

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 : 6802

DRILLHOLE/TRVERSE 80CH022	COLLAR ELEVATION	1279.00	AZIMUTH(LEG 1)	90.00	GEOLOGGED BY : WDE +
TOTAL DEPTH/LENGTH 126.19	NORTHING(- IF S)	3600.00	VERTICAL ANGLE	-50.00	DATE DY/MON/YR 24/AUG/80
CORE/HOLE DIAMETER R	EASTING (- IF W)	-10.00	CO-ORD SYSTEM	GRD	PROJECT NUMBER WJV

F . . I N T E R V A L . . .	CORE	MF X	TYPI-	TEX-	GRAIN	FRACS	..STRUCTURES...	ALT/N ASSEM.+ MINERALIZATION.	AT	OT
K L (M T . 2)	RECOV	OI M ROCK	MINS	QAL	TUPES	-+ M	S	T D B	HA HA HA HA HA HA HA HA	LN RN
E A	-MISS	DE 1	TM TM	MIN	MAJOR	FC CA	DEN M	ID T AZM O I D		TT ET
Y G F.R.O.M : T..0	I.N.T	+PC.I	IR X TYPE	1 2	1 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 X	P	B .P B	FL BA C1 C3 MU HA H: CP	HA HW	HOW
	R.Q.D. U- EN R	COLOR	MIN MINOR	ON H/	TOD M	ID L	AZM O L D			
	NIT PV OV		2	RD PC	PDW 2	G	T G 2			

/	0.00	5.79	5.79	OVER		1		P2 7) P4 P3	D) D)	54
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/	5.79	7.32	1.53	BRCL CL HE	RP	3		P5 82	P1 P1	LI 13
L				HB3	2GPY	22		<= P1	HE	

R	5.79	7.32		WEAKLY RADIOACTIVE BUT NO OBVIOUS SOURCE, MAY BE SUPERGENE U IN						
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R	5.79	7.32		FRACTURES						
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/	7.32	9.30	1.98	BRCS HX PY	RP	4		P2 82	P3 P2	LI 24
L				HB4	2GCL	32		8= <= P1	H>	

R	7.32	12.19		CL APPEARS TO BE AFTER HE WHICH IS AFTER HG. PY ALTERS TO LI.						
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R	7.32	12.19		HE USUALLY SUBHEDRAL TO EUHEDRAL.						
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/	9.30	12.19	2.89	X BRCS HX PY	RP	4		D= 82	P5 D=	LI 44
L				HB4	8TCB	32		82 <= P1	H>	

R TGG	10.67	12.19		10281						
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/	12.19	15.24	3.05	BRPE AB HE 7R2 RP BR	06 17	3	CN	20	D= P3 P2 P4	D1 D=	74
L				HB1	8TCB	44 C0	31		P1	H>	

R	12.19	20.42		FRAGMENTS INTENSELY ALBITIZED AND CARBONITIZED. ALMOST OBSCURED						
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R	12.19	20.42		GRADES TOWARD HB2 LOCALLY DEPENDING UPON DEGREE OF ALBITIZATION.						
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R	12.19	20.42		HE FINE GRAINED SUBEUHEDRAL.						
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/	15.24	18.29	3.05	X BRPE BA HE 7R2 RP BR	06 17	24	CN	20	D= 0= P3 P2 P1	D1 D)	84
L				HB1	8TCB	44 C0	31		81 <= D= P3	H>	

DRILLHOLE/TRAVERSE --- 80CH022 --- (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	C8	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	
/	L	18.29		20.12	1.83			X	BRPE	BA	HE	7R2	RP	BR	06	17	23		CN				20		00	D=	P3	P2	00		D1	7=			64		
							HB1			8TCB					44	CO	21								83		P1	P2			H>						
R		18.29		20.42																																	
/	L	20.12		20.27	.15			X	BRPE	AB	HE	7R2	RP	BR	06	17	12		CN				20		00	00	P3	00	00		P3	D>			44		
							HB1			8TCP					44	CO	11								83	00	P3	00			HE	D=					
/	L	20.27		20.42	.15			X	BRPE	BA	HE	7R2	RP	BR	06	17	23		CN				20		00	D=	P3	P2	00		D1	7=			64		
							HB1			8TCB					44	CO	21								83		P1	P2			H>						
/	L	20.42		24.99	4.57				BRPE	AB	CB	9A3	RP	BR	06	37	12								D=		P4	P1	P2		D+	D+			85		
							HB1			BTMU					22	FC	21											P3	P3			HE					
R		20.42		24.99																																	
R		20.42		24.99																																	
/	L	24.99		28.35	3.36				BROS	AB	HX	7R3	RP				2										D2	D)	P4		D2	D=			45		
							HB4			7RCB							21											D2	D1			H>					
R		24.99		32.77																																	
/	L	28.35		30.63	2.28			X	BROS	AB	HX	7R3	RP				2										D2	D)	P4		D1	D2			55		
							HB4			7RCB							21												D2	D1			H>				
/	L	30.63		31.30	.67			X	BROS	AB	HX	7R3	RP				2										D2	P3	D)	D1		D2	D=			34	
							HB4			7RCB							21													P3	D1			H>			
/	L	31.30		32.77	1.47				BROS	AB	HX	7R3	RP				2										D2	D)	P4		D2	D=			45		
							HB4			7RCB							21													D2	D1			H>			
R		32.77		44.20																																	
/	L	32.77		34.14	1.37			X	BRPC	CB	HX	7A4	BR	RP	06	47	36								P1	P=	P3	P2	P1		P1	D+		LI	54		
							HB1			3GPY	7T2				42	CC	42												<)	P1	P3		H>	D.			
/	L	34.14		35.81	1.67				BRPC	CB	HX	7A4	BR	RP	06	47	24								P1	P=	P3	P2	P1		P1	D+		LI	54		
							HB1			3GPY	7T2				42	CC	32													<)	P1	P3		H>	D.		
/	L	35.81		37.34	1.53			X	BRPC	CB	HX	7A4	BR	RP	06	47	24								P1	P=	P3	P2	P1		P1	D+		LI	54		
							HB1			3GPY	7T2				42	CC	32													<)	P1	P3		H=	D)		
R		35.81		37.34																																	
/	L	37.34		41.91	4.57				BRPC	CB	HX	7A4	BR	RP	06	47	24								P1	P=	P3	P2	P1		P1	D+		LI	54		
							HB1			3GPY	7T2				42	CC	32													<)	P1	P3		H>	D.		
R		37.34		44.20																																	
/	L	41.91		42.21	.30			X	BRPC	CB	HX	7A4	BR	RP	06	47	24								P1	P=	P3	P2	P1		D2	D+		LI	54		
							HB1			3GPY	7T2				42	CC	32													<)	P1	P3		H<	D+		

DRILLHOLE/TRAVERSE --- 80CH022 --- (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	
/		42.21	44.20	1.99					BRPC	CB	HX	7A4	BR	RP	06	47	24						P1	P=	P3	P2	P1		P1	D+		LI	54	
L						HB1			36PY	7T2			42	CC	32									<	P1	P3		H>	D.					
/		44.20	56.85	12.65					BRPC	CB	MG	9A4	BR	FL	07	17	2				FL		45	P1	D=	P3	P2		D=	D)		74		
L						HB2			BT	7T1			21	FC	2									V)	P1	P4		MG	D.					
R		44.20	70.41						UPPER CONTACT SOMEWHAT GRADATIONAL AS HB1 PHASE BRECCIATION IS																									
R		44.20	70.41						REBRECCIATES EARLIER HB2 PHASE. THE BRECCIA HAS UNDERGONE																									
R		44.20	70.41						PERVASIVE CARBONATIZATION. MG HAS GROWN IN BOTH THE FRAGMENTS																									
R		44.20	70.41						AND THE MATRIX. MG DISTRIBUTION ERRATIC.																									
R		44.20	56.85						BROS BANDS AVERAGE 15CM ACROSS. SOME APPEAR TO BE DYKES WHILE																									
R		44.20	56.85						OTHERS LOOK TO BE LITTLE MORE THAN IRON RICH PARTS OF THE ROCK.																									
R		44.20	56.85						HX CRYSTALS USUALLY EUHEDRAL CHANGES FROM HE TO MG FREQUENTLY.																									
R		44.20	56.85						THOSE WHICH APPEAR TO BE DYKES ARE NOT FOLIATED BUT DO PARALLEL																									
R		44.20	56.85						FOLIATION.																									
/		56.85	70.41	13.56					BRPC	CB	MG	9A4	BR	FL	07	17	2				FL		45	P1	D=	P3	P2		D=	D)		74		
L						HB2			BT	7T1			21	FC	2										V)	P1	P4		MG	D.				
/		70.41	72.54	2.13					BRPC	CB	PY		BR	RP			2							P1		P6			D)	6+		74		
L						HB2			BT				FL			2											P4		HE	6-				
R		70.41	72.54						INTENSE, PERVASIVE CARBONITIZATION HAS DESTROYED MOST OF THE																									
R		70.41	72.54						BRECCVA AND FOLIATION TEXTURES.																									
/		72.54	73.15	.61					BRPC	CB	PY		BR	FL	07	27	2				FL		60	P2		P4	P1		D-	6+		84		
L						HB2			BT				RP	22	FC	2											P3	P4		HE	6.			
R		72.54	126.19						SOME QUARTZITE FRAGMENTS WHICH TEND TO BE COMPACT ARGILLITE																									
R		72.54	126.19						FLATTENS OUT. SULPHIDES AND OXIDES OCCUR AS MINUTE CRYSTALS																									
R		72.54	126.19						IN MICRO FRACTURES AND RIMMING FRAGMENTS.																									
/		73.15	76.20	3.05				X	BRPC	CB	PY		BR	FL	07	27	35				FL		60	P2		P4	P1		D-	6+		84		
L						HB2			BT				RP	22	FC	41											P3	P4		HE	6.			
/		76.20	79.25	3.05					BRPC	CB	PY		BR	FL	07	27	2				FL		60	P2		P4	P1		D-	6+		84		
L						HB2			BT				RP	22	FC	2											P3	P4		HE	6.			
/		79.25	81.08	1.83				X	BRPC	CB	PY		BR	FL	07	27	24				FL		60	P2		P4	P1		D-	6+		84		
L						HB2			BT				RP	22	FC	3											P3	P4		HE	6.			

DRILLHOLE/TRAVERSE --- 80CH022 --- (CONTINUED)

K	FLG	F.R.O.M	T.O.O	I.N.T	RECOV	HF	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.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	
L						HB2		BT			RP		22	FC	3												P3	P4		HE	6.				
/	FLT	81.08	81.38	.30			X	BRPC	CB	PY		BR	FL	07	27	X	F/						45	P2		P4	P1			D-	6+			84	
/		81.38	82.30	.92			X	BRPC	CB	PY		BR	FL	07	27	24	FL						60	P2		P4	P1			D-	6+			84	
L						HB2		BT			RP		22	FC	3													P3	P4		HE	6.			
L						HB2		BT			RP		22	FC	3													P3	P4		HE	6.			
/	FLT	82.30	82.60	.30			X	BRPC	CB	PY		BR	FL	07	27	X	F/						45	P2		P4	P1			D-	6+			84	
/		82.60	86.26	3.66			X	BRPC	CB	PY		BR	FL	07	27	24	FL						60	P2		P4	P1			D-	6+			84	
L						HB2		BT			RP		22	FC	3													P3	P4		HE	6.			
/		86.26	87.48	1.22			X	BRPC	CB	PY		BR	FL	07	27	12	FL						60	P2		P4	P1			D-	6=			84	
L						HB2		BT			RP		22	FC	2													P3	P4		HE	6-			
R		86.26	126.19																																
/		87.48	87.78	.30			X	BRPC	CB	PY		BR	FL	07	27	2	FL						60	P2		P4	P1			D-	6=			84	
L						HB2		BT			RP		22	FC	2															HE	6+				
/		87.78	97.54	9.76			X	BRPC	CB	PY		BR	FL	07	27	12	FL						60	P2		P4	P1			D-	6=			84	
L						HB2		BT			RP		22	FC	2															HE	6-				
/		97.54	97.93	.39			X	BRPC	CB	PY		BR	FL	07	27	2	FL						60	P2		P4	P1			D-	61			84	
L						HB2		BT			RP		22	FC	2															HE	6+				
/		97.93	110.03	12.10			X	BRPC	CB	PY		BR	FL	07	27	12	FL						60	P2		P4	P1			D-	6=			84	
L						HB2		BT			RP		22	FC	2															HE	6-				
/		110.03	112.78	2.75			X	BRPC	CB	PY		BR	FL	07	27	2	FL						60	P2		P4	P1			D-	62			84	
L						HB2		BT			RP		22	FC	2															HE	D+				
R		110.03	112.78																																
R		110.03	112.78																																
/		112.78	117.65	4.87			X	BRPC	CB	PY		BR	FL	07	27	12	FL						60	P2		P4	P1			D-	6=			84	
L						HB2		BT			RP		22	FC	2															HE	6-				
/		117.65	118.26	.61			X	BRPC	CB	PY		BR	FL	07	27	24	FL						60	P2		V3	P1			D-	6+			23	
L						HB2		2G			RP		22	FC	3															HE	6.				
R		117.65	118.26																																
R		117.65	118.26																																
/		118.26	120.70	2.44			X	BRPC	CB	PY		BR	FL	07	27	12	FL						60	P2		P4	P1			D-	6=			84	
L						HB2		BT			RP		22	FC	2															HE	6-				
/		120.70	121.01	.31			X	BRPC	CB	PY		BR	FL	07	27	1	FL						60	P2		P4	P1			D-	D2			84	
L						HB2		BT			RP		22	FC	1															HE	D+				

DRILLHOLE/TRAVERSE --- 80CH022 --- (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 AZH 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 AZH B PL 2 FL BA C1 C3 MU HA H: CP HA 12 12

R 120.70 121.01 CP MIXED WITH PY IN SULPHIDE RICH BANDS PARALLELING FOLIATION.

/ 121.01 121.62 .61 X BRPC CB PY BR FL 07 27 23 FL 60 P2 V2 P1 D- 6+ 23
L HB2 26 RP 22 FC 2 P3 P4 HE 6.

R 121.01 121.62 SAME AS ABOVE.

/ 121.62 123.14 1.52 X BRPC CB PY BR FL 07 27 12 FL 60 P2 P4 P1 D- 6+ 84
L HB2 8T RP 22 FC 2 P3 P4 HE 6-/ 123.14 126.19 3.05 X BRPC CB PY BR FL 07 27 3 FL 60 P2 P4 P1 D- 6+ 84
L HB2 8T RP 22 FC 13 P3 P4 HE 6.A MIN 0.00 0.00 0.00 PPM U PPM CU PPM CO PPM AG PPM 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 IH-COR IH-COR IH-COR IH-COR IH-COR IH-COR IN BAG

A 001 5.79 7.32 1.53 70.0 J17821 82.0 1750 720 1.0 64 78 170

R TGG 5.79 7.32 10281

A 001 7.32 9.30 1.98 46.0 J17822 29.0 1250 515 1.0 64 78 140

R TGG 7.32 9.30 10281

A 001 9.30 10.67 1.37 100.0 J17823 6.0 245 300 1.0 64 78 120

R TGG 9.30 10.67 10281

A 001 10.67 12.19 1.52 100.0 J17824 8.5 154 375 1.0 64 78 130

A 001 24.99 28.35 3.36 100.0 J17825 32.0 162 108 0.1 28 17 120

R TGG 24.99 28.35 10281

A 001 28.35 30.33 1.98 100.0 J17826 8.5 48 300 0.1 28 17 120

R TGG 28.35 30.33 10281

A 001 30.33 32.77 2.44 100.0 J17827 5.5 26 84 0.1 28 17 120

R TGG 30.33 32.77 10281

A 001 32.77 35.81 3.04 75.0 J17828 8.5 500 84 0.1 28 17 120

R TAG 32.77 35.81 69959 10282

A 001 35.81 37.34 1.53 10.0 017829 8.5 1500 66 0.1 34 44 120

R TGG 35.81 37.34 10281

A 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	37.34	39.62	2.28	100.0	J17830	9.0	455	76	0.1	34	44	120
R TGG	37.34	39.62					10281					
A 001	39.62	41.15	1.53	100.0	J17831	7.5	340	72	0.1	34	44	120
R TGG	39.62	41.15					10281					
A 001	41.15	42.67	1.52	100.0	J17832	8.5	3450	114	0.1	34	44	120
R TGG	41.15	42.67					10281					
A 001	42.67	45.72	3.05	50.0	J17833	1.5	198	94	0.1	3	3	120
R TGG	42.67	45.72					10281					
A 001	45.72	48.77	3.05	100.0	J17834	6.5	295	68	0.1	3	3	120
R TGG	45.72	48.77					10281					
A 001	54.56	56.39	1.83	100.0	J17835	11.5	710	160	0.1	3	3	120
R TGG	54.56	56.39					10281					
A 001	83.82	86.87	3.05	100.0	J17836	1.5	495	76	0.4	30	20	120
R TGG	83.82	86.87					10281					
A 001	86.87	88.39	1.52	100.0	J17837	1.5	400	76	0.4	30	20	120
R TAG	86.87	88.39					69959	10282				
A 001	88.39	91.44	3.05	100.0	J17838	1.5	102	52	0.4	30	20	120
R TGG	88.39	91.44					10281					
A 001	95.40	98.45	3.05	100.0	J17839	1.0	215	86	0.4	30	20	120
R TGG	95.40	98.45					10281					
A 001	110.03	112.78	2.75	100.0	J17840	4.0	525	188	0.1	9	7	120
R TGG	110.03	112.78					10281					
A 001	117.65	121.01	3.36	100.0	J17841	4.5	325	84	0.1	46	26	120
R TGG / END	117.65	121.01					10281					