

HOLE NUMBER: J41-17

DRILL HOLE RECORD

DATE: 11/22/1995

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 18.00	*JOB* Casing Overburden					
18.00 TO 78.71	*J.C.N.* w* Heterolithic c Volcanic spherulitic matrix supported frag. (felsmaf)	-fine grained dark grey rock -spherules, mostly less than 1mm -darker, finer grained fragments, probably mafic, vary in size from 1-2mm to 10cm, most are less than 3cm -fragments rounded to angular, commonly show cusped and wispy edges -unit appears equivalent to interpreted mixed magma or pepperite unit in hole R56-29		-common fracture controlled quartz-calcite veins and infilling	-none noted	
78.71 TO 78.71	*EOH* End-of-Hole					

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DRILL HOLE RECORD

DATE: 11/22/1995

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 15.00	« OH » Casing Overburden					
15.00 TO 291.00	«3,C,n,» «s» Heterolithic c Volcanic spherulitic matrix supported frag. (fel>maf)	-fine grained light to dark grey rock w/ dark grey to black fine grained fragments -spherulitic, spherules to 1-2mm -mafic appearing subrounded to angular fragments, many w/ cusps and wispy margins -fragments from 2-1mm to 10-cm -fragments account for from 5 to locally 10% of rock -appears very similar to mixed magma or pepperite unit in holes K56-29 and K56 30 -common leaching of calcite leaving vuggy vein structures to 22m -fragments softer than felsic matrix -some fragments appear partially assimilated(?) -larger fragments commonly show more foliation, +/- alteration than matrix -gradational lower contact, fragments decrease in size and abundance until they can no longer be discerned @99.00-101.00@« n, minor shear textures		-common fracture controlled calcite +/- quartz veining and ss matrix to in situ brecciation -minor chlorite veining @129.75-131.70@«K>PS» strong, pervasive, potassic alteration @145.00-146.70@«K>PS» strong, pervasive, potassic alteration @159.30-161.70@«K>PS» strong, pervasive, potassic alteration @172.08 190.28@«K>PS» strong, pervasive, potassic alteration	-none noted in matrix -trace py noted in fragments	
291.00 TO 291.00	«4,a,m,n» Felsic Volcanic fine grained massive spherulitic	-fine grained dark grey to light beige rock -gradational upper contact marked by gradual disappearance of mafic fragments -spherules <1-2mm in size -common late in situ brecciation -possible flow banding x 196m, 35° to v.a. -251-252m finely developed net textured fragmental, possibly hyalocalcite -252.0-252.4 bull quartz vein w/ chlorite sheaves in centre -locally amygdaloidal after 255m -gradational lower contact marked by first noted appearance of mafic fragment @228.20-230.40@« S2 33» Shear» Foliation strong foliation w/ shear fabric @279.20 280.00@« FAT » Fault -brittle open fault w/ sand and rounded pebbles, probably open to surface		pervasive silicification -minor fracture controlled chlorite -minor, locally strong fracture controlled potassic alteration @245.50-255.00@«BIPS» strong, pervasive, bleaching		

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
291.00 TO 378.00	e).C.*1,*w Heterolithic c Volcanic matrix supported frag. (f) maf	-cemented -fine grained dark green to black mafic fragments in a fine grained spherulitic matrix, matrix supported as above -gradational upper contact marked by first noted appearance of mafic fragment -fragments become less abundant (<5%) after 351.5m, may be due to strong marking of core by drill or may be because fragment frequency actually decreases -locally amygduloidal after 336m 306.00-311.00 e)S2 31°}Shears Foliation -zone of strong brittle (in situ breccia w/ calcite stringers) and ductile (strong foliation w/ shear lozenges and planes) deformation 349.05-349.10 e)S2 85°}Seam Foliation -probable water bearing seam w high angle to core axis		-common local calcite-quartz veining -fracture controlled chlorite	-single grain of cpy in quartz vein @ 327.88m	
378.00 TO 409.05	e).n.*t,5,q Felsic Volcanic Foliated spherulitic w/ argillaceous interbeds	-fine grained dark to light grey felsic rock w/ very fine grained black argillaceous interbeds -upper contact w chloritic slip -1mm spherulites, often cored by quartz crystals or grains -weak to moderate foliation, possibly bedding (?) -minor quartz filled stretched vesicles and 1-2cm quartz "knots" from 378-380.3m -softer than more massive felsic units higher up hole -vaguely tuffaceous character -380.3-384m strongly foliated, shear lozenges, quartz augens visible under 10x magnification, darker, softer matrix --> not strictly argillite as lower units appear -black, very fine grained slightly chloritic argillite intervals @ 390.92-391.17, 393.44-393.74, 395.25-395.45, 395.85-395.95 -moderate to strong shear structures throughout -anastomosing shear lozenges w/ chloritic partings @ 49° to c.a. @ 400m 378.00-378.01 e)S0 44°}Contact > Bedding		-common chlorite along foliation, in fractures and shear lozenges (?) lower in section	-trace po & py noted in mafic intrusive, very rare in felsic intervals	

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p> 380.50-380.51 S2 30° Foliation</p> <p> 397.40-399.96 E7, b Mafic Intrusive medium grained, mafic intrusive (?) w/ chloritic clots to 1-2mm, possibly pseudomorphs after ol or px -internal in situ brecciation, shear textures # 398.48-398.54</p> <p> 404.00-404.01 S2 40° Foliation moderate foliation # 35-45° to c.a., common shear textures</p>				
409.05 TO 502.62	±2, a, m, G, (p ?) Mafic Volcanic fine grained massive pillowed(?)	<p>fine grained to medium grained light to dark green rock</p> <p>-strongly foliated/sheared ± upper 40cm of unit</p> <p>-possible hyaloclastite # 410.60-410.87m, 412.28-412.44m,</p> <p>common leucoxene in more medium grained sections</p> <p>-sharp internal contacts between units of different texture +/- grain size +/- colour -> possible solvaques?</p> <p>0.14m aphanitic felsic unit (dike?) 500.84-501.0m</p> <p>-lower contact sharp # 50°</p> <p> 409.05-409.06 S0 38° Bedding -sharp upper contact</p> <p> 437.00-437.01 S2 35° Foliation moderate to strong foliation, 437-438.6m</p> <p> 497.50-497.51 S2 48° Foliation</p>		<p>-very common chlorite filled irregular fractures</p> <p>-hematite/calcite fractures # very high angle to c.a. # 438.75 & 438.84</p> <p>-epidote noted after 439m</p> <p>feathery calcite grains to 3mm, 1-3%, locally to 5-10% from 467m to end of unit</p> <p> 467.00-500.00 CbPS+ strong, pervasive, carbonatization</p>	<p>-1-3% po & py # disseminated euhedral grains and fracture related mineralization</p> <p>-1-3% euhedral magnetite grains to 1mm from 472m to end of unit</p>	
502.62 TO 522.48	±4, bx Felsic Volcanic breccia	<p>-fine grained light to dark grey unit with felsic clasts</p> <p>strongly foliated, possibly bedded ash to 504.7m</p> <p>recognizable felsic fragments start at 504.75m, matrix and fragments both felsic</p> <p>matrix whiter, possibly silicified for first 3m</p> <p>-fragment size varies from 1cm to >8cm apparent</p>		<p>-moderate to strong chloritization, chlorite as clots and small stringers</p> <p>-clots (1-2mm) possibly after original mafic domains/minerals</p>	<p>trace disseminated and fracture related py, locally up to 5%</p>	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		size, but smaller fragments predominate fragments commonly texturally different than matrix good rounded to subrounded coarsely spherulitic fragments @ 516.3m -matrix becomes more coarsely spherulitic (spherules to 1mm), fragments rare to absent after 517.3m -spherulites commonly cored by quartz (?), rims lighter, possibly altered -mafic dike, fine grained, from 517.97-519.76m -becomes amygduloidal after 519.8m, more aphanitic, no visible fragments -sharp lower contact 503.75-503.76 @S2 48°} Poliation				
522.48 TO 538.17	47.b Mafic Intrusive medium grained	-fine to medium grained dark green unit -fine grained chill margins @ both upper and lower contacts -non-magnetic 522.48-522.49 @S0 44°} Intrusive Bedding 538.16-538.17 @S0 65°} Intrusive Bedding		-common chlorite pseudomorphs after acicular mafic minerals -common chlorite veining	-trace disseminated by large (6-7mm) euhedral py grains noted near lower contact	
538.17 TO 547.46	44,1,1,n,C Felsic Volcanic flows banded spherulitic	fine grained light grey to dark green rock -spherules to 2mm, generally >1mm -aphanitic for first metre -good flow banding evident @ 541.34, 548.6m upper and lower contacts intrusive		-strongly chloritized, sections appear to be mafic but textures continue, contacts gradational -1-2cm chl veins -weakly carbonatized	-fracture and alteration related by mineralization, locally to 5%, probably >1% throughout unit	
547.46 TO 550.74	47.a Mafic Intrusive fine grained	-fine grained dark green rock 547.46-547.47 @S0 47°} Intrusive Bedding 550.71-550.74 @S0 49°} Intrusive Bedding		-weakly to moderately carbonatized		
550.74 TO 660.74	44,e,1,n,C Felsic Volcanic amygduloidal	-fine grained light to dark grey rock upper contact intrusive -quartz-calcite filled amygdules to 3-5mm, many strained spherules, generally small but sections to 5-6mm		-common quartz-calcite veins and stringers -chlorite-quartz veins, ~1cm wide @ 579.32, 585.03, 585.81 -strongly chloritized zone.	-none noted	

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	flows (banded) spherulitic heterolithic	-cusped and wispy margin mafic "clasts", demonstrate magma mixing textures, commonly <1cm but may reach 7-8cm apparent size, account for 1-3% of rock -good convolute flow banding @ 560.18m -shear lozenges or possible fragments @ 637-637.5m -spherules become larger, whiter, appear to coalesce, 643.6-647.32, 645.26-652.64 -mafic dike, 647.32-645.26 558.50-558.51 @52 54°> Foliation -foliation by stretched amygdules 581.71-581.72 @52 38°> Foliation -minor shear w/ quartz vein		622.38-622.55 630.11-630.2m		
660.74 TO 665.09	*7,a* Mafic Intrusive fine grained	fine to medium grained dark green rock fine grained to aphanitic chill margins @ both upper and lower contacts -possibly amygdaloidal, carbonate filled, may be pseudomorphs 660.74-660.75 @80 0°> Intrusive Bedding 665.08-665.09 @50 55°> Intrusive Bedding		-pervasive spotty carbonate alteration		-trace to 1% disseminated py
665.09 TO 722.19	*4,a,*b,c* Felpic Volcanic spherulitic lapilli tuff	-fine grained dark grey to green rock -spherulitic, spherules to 1-2mm @ top of unit -lapilli size felsic fragments, mostly flattened and deformed, often not in general plane of foliation (e.g. @ 668.18) -x" folded fragments @ 668.79 -T. Barrin suggests these fragments are bleached mafic fragments, and says that the bleaching is consistent to that found within 300m of the Cominco zone (note that fragments are harder than matrix though) -weak to strong foliation throughout unit, possibly after original bedding but often showing shear lozenge textures -common micaceous fractures, suggesting possibly "dirtier" groundmass, (reworked tuff?) -more common mafic fragments after 679.5m -more strongly foliated after 684m		-pervasive moderate to strong chlorite alteration throughout unit -brittle fracture irregular calcite stringers common, 668-678m		-trace fracture related by mineralization

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<ul style="list-style-type: none"> -biotite becomes common in matrix after 688m -rare felsic or "bleached" lapilli reappear at 698m -unit becomes denser, darker, less visibly foliated after 703m (still spherulitic) --> implies matrix contains less Al for micaceous minerals or silicification or strong reduction in strain rate -fragments of spherulitic felsic flow (?) w/ sericite-chlorite altered matrix appear after 615m --> alteration of fragments appears to have occurred prior to incorporation in this unit -flow banded spherulitic fragment or thin flow edge at 719.89-720.54 -perlitic fractured hyaloclastite 720.54-721m -clast supported to in situ breccia for remainder of unit 				
		<ul style="list-style-type: none"> 674.00-670.01 +{S2 49°}+ Foliation 				
		<ul style="list-style-type: none"> 682.87-684.00 +2.4* Mafic Volcanic -fine grained, nondescript mafic unit, possible dike or thin tuff or flow w/o visible structure 				
		<ul style="list-style-type: none"> 684.50-684.51 +{S2 50°}+ Foliation 				
		<ul style="list-style-type: none"> 693.50-693.51 +{S2 50°}+ Foliation 				
722.19 TO 725.18	<ul style="list-style-type: none"> 5.E.2.a,bx Interdigitating Chert (or Cherty Rhyolite) and Mafic 	<ul style="list-style-type: none"> -intermingled light to dark grey siliceous rock and light green fine grained mafic volcanic -sharp upper contact -unit is dominantly cherty for first metre, becomes dominantly mafic by end of unit -cherty section at start has fine laminations (bedding?) convolutedly folded and fractured, also stylolitic textures -biotite noted -lower contact = end of flattened mafic fragments 		<ul style="list-style-type: none"> -mafic sections bleached, chloritic -foliation parallel quartz calcite veins and stringers 	<ul style="list-style-type: none"> -trace to 1-3% disseminated py 	<ul style="list-style-type: none"> -possibly equivalent to "mylonite" in mine horizon
		<ul style="list-style-type: none"> 722.15-722.20 +{S0 48°}+Contact + bedding 				

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p> 723.38-723.35 = S2 50° = Foliation -strong flattening foliation w/ shear fabric but no convincing kinematic indicators</p>				
725.18 TO 734.88	<p>«2.bx,p» Mafic Volcanic breccia pillowed</p>	<p>-fine grained light to dark green rock -upper contact slightly irregular $\delta = 50^\circ$ to c.a. -rounded fragments of pillow breccia surrounded by biotite rims -more massive sections up to 1m in length, probably pillows but hard to determine good selvages -1-3mm mafic clots (presently biotite), probably pseudomorphs of original mafic minerals (px?) --> account for 1-3% of rock -lower contact irregular, marked by qv</p>		<p>-common biotite, implies K alteration -weak to moderate fracture controlled and spotty carbonatization in breccia matrix</p>	<p>1-5% disseminated py, mainly in breccia matrix</p>	
734.88 TO 750.00	<p>«2.a.e.m» Mafic Volcanic fine grained amygdaloidal/vesicular massive</p>	<p>-fine grained dark grey green rock quartz-calcite filled amygdala for first 2m -chlorite biotite clots, probably pseudomorphs after original mafic minerals to 1.3mm, up to 10% of rock in fine grained granular feldspar and chlorite matrix -unit is massive, structureless -lower contact gradational</p>		<p>-common calcite-quartz irregular stringers and veins -feathery calcite crystals noted @ 745m</p>	<p>-trace py</p>	
750.00 TO 778.33	<p>«7.m» Mafic Intrusive massive</p>	<p>-fine to medium grained mottled light green and greenish white -gradational upper contact chosen on end of biotite chlorite clots and first appearance of kaunauritized plagioclase grains to 3mm non magnetic -gradational increase in grain size over first 15m of unit -fine leucokone noted after 757m sharp lower contact</p> <p> 756.15-756.31 = F1 Minor Shear Fault -minor shear structure $\delta 60^\circ$ to c.a. w/ some euhedral, probably secondary py</p> <p> 778.32-778.33 = S0 38° Intrusive Bedding</p>		<p>-common quartz-chlorite veins @ 50-90° to c.a. -common quartz-epidote veins @ 30-90° to c.a.</p>	<p>-trace fracture and vein related py mineralization</p>	
778.33 TO 786.30	<p>«10.b» Diabase medium grained</p>	<p>-fine to medium grained black rock -upper and lower chill margins -good diabasic texture -magnetic</p>				

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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
786.30 TO 792.00	*7.m Mafic Intrusive massive	-medium grained mottled green to greenish white rock -as above 786.30-786.31 *S0 40* Intrusive Bedding -slightly irregular intrusive contact				
792.00 TO 792.00	*EOH* End-Of-Hole					

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ASSAYS SHEET

DATE: 22/11/1995

Sample	From (M)	To (M)	Lenq. (M)	Cu ppm	Zn ppm	Au ppb	Ag ppm	Pb ppm	Co ppm	Cu/Zn ppm	Ni ppm
AR06551	540.00	541.00	1.00								
AR06552	541.00	542.00	1.00								
AR06553	542.00	543.00	1.00								
AR06554	543.00	544.00	1.00								
AR06555	544.00	545.00	1.00								
AR06556	545.00	546.00	1.00								
AR06558	722.15	723.00	0.85								
AR06559	723.00	724.00	1.00								
AR06560	724.00	725.00	1.00								
AR06561	725.00	726.00	1.00								
AR06562	726.00	727.00	1.00								
AR06563	727.00	728.00	1.00								
AR06564	731.00	732.00	1.00								
AR06565	732.00	733.00	1.00								

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ASSAYS SHEET

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GEOCHEMICAL ASSAY

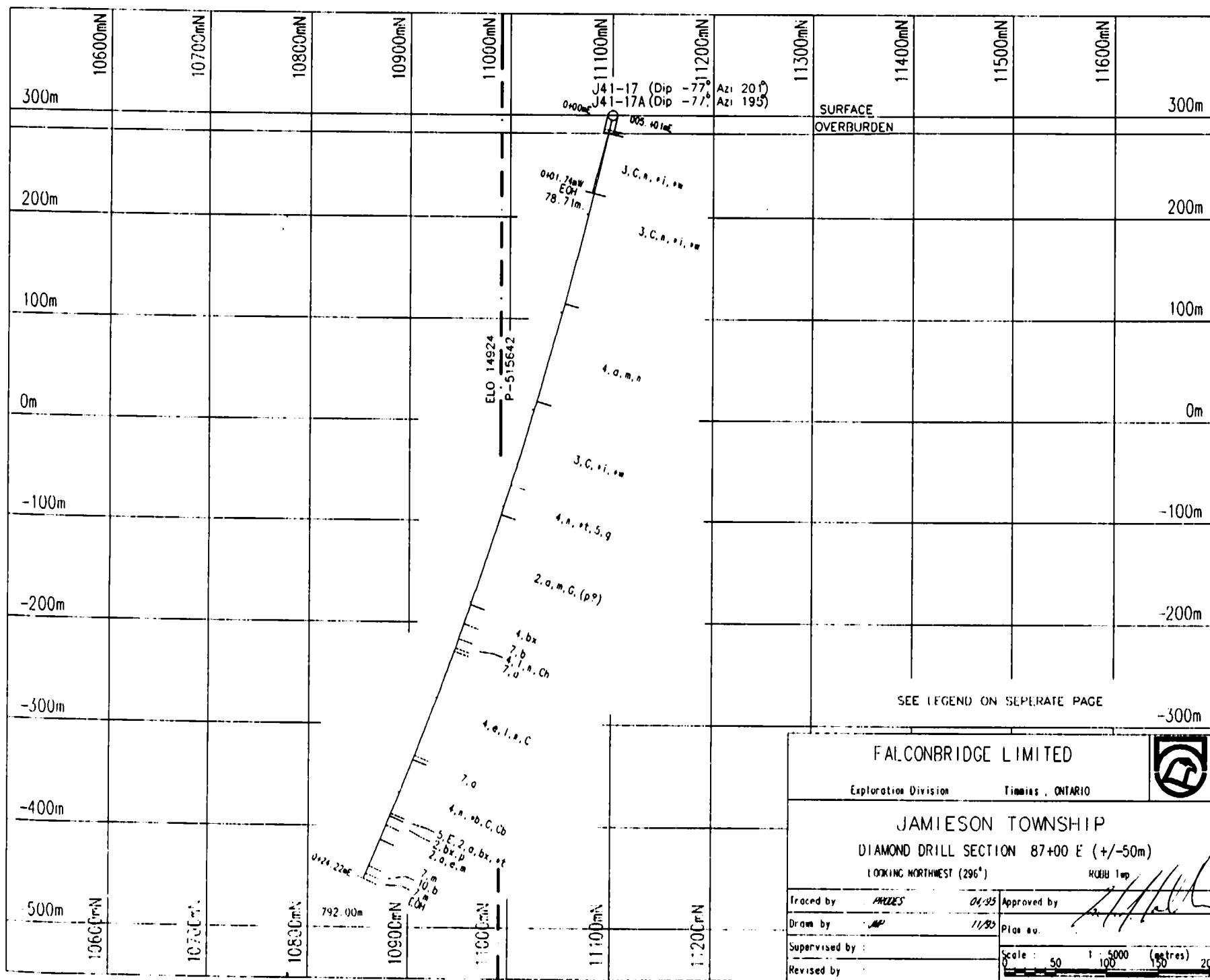
DATE: 22/11/1995

Sample	From (M)	To (M)	Leng. (M)	SiO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3	TiO2	P2O5	MNO	CR2O3	LOI	SUM	Y PPM	ZR PPM	BA PPM	CU PPM	ZN PPM	NI PPM	CR PPM	FIELD NAME	CHEM ID	ALUM	
AR09201	24.00	27.00	3.00																								
AR09202	54.00	57.00	3.00																								
AR09203	84.00	87.00	3.00																								
AR09204	114.00	117.00	3.00																								
AR09205	144.00	147.00	3.00																								
AR09206	174.00	177.00	3.00																								
AR09207	195.00	198.00	3.00																								
AR09208	225.00	228.00	3.00																								
AR09209	255.00	258.00	3.00																								
AR09210	285.00	288.00	3.00																								
AR09211	291.00	294.00	3.00																								
AR09212	321.00	324.00	3.00																								
AR09213	351.00	354.00	3.00																								
AR09214	378.00	380.20	2.20																								
AR09215	381.00	384.00	3.00																								
AR09216	387.80	388.00	0.20																								
AR09217	405.00	408.00	3.00																								
AR09218	414.00	417.00	3.00																								
AR09219	444.00	447.00	3.00																								
AR09221	474.00	477.00	3.00																								
AR09222	498.00	500.80	2.80																								
AR09223	507.00	510.00	3.00																								
AR09224	528.00	531.00	3.00																								
AR09225	540.00	543.00	3.00																								
AR09226	547.46	550.46	3.00																								
AR09227	552.00	555.00	3.00																								
AR09228	582.00	585.00	3.00																								
AR09229	612.00	615.00	3.00																								
AR09230	642.00	645.00	3.00																								
AR09231	661.00	664.00	3.00																								
AR09232	669.00	672.00	3.00																								
AR09233	699.00	702.00	3.00																								
AR09234	717.00	720.00	3.00																								
AR09235	722.42	722.62	0.20																								
AR09236	726.00	729.00	3.00																								
AR09237	735.00	738.00	3.00																								
AR09238	753.00	756.00	3.00																								
AR09239	789.00	792.00	3.00																								

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GEOCHEMICAL ASSAY

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LEGEND

Geology

MAJOR ROCK DIVISIONS

12	GNEISS
11	SCHIST
10	DIABASE
9	FELSIC INTRUSIVE ROCKS
8	INTERMEDIATE INTRUSIVE ROCKS
7	MAFIC INTRUSIVE ROCKS
6	ULTRAMAFIC INTRUSIVE ROCKS
5	SEDIMENTARY ROCKS
4	FELSIC VOLCANIC ROCKS
3	INTERMEDIATE VOLCANIC ROCKS
2	MAFIC VOLCANIC ROCKS
1	ULTRAMAFIC VOLCANIC ROCKS

TEXTURAL/GEOCHEMICAL MODIFIERS

a	Fine Grained	A	Primitive ($\gamma < 20$)
b	Medium Grained	B	Evolved ($\gamma > 20 < 60$)
bx	Breccia	C	Heterolithic
c	Coarse Grained	D	Feldspar Phyric
d	Quartz-Feldspar Phyric	E	Chert
e	Amygdaloidal/Vesicular	F	Wacke
f	Primary Fragmentals	G	Leucoxene Bearing
g	Graphitic/Argilloceous	H	Basaltic Komatiite
h	Tholeiitic	I	
i	Alkalic	J	Pyroxenite
j	Calc-Alkalic	K	Nel Textured
k	Komatiitic	L	Peridotite
l	Flows	M	Dunite
m	Massive	N	Ophitic
n	Variolitic/Spherulitic	P	Porphyritic
p	Pillowed	Q	
q	Quartz Phyric	R	Polysaturated
r	Oxide Iron Formation	S	Fractured
s	Sulphides, Exhalites	T	Gabbroic Textured
t	Pyroclastic	U	Pyroxene Spinifex
u	High Mg	V	Olivine Spinifex
v	High Fe	W	Skeletal/Crescumulate
w	High Al	X	Adcumulate
x	Andesite	Y	Mesocumulate
y	Icelandite	Z	Orthocumulate
z	Highly Evolved ($\gamma > 60$)		

ROCK TYPE

<OFF>	Quartzofeldspathic
<QTZ>	Quartz
<MAR>	Marble
<SKA>	Skarn(Calc-Silicate)
<PHY>	Phyllite
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<GRA>	Granite
<MON>	Monzonite
<GRD>	Granodiorite
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<FEL>	Felsite
<QDI>	Quartz Diorite
<GAB>	Gabbro
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<ANT>	Anorthosite
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<CGL>	Conglomerate
<STL>	Siltstone
<ARG>	Mudstone-argillite
<EXH>	Chert/exhalite
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<OIF>	Oxide IF
<SIF>	Sulphide IF
<CIF>	Carbonate IF
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<MG>	Migmatite
<PEG>	Pegmatite
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ALTERATION MODIFIERS

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<Ep>	Epidotization
<Hm>	Hematization
<K>	Potassic Alteration
<Se>	Sericitization
<Si>	Silicification
<Sr>	Serpentinization
<Tc>	Talc-Carbonatized

TEXTURAL/STRUCTURAL MODIFIERS

oa	Tuff(67% < 2mm)
ob	Lapilli(2-64mm)
oc	Lapillstone(76% < 264mm)
od	Block(> 64mm)
oe	Autoclastic
of	Thickly Laminated
og	Thinly Laminated
oh	Clast Supported
oi	Matrix Supported
oj	Granule(grit 2-4mm)
ok	Pebble(4-64mm)
ol	Cobble(64-256mm)
om	Boulder(> 256mm)
on	Graded Bedding
oo	Cross Bedding
op	Fault Gouge
oq	Augen
or	Porphyroblastic
os	Hornfels
ot	foliated/sheared
ou	folded
ov	boudinage
ow	fragmental(felsic > mafic)
ox	fragmental(mafic > felsic)
oy	Crystall Tuff(> 50% of frogs)
oz	Lithic Tuff(> 50% of frogs)

MINERALOGICAL NAMES

Ak	Actinolite	Fc	Fuchsite	Py	Pyrite
Alb	Albite	Gn	Galena	Px	Pyroxene
Al	Almandine	Gt	Garnet	Po	Pyrrhotite
Am	Amphibolite	VG	Gold	Qt	Quartz
An	Anhydrite	Gf	Graphite	Ro	Rhodochrosite
Ad	Andalusite	GS	Gravel & Sand	Ru	Rutile
Ay	Anthophyllite	Gyp	Gypsum	Sur	Serpentine
Ap	Apatite	Hem	Hematite	Sc	Sericite
Asp	Arsenopyrite	Hb	Hornblende	Sh	Scheelite
Asb	Asbestos	Hy	Hypersthene	Sid	Siderite
Aug	Augite	Il	Ilmenite	Sil	Silica
Ba	Barite	I-F	Iron Formation	Sim	Silliminite
Bi	Biotite	Jr	Jarosite	Sps	Spessartite
Bo	Bornite	Ky	Kyanite	Sph	Sphalerite
Ca	Calcite	La	Limestone	Ti	Sphene (Titanite)
Cn	Chalcodony	Lm	Limonite	Ag	Silver
Cc	Chalcocite	Mag	Magnetite	Sp	Spinel
Cp	Chalcopyrite	Ma	Marcasite	Spd	Spodumene
Chl	Chlorite	Ml	Mica	St	Staurolite
Ch>	Chloritoid	Mk	Microcline	Sb	Stibnite
Cr	Chromite	Mo	Molybdenite	Sul	Sulphides
Cpx	Clinochlore	Mu	Muscovite	S-M	Mass. Sulphides
Co	Cobalt Minerals	Ne	Nepheline	S-D	Dis. Sulphides
Cv	Covellite	Ni	Nickel Minerals	Tk	Talc
Ct	Cordierite	Or	Olivine	Ta-Ct	Tantalite-Columbite
Dp	Diopside	Or	Orthoclase	Tl	Tourmaline
Dol	Dolomite	Opx	Orthopyroxene	Tr	Tremolite
Epi	Epidote	Pt	Phlogopite	Wo	Wollastonite
Fel	Feldspar	Pg	Plagioclase	Zr	Zircon
Fl	Fluorite	Pn	Pentlandite		



Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
W9560.00501

Personal information collected on this form is obtained under the authority of the Access to Information Act. This collection should be directed to the Provincial Manager, Mining License Administration, Sudbury, Ontario, P3E 8A5, telephone (705) 670-7264.



42A12SE0013 W9560-00501 JAMIESON

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

about
tree,

900 ing

Recorded Holder(s) FALCONBRIDGE LIMITED		Client No. 130679
Address P.O. Box 1140, 571 Moneta Ave. Timmins, Ont. P4N 7H9		Telephone No. (705) 267-1188
Mining Division Porcupine	Township/Area Jamieson - Godfrey + Robb	M or G Plan No. 6-3986, 6-3991, 6-3988
Dates Work Performed From: Sept. 5 '95	To: Oct 18 '95	

Work Performed (Check One Work Group Only)

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	Diamond Drilling Holes J41-17 and J41-17A (488.71m)
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ **31,800**

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Michael Collison	P.O. Box 1140, 571 Moneta Ave. Timmins Ontario
Dominik Drilling (1981) Inc.	409 King St., Porcupine, Ontario

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date Nov 24 '95	Recorded Holder or Agent (Signature)
--	---------------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying John Pattison		
Telephone No. (705) 267-1188	Date Nov 24 '95	Certified By (Signature)

For Office Use Only

\$31,800	Date Recorded	Mining Recorder	Received Stamp NOV 24 1995 @ 10:00 am (c)
	Deemed Approval Date FEB 22 1996	Date Approved Feb 6/96	
	Date Notice for Amendments Sent		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	P-515642	1
	P-663480	1
	P-610295	1
	P-610296	1
	P-610297	1
	P-610532	1
	P-610667	1
	P-610668	1
	P-610671	1
	P-634743	1
	P-634744	1
	P-634745	1
	P-634746	1
	P-634747	1
	P-634748	1
	P-634749	1
	P-634750	1
Total Number of Claims CONTINUED		

Value of Assessment Work Done on this Claim	Value Applied to this Claim
31,800	0
	800
	400
	400
	400
	400
	400
	400
	400
	400
	400
	400
	400
	400
	400
	400
	400
	400
	400
Total Value Work Done ON NEXT PAGE	Total Value Work Applied

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
9,611	22,189
Total Assigned From	Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature <i>[Signature]</i>	Date Nov. 24 95
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Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des mines

Statement of Costs
for Assessment Credit

État des coûts aux fins
du crédit d'évaluation

Transaction No./N° de transaction
W9560.00501

Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour (Loggers) Main-d'oeuvre	3500	4000
	Field Supervision Supervision sur le terrain	500	
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Drilling	27,300	27,300
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			31,300

2. Indirect Costs/Coûts indirects

Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Truck + Gas	500	500
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			500
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			500
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)			31,800

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Senior Project Geologist I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(Titulaire enregistré, représentant, poste occupé dans la compagnie)

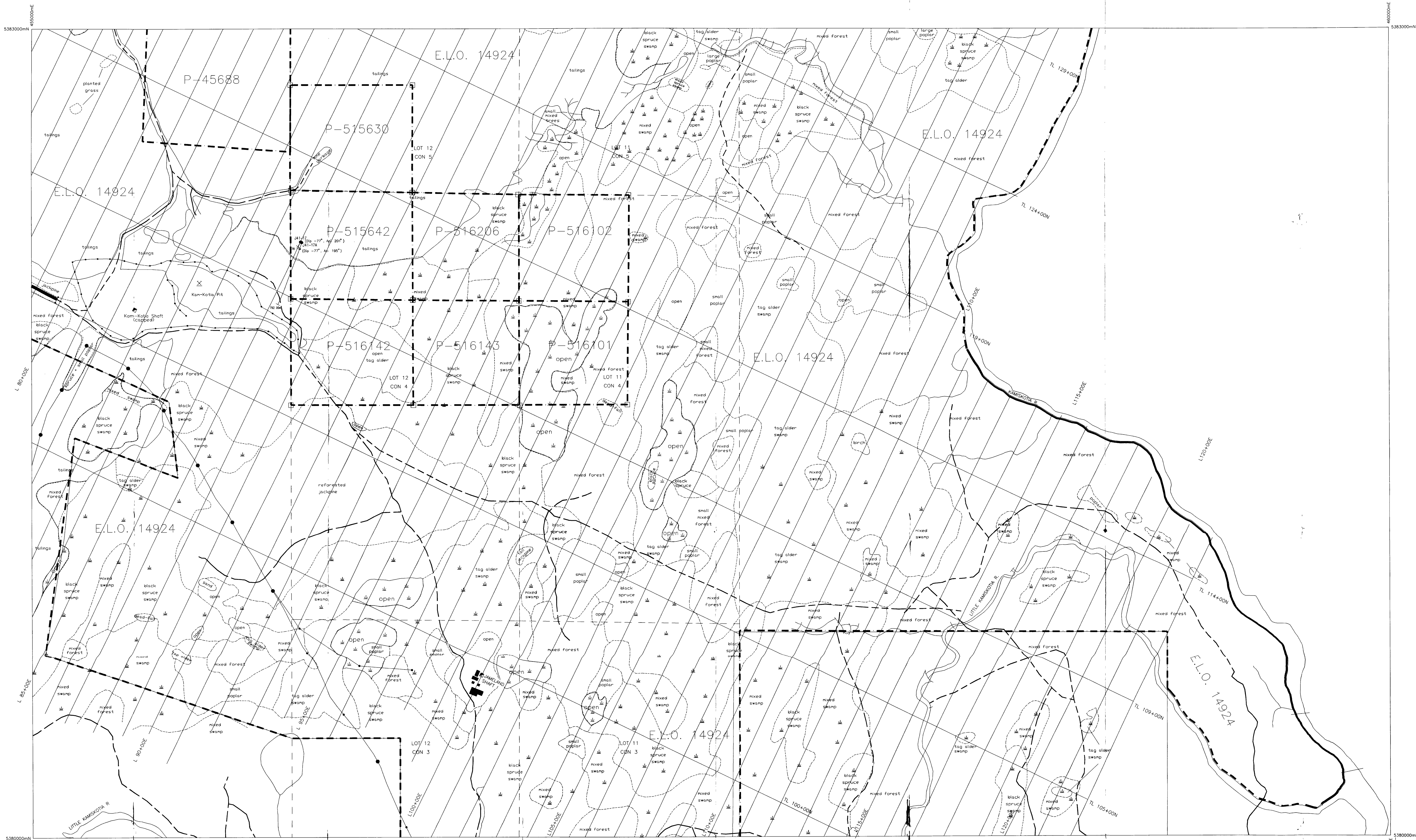
à faire cette attestation.

Signature _____ Date Nov 24 '95

Note: Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

0212 (04/91)

NOV 24 1995
@ 10:00a (C) [Signature]



PHYSICAL WORK

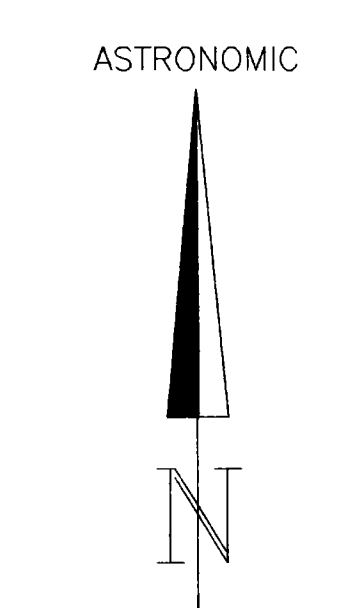
- Faculties Diamond Drill Hole
- Faculties Auger Hole
- Faculties Shaft
- Faculties Pit
- Faculties Ramp
- Faculties (other abandoned)

CULTURAL AND PHYSIOGRAPHIC FEATURES

- Claim boundary
- Road (asphalt, gravel)
- Road (dirt)
- Trail
- Fences (various types)
- Water bodies (streams, lakes)
- Topographic contours
- Survey points (various types)

435395	4403395	4453395	4503395	4553395	4603395	4653395	4703395	4753395
4803395	4853395	4903395	4953395	5003395	5053395	5103395	5153395	5203395
5253395	5303395	5353395	5403395	5453395	5503395	5553395	5603395	5653395
5703395	5753395	5803395	5853395	5903395	5953395	6003395	6053395	6103395
6153395	6203395	6253395	6303395	6353395	6403395	6453395	6503395	6553395
6603395	6653395	6703395	6753395	6803395	6853395	6903395	6953395	7003395
7053395	7103395	7153395	7203395	7253395	7303395	7353395	7403395	7453395
7503395	7553395	7603395	7653395	7703395	7753395	7803395	7853395	7903395
7953395	8003395	8053395	8103395	8153395	8203395	8253395	8303395	8353395
8403395	8453395	8503395	8553395	8603395	8653395	8703395	8753395	8803395
8853395	8903395	8953395	9003395	9053395	9103395	9153395	9203395	9253395
9303395	9353395	9403395	9453395	9503395	9553395	9603395	9653395	9703395
9753395	9803395	9853395	9903395	9953395	10003395	10053395	10103395	10153395

INDEX MAP



FALCONBRIDGE LIMITED

Exploration Division

ROBB AND JAMESON TOWNSHIPS
J41-17 AND J41-17A
DRILL HOLE LOCATION
PLAN MAP

DATE: 04/95
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 PROJECT: 8024

SCALE: 1:50,000
 SHEET: 17A OF 18