

G E O L O G

F O R M A T -- I

E D I T L I S T I N G

ARCHER CATHRO AND ASSOCIATES LTD.

WERNECKE JOINT VENTURE IGOR PROP

FORMAT VERSION : 6B02

DRILLHOLE/TRaverse 80CH018
TOTAL DEPTH/LENGTH 152.70
CORE/HOLE DIAMETER B

COLLAR ELEVATION 1230.00
NORTHING(- IF S) 3336.50
EASTING (- IF W) -97.50

AZIMUTH(LEG 1) 0.00
VERTICAL ANGLE -50.00
CO-ORD SYSTEM GRD

GEOLOGGED BY : WDE +
DATE DY/MON/YR 19/JUL/80
PROJECT NUMBER WJV

F	INTERVAL	CORE	MF X	TYPE	TEX	GRAIN	FRACS	STRUCTURES	ALT/N ASSEM	MINERALIZATION	AT	OT
K	L	(MT. 2)	RECOV	OI M ROCK	MINS	QAL	TURES	++ M	S	T D B	HA HA HA HA HA HA HA HA	LN RN
E	A		-MISS	DE I	TM TM	MIN	MAJOR	FC CA	DEN M	ID T	AZM O I D	TT ET
Y	G	F.R.O.M : T.O	I.N.T	PC.1	IR X TYPE	I 2	TX TX	X	I	K	P P. 1	QZ CL CB C2 AB XX HX PY UR YY BM ZONE
					ROC DE P		QAL TX TX	SR SO	SML %	P	B .P B	FL BA C1 C3 MU HA H: CP HA HW HOW
					R.O.D.	U- EN R	COLOR MIN MINOR	DN H/	100 M	ID L	AZM O L D	1 1
					NIT PV OV		2	RD PC	PDW 2	G	T G 2	2 2

/ 0.00 7.01 7.01 OVER

R 7.01 24.23 FRAGMENTS AND INTENSITY OF ALTERATION HIGHLY VARIABLE. FRAGMENTS

R 7.01 24.23 ARE SOMETIMES FRAGMENT SUPPORTED. LOCALLY CB-CL-HE MATRIX

R 7.01 24.23 CONTAINS ONLY A FEW FRAGMENTS AND IS WEAKLY FOLIATED SUGGESTING

R 7.01 24.23 GAS FLOW. CB IS GENERALLY IN EUBEDRAL CRYSTALS.

/ 7.01 10.67 3.66 X BRPG AB CL 7T2 BR 07 18 3 P4 P1 P2 P2 D= 15

/ 10.67 15.85 5.18 X BRPG CB CL 7T3 BR 07 18 3 FL 35 P4 P1 P3 P+ D= 25
L HB1 4G 4G2 24 CO 3 <+ P3 P2 HE

R 10.67 16.15 FOLIATION WEAK.
L HB1 4G 4G2 24 CO 3 <+ P3 P2 HE

/ 15.85 16.15 .30 X BRCL QZ 6A4 BR RP 07 27 2 P5 P3 D1 D. 16
L HB3 3G 1G1 24 CO 2 P1 HE D+

R 15.85 16.76 CL ALTERATION VERY INTENSE.

/ 16.15 16.76 .61 X BRCL QZ 6A4 BR RP 07 27 2 P5 P3 D1 D. 16
L HB3 3G 1G1 24 CO 2 P1 HE D+
L HB1 4G 7R3 24 CO 3 <+ P2 P1 HE

/ 16.76 24.23 7.47 X BRPG AB CL 7T2 BR 07 18 3 P4 P1 P2 P2 D= 15

R 24.23 31.64 PROBABLY A LARGE BLOCK OF HB2 SURROUNDED BY HB1. FOLIATION

R 24.23 31.64 STRONG BUT VARIABLE. QUARTZITE FRAGMENTS ARE AUGEN-LIKE OFTEN

DRILLHOLE/TRAVERSE --- 80CH018 --- (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	Q2	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		24.23	31.64																													
/		24.23	26.24	2.01		X BRPQ	CB AB	7A5	BR	GN	07	37	12		FL					60		82	6=	P4	P1	P2		D=	64		34	
L					HB2		7T	7T1			22	FC	11																			
R		24.23	26.24																													
R		24.23	26.24																													
/		26.24	30.02	3.78		BRPQ	CB	7A5	BR	GN	07	37	12		FL					50		P1	P=	P4	P1			D=	64		34	
L					HB2		7T	7T1			22	FC	11																			
/		30.02	30.48	.46		X BRPQ	CB	7A5	BR	GN	07	37	12		FL					50		P1	P=	P3	P1			D0	D2	MA	34	
L					HB2		7T	7T1			22	FC	11																			
R		30.02	30.66																													
/		30.48	30.66	.18		X BRPQ	CB CL	7A5	BR	GN	07	37	12		FL					30		P1	P=	P4	P1			D+ D+			34	
L					HB2		7T	7T1			22	FC	11																			
R		30.48	31.64																													
/		30.66	31.64	.98		X BRPQ	CB CL	7A5	BR	GN	07	37	12		FL					30		P1	P=	P4	P1			D+ D+			34	
L					HB2		7T	7T1			22	FC	11																			
/		31.64	32.61	.97		BRPQ	CL CB	8T5	BR		07	28	2																			
L					HB1			8A2			25	CC	2																			
R		31.64	32.61																													
R		31.64	32.61																													
R		31.64	32.61																													
/		32.61	37.19	4.58		BRCL	CL Q2	8G3	BR	RP	17	48	2																			
L					HB3		3G	4G3			22	FC	2																			
R		32.61	37.19																													
/		37.19	40.84	3.65		BRPQ	CB CL	7R2	BR		17	28			FL					30		P4	P1	P2	P+	D1		D+ D+			35	
L					HB1		4GAB	9A3			22	FC	12																			
R		37.19	52.43																													
/ VEN		40.84	41.09	.25		X BRSO	CB QZ						12		CN				B	30		P3	D)	P3					V4		55	
L					HB1		8TPY						1																			
R		40.84	41.09																													
/		41.09	45.72	4.63		BRPQ	CB CL	7R2	BR		17	28			FL					30		P4	P1	P2	P+	D1		D+ D+			35	
L					HB1		4GAB	9A3			22	FC	12																			

DRILLHOLE/TRVERSE --- 80CH018 --- (CONTINUED)

K	FLG	F.R.O.M	T.O.O	I.N.T	RECOV	MF	X	ROCK	TM	TM	QM1	TX	TX	--	XM	FRX	1	ID	S	AZM	T	DP	B	Q2	CL	CB	C2	AB	XX	HX	PY	UR	YY	BM	ZI
					R.O.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		44.20	52.12																																
R		44.20	52.12																																
/		45.72	46.94	1.22			X	BRPQ	CB	CL	7R2	BR	F/	17	28	26		FL					30	P4	P1	P2	P+	D1		D+	D+		35		
L							HB1		4GAB	9A3				22	FC	53											V.	P+	P1	P2		HE			
/		46.94	48.77	1.83				BRPQ	CB	CL	7R2	BR		17	28			FL					30	P4	P1	P2	P+	D1		D+	D+		35		
L							HB1		4GAB	9A3				22	FC	12											V.	P+	P1	P2		HE			
/		48.77	52.43	3.66			X	BRPQ	QZ	CL	8T1	BR		17	28	12		FL					30	P7	<+	P1	P+	P1		D+	D)		56		
L							HB1		4GAB	7R6				22	FC	22											V.	<)	P1	P1		HE			
R		48.77	52.43																																
/		52.43	57.91	5.48				BRPQ	CL		7A5	BR		17	47																				
L							HB3		26		7T2			22	FC																				
R		52.43	57.91																																
R		52.43	57.91																																
/		57.91	62.79	4.88				BRPQ			6A2	BR		07	18	13		FL					40	P3	>)	P2	P=	D=		D+			24		
L							HB1		5G		7R2			24	FC	21																			
R		57.91	64.47																																
/		62.79	64.40	1.61			X	BRPQ			6A2	BR	F/	07	18	36		FL					40	P3	>)	P2	P=	D=		D+			24		
L							HB1		5G		7R2			24	FC	52																			
/		64.40	64.47	.07			X	BRPQ			6A2	BR		07	18	13		FL					40	P3	>)	P2	P=	D=		D2	D+		24		
L							HB1		5G		7R2			24	FC	21																			
/		64.47	68.58	4.11				BRPQ	AB	CB	7R4	BR		06	57	3		FL					35	P3	<)	P3	P=	P3		D)	D+		66		
L							HB1		6T		7T2			33	CC	22																			
R		64.47	75.29																																
R		64.47	75.29																																
/		68.58	69.28	.70			X	BRPQ	AB	CB	7R1	BR		06	57	3		FL					35	P4	<+	P2	P=	P+		D=	D+		15		
L							HB1		3G		5A6			33	CC	22																			
/		69.28	71.32	2.04				BRPQ	AB	CB	7R4	BR		06	57	3		FL					35	P3	<)	P3	P=	P3		D)	D+		66		
L							HB1		6T		7T2			33	CC	22																			
/		71.32	72.24	.92			X	BRPQ	AB	PY	8R5	BR		06	57	3		FL					35	P3	<+	P2	P+	P3		61	6=		35		
L							HB1		5G	MG	7T2			33	CC	22																			
R		71.32	75.29																																

UNUSUAL ROCKS: IRREGULAR, SOMEWHAT CONVOLUTE, MG-PY-CB VEINS OR

DRILLHOLE/TRAVERSE --- 80CH018 --- (CONTINUED)

K	FLG	F.R.O.M	T.O	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
R		71.32	75.29																																	
R		71.32	75.29																																	
R		71.32	75.29																																	
/		72.24	75.29	3.05			X	BRPQ	AB	PY	8R5	BR		06	57	5		FL					35		P3	<+	P2	P+	P3		61	6=		35		
L							HB1		SGMA	7T2				33	CC	52											V+	V=	P1	P+		HK	V.			
/	FLT	75.29	80.71	5.42				BRCL	CL	PY		RP	FZ			26		FZ					45		D1	P7					D.	D1		03		
L							HB3		2G							52													D	1		HE				
R		75.29	80.71																																	
R		75.29	80.71																																	
/		80.71	85.34	4.63				BRPQ	AB	CB		RP	BR			25									P3	>+	P2		P4		D=	D+		56		
L							HB1		7TMG			FZ				42												V+	P2		H>					
R		80.71	85.34																																	
R		80.71	85.34																																	
/		85.34	89.31	3.97				BRPQ	MU	PY	5G3	BR		08	18	2									P3	D1	D=	D+			D=	D+		34		
L							HB1		6ACL					12	FC	2												V+		P5		HE				
R		85.34	103.69																																	
/		89.31	91.59	2.28			X	BRPQ	MU	PY	5G3	BR		08	18	2									P3	D1	D=	D+	P3		D=	D+		55		
L							HB1		6ACL					12	FC	2												V+		P2		HE				
R		89.31	91.59																																	
R		89.31	91.59																																	
R		89.31	91.59																																	
R		89.31	91.59																																	
/		91.59	92.51	.92			X	BRPQ	MU	PY	7R3	BR		08	18	2									85	<+	D=	D+			D)	6)		35		
L							HB1		6ACL	8T2				12	FC	2												V)	D+	P4		HE				
R		91.59	103.69																																	
/	FLT	92.51	92.96	.45			X	BRPQ	MU	PY	5G3	BR		08	18	13		F/					45		P3	D1	D=	D+			D=	D+		34		
L							HB1		6ACL					12	FC	3												V+		P5		HE				
/		92.96	97.54	4.58			X	BRPQ	MU	PY	7R3	BR		08	18	2									85	<+	D=	D+			D)	6)		35		
L							HB1		6ACL	8T2				12	FC	2												V)	D+	P4		HE				
L							HB1		6ACL	8T2				12	FC	2												V)	D+	P4		HE				

DRILLHOLE/TRVERSE --- 80CH018 --- (CONTINUED)

K	FLG	F.R.O.M	T.O	I.N.T	RECOV	MF	X	ROCK	TM	TM	QM1	TX	TX	--	XH	FRX	1	ID	S	AZM	T	DP	B	QZ	CL	CB	C2	AB	XX	HX	PY	UR	YY	BM	ZI	
						R.O.D		P.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
/		97.54	102.26	4.72			X	BRPQ	MU	PY	5G3	BR		08	18	2								P3	D1	D=	D+		D=	<=					25	
R		97.54	102.26																																	
R		97.54	102.26																																	
R		97.54	102.26																																	
R		97.54	102.26																																	
/		102.26	103.69	1.43			X	BRPQ	MU	PY	7R3	BR		08	18	2								85	<+	D=	D+		D)	6)				35		
L							HB1				6ACL	8T2		12	FC	2																				
/		103.69	111.25	7.56				BRPE	MU	QZ		BR	FL	18	78	2		FL				40		86	<+										85	
L							HB2				8A			22	FC	2																				
R		103.69	136.86																																	
R		103.69	136.86																																	
R		103.69	136.86																																	
R		103.69	136.86																																	
R		103.69	136.86																																	
R		103.69	136.86																																	
/		111.25	122.83	11.58			X	BRPE	MU	QZ		BR	FL	18	78	4		FL				40		86	<+										85	
L							HB2				8A			22	FC	4																				
/		122.83	125.58	2.75			X	BRPE	MU	QZ		BR	FL	18	78	4		FL				40		86	<+	<+					6.				85	
L							HB2				8A			22	FC	4																				
/	FLT	125.58	126.03	.45			X	BRPE	MU	QZ		BR	FL	18	78	4		F/				60		86	<+	<+					6.				85	
L							HB2				8A			22	FC	4																				
/		126.03	136.86	10.83			X	BRPE	MU	QZ		BR	FL	18	78	4		FL				40		86	<+	<+					6.				85	
L							HB2				8A			22	FC	4																				
R		128.17	129.69																																	
R		128.17	129.69																																	
/		136.86	138.38	1.52				BRPE				BR		18	78	24								P6	<+	<+									CC 85	
L							HB2				8T			22	FC	3																				
R		136.86	147.22																																	
R		136.86	147.22																																	

MARGIN OF PELITE BLOCK. NARROW BRECCIA BANDS CUT BLOCK. SOME
BRECCIA CONTAINS HIGHLY ROUNDED FRAGMENTS IN A CHLORITIC MATRIX.

DRILLHOLE/TRAVERSE --- 80CH018 --- (CONTINUED)

K FLG F.R.O.M : T..0 I.N.T RECOV MF % 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

R 136.86 147.22 A FEW CONTAIN CP AND PY. CP IS USUALLY IN MATRIX OF BRECCIA AND

R 136.86 147.22 IN CB VEINS IN PELITE. A FEW CP GRAINS ARE COATED WITH CC.

/ 138.38 138.84 .46 X BRPQ CP PY 9A3 BR 07 17 1 CN T 50 P5 <+ D+ D+ <+ 45
L HB1 3G 7A4 37 CC 1 D+ P4 <+/ 138.84 143.35 4.51 BRPE BR 18 78 24 P6 <+ <+ <+ CC 85
L HB2 8T 22 FC 3 <+ P4 >./ 143.35 147.22 3.87 BRPE BR 18 78 24 P6 <+ <+ <+ CC 85
L HB2 8T 22 FC 3 <+ P4 >./ 147.22 147.83 .61 BRPQ CL 7A5 BR 07 48 2 P3 P2 P2 D1 D= D= D+
L HB1 2G 6R1 13 CC 2 V) D1 P2 HE

R 147.22 152.70 MANY OF THE FRAGMENTS ARE THEMSELVES BRECCIA INDICATING AT LEAST

R 147.22 152.70 TWO PHASES OF BRECCIA. SOME BRECCIA FRAGMENTS ARE FROM THE BRPE

R 147.22 152.70 OTHERS APPEAR TO BE MORE EXOTIC.

/ 147.83 149.96 2.13 BRPQ CL 7A5 BR 07 48 2 P3 P2 P2 D1 D= D= D+
L HB1 2G 6R1 13 CC 2 V) D1 P2 HE

R 147.83 149.96 DYKE. SOME ZONED MG-CB-MG CRYSTALS.

/ 149.96 152.70 2.74 BRPQ CL 7A5 BR 07 48 2 P3 P2 P2 D1 D= D= D+
L HB1 2G 6R1 13 CC 2 V) D1 P2 HEA MIN 0.00 0.00 0.00 PPM U PPM CU PPM CO PPM AG PPB AU PPM MO CPS
A LAB 0.00 0.00 0.00 CHEMEX CHEMEX CHEMEX CHEMEX CHEMEX CHEMEX SCNTRX
A TYP 0.00 0.00 0.00 1H-COR 1H-COR 1H-COR 1H-COR 1H-COR 1H-COR IN BAG

A 001 75.29 80.71 5.42 45.0 J17433 51.0 32 164 0.1 18 58 160

R TGG 75.29 80.71 55198N01951

A 001 80.71 85.34 4.63 39.0 J17434 18.0 178 94 0.1 18 58 120

R TGG 80.71 85.34 55198N01951

A 001 97.54 102.26 4.72 100.0 J17435 28.0 126 118 0.1 28 49 150

A 001 97.54 102.26 4.72 88.0 J17436 5.5 3100 14 0.1 7 4 120

/ END