

FALCONBRIDGE LIMITED
DRILL HOLE RECORD

HOLE NUMBER: CAS78-01

DATE: 03/22/2001

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: SAGANASH PROJECT	PLOTTING COORDS GRID: UTM	ALTERNATE COORDS GRID: 98CAS78	COLLAR DIP: -50° 0' 0"
PROJECT NUMBER: 291	NORTH: 5444116.00N	NORTH: 2+10S	LENGTH OF THE HOLE: 162.00M
CLAIM NUMBER: P1226732	EAST: 406296.00E	EAST: 1+ 0W	START DEPTH: 0.00M
LOCATION: Casselman Twp.	ELEV: 3320.00	ELEV: 3320.00	FINAL DEPTH: 162.00M
COLLAR ASTRONOMIC AZIMUTH: 140° 0' 0"		GRID ASTRONOMIC AZIMUTH: 140° 0' 0"	
DATE STARTED: 02/23/2001	COLLAR SURVEY: YES	PULSE EM SURVEY: NO	CONTRACTOR: Benoit Diamond Drilling
DATE COMPLETED: 02/28/2001	RQD LOG: NO	PLUGGED: NO	CASING: 32m pulled
DATE LOGGED: 02/28/2001	HOLE MAKES WATER: NO	HOLE SIZE: BQ	CORE STORAGE: Kidd Creek Minesite
			UTM COORD.:

COMMENTS : Targeting 27 mho formational conductor. Intersected cherty sulphide-facies iron formation.
WEDGES AT:

DIRECTIONAL DATA: Sperry Sun tests taken at 60m intervals

Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
45.00	100° 0' 0"	-46° 0' 0"	S		Bad azimuth reading	-	-	-	-	-	-
105.00	106° 0' 0"	-44° 0' 0"	S		Bad azimuth reading	-	-	-	-	-	-
162.00	112° 0' 0"	-43° ' "	S		Bad azimuth reading	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 32.00	« ob »	There is core present from 15.00-17.00 (fine grained light grey muscovite-biotite-quartz-feldspar schist [felsic ash to lapilli tuff]) and then drillers indicate a sand seam was intersected. Between 17.00 and 32.00 there is another 73cm of core (fine grained dark green-black massive hornblende schist with pygmatic potassically altered quartz vein [mafic volcanic]). Before 32.00 the drillers indicated another sand seam was intersected.				
32.00 TO 34.10	«2,a,*t» Qt-Fel-Hbl Schist	QUARTZ-FELDSPAR-HORNBLLENDE SCHIST (mafic lapilli tuff) -fine grained massive dark grey-green quartz-feldspar-hornblende schist -unit is composed of 50% hornblende and 50% quartz-feldspar -unit is host to a dense haphazard wispy stockwork of quartz and ankerite? -lapilli fragments consist of fine grained dark green hornblende. They are sheared, elongated to irregular and angular in shape and generally <1cm in diameter -the schistosity is fairly consistent at 45 deg to CA # 33.20 « S2 45° » -unit lower contact sharp at 40 deg to CA		-weak pervasive ankerite? veinlets	-nil to trace disseminated pyrite	-RQD's 80%
34.10 TO 36.91	«3,a,*t» Gt-Hbl-Bi- Qt-Fel Schist	WEAKLY GARNETIFEROUS HORNBLLENDE-BIOTITE-QUARTZ-FELDSPAR SCHIST (intermediate ash to lapilli tuff) -fine grained massive to weakly schistose dark grey weakly garnetiferous hornblende-biotite-quartz-feldspar schist -unit consists of 70% quartz-feldspar, 20% biotite, <5% hornblende and <5% garnets		-nil alteration	-trace disseminated pyrite and pyrrhotite	-RQD's 90-95%

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
36.91 TO 42.94	<2,b,*t> Bi-Qt-Fel- Hbl Schist	<p>-garnets are only present from 35.30-36.91</p> <p>-garnets (almandine) are light pink-red, elliptical and 2-4mm by <2-3mm</p> <p>-unit is cut by numerous thin (<1mm) wispy white to cream colored quartz-ankerite? veinlets</p> <p>-unit lower contact sharp at 30 deg to CA</p> <p>BIOTITE-QUARTZ-FELDSPAR-HORNBLLENDE SCHIST (mafic lapilli tuff or intrusive)</p> <p>-medium grained dark grey-green moderately schistose biotite-quartz-feldspar-hornblende schist</p> <p>-unit consists of 25-45% angular fragments of hornblende and 5-25% biotite in a matrix (50%) of fine grained light grey quartz-feldspar</p> <p>-the mafic (hornblende) fragments are <2-4mm in diameter</p> <p>-the biotite content varies considerably within the unit, from biotite-rich areas (5-10cm widths) to weakly biotitic</p> <p>-unit is periodically cut by thin (<4mm) white quartz veins trending 45 deg to CA and haphazard white to creamy quartz-ankerite? veinlets</p> <p>-unit lower contact gradational</p>		-nil alteration	-nil to trace disseminated pyrite and pyrrhotite	-RQD's 90-95%
42.94 TO 49.20	<2,a,*t> Bi-Qt-Fel- Hbl Schist	<p>BIOTITIC QUARTZ-FELDSPAR-HORNBLLENDE SCHIST (mafic ash tuff)</p> <p>-fine grained massive to weakly schistose dark grey-green biotitic quartz-feldspar-hornblende schist</p> <p>-as above in 36.91-42.94 but this section is much finer grained and thinly laminated (ash tuff)</p> <p>-the schistosity or laminations are</p>		-nil alteration	-nil sulphide	-RQD's 90-95%

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
49.20 TO 50.69	«3,a,*t» Gt-Hbl-Bi- Qt-Fel Schist	<p>consistently trending 45 deg to CA</p> <p>44.60° «S0 45°»</p> <p>-unit is occasionally cut by thick (4-6cm) barren white quartz-calcite veins trending 60-65 deg to CA</p> <p>-unit lower contact sharp at 40 deg to CA</p> <p>WEAKLY GARNETIFEROUS HORNBLende-BIOTITE-QUARTZ-FELDSPAR SCHIST (intermediate ash tuff)</p> <p>-fine grained massive to weakly schistose light grey weakly garnetiferous hornblende-biotite-quartz-feldspar schist</p> <p>-unit consists of 70% quartz-feldspar, 25% biotite, <3% garnet and <2% hornblende</p> <p>49.64-49.87 Weakly sericitic and ankeritic? breccia zone. Upper and lower contacts sharp at 50 deg to CA</p> <p>-garnets (almandine) are pink-red, rounded to elliptical and <1-2mm in diameter</p> <p>-unit lower contact sharp at 40 deg to CA</p>		-weak pervasive calcite and ankerite?	-nil sulphide	-RQD's 90%
50.69 TO 53.40	«2,b,*t» Bi-Qt-Fel- Hbl Schist	<p>BIOTITE-QUARTZ-FELDSPAR-HORNBLende SCHIST (mafic lapilli tuff or intrusive)</p> <p>-as above in 36.91-42.94</p> <p>-unit is periodically cut by thin (<2cm) barren white quartz-calcite veins and frequently cut by thin (<1mm) haphazard white to cream colored quartz-ankerite veinlets</p> <p>53.05-53.20 15cm of lost core</p> <p>-unit lower contact sharp at 45 deg to CA</p>		-weak pervasive calcite and moderate ankerite?	-nil to trace disseminated pyrite and pyrrhotite	-RQD's 85%-90%

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
53.40 TO 99.59	«3,a,*t» Hbl-Bi-Qt- Fel Schist	<p>HORNBLLENDE-BIOTITE-QUARTZ-FELDSPAR SCHIST (intermediate ash to lapilli tuff)</p> <p>-fine grained medium to dark grey massive to strongly schistose to thinly banded strongly silicified and weakly garnetiferous hornblende-biotite-quartz-feldspar schist</p> <p>-unit consists of alternating thin to thick (<1cm-3-4cm) bands of fine grained dark green biotite(<5%)-quartz(25%)-feldspar(25%)-hornblende(45%)and fine grained dark grey biotite(20%)-quartz(40%)-feldspar(40%)</p> <p>-banding trends 45 deg to CA throughout most of the unit</p> <p> 77.80 « S2 45° » 86.50 « S2 45° »</p> <p>-contacts between the bands are sharp</p> <p>53.40-60.89 Section is strongly silicified due to pervasive haphazard creamy white quartz-ankerite? veinlets and white barren quartz veins and veinlets trending 45 deg to CA. Some of the more pervasive zones consist of creamy quartz-akerite? breccia. This section also locally contains <5% rounded to elliptical pink-red almandine garnet that are from <2mm to up to 7mm in diameter. Lower contact gradational.</p> <p>64.67-65.41 Fine grained dark grey-green biotite-quartz-feldspar-hornblende schist (mafic ash to lapilli tuff). Upper contact sharp at 45 deg to CA. Lower contact gradational.</p> <p>69.50-73.08 Fine grained dark grey-green quartz-feldspar-biotite (hbl altered to bi?) schist (mafic ash tuff). Upper and lower contacts sharp at 45 and 50 deg to CA.</p> <p>73.65-75.10 Fine to medium grained dark grey-green quartz-feldspar-biotite-hornblende schist (mafic lapilli tuff). Mafic fragments consist of hornblende and biotite. They are</p>		<p>-locally pervasive creamy white-yellow quartz-ankerite?-sericite? veinlets</p> <p>-strong pervasive silicification due to creamy white quartz-ankerite veinlets and white barren quartz veins and veinlets</p> <p>-nil alteration</p> <p>-hornblende altered to biotite?</p> <p>-nil alteration</p>	<p>-trace disseminated pyrite</p> <p>-trace disseminated pyrite</p> <p>-trace disseminated pyrite</p> <p>-trace disseminated pyrite</p>	<p>-RQD's 90%</p>

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		angular and irregular in shape and <2-3mm in diameter. Upper contact masked by a patch of creamy white quartz-ankerite? Lower contact gradational.				
		-throughout the unit there are thin to thick (<5-40cm) zones of haphazard cream-yellowish-white quartz-ankerite?-sericite? veinlets				
		-unit is also frequently cut by thin (<3mm) white quartz-calcite veins and veinlets trending 40-60 deg to CA				
		76.27-76.51 Quartz-calcite-ankerite? breccia zone. Upper and lower contact sharp at 50 deg to CA. Section consists of brecciated fragments of the biotite-quartz-feldspar schist in a creamy white quartz-calcite-ankerite matrix		-strong pervasive calcite and weak pervasive ankerite?	-trace disseminated pyrite	
		94.96-95.23 Fine grained massive dark grey-green biotite-quartz-feldspar-hornblende schist (mafic dyke?). Upper and lower contacts sharp at 45 deg to CA.		-nil alteration	-trace disseminated pyrite	
		-unit lower contact sharp at 40 deg to CA				
99.59 TO 101.04	«5,g,E,F,*f » Qt-Fel Schist	LOCALLY GRAPHITIC CHERTY QUARTZ-FELDSPATHIC SCHIST (greywacke? or felsic ash tuff?)		-locally cherty	-trace to locally 1-2% disseminated pyrite and trace to 1% fracture controlled sphalerite?	-RQD's 90%
		-fine grained light to dark grey thickly laminated (<1-2cm) locally graphitic cherty quartz-feldspathic schist (greywacke? or felsic ash tuff?)				
		-unit consists of alternating light grey to dark grey layers of fine grained quartz-feldspathic material and very fine grained white-grey chert				
		100.50 «- S0 40-50° »				
		99.59-100.00 Fine grained dark grey-black thin to thickly laminated to locally brecciated graphitic argillite. Section is highly broken with very strong slickenslides on fracture surfaces. Lower contact sharp at 45 deg to CA.		-locally cherty	-1-2% disseminated pyrite and trace to 1% fracture controlled sphalerite?	-locally strongly conductive

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
101.04 TO 118.28	«2,a,*t» Qt-Fel-Hbl Schist	<p>-unit lower contact sharp at 50 deg to CA</p> <p>QUARTZ-FELDSPAR-HORNBLENDE SCHIST (mafic tuff to lapilli tuff)</p> <p>-fine grained dark green-grey moderate to strongly schistose quartz-feldspar-hornblende schist</p> <p>-unit consists of fine grained crystals of black hornblende in a fine grained light grey quartz-feldspar matrix</p> <p>-the hornblende crystals tend to collect along shear planes and appear stretched</p> <p>-unit is periodically cut by thin to thick (<1cm-5cm) white-green quartz-epidote veins trending 40-60 deg to CA.</p>			-nil to trace disseminated pyrite	-RQD's 90%
		101.26-106.50 Fine to medium grained massive dark grey strongly magnetic diabase dyke. Ophitic texture is observed in the coarser grained sections. Upper contact sharp but not chilled at 40 deg to CA. Lower contact crushed.		-strong pervasive silicification	-nil sulphide	-RQD's 50%
		106.50-106.69 Thinly banded cherty sulphide facies iron formation. Section consists of alternating bands of very fine grained white chert with cherty quartz-feldspar. Lower contact sharp at 60 deg to CA		-locally strong pervasive chert	-section is host to 2-3% fracture controlled dark red-brown mineral (sphalerite?) and 2-3% disseminated to fracture controlled pyrite and 2-3% disseminated to fracture controlled pyrrhotite	
		115.20-115.33 Fine grained massive dark green-black biotite-quartz-feldspar-hornblende schist (mafic dyke). Upper and lower contacts sharp at 45 and 40 deg to CA, respectively.		-nil alteration	-nil to trace disseminated pyrite	
		115.63-116.23 Fine grained massive dark brown-green biotite-quartz-feldspar-hornblende schist (mafic dyke). Section has a brecciated appearance due to biotite-rich breccia-like fragments (selective alteration phenonema?). These "fragments" can be >4cm in length and 2-3cm in width. Upper and lower contact sharp at 30 and 55 deg to CA, respectively.		-nil alteration	-nil to trace disseminated pyrite	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
123.43 TO 162.00	«10,a,b»	<p>STRONGLY MAGNETIC DIABASE</p> <p>-fine to medium grained massive dark grey strongly magnetic diabase</p> <p>-unit consists of pyroxene (45%), feldspar laths (45%) and magnetite grains (10%)</p> <p>-ophitic texture present</p> <p>-magnetite grains are rounded and <1-2mm in diameter</p> <p>-unit is finer grained towards upper contact</p> <p>159.15-159.45 30cm of lost core</p> <p>160.36-162.00 Diabase becomes finer grained down hole (fine grained mafic volcanic?) and is non-magnetic</p>		-nil alteration	-nil sulphide	-RQD's 90%
162.00 TO 162.00	«E.O.H.»					-23 BQ core boxes

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
AV00958	34.10	36.91	2.81																					3,a,*t		
AV00959	36.91	39.91	3.00																					2,b,*t		
AV00960	42.94	45.94	3.00																					2,a,*t		
AV00961	69.50	72.50	3.00																					2,a,*t		
AV00962	78.00	81.00	3.00																					3,a,*t		
AV00963	102.00	105.00	3.00																					10,a,b		
AV00964	111.00	114.00	3.00																					2,a,*t		
AV00965	118.95	121.63	2.68																					3,a,*t		
AV00966	121.63	123.43	1.80																					5,<SIF>		
AV00967	126.00	129.00	3.00																					10,a,b		
AV00968	156.00	159.00	3.00																					10,a,b		

Sample	From (M)	To (M)	Leng. (M)	RB PPM	SR PPM	CO2 %	AG PPM	AU PPB	CO PPM	PB PPM	S PPM	V PPM	AS PPM	SN PPM	CD PPM	SB PPM	BI PPM	SE PPM	HF PPM	TA PPM	W PPM	MO PPM	TH PPM	U PPM	B PPM	CS PPM	LA PPM	CE PPM	ND PPM			
AV00958	34.10	36.91	2.81																													
AV00959	36.91	39.91	3.00																													
AV00960	42.94	45.94	3.00																													
AV00961	69.50	72.50	3.00																													
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AV00966	121.63	123.43	1.80																													
AV00967	126.00	129.00	3.00																													
AV00968	156.00	159.00	3.00																													

Sample	From (M)	To (M)	Leng. (M)	SM PPM	EU PPM	GD PPM	DY PPM	ER PPM	LU PPM	OS PPB	IR PPB	RU PPB	RH PPB	PT PPB	PD PPB	LI PPM	BE PPM	MN PPM	GA PPM	GE PPM	IN PPM	TL PPM	SC PPM	BR PPM	MGO#	CA/AL	NI/MGO	ISHIKW	ZN/NA2		
AV00958	34.10	36.91	2.81																												
AV00959	36.91	39.91	3.00																												
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AV00962	78.00	81.00	3.00																												
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AV00964	111.00	114.00	3.00																												
AV00965	118.95	121.63	2.68																												
AV00966	121.63	123.43	1.80																												
AV00967	126.00	129.00	3.00																												
AV00968	156.00	159.00	3.00																												

Sample	From (M)	To (M)	Leng. (M)	YB PPM	NB PPM	HG PPB
AV00958	34.10	36.91	2.81			
AV00959	36.91	39.91	3.00			
AV00960	42.94	45.94	3.00			
AV00961	69.50	72.50	3.00			
AV00962	78.00	81.00	3.00			
AV00963	102.00	105.00	3.00			
AV00964	111.00	114.00	3.00			
AV00965	118.95	121.63	2.68			
AV00966	121.63	123.43	1.80			
AV00967	126.00	129.00	3.00			
AV00968	156.00	159.00	3.00			



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)

W0160.00057
Assessment Files Research Imaging



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Section 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, assessment work and correspond with the mining land holder. Questions about this form go to the Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario N2G 1N6.

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)

Name	Falconbridge Limited	Client Number	130679
Address	Suite 1200 - 95 Wellington Street West	Telephone Number	(416) 956-5700
	Toronto, Ontario, M5H 2V4	Fax Number	(416) 956-5757
Name	Falconbridge Limited (Field Office)	Client Number	
Address	P.O. Box 1140, Kidd Creek Minesite Timmins, Ontario, P4N 7H9	Telephone Number	(705) 264-5200
		Fax Number	(705) 267-8874

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

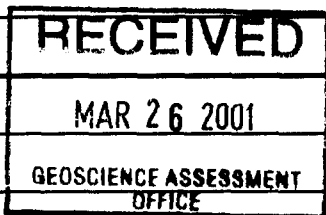
Work Type	Diamond Drilling - 1 hole (162.00m total) CAS78-01	Office Use	
		Commodity	
		Total \$ Value of Work Claimed	9894
Dates Work Performed	From Day 23 Month Feb Year 2001 To Day 28 Month Feb Year 2001	NTS Reference	
Global Positioning System Data (if available)	Township/Area Casselman	Mining Division	Porcupine
5444116N 406296E	M or G-Plan Number G-0882	Resident Geologist District	Timmins

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.

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

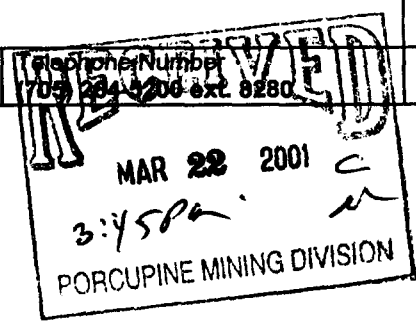
Name	David B. Stevenson - Falconbridge Limited	Telephone Number	(705) 264-5200 ext. 8232
Address	P.O. Box 1140, Kidd Creek Minesite, Timmins, Ontario, P4N 7H9	Fax Number	(705) 267-8874
Name		Telephone Number	
Address		Fax Number	
Name		Telephone Number	
Address		Fax Number	



4. Certification by Recorded Holder or Agent

I, **Normand Dupras**, 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	Date	March 22, 2001
Agent's Address	Telephone Number	Fax Number
P.O. Box 1140, Kidd Creek Minesite, Timmins, Ontario, P4N 7H9	(705) 264-5200 ext. 8232	(705) 267-8874



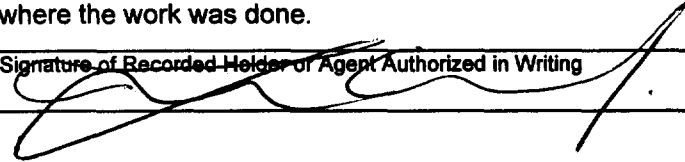
5. **Work to be recorded and distributed.** Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

(001100 00057

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
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
1 P1226732	16	\$9,894	\$5,653	\$2,678	\$1,563
2 P1226731	16	\$0	\$2,678	\$0	\$0
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals	32	\$9,894	\$8,331	\$2,678	\$1,563

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I, **Normand Dupras**, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing  Date **March 22, 2001**

6. **Instruction for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp

RECEIVED
MAR 26 2001
GEOSCIENCE ASSESSMENT OFFICE

0241 (03/97)

Deemed Approved Date	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	

RECEIVED
MAR 22 2001
3:45 PM
PORCUPINE



Statement of Costs for Assessment Credit

Transaction Number (office use)

W0160.00057

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.

Table with 4 columns: Work Type, Units of work, Cost Per Unit of work, Total Cost. Rows include Diamond Drilling, Geological Supervision, Assays, Associated Costs (e.g. supplies, mobilization and demobilization), Core box lids, Reporting, Transportation Costs, Food and Lodging Costs, and Total Value of Assessment Work.

MAR 22 2001 3:45 PM PORCUPINE MINING DIVISION

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.

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.

Certification verifying costs:

I, Normand Dupras, 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 Regional Geologist I am authorized to make this certification.

RECEIVED MAR 26 2001 GEOSCIENCE ASSESSMENT OFFICE

Signature [Handwritten Signature] Date March 22, 2001

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

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

April 12, 2001

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

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

Dear Sir or Madam:

Submission Number: 2.21029

Status

Subject: Transaction Number(s): W0160.00057 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 LUCILLE JEROME by e-mail at lucille.jerome@ndm.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,



ORIGINAL SIGNED BY
Lucille Jerome
Acting Supervisor, Geoscience Assessment Office
Mining Lands Section

Work Report Assessment Results

Submission Number: 2.21029

Date Correspondence Sent: April 12, 2001

Assessor: LUCILLE JEROME

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W0160.00057	1226732	CASSELMAN	Approval	April 12, 2001

Section:
16 Drilling PDRILL

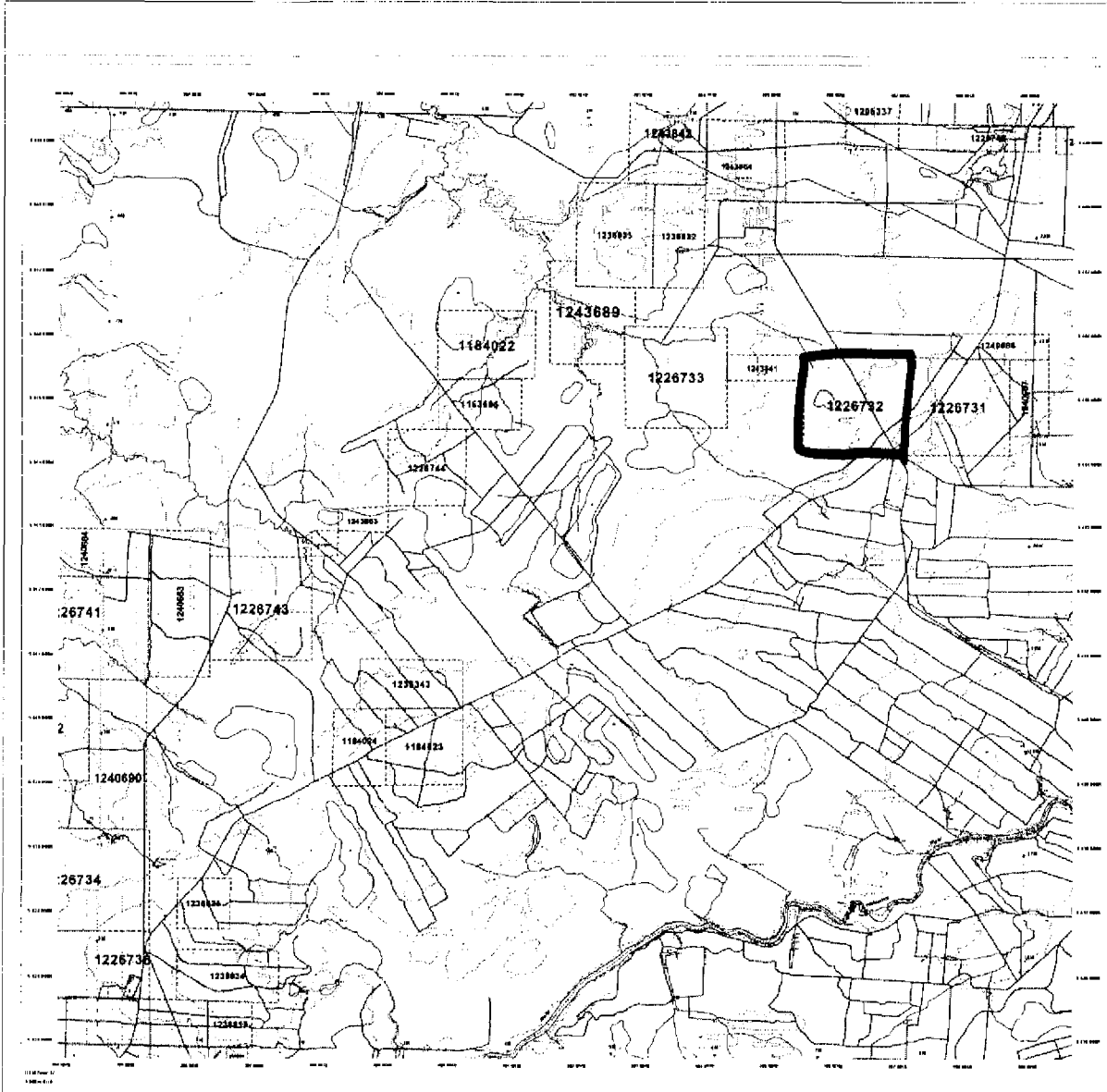
Correspondence to:
Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):
Normand Dupras
TIMMINS, ON

FALCONBRIDGE LIMITED
TORONTO, ONTARIO

2.21029
PDRILL



MINING LAND TENURE MAP

Date/Time of Issue: Apr 12 2001 09:56h Eastern
 TOWNSHIP / AREA: PLAN
 CASSELMAN: G-0862

ADMINISTRATIVE DISTRICTS / DIVISIONS
 Mining Division: Porcupine
 Land Titles/Registry Division: COCHRANE
 Ministry of Natural Resources District: HEARST

TOPOGRAPHIC

LAND TENURE

LAND TENURE WITHDRAWALS

IMPORTANT NOTICES

LAND TENURE WITHDRAWAL DESCRIPTIONS

WTD No.	Area	Area	Description
1226732	1226732	1226732	1226732

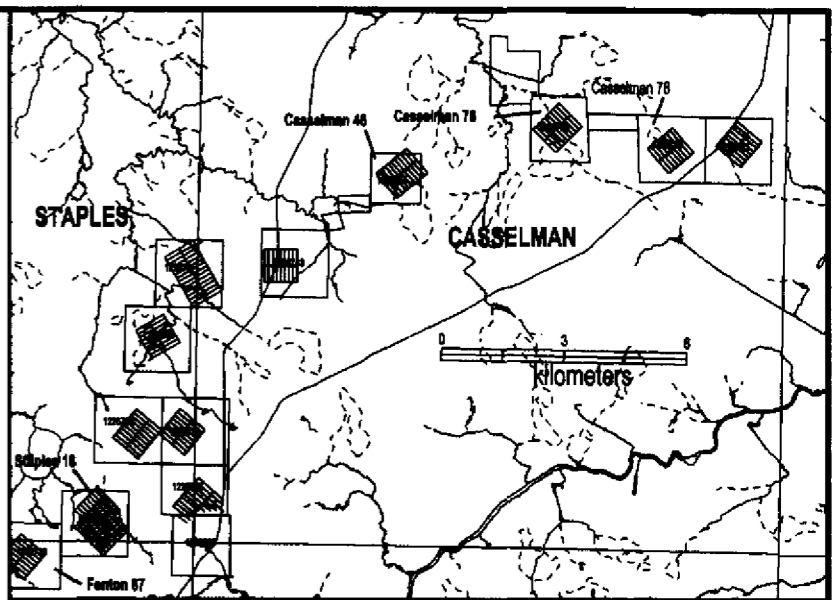
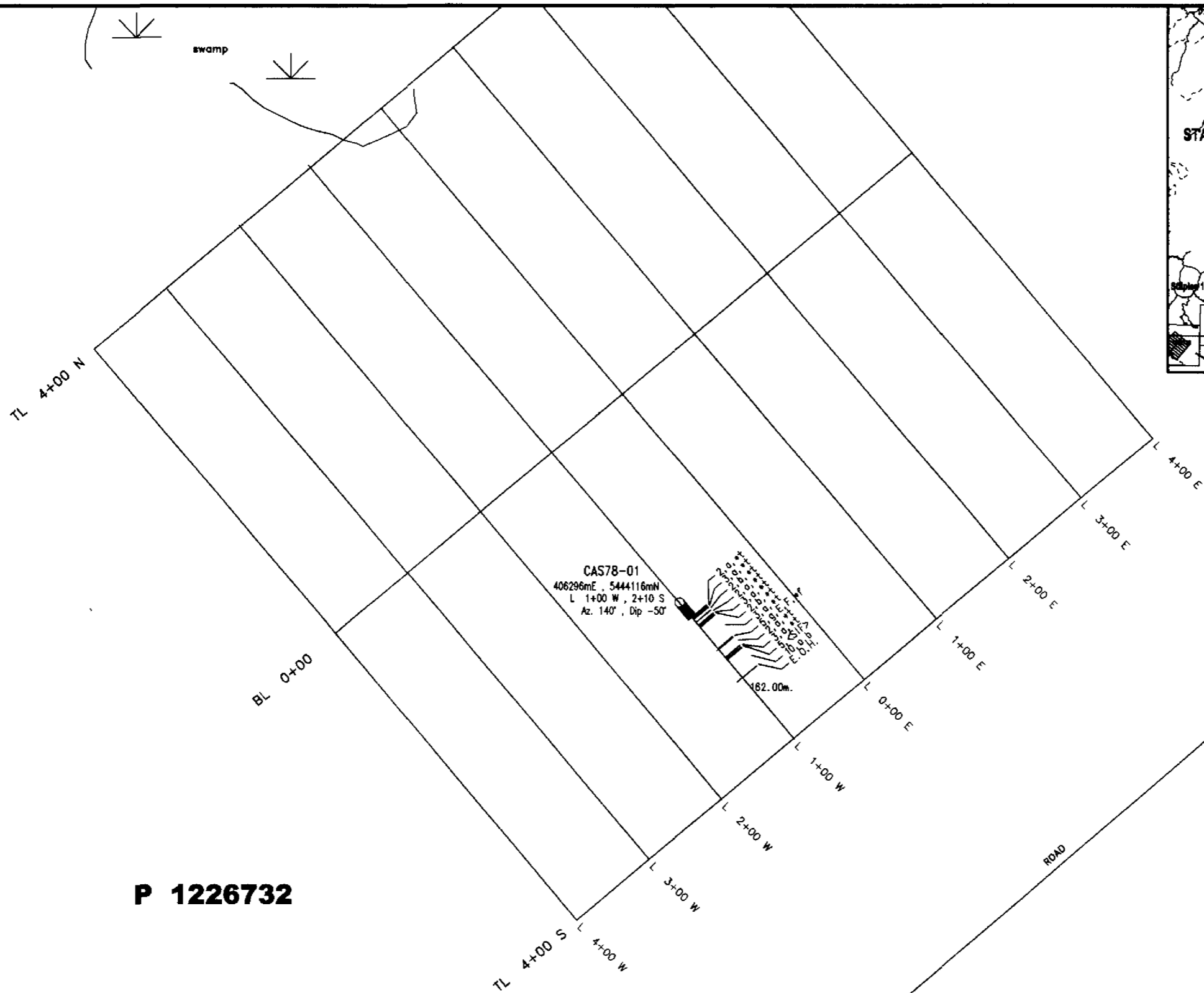
IMPORTANT NOTICES

PLEASE READ THESE NOTICES CAREFULLY. THEY CONTAIN IMPORTANT INFORMATION THAT MAY AFFECT YOUR INTERESTS IN THE LAND SHOWN ON THIS MAP.

General Information and Limitations

This map is a planimetric map of the land tenure shown on the map. It does not show the topography of the land. The map is a planimetric map of the land tenure shown on the map. It does not show the topography of the land. The map is a planimetric map of the land tenure shown on the map. It does not show the topography of the land.





P 1226732

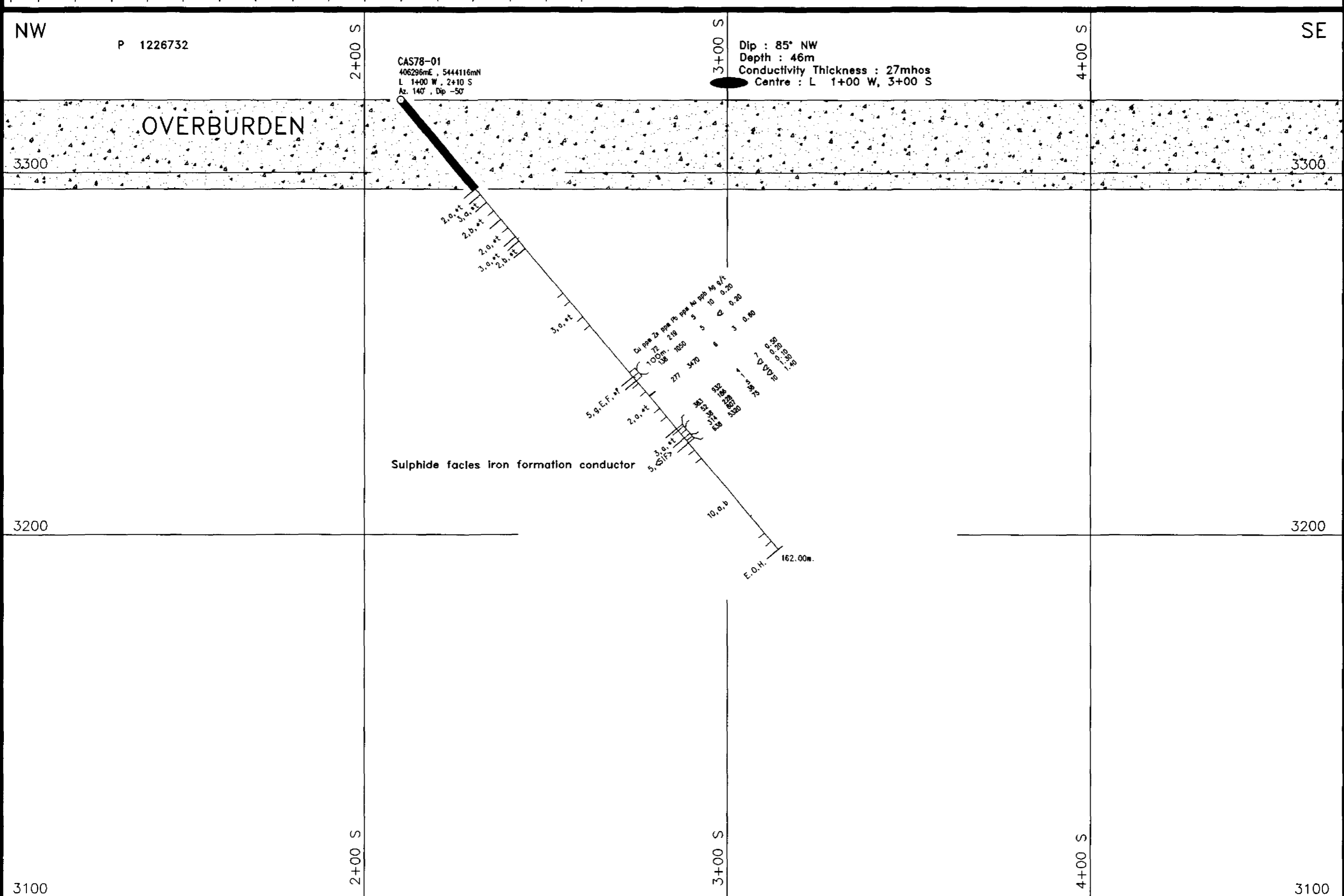
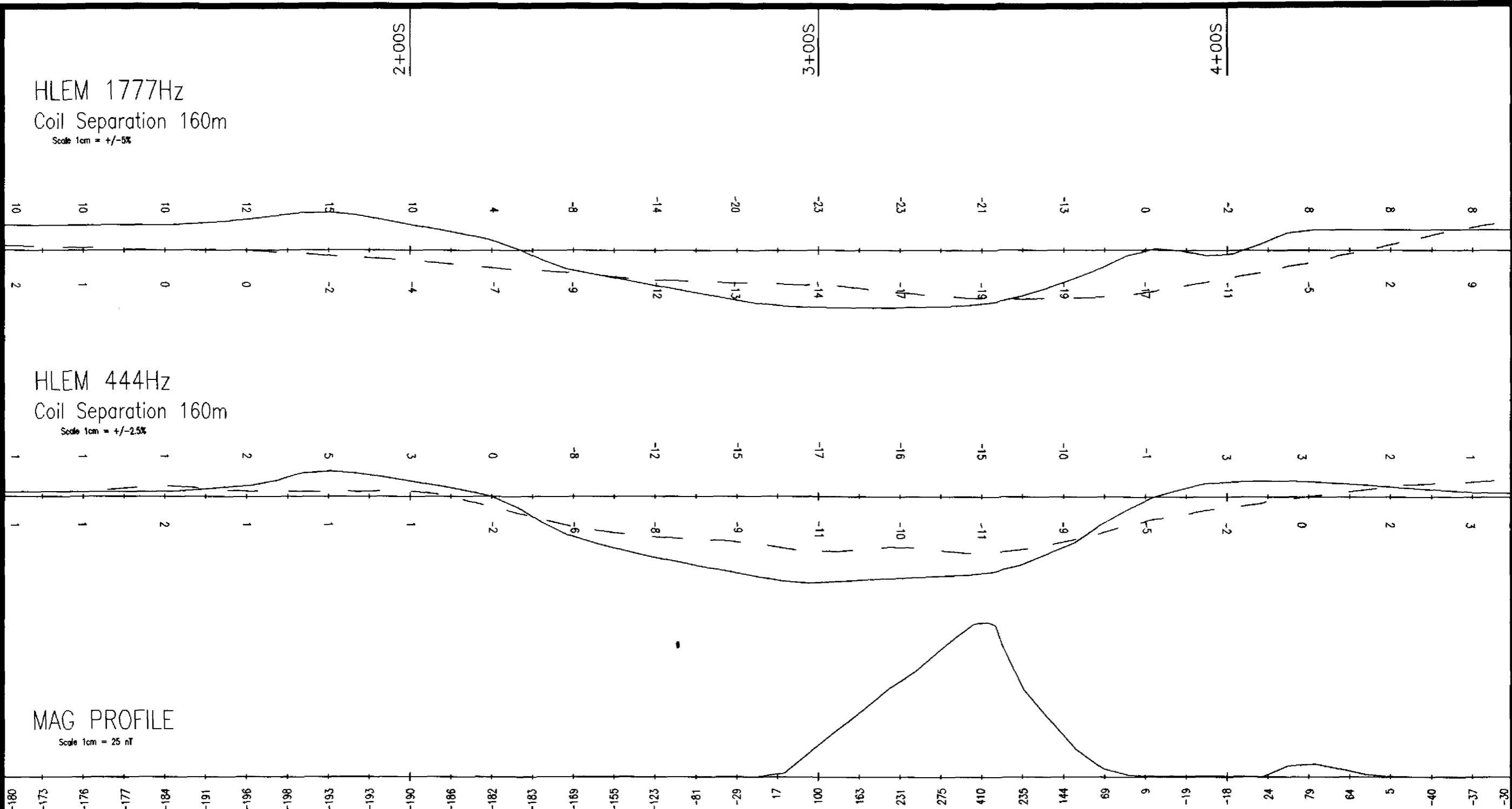
P 1226731



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FALCONBRIDGE LIMITED		
Exploration Division	Timmins ONTARIO	
SAGANASH PROJECT CASSELMAN TOWNSHIP		
DIAMOND DRILL PLAN CAS78-01		
TRACED: Prodee	DATE: 17/03/2001	NTS: 42-G/01
DRAWN: del DRAFTING	DATE: 19/03/2001	MAP No: FILE: CAS7801
SUPERVISED: D Stevenson	DATE: 16/03/2001	SCALE 1:5 000 (metres)
REVISED: DATE:		





LEGEND

- | | | | |
|----|------------------------------|---|-----------------------------|
| 10 | DIABASE | 5 | SEDIMENTARY ROCKS |
| 9 | FELSIC INTRUSIVE ROCKS | 4 | FELSIC VOLCANIC ROCKS |
| 8 | INTERMEDIATE INTRUSIVE ROCKS | 3 | INTERMEDIATE VOLCANIC ROCKS |
| 7 | MAFIC INTRUSIVE ROCKS | 2 | MAFIC VOLCANIC ROCKS |
| 6 | ULTRAMAFIC INTRUSIVE ROCKS | 1 | ULTRAMAFIC VOLCANIC ROCKS |

SAGANASH PROJECT ASSAY TABLE CAS78-01															
SAMPL. No.	FROM (M)	TO (M)	Int (M)	Cu ppm	Zn ppm	Pb ppm	Ni ppm	Au ppb	Ag ppb	Est. Ni %	Est. Po %	Est. Py %	Est. Sp %	Est. Qz %	ROCK T
AV00771	98.00	99.50	1.672	219	5	58	10	0.2		tr					3, e, wt
AV00772	99.50	101.04	1.5138	1050	5	49	<2	0.2		1-2					5, g, E.
AV00773	106.50	106.89	0.2277	3470	8	81	3	0.6		2-3					5, <SIF
AV00774	118.28	118.28	0.7383	832	4	56	7	0.5		1-3					5, <SIF
AV00775	120.13	121.82	1.62	186	1	38	<2	0.2		tr					3, e, wt
AV00776	120.13	121.83	1.538	228	5	33	<2	0.1		tr-1					3, e, wt
AV00777	121.83	122.63	1.0514	807	38	65	<2	1.3		2-5					5, <SIF
AV00778	122.63	123.43	0.8838	5320	75	40	10	1.4		2-3					5, <SIF

FALCONBRIDGE LIMITED

Exploration Division Timmins ONTARIO

SAGANASH PROJECT
GRID 98CAS78

LOOKING Az 140° CASSELMAN Twp.

DRILL SECTION LOOKING NORTHEAST
DDH CAS78-01

TRACED: PRODES DATE: 17/03/2001 WTS: 42-0/01 PROJECT: 281

DRAWN: del DRAFTING DATE: 17/03/2001 MAP No: FILE: CAS7801

SUPERVISED: D Stevenson DATE: 18/03/2001 SCALE 1:1 000 (metres)

REVISED: DATE: SCALE 0 10 20 30 40