT,SI+SE+CL,WS,TP,MF
130.20 TO 138.00	«R,L» Rhyolite lapilli stone	-Light grey coloured rhyolite lapilli, with dark grey coloured matrix (chlorite) -Densely packed rounded and streched lapilli, lapillistone to brecciated texture -Minor qtz phenocrysts present -Weak schistosity at 45° TCA -Minor qtz-calcite veinlets -Lower contact is sharp at 30° TCA		-Chlorite-sericite alteration of matrix -Weak pervasive silicification		R,L,SE+CL,WS,TP,QV
138.00 TO 156.00	«R,LT» Rhyolite lapilli tuff	-Fine grained (matrix), dark grey coloured -Abundant matrix supported rhyolite lapilli, silicified, subrounded, 0.1 to 3.0cm diameter, stratched -Matrix is chloritic -Minor qtz phenocrysts are evident throughout -Fractured and veined: Minor qtz-calcite veinlets -Weakly schistose at 45° TCA throughout -Lower contact is gradational at 156m		-Chlorite altered matrix -Lapilli are strongly silicified		R,LT,CL,WS,0,QV
156.00 TO 232.10	«R,BX,FV» Fractured and veined brecciated rhyolite	-Fine grained, dark grey to black coloured -Fractured and veined: minor qtz-carbonate veining, fracture controlled chlorite and carbon alteration (responsible for breccia-looking texture of rhyolite)		-Moderately silicified with strong fracture controlled chlorite and carbonaceous alteration, giving dark grey colour to rhyolite -From 184m on: carbonaceous alteration decreases, and silicification	-Trace to 2% disseminated pyrite	R,BX,SI+CL,SS,DP,QV

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-From 156 to 208m: Moderate to strong schistosity at 30-40° TCA -Locally sheared -«161-161.3»: small shear, broken core along foliation, 30° TCA -«162.9-166.5»: strong schistosity, broken core along schistosity, chloritic slips. Minor shear zone -«181.2-182.9»: Fault zone at 40° TCA, broken core -Joint at 20° at 213.6 and 216.3m -Lower contact is mildly sheared at 232.1 @ 30° TCA		increases -Qtz-carbonate veining		
232.10 TO 278.20	«A/D1,M» Massive Andesite diorite type 1	-Very fine grained intrusion, dark green coloured -Minor fine grained buff coloured leucoxenes present throughout -Trace disseminated pyrite -Fracture and veined: qtz-calcite veining, fracture filling chlorite and minor sericite -From 259.2 to 259.7m: qtz-calcite vein at 20° TCA -Lower contact is sharp at 30° TCA		-Pervasive chlorite and locally calcite altered -Fracture filling calcite, minor chlorite and sericite	-Trace amounts of disseminated pyrite	A/D1,M,CC,FV,TP,LXW
278.20 TO 358.10	«R,M,FV» Fractured and veined massive rhyolite	-Fine grained, dark grey-green to light yellowish-green coloured -Massive with feint fragment-like textures, due to alteration -Minor qtz phenocrysts present throughout, locally up to 1%. From 278.2 to 295m, qtz crystals (phenocrysts) are rimed with silica -Fractured and veined: Minor qtz veining, localized sericite fracture filling -Moderate schistosity at 40-60° TCA throughout -Joint at 5° TCA at 312.1m -From 317.7 to 318.3m: Minor shear, core broken along schistosity -From 335 to 338.8m: weak schistosity at 70° TCA -From 338.8 to 358.1m: Interlayered talc carbonate and strongly sericitized and silicified rhyolite		-Moderate fracture controlled (schistosity controlled) sericite, milky white silica, and minor chlorite -From 312.3 to 317.7m: light yellow coloured, strong sericite and silica alteration -From 325.1 to 338.8m: strong silica alteration		R,M,SI+SE,MS,0,QV

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-338.8-339.5 «TC» -345.7-345.9 «TC» -346.2-348.4 «TC»				
		-From 348.4 to 358.1m: strongly altered rhyolite to sericite and silica, abundant fine qtz veins, qtz phyric, "dirty-yellow" coloured -Lower contact is sharp and undulated, at 70° TCA		-348.4 to 358.1m: Strong sericite and silica alteration, abundant qtz veins		
358.10 TO 360.00	«TC» Talc carbonate	-Fine grained, dark grey coloured -Soft -Network textured: talc-carbonate veinlets -Fractured and veined		-Mildly silicified near upper contact -Talc-carbonate alteration		TC,NT,T+CA,FV,0,0
360.00 TO 360.00	«E.O.H»					

38-548R-

HOLE NUMBER: 7543 — 7543

FALCONBRIDGE LIMITED
DRILL HOLE RECORD

DATE: 04/15/1998
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: 2MINE — EXPLORATION
PROJECT NUMBER: #2Mine
CLAIM NUMBER: LAG75-#1376
LOCATION: 38L Empl. Drift

PLOTTING COORDS GRID: Mine Grid
NORTH: 65542.10M
EAST: 65828.90E
ELEV: 3165.13

SURV.

ALTERNATE COORDS GRID: UTM
NORTH: 5393059mN
EAST: 473166mE
ELEV:

COLLAR DIP: -30° 0' 0°
LENGTH OF THE HOLE: 297.00M
START DEPTH: 0.00M
FINAL DEPTH: 297.00M

COLLAR ASTRONOMIC AZIMUTH: 57° 0' 0°

GRID ASTRONOMIC AZIMUTH: 0° 0' 0°

DATE STARTED: 01/08/1998
DATE COMPLETED: 01/15/1998
DATE LOGGED: 01/20/1998

COLLAR SURVEY: YES
MULTISHOT SURVEY: YES
BQO LOG: YES

PULSE EM SURVEY: NO
PLUNGED: YES
HOLE SIZE: BQ

CONTRACTOR: Norissette
CASING:
CORE STORAGE: Minesite
UTM COORD.:

COMMENTS :
WEDGES AT:

DIRECTIONAL DATA:

Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
15.00	60° 0' 0°	-28° 0' 0°	S	OK	
30.00	60° 0' 0°	-25° 0' 0°	S	OK	
60.00	62° 0' 0°	-25° 0' 0°	S	OK	
120.00	65° 0' 0°	-26° 0' 0°	S	OK	
180.00	64° 0' 0°	-25° 0' 0°	S	OK	
240.00	61° 0' 0°	-23° 0' 0°	S	OK	
297.00	66° 0' 0°	-20° 0' 0°	S	OK	

Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	

HOLE NUMBER: 7543 — DRILL HOLE RECORD — LOGGED BY: Dean Rogers — PAGE: 1

Dean Rogers

42A11NW2007 2.18532 KIDD 050

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 25.90	«R,lst,bx,ss» Rhyolite, lapilli-stone, brecciated, stringer sulphides	-strongly broken core over upper 2m near collar -dark green, mod. fol'd at 50-60° to CA -'psuedo-fragmental' textures defined by patchy silicification and chlorite fracture pattern -no discernable 'primary' clasts -silicified 'clasts' have vague/ghosty outlines -rare 1mm subequant black qtz phenocrysts -weak Cpy stringers with within interior of unit grading into a pinkish Sph stringer zone with strong tourmaline association towards base of unit -strong Po association with Cpy stringers ╢25.3-25.9╟«┤FAI├» -strong qtz/carb veining within zone of bracciated rhyolite		-mod pervasive silicification with weak anastomosing chloritic/gray sericite fracturing	-tr.-1% Cpy with tr. Po to 15.5m ╢15.5-16.5m╟«CpyF7%,PoF3%,PyDtr.» -short Cpy stringer zone ╢16.5-25.3╟«SphF3-5%,PyF1-5%,CpyFtr.,Po tr» -Sph stringer zone to end of unit contains very pale to pinkish Sph with 1-2% tourmaline blades/lathes	R,LST,SE+SI,MS,SS,SLSU
25.90 TO 261.50	«R,m,pqa,si» Rhyolite, massive, quartz/albite porphyritic silicified	-sharp upholo contact but at qtz/carb veining at fault? -watery gray within upper 20m of unit but changes abruptly to dark gray/black below 25m -vitric, extremely glassy massive rhyolite flow highlighted by later silicification -2% subequant qtz phenocrysts throughout with 1-2mm clotty/hazy feldspar porphyroblasts scattered erratically throughoout -flow breccia textures (in-situ bx'n) visible locally as finer hyaloclastitic breccias (ie. @ 99-100m -possible flow-banding visible in zones of more white/cherty silicification -albite porphyroblasts disappear below ≈100m but qtz phenocrysts still abundant -broken core form 61.5-61.8m (mechanical, not likely due to faulting) -strong fol'n at 10-30° to CA developed from ≈110-116m -RQD's decrease dramatically below 150m, likely related to faults between 190-210m -qtz eyes become less evident below 140m where silicification becomes more patchy and milky white in colour ╢193.5-195.0╟«┤FAI├»		-strong pervasive silicification throughout unit -weak to mod. fracture controlled qtz/carbonate±calcite -possible weak chloritization suggested by black colour? -strong pervasive chloritization from 129-140m -silicification becomes slightly more patchy and milky white and less pervasive below 140m -strong pervasive chlorite below fault zones from ≈210-246m	-tr.-1% diss. Py±Po	R,MPQA,SI+CL,WS,DP,0

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		‡206.0-209.0‡«‡FAI‡» -strong qtz/carb veining within zones of strongly broken core -strong fol'n developed at 20-30° below fault zones to ≈246m -strong chloritization within this fol'd zone				
261.50 TO 270.30	«MRF,lt» Mixed Rhyolite Fragmental, lapilli-tuf f	-somewhat gradational/arbitrary uphole contact based on first appearance of distinct mafic fragment outlines -dark green to black, mod. fol'n at 20° to CA -strong patchy alteration (sil±chl±seg) and poor CA angles masking most primary features however distinct mafic and felsic fragments are discerable throughout unit -buff/tan mafic clasts are angular and <1cm in diameter, rhyolite clasts are more rounded and cherty but of similar size -matrix supported overall but some zones of clast-supported fragmental are present -2 large angular clasts (4-6cm) containing semi-massive, disseminated Py mineralization with interstitial Sph at 265.5m (possibly sheared up vein mineralization?)		-strong patchy, milky white silicification with mod fracture controlled to patchy chlorite/sericite -mineralization may possibly be fracture controlled but some Py grains appear truncated at margins with more massive rhyolite	-low overall but Py/Sph mineralized fragments at 276.5m -30% euhedral Py cubes 1-2mm in diameter with 2-3% Sph interstially within clasts	MRF,LT,SI+SE+CL,MS,F1-5S,SLSU
270.30 TO 294.80	«R,bx,f» Rhyolite Breccia, fragmental	-gradational/indistinct uphole contact placed at begining of strong qtz veining -primary 'fragmental' rhyolite breccia, likely a basal braccia below overlying massive rhyolite -unit consists large (up to 30-40cm) subrounded to angular blocks of strongly silicified and sericitized qtz-porphyritic rhyolite -largely clast supported, minor fine-grained, chloritized/sericitized ash material interstial to rhyolite blocks -1-2% equant, 1mm qtz-eyes within rhyolite blocks -strong milky white qtz±calcite veined -excellent flow-banding visible within some rhyolite blocks (ie. at 282.7m) -some speckled calcite/carbonate alteration possibly filling amygdules -negligable sulphides		-strong but variable alteration throughout unit -rhyolite blocks exhibit strong patchy to pervasive silicification and/or sericitization -minor matrix material is weakly to moderately chloritized (gray sericite?) -unit is overprinted by later milky white fracture controlled silicification ±minor calcite/carbonate -some calcite possibly filling amygdules	-tr. diss. Py	R,BX,SI+SE+CL,MS,DP,0

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
294.80 TO 297.00	«TC,nt» Talc-Carb Rock, net-textured	-extremely sharp but irregular uphole contact accentuated by milky silicification within rhyolite breccia above -some small (2-3cm) clasts of milky rhyolite within upper 10cm of talc -fairly massive ultramafic unit, relatively soft but non-magnetic -weak net-texture defined by spider-web carbonate fracturing -negligable talcose alteration weakly biotitic near uphole contact		-weak net-textured carbonate veining -weakly biotitic near uphole contact	-nil	TC,NT,T+CA,WS,0,0
297.00 TO 297.00	«E.O.H.»					

Sample	From (M)	To (M)	Leng. (M)	Ag g/T	Cu %	Zn %	Pb %	Ni ppm	S %	Se ppm	S.G.	Rock Type	MIN	ALT	Au ppb
KA01090	15.00	16.50	1.50	95.9	27700	15000	33	7							29
KA01091	16.50	18.00	1.50	4.6	286	15600	32	9							7
KA01092	18.00	19.50	1.50	1.9	126	6280	26	6							<2
KA01093	19.50	21.00	1.50	1.6	58	3710	47	8							3
KA01094	21.00	22.50	1.50	3.0	73	3560	199	4							<2
KA01095	22.50	24.00	1.50	3.5	134	12000	88	12							<2
KA01096	24.00	25.30	1.30	2.1	104	9880	60	6							7
KA00915	265.20	265.60	0.40	0.3	42	208	17	8							<2

Sample	From (M)	To (M)	Leng. (M)	SiO2 %	Al2O3 %	CaO %	MgO %	Na2O %	K2O %	Fe2O3 %	MnO %	TiO2 %	P2O5 %	Cr2O3 %	LOI %	SUM %	Rb %	Sr ppm	Y ppm	Zr ppm	Nb ppm	Ba ppm	F ppm	Cu ppm	Zn ppm	Ni ppm	Co ppm	HASH	ALUM
KA01097	27.00	57.00	30.00	80.64	10.43	0.73	0.15	2.06	2.20	1.16	0.02	0.08	0.02	0.03	1.43		<0.01		65	160	<10	380	500	20	35	25	<5		
KA01098	60.00	90.00	30.00	79.32	10.92	0.83	0.07	4.64	1.13	0.92	0.02	0.09	0.01	0.04	1.07		<0.01		75	160	<10	350	100	10	30	14	<5		
KA01099	93.00	123.00	30.00	77.18	11.58	1.23	0.88	1.92	2.40	1.76	0.02	0.09	0.01	0.03	2.29		<0.01		95	190	<10	290	300	15	75	16	<5		
KA01100	126.00	156.00	30.00	69.90	14.39	0.99	2.39	1.89	2.56	3.76	0.02	0.12	0.01	0.02	3.04		<0.01		105	270	10	280	1000	30	155	4	<5		
KA00912	159.00	189.00	30.00	83.17	8.62	0.71	0.11	2.92	1.10	1.04	0.03	0.07	<0.01	0.08	1.10		<0.01		60	150	10	200	100	10	30	14	5		
KA00913	231.00	246.00	15.00	74.34	12.61	1.38	1.30	0.10	4.12	2.11	0.02	0.10	<0.01	0.03	3.20		0.01		95	230	20	480	1000	55	145	5	<5		
KA00914	246.00	261.00	15.00	80.35	9.24	1.37	0.58	2.64	1.57	1.33	0.03	0.07	<0.01	0.06	1.80		0.01		55	170	20	150	400	20	55	6	<5		
KA00916	273.00	294.00	21.00	76.54	10.23	2.29	1.03	0.57	3.25	1.84	0.04	0.08	0.01	0.05	3.00		0.01		85	180	20	290	400	40	95	14	5		
KA00917	295.00	297.00	2.00	43.96	5.16	6.45	23.50	0.01	0.01	8.50	0.13	0.21	0.02	0.29	11.00		0.01		5	10	<10	<10	500	45	45	1284	85		

Sample	From (M)	To (M)	Leng. (M)	SEVERN ROCK TYPE	ALT	MIN
KA01097	27.00	57.00	30.00	Rmpqa		
KA01098	60.00	90.00	30.00	Rmpqa		
KA01099	93.00	123.00	30.00	Rmpqa		
KA01100	126.00	156.00	30.00	Rmpqa		
KA00912	159.00	189.00	30.00	Rmpqa		
KA00913	231.00	246.00	15.00	Rmpq		
KA00914	246.00	261.00	15.00	Rmpq		
KA00916	273.00	294.00	21.00	Rbx		
KA00917	295.00	297.00	2.00	TC		

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W9860.00564
Assessment Files Research Imaging

42A11NW2007 2.18532 KIDD 900

subsection 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, ssesment work and correspond with the mining land holder. Questions about this orthern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury,

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary) * See Attached Sheets

Name: Falconbridge Limited (agent)	Client Number: 130679
Address: 571 Moneta Ave	Telephone Number: (705) 267-1188
Timmins ONT P4N 7H9	Fax Number: (705) 264-6080
Name: Explorers Alliance Corp.	Client Number: 303065
Address: Suite 1800, 95 WELLINGTON ST WEST	Telephone Number: (416) 360-5333
Toronto, ONT M5J 2N7	Fax Number: (416) 360-4419

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) | Physical: drilling stripping, trenching and associated assays | Rehabilitation

Work Type: Diamond Drilling

Office Use	
Commodity	
Total $ Value of Work Claimed	$ 121,440
NTS Reference	
Mining Division	Porcupine
Resident Geologist District	Timmins

Dates Work Performed: From Day 06 Month 12 Year 1997 To Day 26 Month 01 Year 1998

Global Positioning System Data (if available): Township/Area: Kidd Twp. M or G-Plan Number: G-3951

RECEIVED JUN 03 1998 10:20 GEOSCIENCE ASSESSMENT OFFICE

Please remember to:
- obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

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

Name: Greg Collins (agent)	Telephone Number: (705) 267-1188
Address: 571 Moneta Ave, Timmins ON	Fax Number: (705) 264-6080
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

RECEIVED JUN 2 1998 2:50 pm PORCUPINE MINING DIVISION

4. Certification by Recorded Holder or Agent

I, Greg Collins (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: Greg		Date: June 1, 1998
Agent's Address: 1 Centre Ave, Timmins	Telephone Number: (705)-264-2369	Fax Number: (705)-264-6080

0241 (03/97)

Deemed Aug. 31/98

Ontario Ministry of Northern Development and Mines

Schedule for Declaration of Assessment Work on Mining Land

Transaction Number (office use): W9860.00564

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
14980 SEC	64 Ha	$103,440	¢	$60,000	$43,440
15114 SEC	64 Ha	$18,000	¢	¢	$18,000
1218744	9		$3,600		
1218745	16		$6,400		
1218746	7		$2,800		
1201321	12		$9,600		
1201322	8		$3,200		
1201323	9		$7,200		
1204771	6		$4,800		
1204772	1		$400		
1204773	4		$3,200		
1204774	15		$12,000		
1204775	2		$800		
1207794	13		$5,200		
1182818	2		$800		
	104	$121,440	$60,000	$60,000	$61,440

Column Totals

RECEIVED
JUN [illegible] 1998
10:30 6B
GEOSCIENCE ASSESSMENT OFFICE

0290 (02/96)

RECEIVED
JUN 2 1998
2:50pm
PORCUPINE MINING DIVISION

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)
W9860.00564

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Underground Diamond Drilling	1,518 meters	$80.00	$121,440.00
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Food and Lodging Costs			
		Total Value of Assessment Work	$121,440.00

RECEIVED
JUN 03 1998
10:20 AM
GEOSCIENCE ASSESSMENT OFFICE

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Greg Collins (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Senior Field Geologist (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature: Greg Collins Date: June 1, 1998

0212 (03/97)

RECEIVED
JUN 2 1998
PORCUPINE MINING DIVISION

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (877) 670-1555

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

September 9, 1998

FALCONBRIDGE LIMITED
SUITE 1200, 95 WELLINGTON STREET WEST
TORONTO, ONTARIO
M5J-2V4

Dear Sir or Madam:

Submission Number: 2.18532

Subject: Transaction Number(s):		**Status**
	W9860.00564	Deemed Approval

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

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

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

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at gatesb2@epo.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 12750

Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.18532

Date Correspondence Sent: September 09, 1998 **Assessor:** Bruce Gates

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9860.00564	14980SEC	KIDD	Deemed Approval	August 31, 1998

Section:
16 Drilling PDRILL

Correspondence to:

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

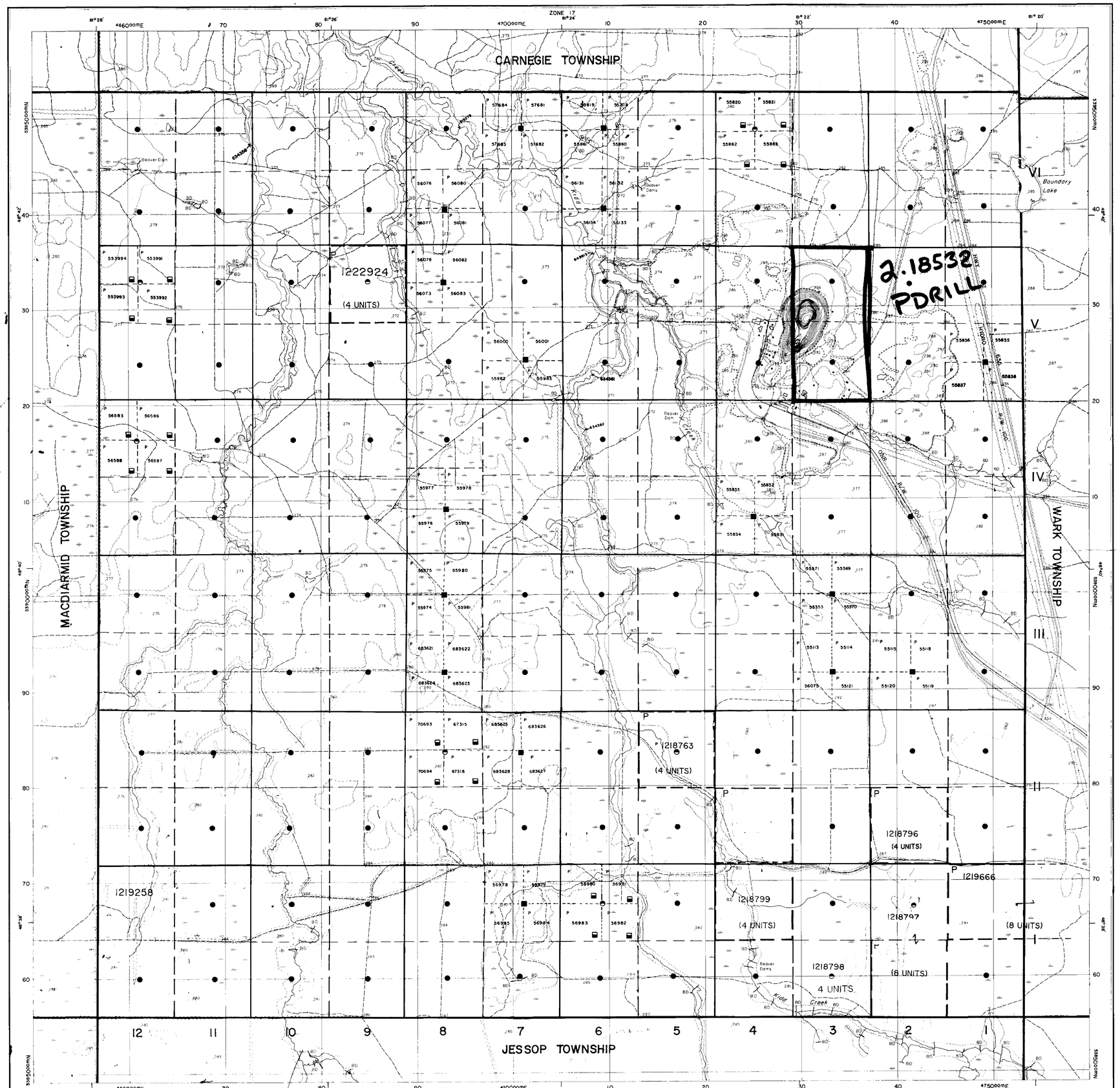
Greg Collins
TIMMINS, ON, CAN

FALCONBRIDGE LIMITED
TORONTO, ONTARIO

EXPLORERS ALLIANCE CORPORATION
TORONTO, ONTARIO

JEAN-CLAUDE BONHOMME
TORONTO, ONTARIO

Correspondence ID: 12750



Ministry of Natural Resources
Ontario

Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN
G-3951

TOWNSHIP
KIDD

DATE OF ISSUE
JUL 0 6 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES/REGISTRY DIVISION
COCHRANE

Scale 1:20 000

1000 Metres 0 1000 2000 Metres

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Feet

Contour Interval 10 Metres

AREAS WITHDRAWN FROM DISPOSITION

MRO - Mining Rights Only
SRO - Surface Rights Only
M + S - Mining and Surface Rights

Description	Order No.	Date	Disposition	File

SYMBOLS

Boundary
- Township, Meridian, Baseline
- Road allowance; surveyed / shoreline
- Lot/Concession; surveyed / unsurveyed
- Parcel; surveyed / unsurveyed
- Right-of-way; road / railway / utility
- Reservation
- Cliff, Pit, Pile
- Contour (20) / Interpolated / Approximate / Depression
- Control point (horizontal)
- Flooded land
- Mine head frame
- Pipeline (above ground)
- Railway; single track / double track / abandoned
- Road; highway, county, township / access / trail, bush
- Shoreline (original)
- Transmission line
- Wooded area

DISPOSITION OF CROWN LANDS

Patent
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only

Lease
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only

- Licence of Occupation
- Order-in-Council (OC)
- Cancelled
- Reservation
- Sand & Gravel

NOTES

THIS TOWNSHIP LIES WITHIN THE MUNCIPALITY OF THE CITY OF TIMMINS.

ACTIVATED MARCH 11, 1993
BY D.C.

Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources.

The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.

42A11NW2007 2.18532 KIDD 200

G-3951
KIDD TWP.
G-3951

65600 E
65700 E
65800 E
65900 E
66000 E
66100 E
473100mE
473300mE
473500mE
473700mE
473900mE
5393300mN
5393100mN
5392900mN
5392700mN
65900 N
65800 N
65700 N
65600 N
65500 N
65400 N
65300 N

7541
473165.24mE , 5393060.87mN
Az. 340° , Dip -5°
303.0m.

7531
473165.24mE , 5393061.57mN
Az. 000° , Dip -5°
273.0m.

7542
473165.24mE , 5393060.87mN
Az. 38° , Dip -30°
360.0m.

7543
473166.14mE , 5393059.27mN
Az. 57° , Dip -30°
297.0m.

7516
473164.34mE , 5393055.47mN
Az. 160° , Dip -5°
285.0m.

3800L Exploration Drift

3800 RAMP ACC.

FL
14980 SEC

FL
15114 SEC

Mine North

Astronomic North

30°

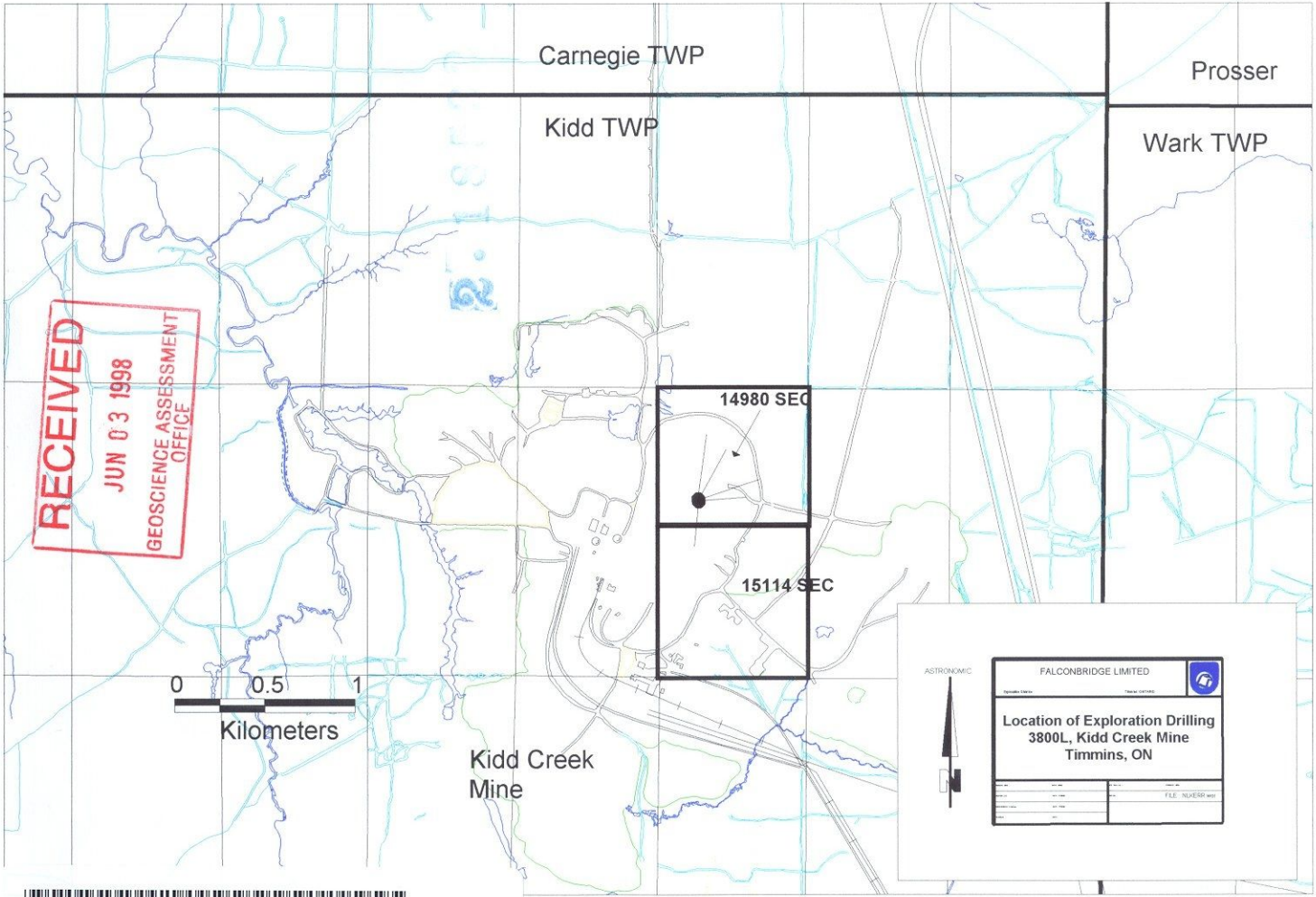
Con. V
Lot 3

FALCONBRIDGE LIMITED
Exploration Division Timmins ONTARIO

3800 LEVEL EXPLORATION DRIFT
KIDD CREEK MINE

DIAMOND DRILL PLAN
7516, 7531, 7541, 7542 & 7543

TRACED: PRODES	DATE: 28/05/98	NTS: 42-A/11	PROJECT: 8034
DRAWN: d e l	DATE: 01/06/98	MAP No.	FILE: 38LEVEL
SUPERVISED: Dean Rogers	DATE: 28/05/98	SCALE 1:1 000 (metres)	0 5 10 15 20
REVISED: J G Collins	DATE: 01/06/98		



GEOLOGICAL CODES

1

LITHOLOGY

CODE	DESIGNATION
UR	UNDIFFERENTIATED RHYOLITE
R	RHYOLITE
QP	QUARTZ PORPHYRY
CB	CHERTY BRECCIA
D	"DACITE"
A-D	ANDESITE/DACITE
A/D	"ANDESITE/DIORITE" UNDIFFERENTIATED TYPE 1 OR 2
A/D3	"ANDESITE/DIORITE" TYPE 3
G	GREYWACKE
BA	BLACK ARGILLITE
BC	BLACK CHERT
S	SERPENTINITE
TC	TALC-CARBONATE OR CARBONATE ROCK
QFP	QUARTZ FELDSPAR PORPHYRY
A/D1	"ANDESITE/DIORITE" TYPE 1
A/D2	"ANDESITE/DIORITE" TYPE 2
PCR	PYRITE-CARBONATE ROCK
AM	AMPHIBOLITE
QV	QUARTZ VEIN
MV	MAFIC VOLCANICLASTIC
MRF	MIXED RHYOLITE FRAGMENTAL
MMF	MIXED MAFIC FRAGMENTAL
PK	PYROXENITIC KOMATIITE (EXTRUSIVE-SPINIFEX TEXTURED)
BK	BASALTIC KOMATIITE (EXTRUSIVE-MICROQUENCH TEXTURED)
A/D4	ALTERED (I.E. CARBONATED) "ANDESITE-DIORITE" TYPE 4
MGT	MAGNESIUM THOLEIITE
MUR	MIXED UNDIFFERENTIATED RHYOLITE
MR	MIXED RHYOLITE
MQP	MIXED QUARTZ PORPHYRY
MCB	MIXED CHERTY BRECCIA
MD	MIXED "DACITE"
MA-D	MIXED ANDESITE/DACITE
MA/D	MIXED "ANDESITE/DIORITE" UNDIFFERENTIATED TYP 1 OR 2
MA/D3	MIXED "ANDESITE/DIORITE" TYPE 3
MG	MIXED GREYWACKE
MBA	MIXED BLACK ARGILLITE
MBC	MIXED BLACK CHERT
MS	MIXED SERPENTINITE
MTC	MIXED TALC-CARBONATE OR CARBONATE ROCK
MQFP	MIXED QUARTZ FELDSPAR PORPHYRY
MA/D1	MIXED "ANDESITE/DIORITE" TYPE 1
MA/D2	MIXED "ANDESITE/DIORITE" TYPE 2
MPCR	MIXED PYRITE-CARBONATE ROCK
MAM	MIXED AMPHIBOLITE

2

TEXTURE

CODE	DESIGNATION
M	MASSIVE
PR	PSEUDOMASSIVE RHYOLITE
P	PILLOWED
F	UNDIFFERENTIATED FRAGMENTAL
FA	UNDIFFERENTIATED AGGLOMERATE PLUS LAPILLI
T	TUFF
L	LAPILLISTONE
AL	AGGLOMERATIC LAPILLISTONE
BX	BRECCIATED
FB	FLOW BANDED
B	BEDDED
SX	SPINIFEX TEXTURE
C	CONGLOMERATIC OR CONGLOMERATE
BP	BRECCIATED PILLOWS
SM	SPOTTED TO MEALY
A	AGGLOMERATE
S	SPHERULITIC
AF	ALBITE FLOWERS
TW	TUFFWACKE
MPQ	MASSIVE-PORPHYRITIC QUARTZ "EYES"
FT	FLOW TEXTURED (I.E. CRACKLE-BRECCIATION,CURDY,ETC.)
MFT	MASSIVE - FLOW-TEXTURED
MFB	MASSIVE - FLOW-BANDED (FINE HAIRLINE)
MS	MASSIVE - SPHERULITIC
MAF	MASSIVE - ALBITE FLOWERS
MPQA	MASSIVE - PORPHYRITIC QUARTZ EYES + ALBITES
MPA	MASSIVE - PORPHYRITIC ALBITE
TPQ	TUFF - PORPHYRITIC QUARTZ EYES
TPA	TUFF - PORPHYRITIC ALBITE
TPQA	TUFF - PORPHYRITIC QUARTZ EYES + ALBITE
LT	LAPILLI TUFF
ALT	AGGLOMERATIC LAPILLI TUFF
QT	QUENCH-TEXTURED
NT	NETWORK TEXTURE (IN ULTRAMAFICS)
FBX	FLOW BRECCIA

3

ALTERATION

CODE	DESIGNATION
SE	YELLOW-GREEN SERICITE
SEG	MEDIUM-GREEN SERICITE
CL	CHLORITIC
B	BIOTITIC
RD	UNDIFFERENTIATED "RHYODACITIC" ALTERATION
G+A	GRAPHITIC AND ARGILLACEOUS (CHLORITIC)
CC	CALCITIC
SI	SILICEOUS ("CHERTY")
CA+SI	CARBONATED AND SILICEOUS
CA+CL	CARBONATED AND CHLORITIC
SI+CL	SILICEOUS AND CHLORITIC
CA+SE	CARBONATED AND SERICITIC
CL+SE	CHLORITIC AND SERICITIC
SI+G	SILICEOUS AND GRAPHITIC
SI+SE	SILICEOUS AND SERICITIC
CL+A	CHLORITIC AND ARGILLACEOUS
G	GRAPHITIC
CA	CARBONATE-RICH (NOT CALCITE)
T	TALCOSE
A	AMPHIBOLITIC
SE+SI	SERICITIC, MILKY SILICIFICATION
SID	SIDERITE
CA+F	CARBONATED + FUCHSITE
SE+F	SERICITIC + FUCHSITE
CL+F	CHLORITIC + FUCHSITE
SER	SERPENTINIZED
SER+T	SERPENTINIZED + TALCOSE
SER+T+CA	SERPENTINIZED + TALCOSE + CARBONATED
SE+G	SERICITIC + GRAPHITIC
SI+SE+CL	SILICEOUS + SERICITIC + CHLORITIC
CL+B	CHLORITIC + BIOTITIC
T+CA	TALCOSE AND CARBONATED

4

STRUCTURE

CODE	DESIGNATION
S	UNDIFFERENTIATED SCHISTOSITY
WS	WEAKLY SCHISTOSE
MS	MODERATELY SCHISTOSE
SS	STRONGLY SCHISTOSE
G	GOUGE
MZ	"MILLED ZONE"
FV	FRACTURED AND VEINED
VSS	VERY STRONGLY SCHISTOSE
FZ	FAULT ZONE
FZG	FAULT ZONE - GOUGE
FZS	FAULT ZONE - VERY STRONG SCHISTOSITY
DSK	DISCING

5

MINERALIZATION

CODE	DESIGNATION
SS	STRINGER SULPHIDES: <30%
DS	DISSEMINATED ORE SULPHIDES WITHOUT PY; <30% S
SM	SEMI-MASSIVE: 30-50%
MS	MASSIVE: >50%
DP	DISSEMINATED PYRITE: <30%
MSP	MASSIVE SULPHIDES MAINLY PYRITE
MSC	MASSIVE SULPHIDES MAINLY CHALCOPYRITE
MSS	MASSIVE SULPHIDES MAINLY SPHALERITE
MSCS	MASSIVE SULPHIDES MAINLY CHALCOPYRITE+SPHALERITE
1-5S	1-5% SULPHIDES WITH OR WITHOUT PYRITE
5-10S	5-10% SULPHIDES WITH OR WITHOUT PYRITE
10-30S	10-30% SULPHIDES WITH OR WITHOUT PYRITE
SPHS	SPHALERITE STAINING
SSPH	STRINGER SPHALERITE
>50 PO	>50% PYRRHOTITE
30-50 PO	30-50% PYRRHOTITE
5-30 PO	5-30% PYRRHOTITE
1-5 PO	1-5% PYRRHOTITE
M	MAGNETITE
TS	TRACE SULPHIDES
TP	TRACE PYRITE
TC	TRACE CHALCOPYRITE
TSP	TRACE SPHALERITE
TPO	TRACE PYRRHOTITE
BO	BORNITE
FSS	FRAGMENTS STRINGER SULPHIDES: <30%
FDS	FRAG. DISSEM. ORE SULPHIDES WITH/WITHOUT PY; <30% S
FSM	FRAGMENTS SEMI-MASSIVE: 30-50%
FMS	FRAGMENTS MASSIVE: >50%
FDP	FRAGMENTS DISSEMINATED PYRITE: <30%
FMSP	FRAGMENTS MASSIVE SULPHIDES MAINLY PYRITE
FMSC	FRAGMENTS MASSIVE SULPHIDES MAINLY CHALCOPYRITE
FMSS	FRAGMENTS MASSIVE SULPHIDES MAINLY SPHALERITE
FMSCS	FRAGS. MSV SULPHIDES MAINLY CHALCOPYRITE+SPHALERITE
F1-5S	FRAGMENTS 1-5% SULPHIDES WITH OR WITHOUT PYRITE
F5-10S	FRAGMENTS 5-10% SULPHIDES WITH OR WITHOUT PYRITE
F10-30S	FRAGMENTS 10-30% SULPHIDES WITH OR WITHOUT PYRITE

6

SPECIAL COMMENT

CODE	DESIGNATION
L?	LITHOLOGY IS QUESTIONABLE
IL	INTERBEDDED LITHOLOGIES
MF	MIXED FRAGMENTS
F	FRAGMENTS IN A NON-FRAGMENTAL
PO	PYRRHOTITE NOTED
AY	AMYGDALOIDAL
EX	EXTRUSIVE
CH	CHILLED
EX+CH	EXTRUSIVE + CHILLED
M	MAGNETIC
NM	NON-MAGNETIC
TU	TOPS UP HOLE
TD	TOPS DOWN HOLE
FL	FLUORITE
T	TOURMALINE
LXW	LEUCOXENE - WHITE
LXP	LEUCOXENE - PINK
QV	QUARTZ VEINING PRESENT
SV	SIDERITE VEINING
HA	HYDROTHERMAL ALTERATION
AX	AXINITE
H20	WATER
INT	INTRUSIVE
INT/EX	INTRUSIVE/EXTRUSIVE
ILE	ILMENITE (I.E. SPECULARITE)
1-5 PO	1-5% PYRRHOTITE
5-10 PO	5-10% PYRRHOTITE
10-30 PO	10-30% PYRRHOTITE
SL	SEE LOG
SLA	SEE LOG ALTERATION
SLT	SEE LOG TEXTURE
SLM	SEE LOG MINERALOGY
SLSU	SEE LOG SULPHIDES
SLS	SEE LOG STRUCTURE
SLST	SEE LOG STRATIGRAPHY
B	BEDDED

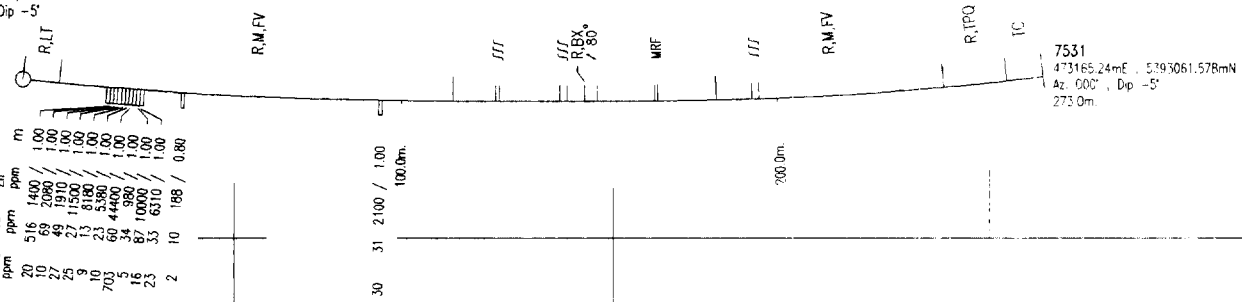
65600 N | 65700 N | 65800 N

2375

14980 SEC

2250

7531
473165.24mE , 5393061.57mN
Az. 000° , Dip -5°



m	Zn ppm	Cu ppm	Ag ppm
1.00	1400	516	20
1.00	2080	69	10
1.00	1910	49	27
1.00	11500	27	25
1.00	8180	13	9
1.00	5380	23	10
1.00	44400	60	703
1.00	980	34	5
1.00	10000	87	16
1.00	6310	33	23
0.80	188	10	2
1.00	2100	31	
			30

2125

65800 N

2000

FALCONBRIDGE LIMITED

Exploration Division — Timmins ONTARIO

3800 LEVEL EXPLORATION DRIFT

KIDD CREEK MINE

DRILL HOLE 7531

CROSS SECTION CUT @ 360° (Mine Grid)
Veiwing West @270° (Mine Grid)

TRACED: PRODES	DATE: 28/05/98	NTS: 42-A/11	PROJECT: 8034
DRAWN d e l	DATE: 01/06/98	MAP No:	FILE: 7531
SUPERVISED: Dean Rogers	DATE: 28/05/98	SCALE 1:2 000 (metres)	
REVISED: J G Collins	DATE: 01/06/98	0 10 20 30 40	

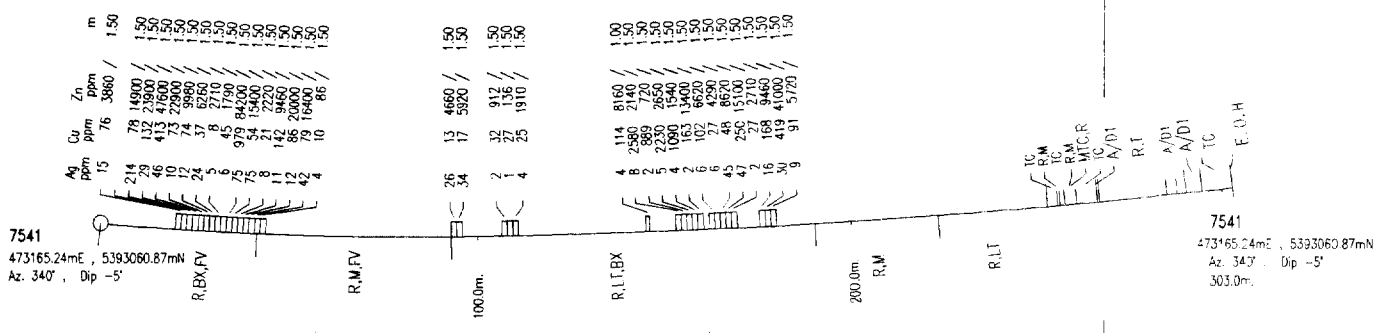
65600 N | 65700 N

65600 N | 65700 N | 65800 N

2375 | 2375

14980 SEC

2250 | 2250



2125 | 2125

65800 N

2000

65600 N | 65700 N

FALCONBRIDGE LIMITED

Exploration Division Timmins ONTARIO

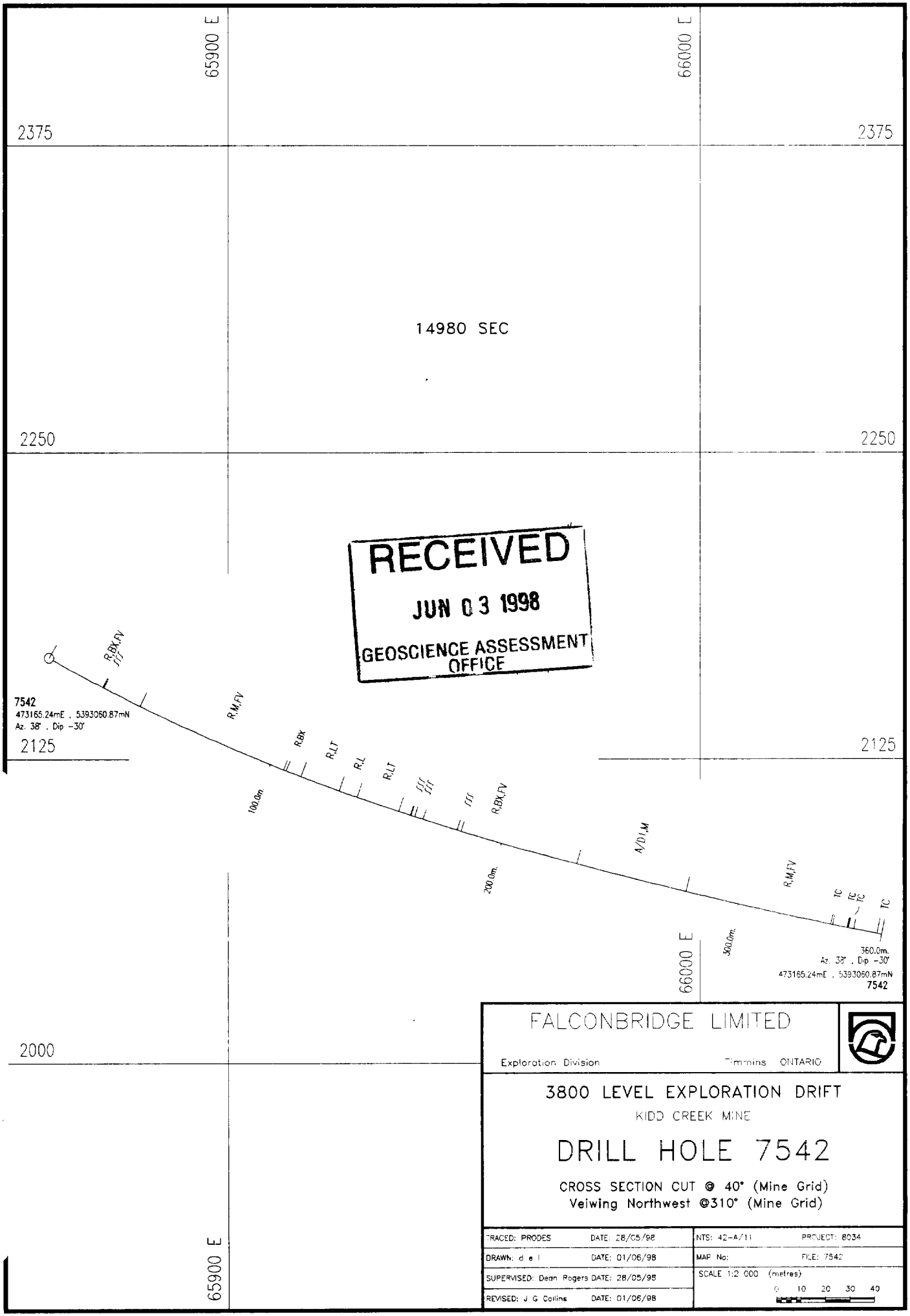
3800 LEVEL EXPLORATION DRIFT

KIDD CREEK MINE

DRILL HOLE 7541

CROSS SECTION CUT @ 345° (Mine Grid)
Veiwing Southwest @ 255° (Mine Grid)

TRACED: PRODES	DATE: 28/05/98	NTS: 42-A/11	PROJECT: 8034
DRAWN: d e l	DATE: 01/06/98	MAP No:	FILE: 7541
SUPERVISED: Dean Rogers	DATE: 28/05/98	SCALE 1:2 000 (metres)	0 10 20 30 40
REVISED: J G Collins	DATE: 01/06/98		



FALCONBRIDGE LIMITED

Exploration Division — Timmins ONTARIO

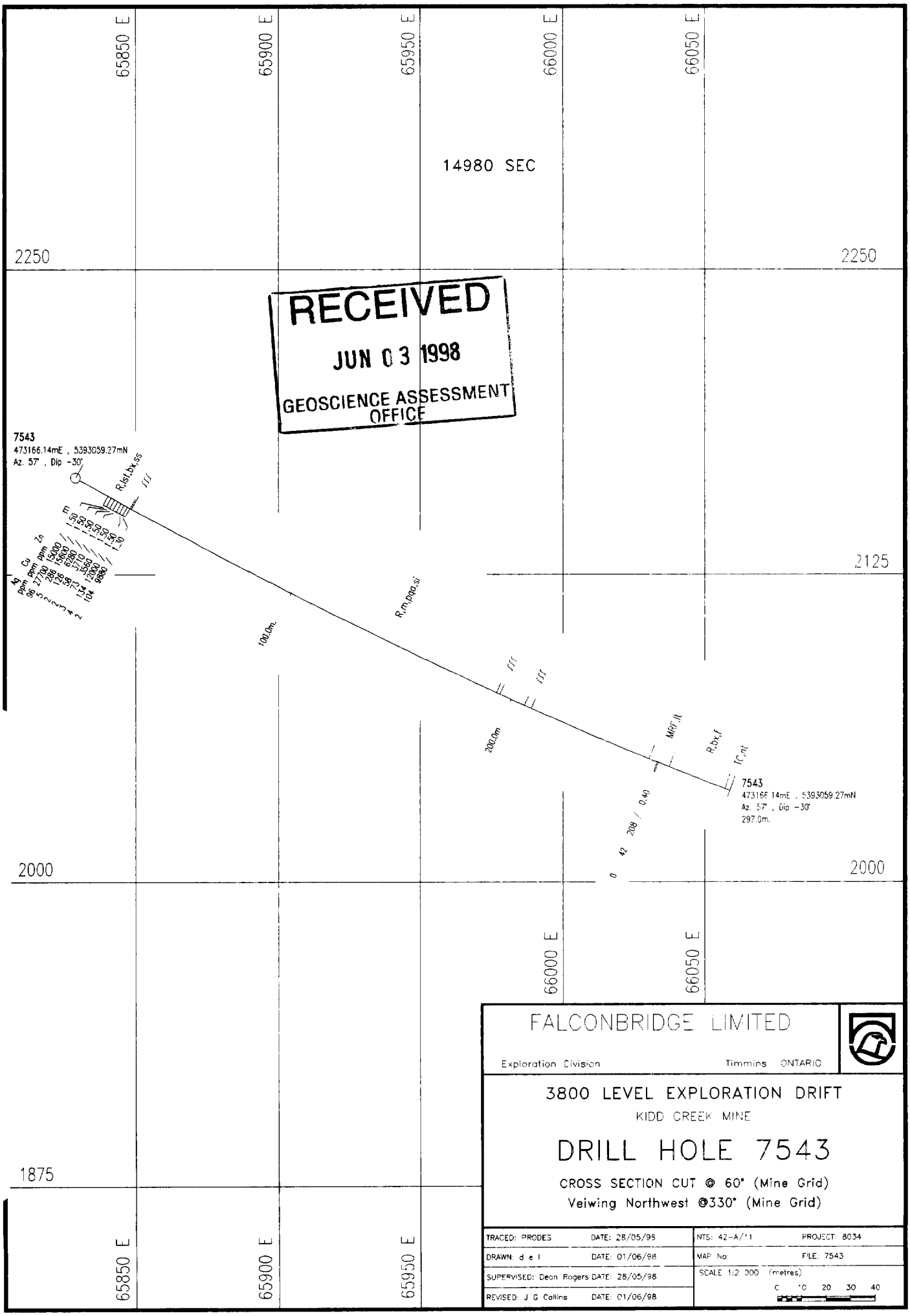
3800 LEVEL EXPLORATION DRIFT

KIDD CREEK MINE

DRILL HOLE 7542

CROSS SECTION CUT @ 40° (Mine Grid)
Veiwing Northwest @310° (Mine Grid)

TRACED: PRODES	DATE: 28/05/98	NTS: 42-A/11	PROJECT: 8034
DRAWN: d e l	DATE: 01/06/98	MAP No:	FILE: 7542
SUPERVISED: Dean Rogers	DATE: 28/05/98	SCALE 1:2 000 (metres)	
REVISED: J G Collins	DATE: 01/06/98	0 10 20 30 40	



FALCONBRIDGE LIMITED

Exploration Division — Timmins ONTARIO

3800 LEVEL EXPLORATION DRIFT

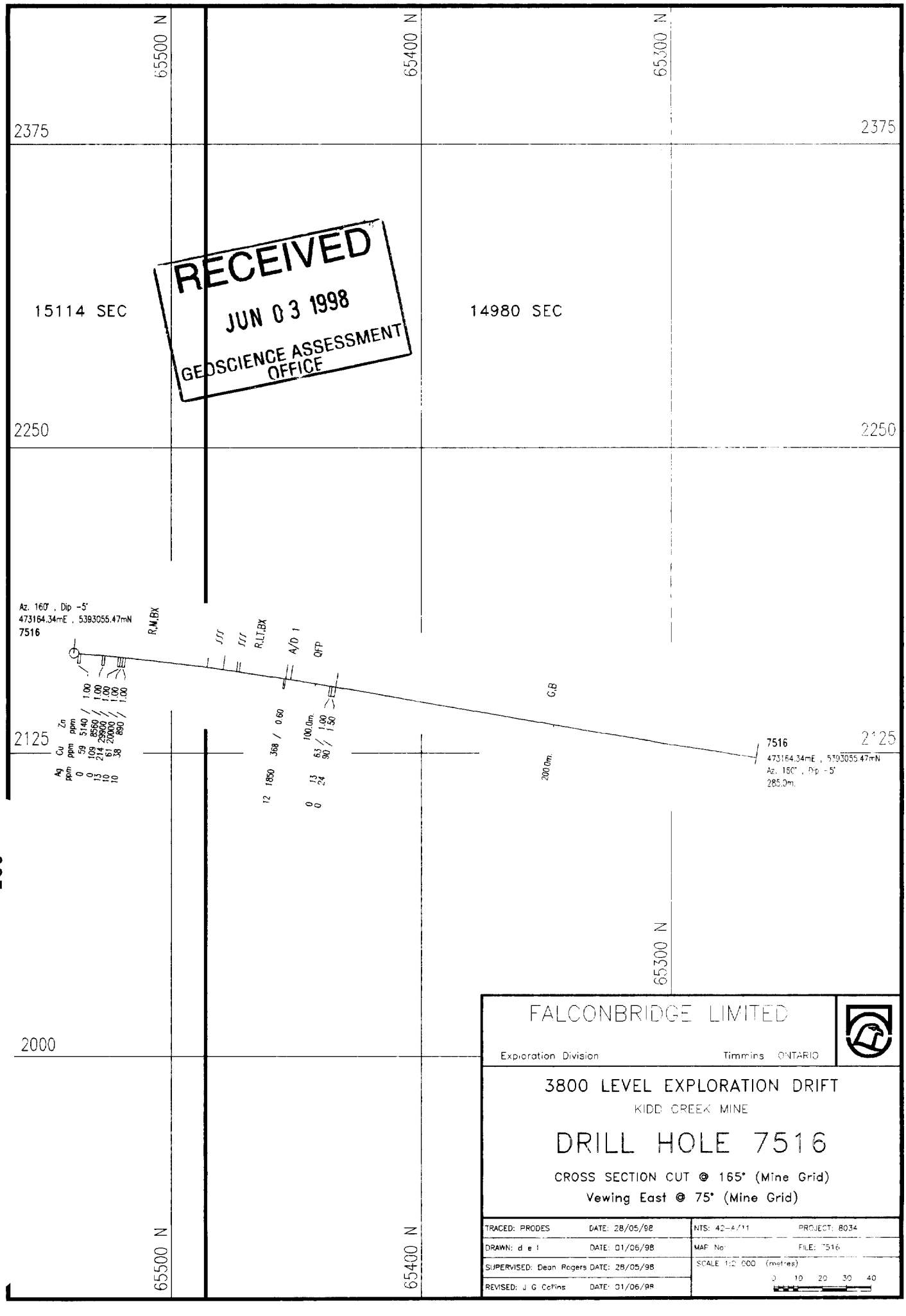
KIDD CREEK MINE

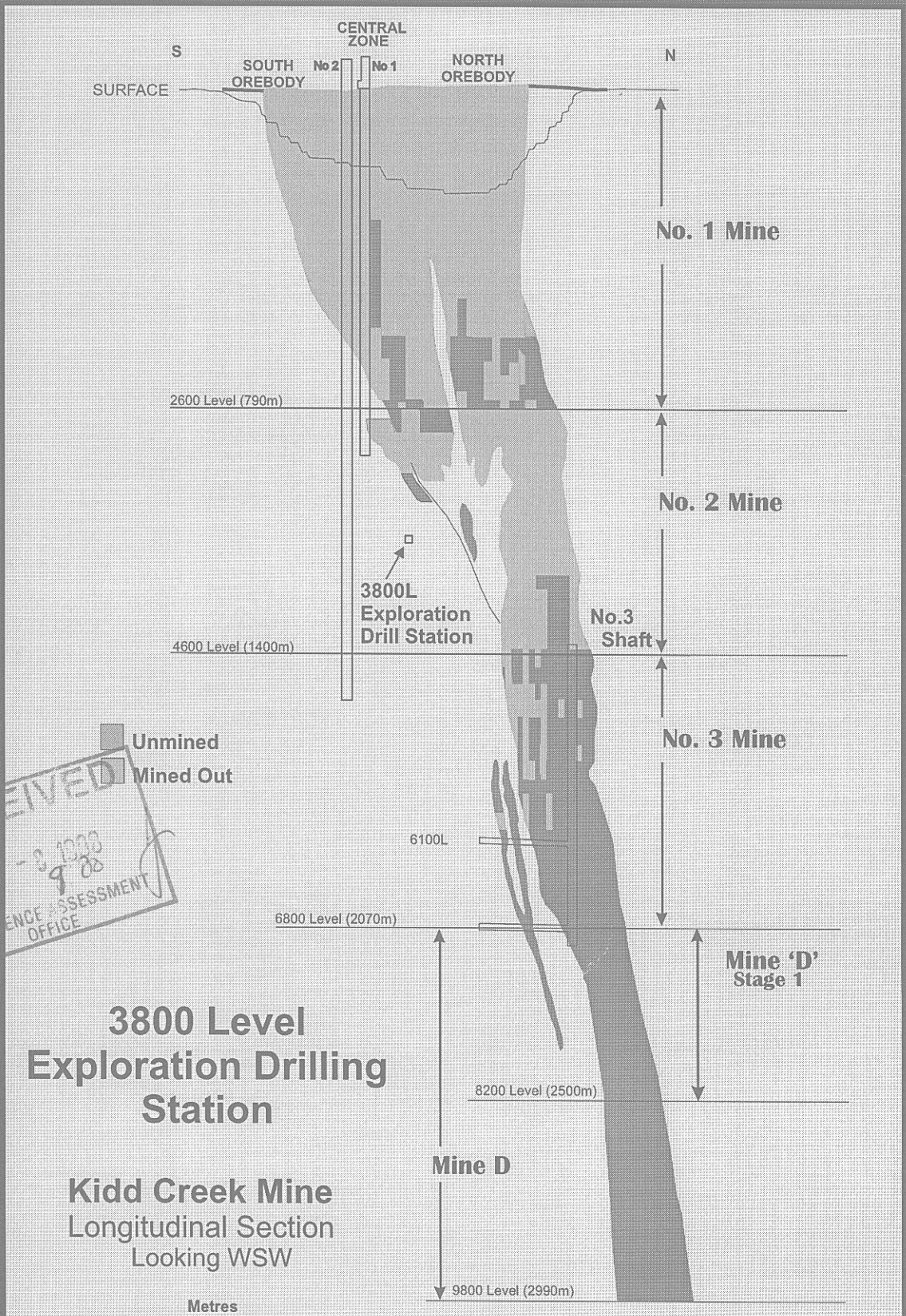
DRILL HOLE 7543

CROSS SECTION CUT @ 60° (Mine Grid)

Veiwing Northwest @330° (Mine Grid)

TRACED: PRODES	DATE: 28/05/98	NTS: 42-A/11	PROJECT: 8034
DRAWN: d e l	DATE: 01/06/98	MAP No:	FILE: 7543
SUPERVISED: Dean Rogers	DATE: 28/05/98	SCALE 1:2 000 (metres)	
REVISED: J G Collins	DATE: 01/06/98	0 10 20 30 40	





3800 Level Exploration Drilling Station

Kidd Creek Mine

Longitudinal Section

Looking WSW

August 31, 1998