MULTIPLE ACCESS COMPUTER GROUP / INTERNATIONAL GEOSYSTEMS CORPORATION 20/12/80.

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/TRAVERSE 80CH010 COLLAR ELEVATION 1169.00 AZIMUTH(LEG 1) 63.00 GEOLOGGED BY : WDE
TOTAL DEPTH/LENGTH 107.29 NORTHING(- IF S) 3595.50 VERTICAL ANGLE -50.00 DATE DY/MON/YR 23/JUN/80
CORE/HOLE DIAMETER B EASTING (- IF W) -43.00 CO-ORD SYSTEM GRD PROJECT NUMBER WJV

KEY	FLAG	FROM (MT.2)	TO	INT	CORE RECOV -MISS +PC.1	MF OI DE IR	% M ROCK X	TYPE	TYPI-MINS TM 1	TM 2	GAL MIN 1	TEX-TURES MAJOR TX	MINOR TX	GRAIN -+ M FC	CA X	FRACS DEN I	M	ID	STRUCTURES S T K	AZM	T D I P.	B D 1	ALT/N HA	ASSEM. HA	HA	MINERALIZATION. HA	HA	HA	HA	HA	HA	AI LN TT	OI RN ET
						ROC DE	P				GAL	TX	TX	SR	SO	SML	%		P		B .P	B	FL	BA	C1	C3	MU	HA	H:	CP		HA	HW	HOW
					R.Q.D.	U- NIT	EN PV	R OV	COLOR	MIN 2	MINOR	ON RD	H/ PC	TOO PDW	M 2	ID	L G	AZM	T	G	2	QZ	CL	CB	C2	AB	XX	HX	PY	UR	YY	BM	ZONE
/		0.00	6.71	6.71				OVER																								
/	FLT	6.71	7.62	.91				BRPE	CB		9A4	BR	FZ	07	58	XX		FZ		70		P2 <> P5 P3		<+							84	
L						HB2			8G		8T2			23	FC	41						<> P3 P2		HE								
R		6.71	15.54						POOR RECOVERY DUE TO HIGHLY FRACTURED ROCK. APPEARS TO BE WIDE																								
R		6.71	15.54						FAULT ZONE. SLICKENSIDED FRACTU0.1 19 2460 TO 80 .																								
R		6.71	15.54						INTENSE CB ALTERATION																								
/	FLT	7.62	7.65	.03			X	BRPE	CB		9A4	BR	FZ	07	58	XX		FZ		70		P1 P2 P4 00		P3							34	
L						HB2			8G		8T2			23	FC	41						V1 P3 00		MG V=								
R		7.62	7.65						MAY BE FLOAT IN OVERBURDEN.																								
/	FLT	7.65	15.54	7.89				BRPE	CB		9A4	BR	FZ	07	58	XX		FZ		70		P2 <> P5 P3		<+							84	
L						HB2			8G		8T2			23	FC	41						<> P3 P2		HE								
R		15.54	17.28						HE ALTERED TO CL																								
/		15.54	16.15	.61			X	BRPE	CB		9A6	BR	FZ	07	58	XX						P2 P= P6 P3									84	
L						HB2			6G					23	FC	4						<> P3 P1										
/		16.15	17.28	1.13				BRPE	CB		9A6	BR		07	58	24						P2 P= P6 P3									84	
L						HB2			6G					23	FC	3						<> P3 P1										
/		17.28	27.37	10.09				BRPE			7A9	BR		07	58	23		FL		75		P3 <> P3 P1		P+							54	
L						HB2			6G					22	FC	2						<+ P2 P3		HE								
R		17.28	27.37						FRAGMENT BOUNDARIES VERY OBSCURE.																								

DRILLHOLE/TRAVERSE --- 80CH010 --- (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
/		27.37	32.40	5.03				BRPE	CB		1A9	BR		07	48	2								P2	P+	P4	P3			P)			94		
L						HB2			3G					22	FC	2										<(	P2	P4		HE					
R		27.37	34.35						GRADATIONAL CONTACT WITH OVERLYING ROCKS.																												
/		32.40	33.77	1.37			X	BRPE	CB	CL	1A9	BR		07	48	2								P1	P1	P4	P3			00			74		
L						HB2			3G					22	FC	2										<(	P2	P4		00					
R		32.40	33.77						CL CLUSTERS MARBLED THROUGH BLEACHED ARGILLITE.																												
/		33.77	34.35	.58			X	BRPE	CB		1A9	BR		07	48	3								P2	P+	P4	P3			P)			54		
L						HB2			3G					22	FC	3									V=	<(	P2	P4		HE	<-				
R		33.77	34.35						CL PROBABLY AFTER MG																												
/		34.35	39.01	4.66				BROS	CP	MG	7T4	BR		06	27	16		FL			45			P2	<+	P4	P3			D1	D+		MA	35	
L						HB4			7GPY					44	CO	6									V=	V+	P1	P1		MG	D=				
R		34.35	39.78						FLOW BANDING(?) RANGES FROM 20-60 WEAKLY DEVELOPED. CP OCCURS																												
R		34.35	39.78						IN MATRIX AND REPLACING EUHEDRAL MG. BA VEINS ARE POST CP																												
R		34.35	39.78						EMPLACEMENT. PRESENCE OF SOME SLIGHTLY SMOKY QZ VERY IMPORTANT.																												
R		34.35	39.78						HEMATITE STAINED BARITE VEINS EXHIBIT GREATEST RADIOACTIVITY.																												
/		39.01	39.78	.77			X	BROS	CP	MG	7T4	BR		06	27	16		FL			45			P2	<+	P4	P3			D=	D1		MA	54	
L						HB4			7GPY					44	CO	6									V=	V+	P1	P1		MG	D+				
R		39.01	39.78						GRADES BACK INTO UNMINERALIZED ROCK.																												
/		39.78	41.70	1.92				BRPQ	CB	CL	8T7	BR	RP	07	27	2		CN		B	50			P3	P1	P4	P2			D-			64		
L						HB2			6G	6G1				23	CO	21									D)	V)	P2	P2			D-					
R		39.78	41.70						BEYOND SHARP CONTACT CP CONTENT GRADUALLY INCREASES OVER 1M.																												
R		39.78	41.70						CL OFTEN RIMS SOMETIMES REPLACES FRAGMENTS.																												
R		41.70	52.03						FRAGS COMPLETELY REPLACED. CP AND PY USUALLY OCCUR IN THE MATRIX																												
R		41.70	52.03						OR REPLACING THE 4-6 MM EUHEDRAL MG. BA AND CB VEINS POST CU.																												
R		41.70	52.03						APPROXIMATE PARAGENESIS: BRECCIATION; MG XTAL GROWTH; HE-CB																												
R		41.70	52.03						ALTERATION; FRACTURING WITH CL; CP-PY ALTERATION; CB-BA VEINS.																												
/		41.70	42.31	.61			X	BRSO	CL	CP	9A2	BR		07	18	13		F1			40			P1	P2	P4	P			D=	D)			13	
L						HB4			5GCB		8T1			56	CO	3		1							V+	V+	P4	P=			H>	D=				
/		42.31	46.27	3.96				BRSO	CP	HX	9A2	BR		06	16	13		FL			40			P1	<=	P4	P			D1	D=			44	
L						HB4			7GCB		8T1			56	CO	3									V+	V+	P4	P=			H>	D2				

DRILLHOLE/TRAVERSE --- 80CH010 --- (CONTINUED)

K	FLG	F.R.O.M	: T..O	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
/		46.27	47.40	1.13			X	BRSO	CP	HX	9A2	BR		06	28	13		FL			40			P1	D2	P4	P			D1	D=			44	
L						HB4			7GCB		8T1			36	FO	3											V+	V+	P4	P=		H>	81		23	
R		46.27	47.40						ALTERATION IS LESS INTENSE. FRAGMENTS ARE MORE VISIBLE. BA-CB																													
R		46.27	47.40						VEINS CONTAIN SOME COARSE GRAINED CP AND CUT FL AT 90 .																													
/		47.40	50.93	3.53				BRSO	CP	HX	9A2	BR		06	16	13		FL			40			P1	<=	P4	P			D1	D=			44	
L						HB4			7GCB		8T1			56	CO	3											V+	V+	P4	P=		H>	D2				
/		50.93	52.03	1.10			X	BRSO	CP	HX	9A2	BR		06	16	35		FL			40			P1	<=	P4	P			D1	D1	<*		34	
L						HB4			7GCB		8T1			56	CO	41											V=	V+	P4	P=		H<	D=				
R		50.93	52.03						BA VEINLETS ARE VERY RED PROBABLY DUE TO HEMATITE STAINS. BA																													
R		50.93	52.03						AFTER CP-PY MINERALIZATION WHICH APPEARS TO BE RELATED TO CL																													
R		50.93	52.03						MICROFRACTURES. MOST FRACTURES WELL HEALED. LOWER PORTION OF																													
R		50.93	52.03						INTERVAL RED AND WELL FRACTURED.																													
/		52.03	52.49	.46				BROX	UR	CP		BR				2		CN			T	40				D1	P4				D2	D)	<+		35	
L						HB4			6RBA							2		CN			B	40				62	<+	P4			H<	6+				
R		52.03	52.49						VERY STRONGLY FOLIATED, SHARP CONTACTS. UR OCCURS IN MICROVEINS																													
R		52.03	52.49						RIMMING CP. BA VERY RED. USUALLY SURROUNDS THE SOOTY PITCHBLENDE																													
R		52.03	52.49						THIS INTERVAL CORRESPONDS TO HIGHEST RADIOACTIVITY. NO FRAGMENTS																													
/		52.49	54.25	1.76				BRCL	CL		7T1	BR		06	18	2		FL			50			P3	P2	P1	P=			D1	D)			25	
L						HB3			5G		9A1			24	CO	21											<*	<)	P=	P3		H>	D+				
R		52.49	62.79						CP OCCURS IN CORE OF HX CRYSTALS. HX LOCALLY UPTO 30% OF ROCK																													
R		52.49	62.79						USUALLY WITH INCREASED CB IN MATRIX. SOME HX IS ALTERED TO CL.																													
/		54.25	55.93	1.68			X	BRCL	CL		7T1	BR		06	18	2		VN			60			83	P2	P1	P=			D1	D)			25	
L						HB3			5G		9A1			24	CO	21											V+	V=	P=	P3		H>	D+				
R		54.25	55.93						SMALL VEINS (<1CM) CB, LARGE VEINS (UPTO 10CM) RED BA WITH WHITE																													
R		54.25	55.93						CB SELVAGE. CP SOMETIMES WITH CB.																													
/		55.93	57.00	1.07				BRCL	CL		7T1	BR		06	18	2		FL			50			P3	P2	P1	P=			D1	D)			25	
L						HB3			5G		9A1			24	CO	21											<*	<)	P=	P3		H>	D+				
/		57.00	60.44	3.44			X	BRCL	CL		8T2	BR		06	18	24		FL			40			P3	P2	P1	P=			D=	D(			25	
L						HB3			4G		9A1			24	CO	31											<*	<)	P=	P3		H>	D(				
R		57.00	60.44						CL ALTERATION OF MG AND SOME FRAGMENTS COMMON.																													

DRILLHOLE/TRAVERSE --- 80CH010 --- (CONTINUED)

K	FLG	F.R.O.M	T..O	I.N.T	RECOV	MF	%	ROCK	TM	TM	QM1	TX	TX	-+	%M	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
/		60.44	62.79	2.35			X	BRCL	CL		7T1	BR		06	18	36		FL				50		P3	P2	P3	P=			D1	D)			03	
L						HB3			3G		9A1			24	CO	52									<*	<)	P=	P2			HE	D+				
/		62.79	68.88	6.09				BROX	HE	CB	7T1	BR	RP	06	17	23		FL				40		P1	P1	P4				P4	D+			05	
L						HB4			2G					45	CO	21											V1	P3			HE	6)				
R		62.79	73.67						INTENSE HE-CB ALTERATION HAS DESTROYED MOST FRAGMENTS. MUCH OF																														
R		62.79	73.67						THE HE APPEARS TO BE ON LATE MICROFRACTURES. CB IS DOLOMITE, CB																														
R		62.79	73.67						CRYSTALS ARE COMMON IN MATRIX. SOME EUHEDRAL HE AFTER MG IN TOP																														
R		62.79	73.67						OF INTERVAL.																													
/		68.88	73.67	4.79			X	BROX	HE	CB	7T1	BR	RP	06	17	23		FL				40		P1	P1	P4				P4	D+			05	
R		68.88	73.67																								D*									
/		73.67	77.02	3.35				BROS	HE	PY	7T1	BR	RP	06	17	23		FL				60		P2	P1	P2	P+			P4	P=			05	
L						HB4			1G		6A1			45	FO	21											P2	P+			HE					
R		73.67	78.12						PY USUALLY IN CRYSTALS																													
/		77.02	78.12	1.10			X	BROS	HE	PY	7T1	BR	RP	06	17	25		FL				50		P2	P1	P2	P+			P4	P=			05	
L						HB4			1G		6A1			45	FO	41											P2	P+			HE					
/		78.12	82.84	4.72				BROX	HE		7T3	BR		17	49	2		FL				50		P3	P1	P3	P3		GR	P2	D+			15	
L						HB1			1B		6R2			12	FC	21											V+		P1		HE	D+				
R		78.12	82.84						HX MATRIX CONTAINS LARGE FRAGMENTS (UPTO 50CM) OF PRE-EXISTING																														
R		78.12	82.84						BRECCIA. THE ROCK HAS AN ODD MOTTLED APPEARANCE DUE TO THE BLUES																														
R		78.12	82.84						AND REDS OF THE HE MATRIX AND THE TAN COLOR OF THE HB2 FRAGMENTS																														
R		78.12	82.84						SIGNIFICANT BECAUSE IT IMPLIES 2 PHASES OF BRECCIATION. MINOR																														
R		78.12	82.84						CP OCCURS IN BOTH BRECCIA PHASES. HE OCCURS IN SHEETS ALONG WITH																														
R		78.12	82.84						A BLUISH NOT METALLIC MINERAL (GRAPHITE?).																														
/		82.84	87.78	4.94				BRPE			7T9	BR		19	99	12								P4	<+	P4	P4				<)	D)			35	
L						HB1			6A					13	CC	2									V(	<+		P1		HE	D-				
R		82.84	107.29						MOST FRAGS EITHER CB ALTERED OR LIMY PELITE. LARGELY CRACKLE.																														
/		87.78	89.31	1.53			X	BRPE			7R9	BR		19	99	12		FL				50		P5	<+	P2	P2				P=	D)			45	
L						HB1			6A					13	CC	2									V(	<+		P2		HE	D-				
/		89.31	98.91	9.60				BRPE			7T9	BR		19	99	12								P4	<+	P4	P4				<)	D)			35	
L						HB1			6A					13	CC	2									V(	<+		P1		HE	D-				

DRILLHOLE/TRAVERSE --- 80CH010 --- (CONTINUED)

K	FLG	F.R.O.M	T..O	I.N.T	RECOV	MF	%	ROCK	TM	TM	QM1	TX	TX	-+	%M	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
/	FLT	98.91	99.03	.12			X	BRPE			7T9	BR		19	99	1X		F/				45		PX	<+	P4	P4			<)	D)			02	
L						HB1		6A						13	CC	X									V(	<+		P1		HE	D-				
/		99.03	102.72	3.69				BRPE			7T9	BR		19	99	12								P4	<+	P4	P4			<)	D)			35	
L						HB1		6A						13	CC	2									V(	<+		P1		HE	D-				
/		102.72	104.88	2.16			X	BRPE			7T9	BR		17	68	12								P4	<+	P4	P4	P1		<)	D)			25	
L						HB1		6A						23	CC	2									V(	<+		P1		HE	D-				
R		102.72	104.88																																
/		104.88	106.22	1.34				BRPE			7T9	BR		19	99	12								P4	<+	P4	P4			<)	D)			35	
L						HB1		6A						13	CC	2									V(	<+		P1		HE	D-				
/		106.22	107.29	1.07			X	BRPE			7G9	BR		99	X9	12								P4	P=	P4	P4			<)	D)			35	
L						HB1		6A						13	CC	2									V(	<1		P1		HE	D-				
R		106.22	107.29																																

APPEARS TO BE A SINGLE LARGE CRACKLED FRAGMENT.

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		IH-COR	IH-COR	IH-COR	IH-COR	IH-COR	IH-COR		IN BAG
A		001	33.77	34.35	.58	100.0	J17214	14.5	146	64	2.4	7	29	140
R		TGG	33.77	34.35					54513					
A		001	34.35	35.87	1.52	100.0	J17215	118.0	39600	192	2.4	7	29	200
R		TAG	34.35	35.87					54514	69060				
A		001	35.87	37.40	1.53	100.0	J17216	288.1	24400	184	2.4	7	29	260
R		NAG	35.87	37.40					69061	54515				
A		001	37.40	39.01	1.61	100.0	J17217	45.0	25500	450	2.4	7	29	180
R		TAG	37.40	39.01					54514	69060				
A		001	39.01	39.78	.77	100.0	J17218	29.0	17400	550	2.4	7	29	120
R		TAG	39.01	39.78					54514	69060				
A		001	39.78	41.76	1.98	100.0	J17219	21.5	600	98	2.4	7	29	120
R		TAG	39.78	41.76					54514	69060				
A		001	41.76	42.37	.61	100.0	J17220	161.0	19200	188	6.4	23	16	160
R		TAG	41.76	42.37					54514	69060				

DRILLHOLE/TRAVERSE --- 80CH010 --- (CONTINUED)

							PPM U	PPM CU	PPM CO	PPM AG	PPB AU	PPM MO	CPS
A MIN	0.00	0.00	0.00										
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	42.37	43.89	1.52	100.0	J17221	771.2	87000	350	6.4	23	16		520
R NAG	42.37	43.89					69061	54515					
A 001	43.89	45.42	1.53	100.0	J17222	423.7	49100	270	6.4	23	16		400
R NAG	43.89	45.42					69061	54515					
A 001	45.42	46.27	.85	100.0	J17223	330.5	90000	310	6.4	23	16		230
R NAG	45.42	46.27					69061	54515					
A 001	46.27	47.40	1.13	100.0	J17224	508.5	39600	380	6.4	23	16		660
R NAG	46.27	47.40					69061	54515					
A 001	47.40	49.23	1.83	100.0	J17225	550.8	96200	450	6.4	23	16		440
R NAG	47.40	49.23					69061	54515					
A 001	49.23	50.90	1.67	100.0	J17226	737.3	66500	390	6.4	23	16		760
R NAG	49.23	50.90					69061	54515					
A 001	50.90	52.43	1.53	100.0	J17227	1754.2	24000	310	6.4	23	16		1300
R NAG	50.90	52.43					69061	54515					
A 001	52.43	53.95	1.52	100.0	J17228	17.0	2500	166	6.4	23	16		120
R TAG	52.43	53.95					54514	69060					
A 001	53.95	55.47	1.52	100.0	J17229	21.0	1700	220	0.1	5	6		120
R TAG	53.95	55.47					54514	69060					
A 001	55.47	57.00	1.53	100.0	J17230	21.0	1200	88	0.1	5	6		120
R TAG	55.47	57.00					54514	69060					
A 001	57.00	58.52	1.52	100.0	J17231	11.0	210	114	0.1	5	6		130
R TGG	57.00	58.52					54513						
A 001	58.52	60.05	1.53	100.0	J17232	6.5	138	150	0.1	5	6		130
R TGG	58.52	60.05					54513						
A 001	60.05	61.57	1.52	100.0	J17233	7.5	196	136	0.1	5	6		130
R TGG	60.05	61.57					54513						

DRILLHOLE/TRAVERSE --- 80CH010 --- (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
A 001	61.57	62.79	1.22	100.0	J17234	5.0	66	118	0.1	5	6		120
R TGG	61.57	62.79					54513						
A 001	62.79	64.31	1.52	100.0	J17235	5.0	300	176	0.1	5	6		130
R TAG	62.79	64.31					54514	69060					
A 001	64.31	66.14	1.83	100.0	J17236	4.5	1700	134	0.1	19	24		130
R TAG	64.31	66.14					54514	69060					
A 001	66.14	67.67	1.53	100.0	J17237	3.0	3200	116	0.1	19	24		120
R TAG	66.14	67.67					54514	69060					
A 001	67.67	68.88	1.21	100.0	J17238	5.0	2750	114	0.1	19	24		120
R TGG	67.67	68.88					54513						
A 001	68.88	70.41	1.53	100.0	J17239	7.5	200	174	0.1	19	24		120
R TGG	68.88	70.41					54513						
A 001	70.41	71.93	1.52	100.0	J17240	5.5	148	100	0.1	19	24		120
R TGG	70.41	71.93					54513						
A 001	71.93	73.46	1.53	100.0	J17241	6.0	86	86	0.1	19	24		120
R TGG	71.93	73.46					54513						
A 001	73.46	74.98	1.52	100.0	J17242	5.5	500	154					120
R TGG	73.46	74.98					54513						

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