

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/TRVERSE 80CH019	COLLAR ELEVATION 1169.00	AZIMUTH(LEG 1) 180.00	GEOLOGGED BY : WDE +
TOTAL DEPTH/LENGTH 146.61	NORTHING(- IF S) 3527.50	VERTICAL ANGLE -50.00	DATE DY/MON/YR 23/JUL/80
CORE/HOLE DIAMETER B	EASTING (- IF W) -97.50	CO-ORD SYSTEM GRD	PROJECT NUMBER WJV

F . . I N T E R V A L . .	CORE	MF X	TYPY-	TEX-	GRAIN	FRACS	..STRUCTURES...	ALT/N ASSEM.+ MINERALIZATION.	AI	OI
K L (M T . 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..0 I.N.T	+PC.1	IR X TYPE	1 2	1 TX TX	X	I	K P P. 1	Q2 CL CB C2 AB XX HX PY UR YY BM	ZONE	
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	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.O.D. U- EN R	COLOR	MIN MINOR	ON H/	T00 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	4.27	4.27		OVER					
/	4.27	10.91	6.64		BROS HX CL BA1 BR RP 17 =7 2		D+ P2 D=	D2 D=	L1 25	
L				HB4	3GBA 4G1	22 FO 2	72	D+ P2	H> D+	HA
R	4.27	10.91			FRAGMENTS RARE; MAYBE A LARGE DYKE WITH ONLY A FEW WALL ROCK					
R	4.27	10.91			FRAGMENTS. CP IS USUALLY ASSOCIATED WITH BA AND EUHERAL HX XTALS					
R	4.27	10.91			CL OFTEN REPLACING HE AFTER EUHEDRAL MG. CP TENDS TO CLUSTER					
/	10.91	11.58	.67		BRCL CL BA RP	2	P4	D= D=	13	
L				HB3	4GPY	21	74	H> D+		
R	10.91	11.58			CP FINELY DISSEMINATED THROUGH ROCK.					
/	11.58	16.40	4.82		BROX HX BA 7A6 BR		P1	P1 P1	D3 D)	44
L				HB4	BA		72	P3	H> 7*	
R	11.58	17.77			BA AND HX COMPRISE THE MATRIX . MG ALSO DISSEMATED IN FRAGMENTS					
/	16.40	17.47	1.07		X BROX HX BA 7A6 BR		P1	P2 P1	D3 D=	44
L				HB4	BA		72	P1 P3	H> 7*	
R	16.40	17.47			CP CORES MOST HX CRYSTALS.					
/	17.47	17.77	.30		BROX HX BA 7A6 BR		P1	P1 P1	D3 D)	44
L				HB4	BA		72	P3	H> 7*	
/	17.77	21.18	3.41		BROS CL HX 3G3 BR	08 28 2	P1	P2 D= D+	D2 D1	24
L				HB4	8ABA 7A3	12 CC 21	61	D+ P1	H< 7*	

DRILLHOLE/TRVERSE --- 80CH019 --- (CONTINUED)

K	FLG	F.R.O.M	T..O	I.N.T	RECOV	MF	X	ROCK	TM	TM	GM1	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	GM2	TX	TX	SR	SO	SML	2	ID	P	AZM	B	PL	2	FL	BA	C1	C3	MU	HA	H:	CP	HA	12	12
R		17.77	21.18																																
/		21.18	25.60	4.42				BRSO	CL	PY	7A6	BR		07	27	3		FL					40		P2	P1	P1	D+	D)		D1	72		45	
L						HB4		7T		7R2				22	FC	22																			
/		25.60	33.53	7.93				BROS	HX	PY						2		CN				T	20												
L						HB4		INBA								11		CN				B	45												
R		25.60	33.53																																
R		25.60	33.53																																
R		25.60	33.53																																
/	FLT	33.53	36.58	3.05				X	BRCL	CL			BR	RP	05	26	X	F2					45		D+	P7	D1	P+		TA	D1			03	
L						HB3		2G								22	CO	X2																	
R		33.53	36.58																																
R		33.53	36.58																																
/		36.58	39.62	3.04				BRCL	CL			BR	RP	05	26	3																			
L						HB3		2G								22	CO	22																	
/		39.62	46.94	7.32				BRPQ	CL	CB	5G6	BR		07	17	2		FL					45		P2	P4	P4	P1		D=	D-			24	
L						HB1		66		7A2				22	FC	21																			
R		39.62	46.94																																
R		39.62	46.94																																
/		46.94	50.90	3.96				BRSU	PY	CB	8A5	BR		06	37	2		FL					60		P2		P2	P1					63	CC	74
L						HB1		8T						22	FC	11																	D.		
R		46.94	50.90																																
/		50.90	67.06	16.16				BRPQ	PY	CB	8A5	BR		06	37	2		FL					60		P3	>-	P3						81		74
L						HB2		8T		8R2				33	FC	11																	D.		
R		50.90	77.42																																
R		50.90	77.42																																
R		50.90	77.42																																
R		50.90	77.42																																
/		67.06	69.19	2.13				X	BRPQ	PY	CB	8A5	BR		06	37	1		FL					85		P3	>-	P3					D=		84
L						HB2		8T		8R2				33	FC	11																	D.		
R		67.06	69.19																																
R		67.06	69.19																																

ROCK IS STRONGLY FOLIATED SO THAT IT HAS A BANDED APPEARANCE OF

DRILLHOLE/TRVERSE --- 80CH019 --- (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

R 67.06 69.19 ALTERNATING TAN AND LIGHT GREY STRIPES. THIS COLOUR IS DUE TO

R 67.06 69.19 FINELY DISSEMINATED PY IN THE LIGHT GREY STRIPES. ONLY QUARTZITE

R 67.06 69.19 FRAGMENTS ARE STILL RECOGNIZABLE.

/	69.19	77.42	8.23		X BRPD	PY CB 6A5 BR	07 37	2	FL	70	P2 >- P3	D1	44
L					HB2	BT 7T2	33 FC	11			P2 P4	D.	

R 69.19 77.42 ROCK HAS MOTTLED APPEARANCE. FOLIATION NOT AS STRONG. INDIVIDUAL

R 69.19 77.42 FRAGMENTS AGAIN RECOGNIZABLE.

/	77.42	81.08	3.66		BRSU	PY 7T3 BR	08 28	2	FL	60	P2 <- P2 P1	73	34
L					HB4	BT 7A3	22 FC	2			V) P1 P3		

R 77.42 81.08 GENERALLY SIMILAR TO PRECEEDING INTERVAL.

R 81.08 101.19 FOLIATED STRONGLY BLEACHED PELITE: ARGILLITE INTERGEDDED WITH

R 81.08 101.19 A COARSER META-SEDIMENT, GRADING TOWARD A QUARTZITE. APPROXIMATE

R 81.08 101.19 RATIO ARG:QT2 IS 4:1. FOLIATION RANGES 10 TO 60 .

/	81.08	82.30	1.22		X PLIT		25		FL	45	P4 <- V)	D)	75
L					HS0	9R	41				V)	P5	

/	82.30	84.25	1.95		PLIT		3		FL	45	P4 <- V)	D)	75
L					HS0	9R	3				V)	P5	

/	84.25	84.55	.30		X PLIT		3		FL	45	P4 <- V)	7= D)	75
L					HS0	9R	3				V)	P5	<=

/	84.55	91.29	6.74		PLIT		3		FL	45	P4 <- V)	D)	75
L					HS0	9R	3				V)	P5	

/	91.29	101.19	9.90		X PLIT		13		FL	45	P4 >) 7= P+	7+	75
L					HS0	9R	22				V+	P5	

/	101.19	102.87	1.68		BRPD	CL CB 5G4 BR	06 37	2			P2 P2 P4 P1	71	24
L					HB1	5GPY 8A2	35 CO	2			P3 D=		

R 101.19 130.00 ROCKS SIMILAR TO THOSE BETWEEN 39.4M AND 46.7M. CA IS CB MINERAL

R 101.19 130.00 SOME CA CRYSTALS GROWING IN MATRIX ARE CORED BY SD?

/	102.87	104.85	1.98		X BRPD	CL CB 5G4 BR	06 37	2			P2 P4 P2 P1	81	14
L					HB1	5GPY 8A2	35 CO	2			P1 D=	7+	

/	104.85	110.95	6.10		X BRPD	CL CB 8A3 BR	08 28	1			P2 P2 D2 D=	D1 D)	24
L					HB1	5GHE 5R3	13 CC	1			V1 D2 P3	HE	

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	QZ	CL	CB	C2	A6	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		104.85	110.95									FRAGMENTS ARE HIGHLY VARIABLE IN APPEARANCE AND COMPOSITION.						
R		104.85	110.95									SEVERAL FRAGMENTS OF STRONGLY FOLIATED HB2 CONTAINING PY SIT IN						
R		104.85	110.95									AN OTHERWISE UNFOLIATED BRECCIA DOMINATED BY HE.						
/L		110.95	120.70	9.75	X BRPQ HB1	CL CB SGPY	7G3 RR 4G4	07 18 13 CC	2 2	P2 P3 V= P2	P3 P1 P1	D+ D) HE	34					
/L		120.70	124.08	3.38	X BRPQ HB1	CL CB SGPY	7G3 RR 4G4	18 59 02 CC	1 1	P2 P2 \leq^* P1	P3 P1 P4	D+ G) HE	34					
R		120.70	124.08									DOMINENT FRAGMENTS IN THE CL-CB MATRIX BRECCIA ARE LARGE BLOCKS						
R		120.70	124.08									OF FOLIATED HB2 WHICH ARE THEMSELVES BRECCIAs.						
/L		124.08	126.95	2.87	X BRPQ HB1	CL CB SGPY	7G3 RR 4G4	07 18 13 CC	2 2	P2 P3 V= P2	P3 P1 P1	D+ D) HE	34					
/L		126.95	130.00	3.05	X BRPQ HB1	CL CB SGPY	7G3 RR 4G4	07 18 13 CC	2 2	P2 P3 V= P2	P3 P1 P1	D+ 7= HE	34					
/L		130.00	146.30	16.30	HSD PLIT HSO	BG		14 FL 4	45	P5 6+ < <)	P5		65					
R		130.00	146.61									BLEACHED ARGILLITE AND QUARTZITE. PROBABLY A LARGE BLOCK.						
/		146.30	146.61	.31	X PLIT			14 FL	45	P5 6+ <		D1	65					
A MIN		0.00	0.00	0.00	PPM U	PPM CU	PPM CO	PPM AG	PPB AU	PPH 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		4.27	7.32	3.05	100.0 J17437	8.5	1400	168	0.1	10	21	120						
R TAG		4.27	7.32				69459	55199N01951										
A 001		7.32	10.36	3.04	100.0 J17438	6.0	1400	62	0.1	10	21	120						
R TAG		7.32	10.36				69459	55199N01951										
A 001		10.36	13.41	3.05	100.0 J17439	9.0	1000	78	0.1	10	21	120						
R TAG		10.36	13.41				69459	55199N01951										
A 001		13.41	16.40	2.99	100.0 J17440	11.5	500	50	0.1	10	21	120						
R TAG		13.41	16.40				69459	55199N01951										
A 001		16.40	18.29	1.89	100.0 J17441	8.0	2000	52	0.1	10	21	120						

DRILLHOLE/TRVERSE --- 80CH019 --- (CONTINUED)

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
R TAG	16.40	18.29				69459	55199	N01951				
A 001	18.29	21.18	2.89	100.0	J17442	12.0	3500	118	0.1	22	49	120
R TAG	18.29	21.18				69459	55199	N01951				
A 001	21.18	24.38	3.20	100.0	J17443	26.0	126	280	0.1	22	49	120
R TGG	21.18	24.38				55392	N02047					
A 001	24.38	27.43	3.05	100.0	J17444	29.0	590	270	0.1	22	49	120
R TGG	24.38	27.43				55392	N02047					
A 001	27.43	30.48	3.05	100.0	J17445	41.0	360	460	0.1	22	49	130
R TGG	27.43	30.48				55392	N02047					
A 001	30.48	33.53	3.05	100.0	J17446	13.0	320	570	0.1	22	49	120
R TGG	30.48	33.53				55392	N02047					
A 001	33.53	36.58	3.05	30.0	J17447	14.0	80	138	0.1	7	11	120
R TGG	33.53	36.58				55392	N02047					
A 001	36.58	39.62	3.04	100.0	J17448	32.0	8	12	0.1	7	11	120
R TGG	36.58	39.62				55392	N02047					
A 001	39.62	42.67	3.05	100.0	J17449	9.5	148	20	0.1	30	17	130
R TGG	39.62	42.67				55392	N02047					
A 001	42.67	46.94	4.27	100.0	J17450	9.5	400	14	0.1	30	17	120
R TGG	42.67	46.94				55392	N02047					
A 001	46.94	50.90	3.96	100.0	J17451	7.0	2900	132	0.1	17	25	120
R TGG	46.94	50.90				55392	N02047					
A 001	50.90	53.95	3.05	100.0	J17452	11.5	94	78	0.1	30	17	120
R TGG	50.90	53.95				55392	N02047					
A 001	53.95	57.00	3.05	100.0	J17453	9.5	78	30	0.1	9	11	120
R TGG	53.95	57.00				55392	N02047					
A 001	57.00	60.05	3.05	100.0	J17454	11.5	152	46	0.1	9	11	120

DRILLHOLE/TRVERSE --- 80CH019 --- (CONTINUED)

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		
R TGG	57.00	60.05		55392N02047								
A 001	60.05	63.09	3.04	100.0	J17455	11.0	72	44	0.1	9	11	120
R TGG	60.05	63.09		55392N02047								
A 001	63.09	66.14	3.05	100.0	J17456	12.0	42	12	0.1	9	11	120
R TGG	63.09	66.14		55392N02047								
A 001	66.14	69.19	3.05	100.0	J17457	11.5	42	20	0.1	9	11	120
R TGG	66.14	69.19		55392N02047								
A 001	69.19	72.24	3.05	100.0	J17458	11.5	22	22	0.1	17	11	120
R TGG	69.19	72.24		55392N02047								
A 001	72.24	75.29	3.05	100.0	J17459	11.0	26	24	0.1	17	25	120
R TGG	72.24	75.29		55392N02047								
A 001	75.29	78.33	3.04	100.0	J17460	6.0	26	22	0.1	17	25	120
R TGG	75.29	78.33		55392N02047								
A 001	78.33	81.08	2.75	996.0	J17461	14.0	28	24				120
R TGG	78.33	81.08		55392N02047								
/ END												