

G E O L O G

F O R M A T -- I

EDIT LISTING

ARCHER CATHRO AND ASSOCIATES LTD.

WERNECKE JOINT VENTURE IGOR PROP

FORMAT VERSION : 6B02

GEOLOGGED BY : WDE +
DATE DY/MON/YR 08/JUL/80
PROJECT NUMBER WJV

[illegible]

	0.00	6.40	6.40	OVER															
	6.40	22.86	16.46	BRPQ	MU	CB	9A4	BR	FL	17	68	12	FL	55	P2	<1	P4	D+ D*	GO 74
L				HB2	7T	7R2			31	FC	2						P4 P4	MG	JA
R	6.40	36.58		ROCKS ARE REMARKABLY UNIFORM OVER THE LENGTH OF THE INTERVAL.															
R	6.40	36.58		MG OCCURS AS EUHEDRAL CRYSTALS 0.1-1M IN DIAMETER. CB OCCURS IN															
R	6.40	36.58		IRREGULAR MASSES BUT APPEARS TO BE THE MATRIX. THE LIGHT GREY															
R	6.40	36.58		PELITE FRAGMENTS ARE STRONGLY FOLIATED AND WHISPY. QUARTZITE															
R	6.40	36.58		FRAGMENTS ARE COMPACT AND OFTEN SLIGHTLY LARGER. FOLIATION IS															
R	6.40	36.58		PERVASIVE AND RELATIVELY UNIFORM. PY GRAINS ARE ALSO EUHEDRAL															
R	6.40	36.58		AND AVERAGE 2MM IN DIAMETER (PYRITOHEDRONS).															
/	22.86	23.80	.94	X BRPQ	MG	MU	9A4	BR	FL	17	68	12	FL	55	P2	<1	P3	D2 D*	GO 74
L				HB2	7TCB	7R2			31	FC	2						P3 P4	MG	JA
R	22.86	23.80		MG IS PREDOMINANTLY IN THE MATRIX AS EUHEDRAL, 1-3MM CRYSTALS.															
R	22.86	23.80		A FEW FRAGMENTS CONTAIN UPTO 50% MG XTALS.															
/	23.80	36.58	12.78	BRPQ	MU	CB	9A4	BR	FL	17	68	12	FL	55	P2	<1	P4	D+ D*	GO 74
L				HB2	7T	7R2			31	FC	2						P4 P4	MG	JA
/	36.58	43.59	7.01	BRPQ	MU	CB	9A4	BR	FL	17	68	2	FL	55	P2	<1	P4	D+ D*	74
L				HB2	7T	7R2			31	FC	2						P4 P4	MG	

DRILLHOLE/TRAVERSE --- 80CH014 --- (CONTINUED)

K	FLG	F.R.O.M	T..0	I.N..T	RECOV	MF	X	ROCK	TM	TM	QM1	TX	TX	--	XM	FRX	1	ID	S	AZM	T	DP	B	QZ	CL	CB	C2	AB	XX	HX	PY	UR	YY	BM	ZI	
					R.Q.D			R.U	DE	PV	COLOR	QM2	TX	TX	SR	SO	SML	2	ID	P	AZM	B	PL	2	FL	BA	C1	C3	MU	HA	H:	CP		HA	12	12
/		43.59	50.14	6.55			X	BRPG	MU	CB	9A4	BR	FL	17	68	2	FL						45	P2	<	P4		P1		D=	D)			74		
L						HB2		7T		8T3			31	FC	2												P4	P3		M6						
R		43.59	50.14																																	
R		43.59	50.14																																	
/		50.14	52.00	1.86			X	BRPG	MU	CB	9A4	BR	FL	17	68	13	FL						55	P2	<*	P4				00	D*			83		
L						HB2		7T		8T3			31	FC	31												P4	P4		00						
/		52.00	57.42	5.42			X	BRPG	MU	CB	9A4	BR	FL	17	68	1	FL						55	P2	<	P4				D.	D)			84		
L						HB2		7T		8T2			31	FC	1												P4	P4		MG						
L						HB2		7T		8T2			31	FC	1												P4	P4		MG						
/		57.42	58.83	1.41			X	BRPG	MU	CB	9A4	BR	FL	17	68	1	FL						55	P2	<	P4				D.	D1			84		
/		58.83	59.44	.61			X	BRPG	MU	CB	9A4	BR	FL	17	68	1	FL						55	P2	<	P4				D.	D)			84		
L						HB2		7T		8T2			31	FC	1												P4	P4		MG						
/		59.44	69.86	10.42				BRPE	MU	CB	9T5	BR	FL	07	68	24	FL						55	P=	>*	P4	P2				D)			92		
L						HB2				9A4			31	FC	32													<)	P2	P6						
R		59.44	84.58																																	
/		69.86	72.09	2.23			X	BRPE	MU	CB	6T6	BR	FL	09	69	22	FL						55	P2	>*	P4	P2				D1			74		
L						HB2			PY	9A4			11	FC	22													P+	P2	P3	D=					
R		69.86	72.09																																	
R		69.86	72.09																																	
R		69.86	72.09																																	
R		69.86	72.09																																	
/		72.09	73.37	1.28				BRPE	MU	CB	9T5	BR	FL	07	68	24	FL						55	P=	>*	P4	P2				D)			92		
L						HB2				9A4			31	FC	32														<)	P2	P6					
/		73.37	73.70	.33			X	BRPE	MU	CB	9T5	BR	FL	07	68	24	FL						55	P=	>*	P4	P2				D1			92		
L						HB2				9A4			31	FC	32														<)	P2	P6	D1				
R		73.37	73.70																																	
R		73.37	73.70																																	
/		73.70	78.55	4.85				BRPE	MU	CB	9T5	BR	FL	07	68	24	FL						55	P=	>*	P4	P2				D)			92		
L						HB2				9A4			31	FC	32															<)	P2	P6				
/		78.55	78.64	.09			X	BRPE	MU	CB	9T5	BR	FL	07	68	24	FL						55	P4	>*	P3	P1				D2			92		
L						HB2				9A4			31	FC	32															<)	P2	P2				

PREDOMINENTLY QUARTZ FRAGMENTS CONTAINING 10% MG AND 10% CB ARE

COMMON.

CB IN MATRIX OCCASIONALLY OCCURS AS AUGENS.

PY AND CP OCCUR BOTH IN THE QZ-CB MATRIX AND IN FRAGMENTS

CONTAINING UPTO 50% SULPHIDES WHICH ARE UPTO 10CM ACROSS.

MAY INDICATE MORE THAN ONE EPISODE OF BRECCIATION, CU IN

ORIGINAL META-SEDS, OR PREFERENTIAL REPLACEMENT.

CP AND PY OCCUR IN BANDS IN THE MATRIX PARALLELING FOLIATION

SUGGESTING MINERALIZATION PREDATED FOLIATION

DRILLHOLE/TRVERSE --- 80CH014 --- (CONTINUED)

K	FLG	F.R.O.M	T..0	I.N.T	RECOV	MF	X	ROCK	TM	TM	GM1	TX	TX	+	XM	FRX	1	ID	S	AZM	T	DP	B	OZ	CL	CB	C2	AB	XX	HX	PY	UR	YY	BM	ZI

R 78.55 78.64

QUARTZITE FRAGMENTS COMMON, ALMOST ABSENT IN SURROUNDING

R 78.55 78.64

UNMINERALIZED ROCKS.

/ 78.64 80.77 2.13

HB2	BRPE	MU	CB	9T5	BR	FL	07	68	24	FL	55	P=	>*	P4	P2		D)	92
				9A4			31	FC	32									

/ 80.77 84.58 3.81

HB2	X BRPE	MU	CB	9T5	BR	FL	07	68	14	FL	55	P=	>*	P4	P2		D)	92
				9A4			31	FC	42									

/ 84.58 98.45 13.87

HB2	BRPQ	MU	CB	9A4	BR	FL	07	77	2	FL	55	P2	<1	P3	P2		D= D>	84
				8TMG	8T4		21	FC	2						P1	P4	MG	

R 84.58 98.45

VERY SIMILAR TO MG BEARING ROCKS AT TOP OF HOLE. CB APPEARS TO

R 84.58 98.45

BE REPLACING QUARTZITE FRAGMENTS AS THEY OFTEN HAVE ALTERATION

R 84.58 98.45

HALOS. THIS WOULD SUGGEST THAT CP-PY BEARING ROCKS MORE INTENSLY

R 84.58 98.45

ALTERED. TAN COLOURED CB-MU FRAGMENTS CONTAIN THE MOST MG; THE

R 84.58 98.45

QUARTZITE FRAGMENTS THE LEAST.

/ 98.45 101.19 2.74

HB2	BRPQ	MU	CB	9A4	BR	FL	07	77	1	FL	50	P3		P3	P1		D+ D+	74
				8TQ2	6A2		21	FC	1						P2	P4	MG	

R 98.45 102.72

QUARTZITE FRAGMENTS MORE ABUNDANT

/ 101.19 102.72 1.53

HB2	X BRPQ	MU	CB	9A4	BR	FL	07	77	1	FL	50	P2		P3	P2		D+ D+	93
				8TQ2	6A2		21	FC	1						P1	P5	MG	

R 101.19 102.72

AS EXPECTED THE LEAST COMPETANT FRAGMENTS ARE MOST PRONE TO BE

R 101.19 102.72

FOLIATED.

/ 102.72 112.17 9.45

HB2	BRPE	MU	CB	9A4	BR	FL	07	77	1	FL	45	P2		P4	P2		D= D)	84
				8TMG	8T4		21	FC	1						P2	P4	MG	

R 102.72 112.17

COMPOSITIONAL BANDING QZ VS. CB-MG IS EVIDENT IN SOME FRAGMENTS.

R 102.72 112.17

FOLIATION NOT AS STRONG AS PREVIOUSLY BUT STILL PERVASIVE.

/ 112.17 129.84 17.67

HB2	BRPQ	MU	CB	9A4	BR	FL	07	77	1	FL	45	P4		P2	P1		D. D)	84
				8T	6A2		21	FC	1						P1	P4	MG	

R 112.17 136.25

A FRAGMENT CLEARLY SHOWS FINE INTER-BEDDING OF QUARTZITE WITH

R 112.17 136.25

ARGILLITE SUGGESTING MINIMAL STRATIGRAPHIC DISPLACEMENT TO

R 112.17 136.25

JUXTOPOSE FRAGMENTS FROM THE TWO UNITS AND MAY EXPLAIN DIFFERENT

DRILLHOLE/TRAVERSE --- 80CH014 --- (CONTINUED)

K FLG F.R.O.M : T..O I.N.T RECOV MF % ROCK TH TH QM1 TX TX -+ XM FRX 1 ID S AZM T DP B QZ CL CB C2 AB XX HX PY UR YY BM. ZI

R.Q.D R.U DE PV COLOR QM2 TX TX SR SO SML 2 ID P AZM B PL 2 FL BA C1 C3 MU HA H: CP HA 12 12

R 112.17 136.25 ALTERATIONS OBSERVED IN SOME FRAGMENTS.

/ FLT	129.84	130.76	.92		X BRPG	MU	CB	9A4	BR	FL	07	77	5	FZ		50	P4	P2	P1	D. D)	84
1				HB2		BT		5A2			21	FC	5					P1	P4	MG	

R	129.84	130.76	SOME GOUGE.
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/	130.76	136.25	5.49		BRPQ	MU	CB	9A4	BR	FL	07	77	1	FL	45	P4	P2	P1	D.	D)	84
L				HB2		8T		6A2			21	FC	1					P1	P4	M6	

/	136.25	138.68	2.43		BRPQ	CL	MG	9T6	BR	FL	07	57	2	FL	40	P5	7+	P=	P=		D=	D+	65
1				HB2		8GMV	R3				22	FC	12							P4	MG		

R 136.25 141.43 CB MATRIX APPEARS TO HAVE GONE TO CL.

138.68	141.43	2.75	X BRPQ CB MG 9T6 BR FL 07 57 2	FL	40	P4 C1 P2 P=	D= D+	74
HR2	8TMY R3	22 FC 12				P1 P4	MG	

/	141.43	143.10	1.67	BRPQ	MU	PY	9A4	BR	FL	08	28	22	FL	25	P3	<(P2	P=	D=	74
1				HB2	8I	.R4				12	FC	1					V)	P1	P5	

R	141.43	154.53	MG, PY, CL CONTENTS VARY CONSIDERABLY OVER SHORT INTERVALS.
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/	143.10	149.35	6.25	X BRPQ MU PY 9A4 BR FL 07 37 23	FL	25	P3 P= P2 P=	D+ D=	64
L				HB2 BT .R4	12 FC 12		VJ P1 P5	MG	

/	149.35	154.53	5.18	X BRPQ MU PY 9A4 BR FL 08 28 22	FL	25	P3 < P2 P=	D= D=	74
				HB2	RY	84	12 EC 1	<= P1 P5	MG

/	154.53	164.35	9.82		BRPE	9T8	BR	FL	29	59	3	FL	30	P4	<	P2	P1	7)	85
				HR2	9T	BA1			12	EC	31					P=	P4		

R	154.53	165.87	A LARGE BLOCK ONLY SLIGHTLY BRECCIATED.
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/	164.35	164.41	.06	X BRPE	9T8	BR	FL	29	59	3	CN	T	65	P4	<	P2	P1	7)	85
L				MB2	9T	8A1		12	FC	31	CN	B	65		V9	P=		P4	

R	164.35	164.41	8CM VEIN OF PINK BA WITH 3MM PY SELVAGE.
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7	164.41	165.87	1.46	X BRPE	9Y8 BR FL 07 67 23	FL	30	P4	C	P2	P1	7)	85
L				HB2	9T	8A1	12 FC 21			P=	P4		

/	165.87	167.52	1.65	BRPQ	PY	CL	BT6	BR	FL	07	47	24	FL	25	P4	D=	P2	P1	72	55
1				HR2	7I		7A2			22	FC	3					<	P1	P2	D.

R	165.87	170.69	BULK OF THE PY OCCURS IN BANDS PARALLELING FOLIATION. PY FORMS
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R 165.87 170.69 MATRIX. FOLIATION NOT AS STRONG AS AT TOP OF HOLE.

/	167.52	167.55	.03	X	BRPQ	PY	CL	8T6	BR	FL	07	47	24	FL	25	P4	D=	P2	P1	73	55
L				HB2		7T		7A2			22	FC	3					<1	P1	P2	D+

R.Q.D R.U DE PV COLOR QM2 TX TX SR SO SML 2 ID P AZM B PL 2 FL BA C1 C3 MU HA H: CP HA 12 12

7 END