DIAMON

010

TOWNSHIP: HOLMES TWP.

REPORT NO: 13

WORK PERFORMED FOR: Timothy A. Hanson

RECORDED HOLDER: SAME AS ABOVE (xx)

: OTHER ( )

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
1048456	1	180'	Dec/89	(1)
	2	200'	Dec/89	(1)
1048455	3	289'	Dec/89	(1)
	4	155'	Dec/89	(1)

NOTES: (1) # W9008.024, filed Feb/90

DIAMOND DRILL RECORD

SUTTON - HANSON BLOCK

CORE SIZE BQ LENGTH 155'

AZIMUTH 170° ACID TESTS: FOOTAGE 155 DIP -45°

ANGLE -45° CLAIM # 1048455

LOCATION: 132½ METRES WEST NORTHWEST OF POST #1

DATE STARTED Dec 8/89 COMPLETED Dec 8/89

LOGGED BY MICHAEL SUTTON

DDH #4

FOOTAGE - METRES FROM FEET	TO FEET	DECRIPTION	SAMPLES #	FROM	TO	LENGTH	% RECOVERY	SIZE OF FRAGMENTS	ASSAYS Au g/t	Ag g/t	NOTES
0 (0)	1.22 (4'0")	CASING - O/B									>ALL OF THE RED SYENITE I HIGHLY MAGNETIC; THE FRAGMENTS VARY IN THEIR DEGREE OF MAGNETISM AND HIGHLY ALTERED & SERICITIZED ZONES ARE NON MAGNETIC
1.22 (4'0")	1.42 (4'8")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; 50%	001	1.22 (4'0")	1.42 (4'8")	0.20	0.5	-	0.30		
		BLACK-DARK GREEN-GREY FRAGMENT IS SOMEWHAT SILICIFIED;									
		CARBONATED "EYE" CONTAINS CHALCOPYRITE; HIGHLY CARBONATED									
		IN FRAGMENT									
		> SHEAR PLANE/FRACTURE @ 61 DTCA @ 1.52 (4'4")									
1.42 (4'8")	3.73 (12'3")	SYENITE; HIGHLY CARBONATED; 20% CHLORITIZED MAFICS; FED UP	002	1.42 (4'8")	2.13 (7'0")	0.71	tr	1cm	0.21		>THE HIGHLY ALTERED TRACHYTE DIFFERS FROM SIMPLE
		TO 1cm FELDSPAR PHENOCRYSTS LOCALLY (WHITE, SANIDINE)	003	2.13 (7'0")	2.44 (8'0")	0.31	tr	"	0.14		ALTERED TRACHYTE AS FOLLOW
3.73 (12'3")	5.56 (18'3")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; 5% GREY-GREEN	004	2.44 (8'0")	3.73 (12'3")	1.29	tr	"	0.08		- HIGHLY ALTERED IS PALE GREEN
		ROUNDED INCLUSIONS OF 4-6CM; HIGHLY CARBONATED THROUGHOUT	005	3.73 (12'3")	5.56 (18'3")	1.83	tr	-	0.17		TO GREY DUE TO SERICITE & SILICIF
		10% CHLORITIZED MAFICS									ATION & SIMPLE ALTERED TRACHYTE RED-BLACK WITH CHLORITE USUALL AS GROUNDMASS
		> QUARTZ VEIN @ 54 DTCA (0.05) @ 3.94 (12'11")									
		> SHEAR PLANE/FRACTURE @ 60 DTCA @ 3.86 (12'8")									- PYRITE CONTENT IS HIGHER IN HIG ALTERED
5.56 (18'3")	7.01 (23'0")	SYENITE; - SAME AS 1.42-3.73; HIGHLY CARBONATED; LOCALLY @	006	5.56 (18'3")	7.01 (23'0")	1.45	tr	-	0.09		- PYRITE IS USUALLY FINER IN HIG ALTERED
		6.15 (20'2") TO 6.20 (20'4") TRACHYTE									
		> CHERTY QUARTZ VEIN & SHEAR PLANE @ 66 DTCA THROUGHOUT									
7.01 (23'0")	7.32 (24'0")	FAULT ZONE; LIMITED FAULT GOUGE BUT HIGHLY SHEARED	007	7.01 (23'0")	7.32 (24'0")	0.31	tr	-	0.09		
		SHIMS @ 71 DTCA @ 7.29 (23'11"); FAULT GOUGE WITH 0.05 BROWN									
		CLAY @ 45 DTCA @ 7.04 (23'1")									
7.32 (24'0")	7.57 (24'10")	TRACHYTE - ALTERED; 10% 0.02 PHENOCRYSTS; RED; NON CARBONATED	008	7.32 (24'0")	7.57 (24'10")	0.25	tr	0.02	0.10		
7.57 (24'10")	10.67 (35'0")	TRACHYTE - ALTERED; 50% 0.03 PHENOCRYSTS; PINK COLOURATION;	009	7.57 (24'10")	8.97 (29'5")	1.40	tr	0.03	0.08		
		HIGHLY CARBONATED; HIGHLY FOLIATED WITH GREY CARBONATE	010	8.97 (29'5")	10.67 (35'0")	1.70	tr	0.03	0.09		
		VEINING & BRECCIATED (ROUND FRAGMENTS) @ 75 DTCA @ 7.87 (25'10")									
		10% CHLORITE VEINING FOLIATED @ 55 DTCA; ONE GREEN-GREY									
		ROUNDED 3cm FRAGMENT @ 9.19 (30'0") IS HIGHLY CARBONATED									
		> RED POSSIBLY SYENITE DYKES WITH WHITE QUARTZ VEINING									
		IS NON CARBONATED @ 7.92 (26'0") TO 8.0 (26'3") @ 50 DTCA @									
		8.84 (29'0") TO 8.89 (29'2")									
		> STRONG SHEAR PLANE/FAULT PLANE @ 45 DTCA @ 8.53 (280°)									

DIAMOND DRILL RECORD

SUTTON-HANSON BLOCK

DDH #4

CORE SIZE _____ LENGTH _____ LOCATION _____

AZIMUTH _____ ACID TESTS: FOOTAGE ____ DIP ____ DATE STARTED ____ COMPLETED ____

ANGLE _____ CLAIM # _____ LOGGED BY _____

FOOTAGE - METRES FROM	TO	DESCRIPTION	SAMPLES #	FROM	TO	LENGTH	% FeS2	SIZE OF FeS2	ASSAYS Au g/t	Ag g/t	NOTES
10.67 (35'0")	10.85 (35'7")	CHERTY SILICIFIED VEINING; COARSE & FINE DISSEMINATED FeS2 IN PALE GREY CHERTY SILICIFICATION; 15% CHLORITE; 35% TRACHYTE HIGHLY CARBONATED; VEIN IS MOTTLED WITH FELDSPAR CRYSTALS AS INCLUSIONS	011	10.67 (35'0")	10.85 (35'7")	0.18	3	fine	0.27	1.1	
		> VEINING // FOLIATION @ 55 DTCA									
10.85 (35'7")	12.45 (40'10")	TRACHYTE - ALTERED; SAME AS 7.57-10.67; PINK COLOURATION; HIGHLY CARBONATED; 30% CHLORITE & MODERATELY CARBONATED @ 11.73 (38'6") TO 11.96 (39'3")	012	10.85 (35'7")	11.73 (38'6")	0.88	0.5	0.01-0.04	0.09	1.1	
			013	11.73 (38'6")	12.45 (40'10")	0.72	0.5	"	0.17	1.2	
		> LATE QUARTZ-CARBONATE VEINS @ 15 & 45 DTCA @ 11.58 (38'0") & 11.73 (38'6") CONTAINING 1% CHALCOPYRITE									
12.45 (40'10")	13.54 (44'5")	CHERTY SILICIFIED VEINING; FINE DISSEMINATED & VEINED FeS2 & 10% QUARTZ-ANKERITE VEINING; 1 CM ROUNDED GREY FRAGMENTS ARE PARTIALLY ASSIMILATED @ 13.23 (43'5") TO 13.41 (44'0") & CONTAIN 10% COARSE FeS2; PINK COLOURATION; 60% TRACHYTE; SERICITIZED	014	12.45 (40'10")	13.54 (44'5")	1.09	5.5	fine to 0.4	2.21	1.1	
		> SILICIFICATION @ 50 DTCA									
		> QUARTZ-ANKERITE VEINING @ 40 DTCA	015	13.54 (44'5")	13.72 (45'0")	0.18	1.5	-	0.44	0.9	
13.54 (44'5")	13.72 (45'0")	SYENITE; SAME AS 1.42-3.75; MASSIVE; RED-GREY; HIGHLY CARBONATED & 20% CHLORITE									
		> CONTACT @ 56 DTCA @ 13.54 IS QUARTZ VEINLET	016	13.72 (45'0")	14.33 (47'0")	0.61	6	fine to 0.1	0.84	0.8	
13.72 (45'0")	14.33 (47'0")	CHERTY SILICIFIED VEINING; SAME AS 12.45-13.54 BUT LESS SILICIFIED; 10% CHLORITE; FINELY DISSEMINATED FeS2 THROUGHOUT; HIGHLY CARBONATED; SERICITIZED/WEAKLY; GREY IN COLOUR									
		> FOLIATION & CHERTY VEINING @ 45 DTCA									
		> SHEAR PLANE/FRACTURE @ 42 DTCA @ 14.27 (46'10")									
14.33 (47'0")	15.06 (49'5")	CHERTY SILICIFIED VEINING; 65% PALE GREY-BLUE VEINING IN TRACHYTE WHICH IS LESS ALTERED AWAY FROM VEINING; WEAKLY TO NON CARBONATED; FINELY DISSEMINATED FeS2 THROUGHOUT; LOCALLY MOTTLED & OVERPRINTING EARLIER WHITE CARBONATE VEINING;	017	14.33 (47'0")	15.06 (49'5")	0.73	8	-	1.03	0.9	
		> VEINING @ 45 DTCA									

DIAMOND DRILL RECORD

PAGE 1 OF 3

SUTTON - HANSON BLOCK

CORE SIZE _____ LENGTH _____ LOCATION :

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ANGLE _____ CLAIM # _____ LOGGED BY _____

DDH #4

FOOTAGE - METRES FROM	TO	DECRIPTION	SAMPLES #	FROM	TO	LENGTH	% FGS	SIZE OF FEGS	ASSAYS Au g/t		Ag g/t		NOTES
15.06 (49'5")	15.32 (50'3")	TRACHYTE - HIGHLY ALTERED; 10% QUARTZ-ANKERITE; 30% SILICIFICATION; LOCALLY WEAKLY CARBONATED; FINELY DISSEMINATED FeS2; SERICITIZATION THROUGHOUT FUCHSITE	018	15.06 (49'5")	15.32 (50'3")	0.26	6	~0.02	0.8		0.8		
15.32 (50'3")	16.74 (54'11")	SYENITE - COARSE DISSEMINATED FeS2; RED-PURPLE COLOURATION; 10% CHLORITE & HIGHLY CARBONATED; TRACHYTE LOCALLY @ 70-75 TCA > CONTACT @ 70 TCA @ 15.32 (50'3")	019	15.32 (50'3")	16.74 (54'11")	1.42	2.5	~0.02	0.12		0.6		
16.74 (54'11")	17.07 (56'0")	TRACHYTE - HIGHLY ALTERED; 70% PHENOCRYSTS; FINE & COARSE DISSEMINATED FeS2 THROUGHOUT: > SILICIFIED VEIN @ 35 TCA @ 16.89 (55'5") TO 16.92 (55'6")	020	16.74 (54'11")	17.07 (56'0")	0.33	8	~0.03	0.35		0.9		
17.07 (56'0")	17.4 (57'0")	CHERTY SILICIFIED VEINING; 10% TRACHYTE; VERY HIGHLY CARBONATED & WITH SERICITIZATION THROUGHOUT; GREY COLOURATION > HIGHLY FOLIATED @ 55 TCA	021	17.07 (56'0")	17.4 (57'0")	0.33	6.5	TRACE	0.36		0.8		
17.4 (57'0")	17.93 (58'10")	TRACHYTE - HIGHLY ALTERED; 30% CHERTY VEINING @ 55 TCA; 10% CHLORITE; 30% PHENOCRYSTS AVERAGING 0.05; MODERATELY CARBONATED THROUGHOOT	022	17.4 (57'0")	17.93 (58'10")	0.53	7	~0.05	0.54		0.8		
17.93 (58'8")	18.19 (59'8")	SYENITE - SAME AS 15.32 - 16.74; HIGHLY CARBONATED THROUGHOUT WITH 25% CHLORITE	023	17.93 (58'10")	18.19 (59'8")	0.26	2.5	—	0.27		0.8		
18.19 (59'8")	19.28 (63'3")	TRACHYTE - HIGHLY ALTERED; FINELY < COARSE DISSEMINATED FeS2; HIGHLY CARBONATED; SERICITE < SILICIFICATION THROUGHOUT; 20% PHENOCRYSTS > VEINING < SILICIFIED @ 45 TCA	024	18.19 (59'8")	19.28 (63'3")	1.09	7	0.01-0.06	1.83		0.7		
19.28 (63'3")	19.58 (64'5")	CHERTY SILICIFIED VEINING; SERICITIZED; WEAKLY CARBONATED; SAME AS DESCRIBED PREVIOUSLY; 5-10% TRACHYTE > SHEAR PLANE @ 35 TCA @ CONTACT @ 19.58 (64'3")	025	19.28 (63'3")	19.58 (64'5")	0.30	6	~0.01 0.01-0.02	0.34		0.6		
19.58 (64'3")	20.73 (68'0")	TRACHYTE - HIGHLY ALTERED; GREY COLOURATION DUE TO INTENSE SILICIFICATION < SERICITIZATION; SAME AS 18.19 - 19.28; WEAKLY TO MODERATELY CARBONATED; 65% PHENOCRYSTS	026	19.58 (64'5")	20.73 (68'0")	1.15	6	~0.02	0.28		0.4		
20.73 (68'0")	21.03 (69'0")	CHERTY SILICIFIED VEINING; 75% VEINING; COARSE DISSEMINATED PYRITE < SERICITE; WEAKLY CARBONATED; VEINING CUTS WHITE QUARTZ-ANKERITE XEINING	027	20.73 (68'0")	21.03 (69'0")	0.30	4	—	0.24		0.6		

DIAMOND DRILL RECORD

SUTTON-HANSON BLOCK

CORE SIZE _____ LENGTH _____ LOCATION _____

AZIMUTH _____ ACID TESTS: FOOTAGE ____ DIP ____ DATE STARTED ____ COMPLETED ____ DDH #4

ANGLE _____ CLAIM # _____ LOGGED BY _____

FOOTAGE - METRES FROM	TO	DECRIPTION	SAMPLES #	FROM	TO	LENGTH	% FeS2	SIZE OF FeS2	ASSAYS Au g/t	Au g/t	Ag g/t	Ag g/t	NOTES
21.03 (69'0")	22.13 (73'7")	TRACHYTE - HIGHLY ALTERED; 30% SILICIFICATION (GREY); SAME AS 19.38 - 20.73; VEINING & TRACHYTE ARE HIGHLY CARBONATED & WITH SERICITIZATION; 5% COARSE DISSEMINATED FeS2 IN SAMPLE #029; FINE GRAINED MATRIX OF CHLORITE @ 22.00 (72'2") TO 22.10 (72'6"); CONTACT @ 50 DTCA @ 22.13 IS VEINED & POSSIBLY A MYLONITE & IS OFFSET DEXTRALLY BY A FRACTURE (BY 0.25) @ 175 DTCA; 70% PHENOCRYSTS IN #028 & 50% IN #029; SILICIFIED VEINING CONTAINING 20% COARSE & FINE FeS2 @ 45 DTCA @ 21.16 (69'5") & @ 21.94 (72'0") WHICH ARE 02S WIDE	028	21.03 (69'0")	22.00 (72'2")	0.97	8	F: 0.02	0.77		0.6		
			029	22.00 (72'2")	22.13 (73'7")	0.43	3	"	0.4		0.4		
		> QUARTZ-ANKERITE VEINING @ 45 DTCA @ 21.39 (70'2")											END OF 1ST ZONE OF INTENSE ALTERATION + VEINING
		> VEINING IN #029 @ 50 DTCA											
22.13 (73'7")	23.11 (75'10")	SYENITE; RED COLOURATION; HIGHLY CARBONATED; 5-10% TRACHYTE LOCALLY	030	22.13 (73'7")	23.11 (75'10")	0.98	1	F: 0.02	0.07				
23.11 (75'10")	23.29 (76'5")	TRACHYTE - ALTERED; 20% CHLORITE; HIGHLY CARBONATED; QUARTZ VEINLETS @ 35 DTCA @ 23.11 (75'10"); LIMITED SERICITE; RED-GREY	031	23.11 (75'10")	23.29 (76'5")	0.18	1	F: 0.01	0.21				
23.29 (76'5")	23.70 (77'9")	SYENITE; SAME AS 22.13 - 23.11	032	23.29 (76'5")	23.7 (77'9")	0.41	tr	-	0.09				
23.70 (77'9")	24.00 (78'9")	TRACHYTE - ALTERED; SAME AS 23.11 - 23.29	033	23.7 (77'9")	24.0 (78'9")	0.30	1	F: 0.01	0.07				
		> QUARTZ VEIN (0.01) @ 32 DTCA @ 24.00 (78'9")											
24.00 (78'9")	24.23 (86'1")	SYENITE; SAME AS 22.13 - 23.11; 20% TRACHYTE IN #034 & NO TRACHYTE IN #035; HIGHLY CARBONATED THROUGHOUT & ESPECIALLY IN THE 15% CHLORITE	034	24.0 (78'9")	24.56 (80'7")	0.56	05	F: 0.01	0.12				
			035	24.56 (80'7")	24.73 (81'1")	1.67	tr	-	0.08				
		> CHERTY QUARTZ VEIN @ 40 DTCA @ 24.31 (79'9")											
		> QUARTZ VEIN @ 5 DTCA @ 25.91 (85'0") TO 26.52 (87'0")											
		> QUARTZ-ANKERITE VEIN @ 5 DTCA @ 24.03 (80'8")											
24.23 (86'1")	26.87 (88'2")	TRACHYTE - ALTERED; SAME AS 23.11 - 23.29; 20% CHLORITE; 40% PHENOCRYSTS	036	24.23 (86'1")	26.87 (88'2")	0.64	05	F: 0.3	0.06				
26.87 (88'2")	27.13 (89'0")	SHEARED TRACHYTE - VERY FINE GRAINED TO APHANITIC; HIGHLY CARBONATED; GREEN-GREY; 10% 0.01 ROUNDED FRAGMENTS; FINELY DISSEMINATED FeS2 THROUGHOUT	037	26.87 (88'2")	27.13 (89'0")	0.26	10	F: 0.01	1.52				MYLONITE?) SIMILAR TO WACKE BUT FINER GRAINED
		> QUARTZ VEIN @ 72 DTCA @ 27.1 (88'11")											
		> CONTACTS @ 80 DTCA ARE UNDULATING											

DIAMOND DRILL RECORD

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SUTTON - HANSON BLOCK

CORE SIZE _____ LENGTH _____ LOCATION _____

AZIMUTH _____ ACID TESTS: FOOTAGE ____ DIP ____ DATE STARTED ____ COMPLETED ____

ANGLE _____ CLAIM # _____ LOGGED BY _____

DDH #4.

FOOTAGE - METRES FROM	TO	DECRIPTION	SAMPLES #	FROM	TO	LENGTH	% FGE	SIZE OF FEGMENTS	ASSAYS Au g/t	Ag g/t	NOTES
27.13 (89'0")	28.07 (92'1")	TRACHYTE - ALTERED; RED COLOURATION = PINK IN #039; WEAKLY CARBONATED; FINE = COARSE DISSEMINATED FeS2 in #041 = COARSE THROUGHOUT; GREY QUARTZ VEINING = 10% PHENOCRYSTS; 30% CHLORITE = 10% QUARTZ-ANKERITE IN #039 = 15% IN #041	038	27.13 (89'0")	27.36 (89'9")	0.23	2	x̄ = 0.01	0.12		
			039	27.36 (89'9")	27.53 (90'4")	0.17	3.5	x̄ = 0.01	1.55		
			040	27.53 (90'4")	27.94 (91'8")	0.41	0.5	x̄ = 0.04	0.07		
			041	27.94 (91'8")	28.07 (92'1")	0.13	3	x̄ = 0.04	0.30		
		> QUARTZ VEIN @ 5 DTCA THROUGHOUT WITH BLACK TOURMALINE(?) VEINING @ 20 DTCA -									
		> FOLIATED @ 65 DTCA									
		> CONTACTS @ 65 DTCA @ 27.36 (89'9") & 122 DTCA @ 27.53 (90'4")									
		> QUARTZ-ANKERITE VEINS @ 120 DTCA - QUARTZ VEINS @ 50-55 DTCA (0.01 - 0.03 WIDE)									
		> SHEAR PLANE/FRACTURES @ 50 DTCA @ 27.84 (91'4")									
28.07 (92'1")	28.30 (92'10")	SYENITE; RED; HIGHLY CARBONATED	042	28.07 (92'1")	28.30 (92'10")	0.23	tr	-	0.39		
28.30 (92'10")	28.60 (93'10")	CHERTY SILICIFIED VEINING; 5% QUARTZ-ANKERITE VEINING = 15% TRACHYTE; WEAKLY CARBONATED	043	28.30 (92'10")	28.60 (93'10")	0.30	6	-	0.56		START OF 2ND ZONE > HIGHLY ALTERED
		> VEINING @ 52 DTCA									
28.60 (93'10")	30.48 (100'0")	TRACHYTE - HIGHLY ALTERED; 30% PHENOCRYST =; NON CARBONATED; COARSE DISSEMINATED FeS2; HIGHLY SERICITIZED & SILICIFIED; PINK-GREEN COLOURATION; CHLORITIZED	044	28.60 (93'10")	29.00 (95'3")	0.40	4	x̄ = 0.05	0.15		
			045	29.00 (95'3")	29.92 (98'2")	0.92	1	x̄ = 0.02	0.19		
			046	29.92 (98'2")	30.48 (100'0")	0.56	1	x̄ = 0.03	0.17		
		> 2% QUARTZ-ANKERITE VEINING @ 40 DTCA IN #044 = 5% @ 58 DTCA IN #046 & QUARTZ-ANKERITE VEIN @ 30 DTCA @ 29.77 (97'8")									
30.48 (100'0")	31.70 (104'0")	SYENITE; RED; 10% TRACHYTIC LOCALLY; HIGHLY CARBONATED IN MICRO VEINING	047	30.48 (100'0")	31.70 (104'0")	1.22	tr	-	0.10		
31.70 (104'0")	32.00 (105'0")	TRACHYTE - HIGHLY ALTERED; SAME AS 28.6 - 30.48; FINE & COARSE DISSEMINATED FeS2; MODERATELY CARBONATED; 5% QUARTZ-ANKERITE VEINING; ONE 2cm x 2cm SQUARE HEMATIZED PHENOCRYST; SOME ANGULAR FRAGMENTS	048	31.70 (104'0")	32.00 (105'0")	0.30	2	x̄ = 0.05	0.44		
32.00 (105'0")	32.56 (106'10")	CHERTY SILICIFIED VEINING; - QUARTZ VEIN BRECCIA; ROUNDED CHERTY FRAGMENTS UP TO 1cm IN 20% QUARTZ-ANKERITE VEINING; GREY MATRIX (80%) IS FINE GRAINED APHANITIC; FINE & COARSE DISSEMINATED FeS2	049	32.00 (105'0")	32.56 (106'10")	0.56	4	-	0.43		
		> SILICIFICATION @ 27 DTCA AS ARE CONTACTS									END OF 2ND ZONE OF ALTERATN

DIAMOND DRILL RECORD

PAGE [illegible]

SUTTON-HANSON BLOCK

DDH #4

CORE SIZE ______ LENGTH ______ LOCATION:

AZIMUTH ______ ACID TESTS: FOOTAGE ___ DIP ___ DATE STARTED ____ COMPLETED ____

ANGLE ______ CLAIM # ______ LOGGED BY ______

FOOTAGE-METRES FROM	TO	DECRIPTION	SAMPLES #	FROM	TO	LENGTH	% FeS_2	SIZE [illegible]	ASSAYS Au g/t	Ag g/t	NOTES
32.56 (106'10")	35.89 (117'9")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; 20% GREY-BLACK FRAGMENTS 1-6CM & ROUNDED IN VARIOUS STATES OF ASSIMILATION; FRAGMENTS ARE HIGHLY CARBONATED & MATRIX IS RED & CHLORITIZED & WITH MUSCOVITE & BIOTITE; ONE FRAGMENT CONTAINS ANOTHER WITH INTERNAL FOLIATION; 5% TRACHYTE LOCALLY	050	32.56 (106'10")	34.16 (112'1")	1.60	tr	–	0.10		
			051	34.16 (112'1")	35.89 (117'9")	1.73	tr	–	0.06		
35.89 (117'9")	36.17 (118'8")	TRACHYTE - HIGHLY ALTERED; SAME AS 28.6-30.48 BUT HIGHLY CARBONATED	052	35.89 (117'9")	36.17 (118'8")	0.28	tr	x̄=.002	0.27		START OF SCD MAJOR ALTERATION ZONE
36.17 (118'8")	36.40 (119'5")	CHERTY SILICIFIED VEINING; WITH 30% QUARTZ-ANKERITE THAT BRECCIATES & ALTERS CHERT VEIN; HIGHLY CARBONATED; 20% TRACHYTE; GREY; FINE & COARSE FeS_2 > CONTACT @ 44 DTCA	053	36.17 (118'8")	36.40 (119'5")	0.23	4	–	1.52		
36.40 (119'5")	36.7 (120'5")	SHEARED TRACHYTE - VERY FINE GRAINED TO APHANITIC; SAME AS 26.87-27.13; FINELY DISSEMINATED FeS_2; CHERTY VEIN @ 40 DTCA @ 36.58 (120'0"); HIGHLY CARBONATED > HEMATIZED SHEAR PLANE/FRACTURE @ 15 DTCA @ 36.68 (120'4")	054	36.40 (119'5")	36.7 (120'5")	0.30	7	–	0.58		
36.7 (120'5")	37.19 (122'0")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; SAME AS 32.56-35.89	055	36.7 (120'5")	37.19 (122'0")	0.49	0.5	–	0.17		
37.19 (122'0")	37.46 (122'11")	CHERTY SILICIFIED VEINING; BRECCIATED GREY & DARK GREY FRAGMENTS; HIGHLY CARBONATED; > SILICIFICATION & PYRITE VEINING @ CONTACT @ 30 DTCA	056	37.19 (122'0")	37.46 (122'11")	0.27	6	–	0.91		
37.46 (122'11")	39.98 (131'2")	TRACHYTE - HIGHLY ALTERED; GREY WITH 20% CHERTY VEINING & FINELY DISSEMINATED VEINING; 30% CHLORITE; SILICIFIED; HIGHLY CARBONATED; 30% PHENOCRYSTS; SILICIFICATION & CHERTY VEINING AT VARIOUS ANGLES; PALE TO EMERALD GREEN, POSSIBLY FUSCHITE @ 39.7 (130'9") TO 39.95 (131'0") > FOLIATED @ 45 DTCA	057	37.46 (122'11")	37.79 (124'0")	0.33	7	x̄= .001-.002	0.84		
			058	37.79 (124'0")	38.71 (127'0")	0.92	7	"	0.86		
			059	38.71 (127'0")	39.52 (127'8")	0.81	5	"	0.31		
			060	39.52 (127'8")	39.98 (131'2")	0.46	3.5	"	0.49		
39.98 (131'2")	41.2 (135'2")	CHERTY SILICIFIED VEINING; 40% CHERTY VEINING IN GREY MATRIX (FINE GRAINED); 10% PINK TRACHYTE; FINELY DISSEMINATED FeS_2; HIGHLY CARBONATED > SILICIFIED @ 48 DTCA	061	39.98 (131'2")	41.2 (135'2")	1.22	7	–	0.63		

DIAMOND DRILL RECORD

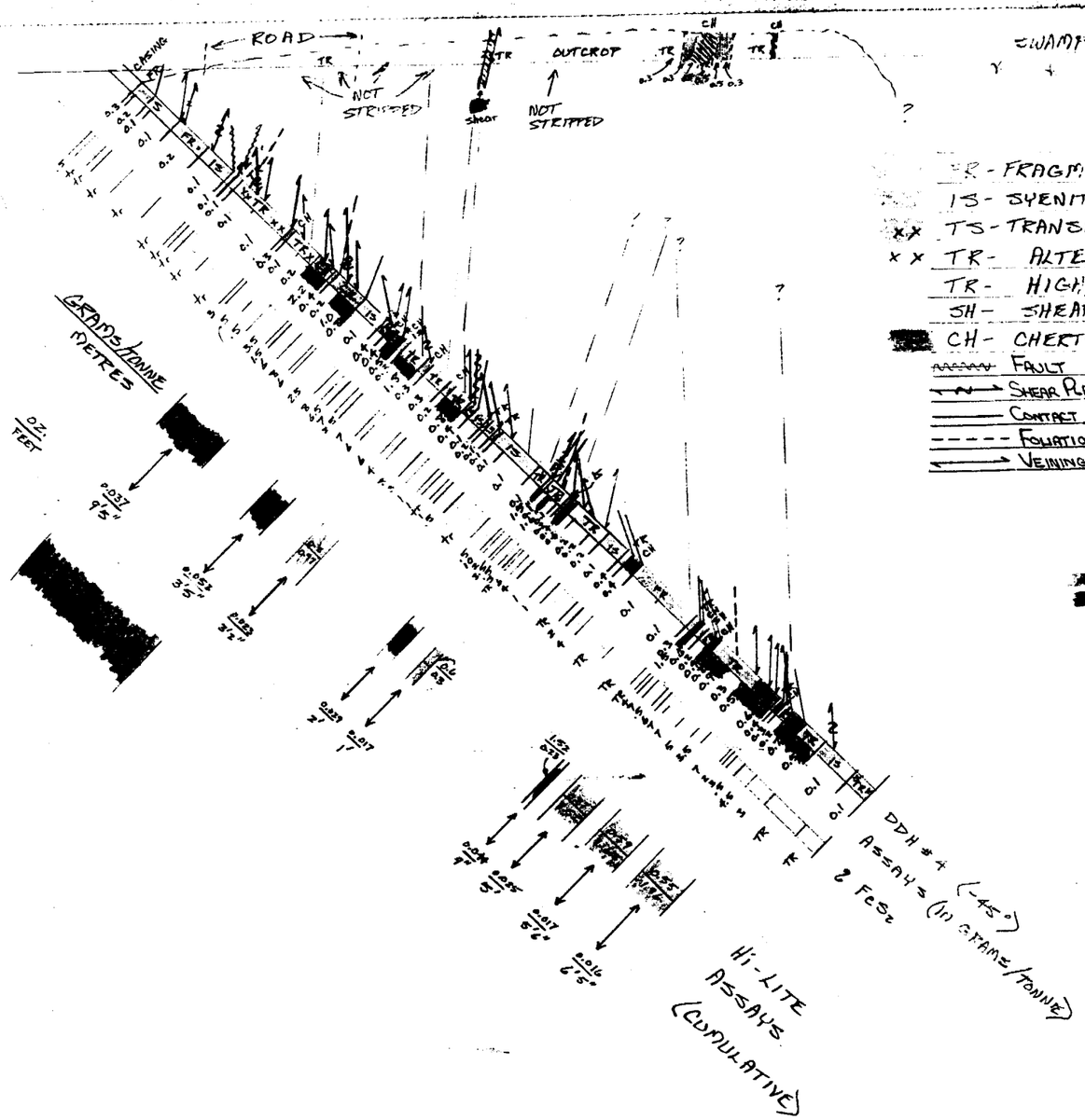
SUTTON-HANSON BLOCK

CORE SIZE _____ LENGTH _____ LOCATION:

AZIMUTH _____ ACID TESTS: FOOTAGE ___ DIP ___ DATE STARTED ___ COMPLETED ___ DDH#4

ANGLE _____ CLAIM # _____ LOGGED BY _____

FOOTAGE - METRES FROM	TO	DESCRIPTION	SAMPLES #	FROM	TO	LENGTH	% FeS	SIZE OF FeS	ASSAYS Au g/t	Ag g/t	NOTES
41.2 (135'2")	41.35 (135'8")	TRACHYTE - HIGHLY ALTERED; SAME AS 37.46-37.98 BUT HEMATIZED RED	062	41.2 (135'2")	41.35 (135'8")	0.15	2	≤ 0.02	0.37		
41.35 (135'8")	41.60 (136'6")	CHERTY SILICIFIED VEINING; SAME AS 37.98-41.2 > CONTACT @ 48 DTCA @ 41.60 (136'6") > HEMATIZED SHEAR PLANE @ 45 DTCA @ 41.58 (136.5")	063	41.35 (135'8")	41.60 (136'6")	0.25	3	—	0.34		
41.60 (136'6")	42.14 (138'3")	TRACHYTE - HIGHLY ALTERED; SAME AS 37.46-37.98; > 5% CHLORITE VEINING @ 58 DTCA	064	41.60 (136'6")	42.14 (138'3")	0.54	0.5	≤ 0.02	0.22		
42.14 (138'3")	42.90 (140'9")	CHERTY SILICIFIED VEINING; GREY; FINELY - COARSE DISSEMINATED FeS2; HIGHLY CARBONATED > CONTACT & VEINING @ 35 DTCA @ 42.14 (138'3") THROUGHOUT	065	42.14 (138'3")	42.90 (140'9")	0.76	4.5	—	0.68		
42.90 (140'9")	44.09 (144'8")	TRACHYTE - HIGHLY ALTERED; SAME AS 37.46-37.98 BUT PINK; HIGHLY CARBONATED; MODERATELY SERICITIZED; COARSE DISSEMINATED FeS2; EMERALD GREEN, POSSIBLY FUCHSITIC OR COPPER-LADEN FRAGMENT (0.02 x 1.5CM) @ 43.28 (142'0"); POSSIBLE SHEAR ZONE CONTACT WITH 0.25 QUARTZ-CARBONATE VEIN @ 50 DTCA @ 44.09 (144'8")	066	42.90 (140'9")	44.09 (144'8")	1.19	3	≤ 0.02	0.47		END OF 3RD MAJOR ALTERATION ZONE @ 44.09
44.09 (144'8")	46.02 (151'0")	SYENITE; DARK RED, MASSIVE; WEAKLY CARBONATED > SHEAR PLANE @ 15 DTCA @ 45.72 (150'0") TO 46.02 (151'0")	067	44.09 (144'8")	46.02 (151'0")	1.93	tr	—	0.06		
46.02 (151'0")	47.24 (155'0")	TRACHYTE - ALTERED; WEAKLY CARBONATED; RED-GREY WITH LOCAL CHLORITE; 30% PHENOCRYSTS	068	46.02 (151'0")	47.24 (155'0")	1.22	tr	0.01-0.05	0.05		TRACHYTE APPEARS TO BE OPENING UP AGAIN
	47.24 (155'0")	END OF HOLE									



IR - FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE

IS - SYENITE

TS - TRANSITIONAL ZONE SYENITE TO TRACHYTE

TR - ALTERED TRACHYTE

TR - HIGHLY ALTERED TRACHYTE - SILICIFIED, SERICITIZED, FeS_2

SH - SHEARED TRACHYTE - VERY FINE GRAINED; ABUNDANT FINE FeS_2

CH - CHERTY SILICIFIED VEINING

Fault

Shear Plane

Contact

Foliation

Veining

0.5 - 0.99 g/tonne

> 1.0 g/tonne

1:250

MICHAEL SUTTON

21/12/89

DIAMOND DRILL RECORD

SUTTON - HANSON BLOCK

CORE SIZE BQ LENGTH 88.09 (289'0") LOCATION: 78 METRES WEST NORTHWEST OF POST #1 DDH #3

AZIMUTH 160° ACID TESTS: FOOTAGE 88.09 (289'0") DIP -47° DATE STARTED Dec 6/89 COMPLETED Dec 7/89

ANGLE -47° CLAIM # 1048455 LOGGED BY MICHAEL SUTTON

DTCA = DEGREES TO CORE AXIS

FOOTAGE - METRES FROM	FEET	TO	FEET	DECRIPTION	SAMPLES #	FROM	TO	LENGTH	% FeS2	SIZE OF FEATURE	ASSAYS Au g/t	Ag g/t	NOTES
0	(0)	3.25	(10'8")	CASING - O/B									> USUALLY THE RED SYENITE IS HIGHLY MAGNETIC; THE FRAGMENTS VARY IN THEIR DEGREE OF MAGNET AND HIGHLY ALTERED = SERICITIZED ZONES ARE NON MAGNETIC
3.25	(10'8")	4.67	(15'4")	TRACHYTE - HIGHLY ALTERED; FINE & COARSE DISSEMINATED PYRITE; NON CARBONATED; 3.73 (12'3") TO 4.04 (13'3") IS FINE GRAINED WITH PALE GREEN-GREY MATRIX; 10% SERICITIZATION & 10% CHLORITE; SILICIFIED THROUGHOUT INCREASING TOWARDS 4.67 (15'4"); NON MAGNETIC	069	3.25 (10'8")	3.73 (12'3")	0.48	3	UP TO 0.5 x = 0.05	1.12		
					070	3.73 (12'3")	4.04 (13'3")	0.31	6	x = 0.05	0.64		
					071	4.04 (13'3")	4.67 (15'4")	0.63	3	x = 0.05	0.43		
				> GREY SILICIFIED VEINING @ 64 DTCA TO 74 DTCA WITH UP TO 15% FeS2 & 2% QUARTZ-ANKERITE									> THE HIGHLY ALTERED TRACHYTE DIFFERS FROM SIMPLE ALTERED TRACHYTE AS FOLLOWS:
4.67	(15'4")	5.18	(17'0")	CHERTY SILICIFIED VEINING; AMORPHOUS; BRECCIATED WITH 0.01 FRAGMENTS & QUARTZ-ANKERITE (WHITE) ALTERATION OF GREY VEIN; COARSE & FINE DISSEMINATED PYRITE & COARSE BLEB FeS2	072	4.67 (15'4")	5.18 (17'0")	0.51	7	—	0.32	—	- HIGHLY ALTERED IS PALE GREEN TO GREY OWING TO SERICITIZATION AND SILICIFICATION & SIMPLE ALTERED TRACHYTE IS RED-BLACK WITH CHLORITE USUALLY AS GROUNDMASS
				> VEINING @ 48 DTCA									- PYRITE CONTENT IS HIGHER IN HIGHLY ALTERED
5.18	(17'0")	5.61	(18'5")	TRACHYTE - HIGHLY ALTERED; HIGHLY SERICITIZED & SILICIFIED AS IN 3.25 - 4.67; COARSE & FINELY DISSEMINATED FeS2;	073	5.18 (17'0")	5.61 (18'5")	0.43	5	x = 0.05	0.39		- PYRITE IS USUALLY FINER IN HIGHLY ALTERED
				> QUARTZ-ANKERITE VEIN @ 60 DTCA									
				> QUARTZ VEIN @ 68 DTCA									
				> SHEAR PLANE/FRACTURES @ 140 DTCA @ 5.49 (18'0")									
5.61	(18'5")	7.49	(24'7")	TRACHYTE - HIGHLY ALTERED; 30% MASSIVE RED SYENITE WITH 1-5 cm INCLUSIONS OF CHLORITIZED VOLCANICS CONTAINING 10% FeS2 AND SILICIFICATION (10%); LOCALLY HIGHLY SERICITIZED AND FINE GRAINED; 15% QUARTZ-ANKERITE & SILICIFIED VEINING; WEAKLY CHLORITIZED & CARBONATED; COARSE DISSEMINATED FeS2	074	5.61 (18'5")	6.15 (20'2")	0.54	2.5	x = 0.03	1.05		
					075	6.15 (20'2")	6.88 (22'7")	0.73	4	"	0.5%		
					076	6.88 (22'7")	7.49 (24'7")	0.61	2.5	"	0.15		
				> HEMATIZED SHEAR PLANES (FAULT ZONES) @ 130 DTCA @ 6.1 (20'0"), @ 55 DTCA @ 6.76 (22'2"), & @ 50 DTCA @ 6.2 (20'4")									
				> VEINING @ 34 DTCA @ CONTACT WITH MASSIVE SYENITE & @ 58 DTCA @ 7.42 (24'4") & @ 50 DTCA @ 7.19 (23'7")									

DIAMOND DRILL RECORD

SUTTON - HANSON BLOCK

DDH#3

CORE SIZE _____ LENGTH _____ LOCATION:

AZIMUTH _____ ACID TESTS: FOOTAGE ___ DIP ___ DATE STARTED ___ COMPLETED ___

ANGLE _____ CLAIM # _____ LOGGED BY _____

FOOTAGE-METRES FROM	TO	DECRIPTION	SAMPLES #	FROM	TO	LENGTH	% FeS2	SIZE OF FELDSPARS	ASSAYS Au g/t	Ag g/t	NOTES
7.49 (24'7")	7.65 (25'1")	CHERTY SILICIFIED VEINING; COARSE BLEBS & DISSEMINATED FeS2 IN HIGHLY SERICITIZED & BRECCIATED CHERTY GREY SILICIFICATION; WEAKLY CARBONITIZED; 10% QUARTZ-ANKERITE AS BRECCIATED FRAGMENTS	077	7.49 (24'7")	7.65 (25'1")	0.16	10	—	3AT		
		> CONTACTS @ 45 DTCA									
7.65 (25'1")	8.53 (28'0")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; RED MASSIVE SYENITE WITH 10% INCLUSIONS IN DIFFERING STATES OF ASSIMILATION & UP TO 5CM WIDE; FRAGMENTS ARE WEAKLY MAGNETIC; NON CARBONATED; 10% CHLORITE; 10% CHALCOPYRITE BLEBS IN QUARTZ VEINLETS @ 52 DTCA; 5% TRACHYTE PRESENT WITH HOMOGENIOUS 0.01 SANIDINE	078	7.65 (25'1")	8.53 (28'0")	0.88	05	0.01	007		
8.53 (28'0")	8.99 (29'6")	TRACHYTE - HIGHLY ALTERED; SAME AS 5.61-7.49; HIGHLY CARBONATED, HIGHLY CHLORITIZED, FINE-GRAINED FELSIC VOLCANIC FRAGMENTS @ 8.94 (29'4") TO 8.77 (28'9") WITH FINELY DISSEMINATED PYRITE (8%); OVERALL WEAKLY CARBONITIZED; 15% HOMOGENIOUS 0.01 PHENOCRYSTS OF SANIDINE	079	8.53 (28'0")	8.99 (29'6")	0.46	4	~0.01	0.38		
		> VEINING @ 42 DTCA									
8.99 (29'6")	9.65 (31'8")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; SAME AS 7.65-8.53; HIGHLY CARBONITIZED & WITH 20% CHLORITE; MAGNETIC	080	8.99 (29'6")	9.65 (31'8")	0.66	tr	—	0.06		
9.65 (31'8")	9.88 (32'5")	FRAGMENTS OF CHLORITIZED VOLCANICS BUT WITH TRACHYTE; 30% FRAGMENTS ASSIMILATED TO WISPY CHLORITE & PYRITE; 15% HOMOGENIOUS 0.01 PHENOCRYSTS; NON MAGNETIC	081	9.65 (31'8")	9.88 (32'5")	0.23	3	—	0.34		
		> QUARTZ VEIN @ 47 DTCA @ 9.86 (32'4")									
9.88 (32'5")	10.31 (33'1")	TRACHYTE - HIGHLY ALTERED; SAME AS 8.53-8.99; PHENOCRYSTS (20%) @ 0.01; NON MAGNETIC & HIGHLY CARBONITIZED	082	9.88 (32'5")	10.31 (33'1")	0.43	tr	~0.01	0.03		
		> SANIDINE @ 48 DTCA IN FOLIATION OR FLOW ALIGNMENT									

DIAMOND DRILL RECORD

SUTTON-HANSON BLOCK

CORE SIZE _____ LENGTH _____ LOCATION:

AZIMUTH _____ ACID TESTS: FOOTAGE ___ DIP ___ DATE STARTED ___ COMPLETED ___ DDH #3

ANGLE _____ CLAIM # _____ LOGGED BY _____

FOOTAGE-METRES FROM	TO	DESCRIPTION	SAMPLES #	FROM	TO	LENGTH	% FeS	SIZE OF FeS	ASSAYS Au g/t	Ag g/t	NOTES
10.31 (33'1")	14.02 (46'0")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; RED SYENITE CONTAINS 50% DARK GREEN-GREY CHLORITE INCLUDING 20% @ 10.31 (33'1") TO 11.58 (38'0"); FRAGMENTS = CHLORITE BLOCK ARE NON MAGNETIC = HIGHLY CARBONITIZED; 5% TRACHYTE WITH 0.01 PHENOCRYSTS (LOCALLY)	083	10.31 (33'1")	11.58 (38'0")	1.27	tr	~0.01	0.38		
			084	11.58 (38'0")	12.80 (42'0")	1.22	1	"	0.75		
			085	12.80 (42'0")	14.02 (46'0")	1.22	tr	"	0.29		
		> CHERTY SILICIFIED VEINS @ 40 DTCA THROUGHOUT (0.25 @ 10.11)									
		> FRACTURE WITH 0.005 CLAY FAULT GOUGE @ 52 DTCA @ 11.15 (36'7")									
14.02 (46'0")	14.7 (48'1")	TRACHYTE-ALTERED; MASSIVE RED SYENITE @ 14.32 (47'0") TO 14.45 (47'5"); HIGHLY CARBONITIZED; SANIDINE PHENOCRYSTS AVERAGE 1 CM, IN RED SYENITE; 10% CHLORITE; FINE = COARSE PYRITE IN CHERTY VEIN @ 40 DTCA @ 14.02 @ CONTACT; NON MAGNETIC	086	14.02 (46'0")	14.46 (48'1")	0.84	tr	~0.1	0.16		VERY LARGE PHENOCRYSTS
		> WHITE QUARTZ VEIN (VUGGY) @ 45 DTCA @ 14.17 (46'6")									
14.7 (48'1")	15.42 (50'7")	SYENITE; - RED; HIGHLY CARBONITIZED; 20% CHLORITE GIVES MODERATE 40 DTCA FOLIATION; WEAKLY MAGNETIC	087	14.46 (48'1")	15.42 (50'7")	0.76	tr	-	0.10		
15.42 (50'7")	15.72 (51'7")	TRACHYTE-ALTERED; SAME AS 14.02-14.7; NON CARBONATED WITH 20% QUARTZ VEINING @ 42 DTCA = WITH COARSE FeS2 VEINING; WEAKLY MAGNETIC	088	15.42 (50'7")	15.72 (51'7")	0.30	4	~0.1	0.61		
15.72 (51'7")	17.02 (55'10")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; SAME AS 10.31-14.02; 10% FRAGMENTS = 2% TRACHYTE (0.01); HIGHLY CARBONATED = WEAKLY MAGNETIC	089	15.72 (51'7")	17.02 (55'10")	1.30	tr	~0.01	0.07	—	
17.02 (55'10")	17.17 (56'4")	CHERTY SILICIFIED VEINING; 50% VEINING @ 47 DTCA WITH COARSE PYRITE; NON CARBONATED; GREY COLLOFORM	090	17.02 (55'10")	17.17 (56'4")	0.15	6	—	0.46		
17.17 (56'4")	17.81 (58'5")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; SAME AS 15.72-17.02; NON CARBONATED = WEAKLY MAGNETIC	091	17.17 (56'4")	17.81 (58'5")	0.64	tr	-	0.10		
17.81 (58'5")	18.29 (60'0")	CHERTY SILICIFIED VEINING IN RED SYENITE; 40% VEINING @ 40 DTCA WITH FINE = COARSE DISSEMINATED FeS2; NON CARBONATED.	092	17.81 (58'5")	18.29 (60'0")	0.48	3	-	0.09		
18.29 (60'0")	21.59 (70'10")	TRANSITIONAL ZONE TRACHYTE TO SYENITE; 30% PHENOCRYSTS @ 0.01-0.02 IN TRACHYTIC ZONES; 30% CHALCOPYRITE IN 1CM QUARTZ	093	18.29 (60'0")	19.81 (64'0")	1.22	1.5	~0.02	0.12		
			094	19.81 (64'0")	20.27 (66'6")	0.76	3	"	0.12		

DIAMOND DRILL RECORD

SUTTON - HANSON BLOCK

DDH #3

CORE SIZE _____ LENGTH _____ LOCATION:

AZIMUTH _____ ACID TESTS: FOOTAGE ____ DIP ____ DATE STARTED ____ COMPLETED ____

ANGLE _____ CLAIM # _____ LOGGED BY _____

FOOTAGE - METRES FROM	TO	DECRIPTION	SAMPLES #	FROM	TO	LENGTH	% FeS2	SIZE OF FeS2	ASSAYS Au g/t	Ag g/t	NOTES
		VEIN (3CM CHALCO) @ 42 DTCA @ 20.29 (66'7") TO 20.32 (66'8"); NON CARBONATED; QUARTZ VEINS ARE WHITE TO CLEAR	095	20.27 (66'6")	20.42 (67'0")	0.15	tr	~=0.02	5.62		
		> 5% QUARTZ VEINLETS @ 48 DTCA ~ @ 60 DTCA THROUGHOUT	096	20.42 (67'0")	21.59 (70'10")	1.17	tr	"	0.08		
21.59 (70'10")	24.92 (81'9")	SYENITE; MASSIVE; RED; HIGHLY CARBONITIZED; 5% TRACHYTE ~ 5% FRAGMENTS (VOLCANIC)									
24.92 (81'9")	25.10 (82'4")	CHERTY SILICIFIED VEIN; FINE ~ COARSE DISSEMINATED FeS2; IN A MODERATELY CARBONATED TRACHYTE; CONTACTS ARE NOT SHARP	097	24.92 (81'9")	25.10 (82'4")	0.18	4	—	0.42		
25.10 (82'4")	26.52 (87'0")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; HIGHLY CARBONATED; 20% FRAGMENTS OF 3-6 CM; POSSIBLY A RED SYENITE DIKE @ 25.6 (84'0") TO 25.91 (85'0") IS NON CARBONATED ~ WITH INDISTINGUISHABLE CONTACTS; FRAGMENT @ 25.30 (83'0") IS NON MAGNETIC (SOME ARE HIGHLY MAGNETIC) WITH 0.05 BLACK HORNBLENDE CRYSTALS IN CLOTS; CHALCOPYRITE IN CARBONATE-QUARTZ VEIN @ 26.21 (86'0")							—		
26.52 (87'0")	27.43 (90'0")	SYENITE; AS IN 21.59-24.92 > FRACTURE @ 70 DTCA @ 26.64 (87'5")									
27.43 (90'0")	31.39 (103'0")	TRACHYTE-ALTERED; SANIDINE PHENOCRYSTS @ 0.01-0.1 ~ ARE 0.02 × 0.1 @ 90 DTCA; 20% CHLORITE VEINING; CHERTY VEINING, 0.1 PHENOCRYSTS ~ FRAGMENTS @ 27.69 (90'10") TO 27.76 (91'1") @ 61 DTCA; COARSE DISSEMINATED PYRITE LOCALLY	098	27.44 (90'0")	27.74 (91'0")	0.15	4	~=0.01	0.07		ELONGATE CRYSTALS
			099	31.09 (102'0")	31.39 (103'0")	0.30	1.5	~=0.01	0.15		" "
31.39 (103'0")	34.67 (113'9")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; 2% DISCRETE FRAGMENTS ~ 10% CHLORITE IN CLOTS (ASSIMILATED INCLUSIONS?) > SHEAR PLANE/FRACTURE @ 54 DTCA @ 31.57 (103'7")									
34.67 (113'9")	34.98 (114'9")	TRACHYTE-ALTERED; SAME AS 14.02-14.66; PHENOCRYSTS @ 35 DTCA									
34.98 (114'9")	38.1 (125'0")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; SAME AS 31.39-31.67; NON MAGNETIC; 15% FRAGMENTS; 10% TRACHYTE WITH PHENOCRYSTS QUARTZ × ICA									
38.1 (125'0")	40.54 (133'0")	SYENITE; 5% TRACHYTIC ZONES WITH PHENOCRYSTS @ 0.01; WEAKLY CARBONATED; WEAKLY-MODERATELY MAGNETIC; CHALCOPYRITE IN QUARTZ VEINS IN CARBONATE VUGS; COARSE FeS2 IN SAMPLE 500 > QUARTZ VEINS @ 135 DTCA @ 39.01 (128'0")	100	38.71 (127'0")	39.3 (129'0")	0.59	2	~=0.01	0.24		
			400	39.30 (129'0")	40.54 (133'0")	1.24	tr	"	0.10		

DIAMOND DRILL RECORD

SUTTON - HANSON BLOCK

DDH #3

CORE SIZE _____ LENGTH _____ LOCATION: _____

AZIMUTH _____ ACID TESTS: FOOTAGE ____ DIP ____ DATE STARTED ____ COMPLETED ____

ANGLE _____ CLAIM # _____ LOGGED BY _____

FOOTAGE - METRES FROM	TO	DESCRIPTION	SAMPLES #	FROM	TO	LENGTH	% FeS2	SIZE OF FeS2	ASSAYS Au g/t	Ag g/t	NOTES
		> CHERTY SILICIFIED VEIN (0.02) WITH FINE FeS2 @ 60 DTCA C									
		38.76 (127'2")									
		> SHEAR PLANE / FRACTURE @ 40 DTCA C 40.31 (132'3")									
40.54 (133'0")	40.74 (133'8")	CHERTY SILICIFIED VEIN; HIGHLY CARBONATED @ IN TRACHYTIC	401	40.54 (133'0")	40.74 (133'8")	0.20	1.5	—	0.44		
		ZONE WITH COARSE & FINE DISSEMINATED FeS2									
		> CONTACTS @ 65 DTCA									
40.74 (133'8")	45.01 (147'8")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; SAME AS	402	40.74 (133'8")	42.06 (138'0")	1.32	tr	—	0.12		
		31.39 - 34.67; 20% INCLUSIONS; WEAKLY CARBONATED @ MAGNETIC	403	42.06 (138'0")	42.27 (138'8")	0.21	0.5	—	0.12		
		> QUARTZ VEINS @ 80 DTCA ARE 0.25 @ 42.06 (138') TO 42.27 (138'8")	404	42.27 (138'8")	43.08 (141'4")	0.81	tr	—	0.11		
		IN TRACHYTIC ZONE									
		> FRACTURE @ 25 DTCA @ 44.81 (147'0")									
45.01 (147'8")	48.84 (160'3")	SYENITE; RED; MASSIVE; HIGHLY CARBONATED; 30% CHLORITIZED TO									
		OF MAFIC CONSTITUENTS; NON MAGNETIC									
		> QUARTZ VEIN (0.25) @ 70 DTCA @ 45.42 (149'0")									
48.84 (160'3")	51.56 (169'2")	TRACHYTE - ALTERED; WITH 20% 1-5 CM INCLUSIONS; NON	405	48.84 (160'3")	49.38 (162'0")	0.54	0.5	∓ 0.04	0.19		
		CARBONITIZED; NON MAGNETIC; 1% CHALCOPYRITE IN SAMPLE 405	406	49.38 (162'0")	50.90 (167'0")	1.52	tr	∓ 0.05	0.14		
		> QUARTZ VEINS @ 52 DTCA @ 48.84 (160'3") TO 49.38 (162'0")	407	50.90 (167'0")	51.56 (169'2")	0.66	tr	∓ 0.01	0.17		
51.56 (169'2")	52.76 (173'1")	CHERTY SILICIFIED VEINING; NON CARBONITIZED; HIGHLY BRECCIATED	408	51.56 (169'2")	52.05 (170'9")	0.49	5	—	1.18		
		AFTER EMPLACEMENT; FINE & COARSE DISSEMINATED & VEINED FeS2;	409	52.05 (170'9")	52.76 (173'1")	0.71	5	—	0.98		
		BLUE-GREY CHERTY VEIN BRECCIATED TO ANGULAR FRAGMENTS WITH									
		MATRIX OF CHLORITE & HEMATITE; FRAGMENTS ARE 0.05-0.4; WEAKLY MAGNETIC									
		> VEINING AND CHLORITE @ 50 - 58 DTCA									
		> FRACTURES @ 40 DTCA @ 51.64 (169'5") & @ 50 DTCA @ 52.76 (173'1")									
52.76 (173'1")	53.80 (176'6")	SYENITE; 5% CHLORITIZED MAFICS IN RED HEMATIZED SYENITE;	410	52.76 (173'1")	53.80 (176'6")	1.04	tr	2 cm	0.10		HUGE PHENOCRYSTS
		MASSIVE; 2 CM FELDSPARS LOCALLY									
53.80 (176'6")	54.31 (178'2")	CHERTY SILICIFIED VEINING; FINE GRAINED SERICITIZED & CHLORITIZED	411	53.80 (176'6")	54.31 (178'2")	0.51	7	∓ 0.02	0.44		
		ZONE WITH 15% FINELY DISSEMINATED PYRITE @ 53.95 (177') TO 54.05									
		(177'4"); 10% TRACHYTIC ZONES WITH 0.05 - 0.1 PHENOCRYSTS									
		> CHERTY CONTACTS @ 62 DTCA (SHEAR PLANE) @ 53.85 (176'8")									
		& 80 DTCA @ 54.25 (178'0")									

SUTTON-HANSON BLOCK

CORE SIZE ______ LENGTH ______ LOCATION:

AZIMUTH ______ ACID TESTS: FOOTAGE ____ DIP ____ DATE STARTED ____ COMPLETED ____

ANGLE ______ CLAIM # ______ LOGGED BY ______

DDH #3

FOOTAGE - METRES FROM	TO	DECRIPTION	SAMPLES #	FROM	TO	LENGTH	% FeS2	SIZE OF [illegible]	ASSAYS Au g/t	Ag g/t	NOTES
54.31 (178'2")	55.02 (180'6")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; FINELY DISSEMINATED FeS2 IN FRAGMENTS; SAME AS DESCRIBED PREVIOUSLY > FRAGMENT ATTENUATED @ 52 DTCA @ 54.94 (180'3") TO 54.97 (180'4") > SILICIFIED VEINING @ 80 DTCA @ 54.61 (179'2") TO 54.66 (179'4")	412	54.31 (178'2")	55.02 (180'6")	0.71	0.5	—	0.18		
55.02 (180'6")	55.27 (181'4")	CHERTY SILICIFIED VEINING; COARSE & FINELY DISSEMINATED FeS2; GREY VEINING; SAME AS DESCRIBED PREVIOUSLY > CONTACTS @ 30 DTCA > SHEAR PLANE @ 30 DTCA @ 55.22 (181'2")	413	55.02 (180'6")	55.27 (181'4")	0.25	5	—	1.08		
55.27 (181'4")	56.41 (185'1")	SYENITE; SAME AS 52.76-53.80; WEAKLY MAGNETIC & CARBONATED; 5% CHLORITE	414	55.27 (181'4")	56.41 (185'1")	1.14	tr	·	0.13		
56.41 (185'1")	56.69 (186'0")	CHERTY SILICIFIED VEINING; SAME AS DESCRIBED PREVIOUSLY WITH COARSE & FINELY DISSEMINATED PYRITE > CONTACTS & SH PLANE @ 56.46 (185'3") @ 41 DTCA	415	56.41 (185'1")	56.69 (186'0")	0.28	3	—	0.29		
56.69 (186'0")	64.14 (210'5")	SYENITE; SAME AS 45.01-46.84; MASSIVE, WEAKLY CARBONATED; 10% CHLORITIZED MAFICS; TRACHYTIC @ 63.53 (208'5") TO 64.14 (210'5")	416	56.69 (186'0")	57.0 (187'0")	0.31	tr	—	0.09		
			417	63.09 (207'0")	64.14 (210'5")	1.05	tr	—	0.17		
64.14 (210'5")	64.77 (212'6")	TRACHYTE - HIGHLY ALTERED; HIGHLY SILICIFIED WITH FINELY DISSEMINATED FeS2; RED POSSIBLY HEMATIZATION @ 64.37 (211'3") TO 64.46 (211'6") > SILICIFICATION @ 47 DTCA THROUGHOUT	418	64.14 (210'5")	64.46 (211'6")	0.32	5	[illegible]	0.41		
			419	64.46 (211'6")	64.77 (212'6")	0.31	7	"	1.22		
64.77 (212'6")	65.02 (213'4")	CHERTY SILICIFIED VEINING; GREY; VERY FINELY DISSEMINATED FeS2 THROUGHOUT; TRACHYTIC INCLUSIONS; NON CARBONATED; NOT BRECCIATED > CONTACTS @ 50 DTCA	420	64.77 (212'6")	65.02 (213'4")	0.25	5	—	1.53		
65.02 (213'4")	67.41 (221'2")	TRANSITIONAL ZONE - SYENITE TO TRACHYTE; 40% TRACHYTE WITH PHENOCRYSTS @ 0.01-0.02; CHERTY SILICIFIED VEIN @ 47 DTCA @ 66.27 (217'5") TO 66.47 (218'1") IS 0.25 IN WIDTH; QUARTZ & CHERTY VEINS THROUGHOUT > VEINING THROUGHOUT @ 45 DTCA	421	65.02 (213'4")	65.20 (213'11")	0.18	8	[illegible]	1.23		
			422	65.20 (213'11")	66.27 (217'5")	1.07	0.5		0.18		
			423	66.27 (217'5")	66.47 (218'1")	0.20	3		0.88		
			424	66.47 (218'1")	67.41 (221'2")	0.94	2	—	0.39		
67.41 (221'2")	72.24 (237'0")	FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE; AS DESCRIBED PREVIOUSLY; MODERATELY MAGNETIC; 25% CHLORITE; WEAKLY CARBONATED TO 69.19 (227') & THEN NON CARBONATED; 10% FRAGMENTS; EVEN FRAGMENTS ARE NON CARBONATED AFTER 69.19 > WHITE SILICIFICATION VEINING @ 147 DTCA > CHLORITE VEINING @ 45 DTCA									

[illegible] DRILL RECORD

PAGE [illegible]

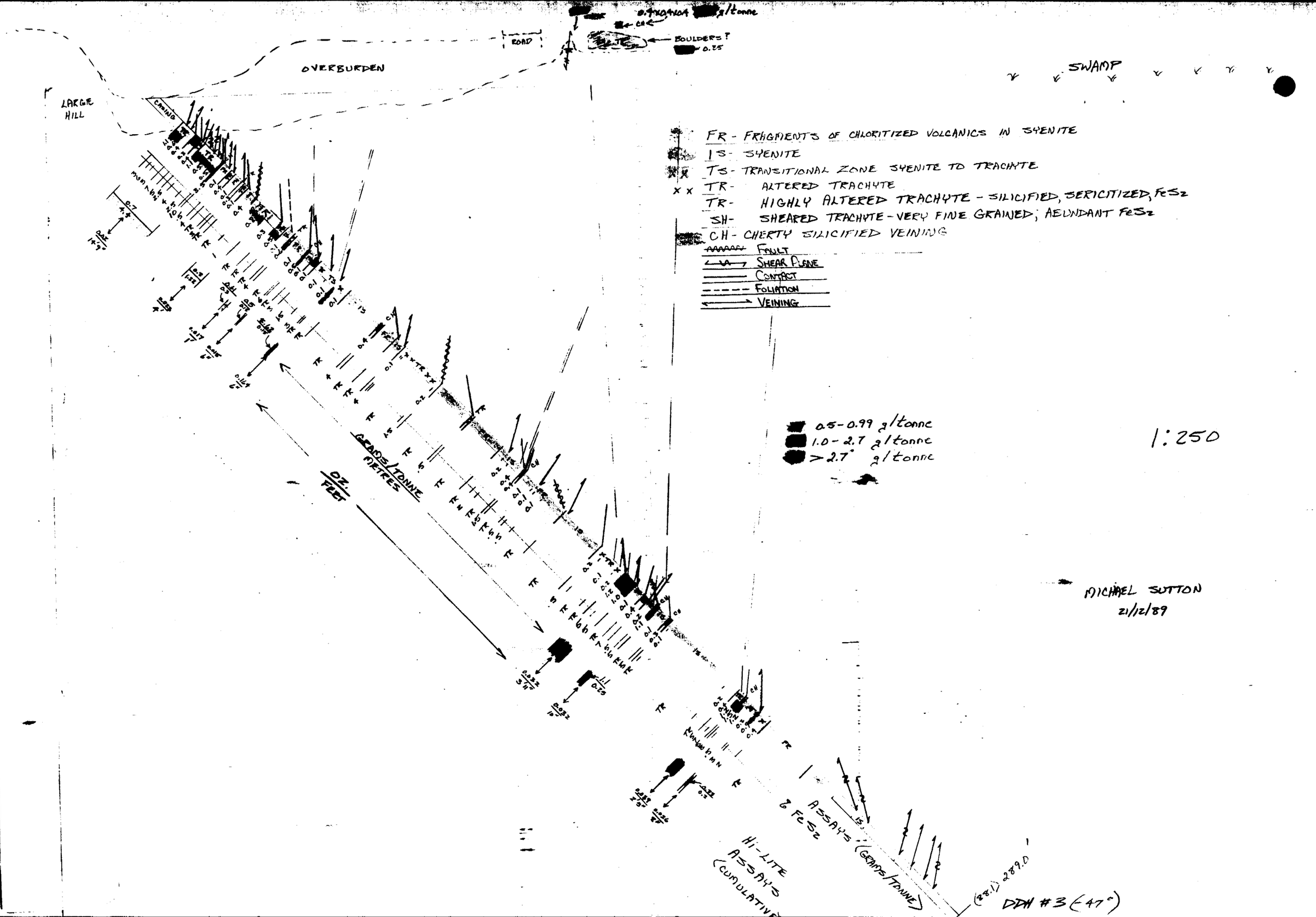
SUTTON - HANSON BLOCK

CORE SIZE ______ LENGTH ______ LOCATION:

AZIMUTH ______ ACID TESTS: FOOTAGE ____ DIP ____ DATE STARTED ____ COMPLETED ____ DDH #3

ANGLE ______ CLAIM # ______ LOGGED BY ______

FOOTAGE - METRES		DECRIPTION	SAMPLES						ASSAYS		NOTES
FROM	TO		#	FROM	TO	LENGTH	% FeS	SIZE OF [illegible]	Au g/t	Ag g/t	
72.24 (257'0")	88.09 (289'0")	SYENITE; MASSIVE; NON CARBONATED, 50% CHLORITIZATION (MAFICS); SAME AS DESCRIBED PREVIOUSLY; STRONGLY MAGNETIC - SHEAR PLANE/FRACTURES @ 25 DTCA @ 77.11 (253'0"), @ 50 DTCA @ 78.33 (257'0"), @ 58 DTCA @ 81.68 (268'0"), & @ 54 DTCA @ 85.34 (280'0") & @ 85.45 (280'4") - CHERTY VEINS @ 62 DTCA @ 82.88 (271'11") TO 82.91 (272'0") & @ 59 DTCA @ 84.32 (276'8") TO 84.33 (276'8½")									
	88.09 (289'0")	END OF HOLE									


ROAD
OVERBURDEN
LARGE HILL
CAMINO
SWAMP
BOULDERS ?
FR - FRAGMENTS OF CHLORITIZED VOLCANICS IN SYENITE
IS - SYENITE
TS - TRANSITIONAL ZONE SYENITE TO TRACHYTE
TR - ALTERED TRACHYTE
TR - HIGHLY ALTERED TRACHYTE - SILICIFIED, SERICITIZED, FeS2
SH - SHEARED TRACHYTE - VERY FINE GRAINED; AELNDANT FeS2
CH - CHERTY SILICIFIED VEINING
FAULT
SHEAR PLANE
CONTACT
FOLIATION
VEINING
0.5 - 0.99 g/tonne
1.0 - 2.7 g/tonne
> 2.7 g/tonne
1:250
MICHAEL SUTTON
21/12/89
OZ/TON FEET
GMS/TONNE METRES
ASSAYS (GMS/TONNE)
& FeS2
HI-LITE ASSAYS (CUMULATIVE
DDH #3 (-47°)

DIAMOND DRILL RECORDS

SUTTON - HANSON BLOCK

CORE SIZE BQ LENGTH (2000) 60.96 LOCATION: 520 FEET S SW OF POST #1 DDH #2

AZIMUTH 177° ACID TESTS: FOOTAGE 60.96 (2000) DIP -45° DATE STARTED Dec 3/89 COMPLETED Dec 3/89

ANGLE -45° CLAIM # 1048456 LOGGED BY MICHAEL SUTTON

DTCA = DEGREES TO CORE AXIS

FOOTAGE - METRES FROM	FEET	TO	FEET	DECRIPTION	SAMPLES #	FROM	TO	LENGTH & FEET	SIZE OF FEATURES	ASSAYS Au g/t	oz.	Ag g/t	NOTES
0	0	6.22	20'5"	CASING - OVERBURDEN									
6.22	20'5"	6.76	22'2"	SYENITE - HIGHLY ALTERED & WITH QUARTZ-ANKERITE VEINING; - MASSIVE QUARTZ - ANKERITE VEINING (30%) & BLEB QUARTZ-ANKERITE (5%) WITH FINELY DISSEMINATED PYRITE; - PURPLE-RED COLOURATION WITH 10% CHLORITIZED MAFIC MINERALS AND 5% WHITE FELDSPAR (SANIDINE) WITH CRYSTALS 0.02-0.05 METRES; - HIGHLY CARBONATED WHERE LIMONITIZED FRACTURES OCCUR; WEAK MAGNETISM	425	6.22 (20'5")	6.76 (22'2")	0.54 (1'9")	1/2		0.85		
				> FOLIATED @ 55 DTCA THROUGHOUT									
				> 10% SILICIFICATION & 20% QUARTZ-ANKERITE VEINING @ 61 DTCA									
				> FINELY DISSEMINATED PYRITE @ 45 DTCA @ 6.35 (20'10") &									
				> ANKERITE VEINING @ 50 DTCA @ 6.5 (21'4") & @ 158 DTCA @ 6.6 (21'8")									
6.76	22'2"	7.47	24'6"	CHERTY SILICIFIED VEINING; - NON CARBONATED; - 3% QUARTZ-ANKERITE; CHLORITIZED; PYRITE AND VEINING FRACTURE SYENITE (HIGHLY FOLIATED); FINELY DISSEMINATED & COARSE BLEB PYRITE; NON MAGNETIC	426	6.76 (22'2")	7.47 (24'6")	0.71 (2'4")	1		1.58		
				> CONTACT @ 72 DTCA @ 7.47 (24'6")									
				> VEINING & FOLIATION @ 50 DTCA									
				> SHEAR PLANE @ 50 DTCA @ 7.31 (24'0")									
7.47	24'6"	8.84	29'0"	SYENITE - HIGHLY ALTERED & WITH QUARTZ-ANKERITE VEINING; 10% QUARTZ-ANKERITE VEINING & BLEBS; FOLIATION GIVEN BY CHLORITIZATION & BOUDINAGED QUARTZ-ANKERITE; SAME AS 6.22-6.76 METRES; MODERATE MAGNETISM	427	7.47 (24'6")	8.53 (28')	1.06 (3'6")	1/2		0.60		
					428	8.53 (28')	8.84 (29')	0.31 (1'0")	1 1/2		0.36		
				> FOLIATED @ 50 DTCA									
				> BROKEN CORE @ 7.47 (24'6") TO 8.53 (28')									
				> SHEAR PLANES @ 54 DTCA @ 8.53 (28') & @ 33 DTCA @ 8.28 (27'2") AND @ 8.34 (27'5")									

DIAMOND DRILL RECORD

SUTTON-HANSON BLOCK

CORE SIZE _____ LENGTH _____ LOCATION: DDH #2

AZIMUTH _____ ACID TESTS: FOOTAGE ___ DIP ___ DATE STARTED ___ COMPLETED ___

ANGLE _____ CLAIM # _____ LOGGED BY _____

DTCA: DEGREES TO CORE AXIS

FOOTAGE - METRES FROM FEET	TO FEET	DESCRIPTION	SAMPLES #	FROM	TO	LENGTH	% RECS	SIZE OF RECOVERY	ASSAYS Au g/t	Ag g/t	NOTES
8.84 (29'0")	9.17 (30'1")	CHERTY SILICIFIED VEINING; 40% QUARTZ - ANKERITE; FINELY DISSEMINATED PYRITE CROSS CUTS FOLIATION; FRESH BRECCIATION OF ZONED QUARTZ-ANKERITE; DARK GREY SILICIFIED CHERTY VEIN AND LIGHT GREY SILICIFICATION INSIDE QUARTZ-ANKERITE; SAME AS AT 8.77 METRES	429	8.84 (29'0")	9.17 (30'1")	0.33	1½		0.36		
		> SHEAR PLANE CONTACT @ 48 DTCA @ 8.84 (29'0")									
9.17 (30'1")	10.26 (33'8")	SYENITE - HIGHLY ALTERED & WITH QUARTZ-ANKERITE VEINING; 10% QUARTZ-ANKERITE; ALBITE PRESENT IN LIGHT & DARK GREY QUARTZ & SILICIFIED VEINING; SAME UNIT AS AT 6.22-6.76 METRES; MODERATE-WEAK MAGNETISM	430	9.17 (30'1")	10.26 (33'8")	1.09	1½		0.56		
		> VEINING @ 55 DTCA & 72 DTCA									
10.26 (33'8")	10.62 (34'1")	CHERTY SILICIFIED VEINING; COARSE & FINELY DISSEMINATED PYRITE; 40% CHERTY VEINING WITH INTERMIXED ALTERED SYENITE; VEINING IS GREY-WHITE	431	10.26 (33'8")	10.62 (34'1")	0.36	3		0.75		
		> CHERTY VEINING @ 15 DTCA									
		> SHEAR PLANE @ 50 DTCA @ 10.26 (33'8")									
10.62 (34'1")	11.58 (38'0")	SYENITE - HIGHLY ALTERED & WITH QUARTZ-ANKERITE VEINING; 15% QUARTZ-ANKERITE AND ALBITE VEINING; CHLORITIZED AND CARBONATIZED SYENITE; SAME UNIT AS AT 6.22-6.76 METRES; WEAK-MODERATE MAGNETISM	432	10.62 (34'1")	11.58 (38'0")	0.96	tr		0.27		
		> VEINING @ 50 DTCA PARALLEL TO CHLORITE FOLIATION & @ 60 DTCA @ 11.1 (36'5")									
11.58 (38'0")	11.96 (39'5")	QUARTZ VEIN; BLUE-GREY WITH WHITE ALBITE; COARSE DISSEMINATED PYRITE IN WALL ROCK	433	11.58 (38'0")	11.96 (39'5")	0.38	½		0.21		
		> VEIN CONTACTS @ 40 DTCA									

DIAMOND DRILL RECORD

SUTTON - HANSON BLOCK

CORE SIZE _____ LENGTH _____ LOCATION: DDH #2

AZIMUTH _____ ACID TESTS: FOOTAGE ___ DIP ___ DATE STARTED ___ COMPLETED ___

ANGLE _____ CLAIM # _____ LOGGED BY _____

DTCA: DEGREES TO CORE AXIS

FOOTAGE - METRES FROM	TO	DECRIPTION	SAMPLES #	FROM	TO	LENGTH	% FOLIATION	SIZE OF FOLIATION	ASSAYS Au g/t	Ag g/t	NOTES
11.96 (39'3")	18.59 (61'0")	SYENITE - PURPLE-RED; FOLIATED (INTERMITTENTLY); BLACK MAFIC	434	11.96 (39'3")	12.93 (42'5")	0.97	tr		0.14		
		MINERALS ARE HIGHLY CHLORITIZED; HIGHLY CARBONITIZED;	435	12.93 (42'5")	13.67 (44'10")	0.74	|		0.14		
		LIMONITIZED SHEAR PLANES/FRACTURES WITH ALTERATION	436	13.67 (44'10")	14.78 (48'6")	1.11	|		0.29		
		HALOES OF UP TO 1 METRE ARE VERY HIGHLY CARBONITIZED;	437	14.78 (48'6")	15.85 (52'0")	1.07	|		0.27		
		5% QUARTZ VEINING; FOLIATION HIGHLY CHLORITIZED INCLUSION	438	15.85 (52'0")	17.07 (56'0")	1.22	|		0.16		
		OF VOLCANIC @ 13.6 (44'8") TO 13.8 (45'3") ELONGATED @ 5 DTCA;	439	17.07 (56'0")	18.36 (60'3")	1.29	|		0.23		
		15% QUARTZ VEINING @ 12.93 (42'5") TO 13.44 (44'1") @ 6" DTCA = 25%	440	18.36 (60'3")	18.59 (61'0")	0.23	⊥		0.19		
		QUARTZ VEINING @ 18.4 (60'3") TO 18.6 (61'0") @ 5 DTCA									
		> QUARTZ VEIN @ 46 DTCA @ 15.1 (49'5")									
		> SYENITE DYKE @ 120 DTCA @ 17.4 (57'0") TO 17.45 (57'3")									
		> FOLIATION @ 64 DTCA @ 18 (59'0")									
		> QUARTZ-ANKERITE VEIN @ 52 DTCA @ 15.8 (51'9")									
		> SHEAR PLANES (FRACTURES) @ 40 DTCA @ 80 DTCA @ 16.5 (44'2") TO 12.7 (41'7"); @ 55 DTCA @ 15.3 (50'2"); @ 60 DTCA @ 13 (47'7") @ 14.6 (47'9") @ 14.8 (48'7"); @ 48 DTCA @ 16.21 (53'6") TO 16.31 (53'6"); @ 35 DTCA @ 17.68 (58'0")									
18.59 (61'0")	26.21 (86'0")	SYENITE - DARK GREY, HIGHLY CHLORITIZED SYENITE WITH	441	18.59 (61'0")	20.12 (66'0")	1.53	tr		0.18		
		LIMONITIZED FRACTURES THAT HAVE UP TO 1 METRE ALTERATION	442	20.12 (66'0")	21.64 (71'0")	1.52	|		0.07		
		(YELLOW), HIGHLY CARBONITIZED HALOES; LOCALLY QUARTZ-	443	21.64 (71'0")	23.04 (75'7")	1.40	|		0.16		
		ANKERITE VEINLETS; FINELY DISSEMINATED PYRITE IN QUARTZ	444	23.04 (75'7")	24.23 (79'6")	1.19	1/2		0.19		
		VEINS; HIGHLY FOLIATED (WITH CHLORITE)	445	24.23 (79'6")	25.6 (84'0")	1.37	tr		0.16		
			446	25.6 (84'0")	26.21 (86'0")	0.61	tr		0.12		
		> QUARTZ VEINS @ 40 DTCA @ 24 (78'6") TO 24.13 (77'2") @ 42 DTCA @ 23.47 (77'0") TO 23.52 (77'2") @ 80 DTCA @ 25.3 (83'0")									
		> CHLORITE VEINING @ 47 DTCA THROUGHOUT									
		> SHEAR PLANES/FRACTURES @ 60 DTCA @ 20.73 (68'0"); WITH QUARTZ @ 58 DTCA @ 25.6 (84'0") @ 70 DTCA @ 25.6 (84'0") TO 26.21 (86'0")									
		> LIMONITIZED @ 40 DTCA @ 20.17 (66'2"); @ 62 DTCA @									

EDITH LAKE RECORD

SUTTON-HANSON BLOCK

DDH #2

CORE SIZE _____ LENGTH _____ LOCATION:

AZIMUTH _____ ACID TESTS: FOOTAGE ____ DIP ____ DATE STARTED ____ COMPLETED ____

ANGLE _____ CLAIM # _____ LOGGED BY _____

DTCA: DEGREES TO CORE AXIS

FOOTAGE - METRES FROM	TO	DESCRIPTION	SAMPLES #	FROM	TO	LENGTH	% FGE	SIZE OF FEGGER	ASSAYS Au g/t	Ag g/t	NOTES
		18.9(62'0") TO 19.0(62'4"); C 40 DTCA @ 21.23(69'8"); C 62 DTCA C 24.23 (79'6") TO 25.29 (83'0")									
26.21(86'0")	26.52(87'0")	CHERTY SILICIFIED VEINING; 20% QUARTZ ANKERITE IN VEINS & BLEBS; QUARTZ VEIN IN LIMONITIZATION @ 26.34(86'5") TO 26.44 (86'9"); DARK GREY COLOURATION WITH FINELY DISSEMINATED PYRITE; NON CARBONATED QUARTZ-SILICA	447	26.21(86'0")	26.52(87'0")	0.31	2		0.36		
		> CONTACTS @ 56 DTCA IN LIMONITIZATION									
26.52(87'0")	27.03(88'8")	SYENITE - HIGHLY ALTERED & WITH QUARTZ-ANKERITE; LIMONITIZED; HIGHLY CARBONITIZED; DARK GREY & WHITE; WEAKLY MAGNETIC	448	26.52(87'0")	27.03(88'8")	0.51	tr		0.16		
		> LIMONITIZED SHEAR PLANE/FRACTURE @ 10 DTC; @ 26.82(88'0") TO 27.03(88'8")									
27.03(88'8")	27.23(89'4")	CHERTY SILICIFIED VEINING; SAME AS 26.21 TO 26.52; NON CARBONATED SILICIFICATION; LIMONITIZED	449	27.03(88'8")	27.23(89'4")	0.20	2		0.04		
		> CONTACTS @ 60 DTCA									
27.23(89'4")	28.75(94'4")	SYENITE - HIGHLY ALTERED & WITH QUARTZ-ANKERITE; 5% QUARTZ-ANKERITE VEINING;	450	27.23(89'4")	27.94(91'8")	0.71	1		0.11		
			451	27.94(91'8")	28.75(94'4")	0.81	tr		0.10		
		> VEINING @ 160 DTCA WITH LIMONITIZATION @ 27.23 TO 27.94									
		> QUARTZ VEINING @ 55 DTCA @ 28.01(92'0") & @ 62 DTCA @ 28.14(92'4") & @ 28.55(93'8") (LIMONITIZED)									
28.75(94'4")	29.08(95'5")	QUARTZ VEIN; GREY-BLUE; FINELY DISSEMINATED PYRITE; HIGHLY CARBONATED	452	28.75(94'4")	29.08(95'5")	0.33	1		0.34		
		> CONTACTS @ 57 DTCA									
29.08(95'5")	32.46(107'2")	SYENITE - VERY HIGHLY FOLIATED WITH 40% CHLORITE; FINELY DISSEMINATED PYRITE LOCALLY IN HIGHLY CHLORITIZED ZONES; HIGHLY CARBONATED; GREY & WHITE COLOURATION	453	29.08(95'5")	29.57(97'0")	0.49	tr		0.08		
			454	29.57(97'0")	30.56(100'3")	0.99	1		0.20		
			455	30.56(100'3")	31.72(102'5")	1.16	1		0.07		
			456	31.72(102'5")	32.46(107'2")	0.94	2		0.13		

DIAMOND DRILL RECORD

SUTTON-HANSON BLOCK

DDH #2

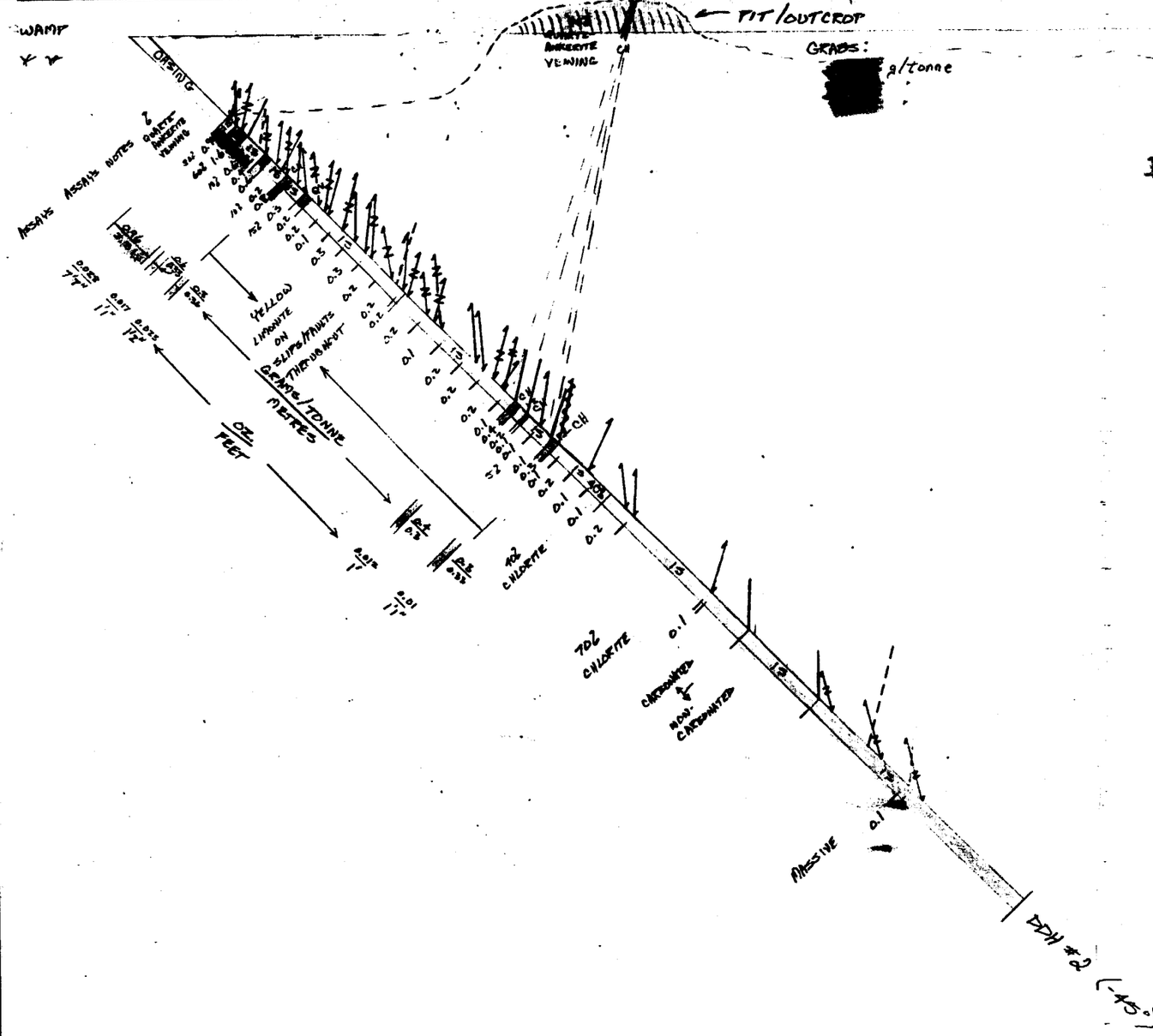
CORE SIZE _____ LENGTH _____ LOCATION:

AZIMUTH _____ ACID TESTS: FOOTAGE ____ DIP ____ DATE STARTED ____ COMPLETED ____

ANGLE _____ CLAIM # _____ LOGGED BY _____

DTCA: DEGREES TO CORE AXIS

FOOTAGE - METRES FROM	TO	DECRIPTION	SAMPLES #	FROM	TO	LENGTH	% FeS2	SIZE OF FeS2	ASSAYS Au g/t	Ag g/t	NOTES
		> CHLORITE @ 56 DTCA									
		> FAULT PLANE WITH CHLORITIC 0.02 FAULT GAUGE @ 57 DTCA @ 29.26 (96'0")									
		> QUARTZ VEIN @ 70 DTCA @ 31.22 (102'5")									
32.66 (107'2")	42.14 (138'3")	SYENITE - VERY HIGHLY FOLIATED WITH 7½% CHLORITE; VERY HIGHLY CARBONATED; BLACK + WHITE COLOURATION; FINE CRYSTALLINE TEXTURE; SAME AS 29.08 TO 32.66	457	32.66 (107'2")	34.19 (112'2")	1.53	tr		0.15		
		> QUARTZ VEIN @ 63 DTCA @ 39.5 TO 39.73 WITH FINELY DISSEMINATED PYRITE									
		> QUARTZ VEIN @ 38 DTCA @ 33.85 (111'0")	458	31.50 (103'7")	32.73 (150'4")	0.23	2		0.07		
		> QUARTZ-ANKERITE VEINING @ 48 DTCA @ 54.31 (162'7")									
		> CHLORITE @ 56 DTCA THROUGHOUT + @ 48 DTCA @ 41.8 (137'0")									
		> SYENITE DYKES @ 55 DTCA @ 37.03 (121'6") TO 37.18 (122'0") + @ 55 DTCA @ 39.01 (128'0") TO 39.12 (128'4")									
42.14 (138'3")	46.94 (154'0")	SYENITE DYKE - MASSIVE WITH 5% PHENOCRYSTS OF SANIDINE UP TO 1CM; RED WITH WHITE PHENOCRYSTS									
		> CONTACTS @ 45 DTCA =									
46.94 (154'0")	60.96 (200'0")	SYENITE - MOTTLED WITH 30% CHLORITIZED AMPHIBOLES; WEAKLY FOLIATED; NON CARBONITIZED; HIGHLY CHLORITIZED + CARBONITIZED ZONE WITH FINELY DISSEMINATED PYRITE @ 53.04 TO 53.26 @ 50 DTCA	459	53.04 (174'0")	53.26 (174'9")	0.22	2		0.11		
		> WEAKLY FOLIATED @ 60 DTCA									
		> SHEAR PLANES/FRACTURES @ 30 DTCA @ 51.21 (168'0") + @ 47.85 (157'0") + @ 54.25 (178'0")									
		> SYENITE DYKES @ 48 DTCA @ 60.78 (199'5") TO 60.83 (199'7") + @ 30 DTCA @ 60.35 (198') (0.2									



IS SYENITE

IS SYENITE - HIGHLY ALTERED & WITH QUARTZ-ANKERITE

CH CHERTY SILICIFIED VEINING

QV QUARTZ VEIN

FAULT

SHEAR PLANE

CONTACT

FOLIATION

VEINING

0.5-0.99 g/tonne

> 1.0 g/tonne

1:250

MICHAEL SUTTON
21/12/89

DIAMOND DRILL RECORD

SUTTON - HANSON BLOCK

CORE SIZE BQ LENGTH 54.86M (180')

AZIMUTH 190° ACID TESTS: FOOTAGE 54.86M (180') DIP -43.5

ANGLE -43.5 CLAIM # 1048456

LOCATION: 405 FEET SOUTH SOUTHWEST OF POST #1 DDH #1

DATE STARTED Dec 1/89 COMPLETED Dec 2/89

LOGGED BY MICHAEL SUTTON

DTCA = DEGREES TO CORE AXIS

FOOTAGE - METRES FROM	FEET	TO	FEET	DECRIPTION
0	0	12.2	40	CASING
12.2	40	16.46	54	SYENITE - HIGHLY CHLORITIZED (70%); - BLACK COLOUR; - VERY HIGHLY CARBONITIZED; - VERY STRONGLY FOLIATED MAKING CRYSTALS INDISCERNABLE
				> SYENITE DYKE - MEDIUM RED, APHANITIC, HIGHLY CARBONITIZED, NO GOOD CONTACTS - @ 13.11 TO 13.31 (43-43'8")
				> HIGHLY FOLIATED @ 46 DTCA THROUGHOUT
				> FAULT PLANE WITH 0.01M CLAY GOUGE @ 10 DTCA @ 14.02 - 14.22 (46-46'8")
				> SHEAR PLANES @ 55 DTCA @ 14.8 (48'6"); @ 37 DTCA @ 16.46 (54')
16.46	54	27.7	90'10"	SYENITE - MASSIVE; NON FOLIATED; HIGHLY CARBONITIZED; LOCALLY CHLORITIZED VOLCANIC INCLUSIONS UP TO 2 CM WIDE; - SHEAR PLANES / FRACTURES ARE HIGHLY CARBONITIZED AND HALOES 0.1 METRE - 1.1 METRE BY YELLOW ALTERATION (LIMONITE?);
				> SHEAR PLANES @ 15 DTCA @ 24.1 (79') & @ 24.7 (81')
27.7	90'10"	32.99	108'3"	SYENITE - HIGHLY ALTERED & WITH QUARTZ-ANKERITE VEINING; - 10% QUARTZ-ANKERITE VEINING AND 5% QUARTZ VEINING IN GREY FINE GRAINED MATRIX; - FINELY & COARSE DISSEMINATED & BLEB FeS_2; - NON CARBONATED @ 27.9 (98') TO 36.07 (118'4")
				> QUARTZ VEINING @ 58 DTCA @ 29.16 (75'8") & @ 30.6 (100'6") TO 31.1 (100'9") IS WHITE
				> QUARTZ - ANKERITE VEINING @ 78 DTCA @ 29.97 (98'4") & @ 30.0 (98'6") & @ 31.09 (102')
				> SYENITE DYKES @ 56 DTCA @ 27.7 (90'11") TO 27.8 (91'1") & @ 65 DTCA @ 33.0 (108'4") TO 33.2 (108'11") & WITH NO CLEAR CONTACTS @ 31.65 (103'10") TO 31.95 (104'10") ARE RED & APHANITIC
				> SHEAR PLANES (LIMONITIZED) @ 56 DTCA @ 32.51 (106'8") & @ 32.64 (107'1")
32.99	108'5"	35.22	109'	CHERTY SILICIFIED VEIN; - BRECCIATED; - WITH 40% ALBITE AND QUARTZ-ANKERITE
				> VEIN @ 68 DTCA
				> SHEAR PLANE @ 15 DTCA @ 32.99 (108'5") TO 33.22 (109') OFFSETS

SAMPLES #	FROM	TO	LENGTH	% FES	SIZE OF FES	ASSAYS Au g/t	Ag g/t	NOTES
460	27.7 90'10"	28.2 92'6"	0.50	tr		0.06		
461	28.2 92'6"	28.7 94'2"	0.50	2		0.15		
462	28.7 94'2"	29.27 96'0"	1.17	½		0.13		
463	29.27 96'0"	30.48 100'0"	0.61	2½	2"	0.75	0.002	
464	30.48 100'0"	30.78 101'0"	0.30	1	1"	0.51		
465	30.78 101'0"	31.24 102'6"	0.46	1		0.25		
466	31.24 102'6"	32.16 105'6"	0.92	1		0.13		
467	32.16 105'6"	32.46 106'6"	0.30	½		0.11		
468	32.46 106'6"	32.99 108'5"	0.53	½		0.23		
469	32.99 108'5"	35.22 109'0"	0.23	3	9"	0.29		

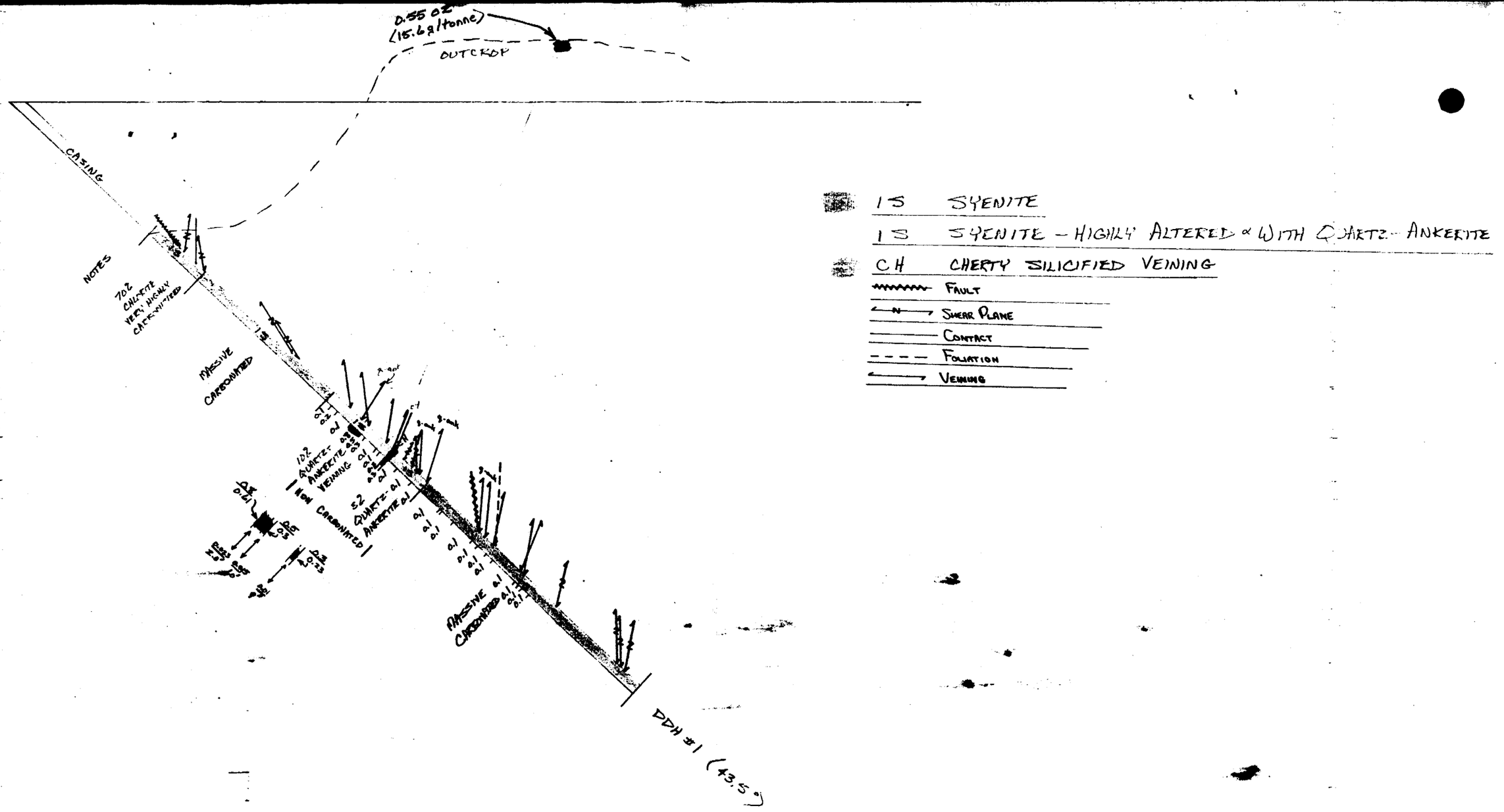
DDH #1

CORE SIZE ______ LENGTH ______ LOCATION:

AZIMUTH ______ ACID TESTS: FOOTAGE ______ DIP ______ DATE STARTED ______ COMPLETED ______

ANGLE ______ CLAIM # ______ LOGGED BY ______

FOOTAGE - METRES FROM	FEET	TO	FEET	DESCRIPTION	SAMPLES #	FROM	TO	LENGTH	% FeS2	SIZE OF FRAGMENTS	ASSAYS Au g/t	Ag g/t	NOTES
				VEIN AND IS LIMONITIZED									
				> LIMONITIZED SHEAR PLANE CONTACT @ 64 DTCA @ 32.99									
				(108'3")									
33.22	109'	36.07	118'4"	SYENITE - HIGHLY ALTERED & WITH QUARTZ-ANKERITE VEINING; - SAME	470	33.22 109'0"	34.01 111'7"	0.79	½		0.06		
				AS DESCRIBED ABOVE IN 27.7 (90'10") TO 32.99 (108'3") BUT	471	34.01 111'7"	35.26 115'8"	1.25	tr		0.10		
				WITH 3% QUARTZ-ANKERITE	472	35.26 115'8"	36.07 118'4"	0.81	½		0.08		
				> QUARTZ-ANKERITE VEINING @ 63 DTCA @ 36.1 (118'4") &	473	36.07 118'4"	37.80 124'0"	1.73	tr		0.08		
				@ 45 DTCA @ 35.97 (118') & @ 50 DTCA @ 35.3 (115'8") TO 36.1 (118'4")	474	37.80 124'0"	38.0 124'8"	0.20	½		0.08		
				> SHEAR PLANES (LIMONITIZED & CARBONITIZED) @ 45 DTCA @	475	38.00 124'8"	39.0 128'0"	1.00	tr		0.06		
				35.3 (115'8") & @ 60 DTCA @ 34.75 (114') & @ 75 DTCA @ 34 (111'7")	476	39.00 128'0"	40.74 133'8"	1.74	tr		0.04		
				> QUARTZ VEINING @ 75 DTCA @ 35.4 (116'3")	477	40.74 133'8"	41.15 135'0"	0.41	½		0.05		
36.07	118'4"	54.86	180'0"	SYENITE - MASSIVE; - HIGHLY CARBONATIZED @ 36.07 (118'4")	478	41.15 135'0"	41.96 137'8"	0.81	tr		0.06		
				TO 54.86 (180'0"); - MODERATELY CARBONATED & NON	479	41.96 137'8"	42.49 139'5"	0.53	½		0.08		
				FOLIATED @ 48 (157'5") TO 52.3 (171'5"); - DARK GREEN	480	42.49 139'5"	44.50 146'0"	2.01	tr		0.05		
				CHLORITIZED ASHFLOW? VOLCANIC INCLUSIONS @ 50.3 TO 50.5	481	44.50 146'0"	44.80 147'0"	0.30	tr		0.03		
				(165 - 165'8")	482	44.50 147'0"	45.1 147'11"	0.30	4		0.07		
				> FOLIATED @ [illegible] DTCA THROUGHOUT	483	45.1 147'11"	45.67 149'10"	0.57	tr		0.05		
				> FAULT GAUGE @ 58 DTCA @ 40.7 (133'6")									
				> QUARTZ VEINS @ 56 DTCA @ 44.8 (147'0") TO 45.1 (147'11")									
				> SHEAR PLANES @ [illegible] DTCA @ 47.7 (156'5") & @									
				45 DTCA @ 52.9 (173'8") & @ 53.2 (174'8") & @ 51 DTCA @ 53.64									
				(176')									
				> SYENITE DIKES @ 38.6 (126'6") (0.025-1") & @ 30 DTCA									
				@ 44.2 (145') (0.025-1") & @ 45.4 (149'6") TO 45.7 (149'10") ARE									
				RED, WEAKLY CARBONATED, AND APHANITIC									
				> QUARTZ-ANKERITE @ 52 DTCA @ 40.74 (133'8") & @ 41.15 (135')									
				> QUARTZ VEINS @ 65 DTCA @ 40.9 (134'2") & @ 68 DTCA									
				@ 42 (137'9") & @ 68 DTCA @ 44.4 (145'9")									



IS SYENITE

IS SYENITE - HIGHLY ALTERED & WITH QUARTZ-ANKERITE

CH CHERTY SILICIFIED VEINING

FAULT

SHEAR PLANE

CONTACT

FOLIATION

VEINING

DRILLING PROGRAM

OBJECTIVES

FOUR BQ DRILL HOLES ARE TO BE LAID OUT, TWO TO BE DRILLED AT SITE #4, ONE AT SITE #7 AND ONE IN THE SWAMP/LAKE TO TEST THE 'HIGHEST PRIORITY GEOPHYSICAL HIGH DESCRIBED PREVIOUSLY. THE TWO HOLES AT SITE #4 ARE TO BE DRILLED SOUTH AT 180° WITH AS SHALLOW A DIP AS POSSIBLE AND TO 200' EACH, 100' APART. THEY WILL BE DRILLED FOR THE FOLLOWING REASONS:

#1 SILVA RECOMMENDED IT BE DRILLED (SEE ILL.C)

#2 THE BEDROCK ON THE EDGE OF THE DEFORMATION ZONE CARRIES A VALUE OF 0.545 OZ/TONNE AND ALL OF THE SAMPLES FROM THE PITS ARE 1.0-2.0 GRAMS (AND 0.1 OZ REALIZED BY RIO TINTO)

#3 THE GEOPHYSICS INDICATE COINCIDENT MAGNETIC HIGH, CONDUCTOR, AND SP HIGH

#4 THE ZONE IS ON STRIKE WITH A HILL TO THE WEST WHICH, OVER A 150' FENCE, IS COVERED BY FRACTURED TRACHYTE WHICH ASSAYS .06 GRAM/TONNE Au. THIS HILL WAS TRENCHED BUT OVERBURDEN IS MORE THAN 10' (3 METRE) DEEP. A CO-INCIDENT VLF HIGH OF AMPLITUDE IS LOCATED HERE.

#5 FURTHER TRENCHING HAS BEEN FUTILE

#6 THERE HAS NEVER BEEN ANY DRILLING ON ANY OF THE CLAIMS

#7 THE PROXIMITY TO THE LARDER LAKE BREAK AND VOLCANIC/SEDIMENTARY CONTACT

THE HOLE AT SITE #7 IS TO BE DRILLED SOUTH AT 170 WITH AS SHALLOW A DIP AS POSSIBLE AND TO 300'. IT IS TO BE COLLARED NORTH OF THE 4.49 GRAM/TONNE AND 1.46 GRAM/TONNE BLOCKS AND DRILLED FOR THE FOLLOWING REASONS (SEE MAPS #9 & 13):

#1 THE PROXIMITY TO THE LARDER LAKE BREAK

#2 THERE ARE THREE GOOD TARGETS: A) THE 83°, UP TO 2 METRE WIDE, CHERTY SILICIFIED VEIN WITH ITS ABUNDANT FeS_2, TO THE WEST B) THE ZONE WHICH CONTAINS THE BLOCKS DESCRIBED ABOVE C) THE

SILICIFIED SHEAR TO THE EAST, NEAR THE CLAIM POST, STRIKING AT 60°

#3 ALL OF THE ASSAYS ATTAINED ARE MORE THAN ANOMALOUS (N 1 GRAM/TONNE

#4 THE TRACHYTE OFFERS AN EXCELLENT HORIZON FOR Au-BEARING FLUID FLOW

#5 THE GEOPHYSICS: GIVE A CONDUCTOR, PARALLEL TO THE LARDER LAKE BREAK JUST EAST STRIKING THROUGH THE HOLE; GIVE A MAGNETIC HIGH HERE (INTIMATING ALTERATION PERHAPS); GIVE A VERY HIGH SP ANOMALY TO THE WEST & STRIKING ~ 20° (IDENTICAL TO THE CHERTY VEINING)

#6 STRIPPING HAS NOT PROVIDED ENOUGH OUTCROP FOR ADAQUATE APPRAISAL.

THE HOLE IN THE SWAMP/LAKE IS TO BE DRILLED 300' AT 150°, FOR THE FOLLOWING REASONS:

#1 THE PROXIMITY TO THE LARDER LAKE BREAK

#2 SYLVA RECOMMENDED IN THEIR REPORT (ILL. B & C) THAT THE STRONGEST CONDUCTOR ON THE PROPERTY ON LINE 4+E, BENEATH THE LAKE AND EXTENDING EAST OF [illegible]" SHOULD BE DRILLED AS SOON AS FINANCING CAN BE ARRANGED" AND "BE GIVEN THE HIGHEST PRIORITY

#3 THIS ZONE CONSTITUTES THE INTERSECTION POINT OF A N-S FAULT AND THE TWO 60° AND 83°-STRIKING CONDUCTING STRUCTURES (MAPS #6 & #13), ALL OF WHICH CONTAIN MINERALIZATION.

#4 TWO 83° LINEAR SP CONDUCTORS TREND FROM EAST OF THE LAKE TO THE TARGET LOCATION

#5 AS NO STRIPPING IS POSSIBLE, DRILLING IS THE ONLY METHOD TO FIND OUT THIS, THE STRONGEST CONDUCTOR ON THE PROPERTY, HOLE

CHANGES

THE BUDGET WAS BASED ON ATTAINING A LOCAL DRILLER. AS NONE WERE AVAILABLE BEFORE THE PROGRAM (O.P.A.P.) DEADLINE, FLOAT CHARGES AND OTHER CHARGES (BUILDING OF ROAD DOWN A STEEP INCLINE TO THE WATER SOURCE FOR HOLES 1 & 2) DEPLETED FUNDS AVAILABLE. HOWEVER 824' WERE DRILLED IN TOTAL.

THE AZIMUTH ON HOLE #1 WAS CHANGED TO 190° AND THE HOLE MOVED WEST AS THE BOUNDARY BETWEEN CLAIMS WAS FELT TO BE TOO CLOSE. DRILLING WAS HALTED IN UNPROMISING SYENITE. THE AZIMUTH ON HOLE #3 WAS CHANGED TO 160° TO GET A BETTER CUT ON THE 60°-STRIKING ZONES. HOLE #4 COULD NOT BE DRILLED IN THE LAKE AS THE PROGRAM DEADLINE (MARCH 31) DID NOT ALLOW FOR SUFFICIENT ICE THICKNESS. IN ANY CASE, AN EARLY SNOWFALL ALSO MADE FOR THIN ICE. HOLE 4 WAS DRILLED INSTEAD UNDER THE 2 METRE CHERTY SILICIFIED VEIN 56 METRES WEST AND NORTH OF HOLE #3. AS THE OVERBURDEN THICKNESS WAS NOT KNOWN HOLE #3 COULD NOT BE DRILLED FURTHER DEPTH TO BETTER CUT THE VARIOUS ZONES AS A VERY STEEP HILL MEANT A CONSIDERABLE MOVE TO THE NORTH WOULD BE REQUIRED. DUE TO THE LIMITED LENGTH OF ANY HOLE DRILLED THIS COULD NOT BE DONE. ALL HOLES WERE DRILLED AT -45° AS SHALLOWER DIPS ARE TOO DIFFICULT FOR DRILLING SURFACE HOLES.

RESULTS

DDH #1 & #2:

ALTHOUGH PRESENT, THE INTENSITY OF THE SURFACE ALTERATION IS NOT DUPLICATED AT DEPTH. QUARTZ-ANKERITE VEINING IS PRESENT IN THE ALTERED ZONE OF DDH #1 BUT THE SYENITE IS NOT AS SHEARED AS IN THE PITS. PYRITE IS NOT [illegible]. THE CHERTY VEIN HOWEVER IS IDENTICAL TO THAT FOUND IN THE PIT AND WHEN TAKEN ON 55° STRIKE IT PASSES THROUGH THE

CHERTY VEINS OF DDH #2 THEREBY SUBSTANTIATING THAT THE SURFACE EXPOSURE IS INDEED OUTCROP AND THESE ARE INDEED THE ZONES PRESENT THERE. THE SYENITE IS EXTREMELY FOLIATED (SHEARED) OVER MOST OF THE TWO HOLES, WITH UP TO 70% CALCITE, POSSIBLY DUE TO PROXIMITY OF THE SYENITE-RHYOLITE CONTACT. NOTEWORTHY IS THE PRESENCE OF WHAT APPEARED TO BE TRACHYTE IN THE MORE ALTERED PARTS OF THE CORE. THE BIGGEST SURPRISE IS THE EXISTENCE OF A SECOND, VERY ALTERED ZONE AT THE BEGINNING OF DDH #2. 1 GRAM/TONNE OVER 2.26 METRES WAS REALIZED HERE INCLUDING 1.6 GRAM/TONNE OVER 0.7 METRE (2½'). HERE, THE QUARTZ-ANKERITE IS MASSIVE AND PYRITE IS OF MUCH HIGHER CONCENTRATIONS.

DDH #3 & #4:

FOUR GOLD-BEARING ZONES ARE PRESENT IN THESE TWO HOLES. IN HIGHLY ALTERED TRACHYTE LIES ABUNDANT CHERTY SILICIFICATION VEINS (TOGETHER WITH A SILICA-CHLORITE-CALCITE-PYRITE MATRIX AND THE LARGE SANIDINE PHENOCRYSTS). THESE VEINS CARRY ABUNDANT PYRITE. THE ZONE CARRIES 45-55 FEET AND RUNS 1 GRAM/TONNE OVER 6.5 METRES (0.034 OZ/T OVER 21'), INCLUDING 2.2 GRAMS/TONNE OVER 1.1 METRE (0.064 OZ/T OVER 3½') AND 1.8 G/T OVER 1.1 METRE (0.053 OZ/T OVER 3½'). THIS ZONE WAS NOT INTERSECTED BY DDH #3 AS DDH #3 BEGAN IN THE SECOND ZONE.

THE SECOND ZONE IS THAT WHICH WAS CHIP SAMPLED IN OUTCROP. IT CARRIES VALUES IN THE 0.5-1.6 G/T ACROSS 75% OF A 17 METRE STRETCH (56'). THESE LINE UP (AT THE 85° STRIKE ON SURFACE) WITH THAT ZONE THAT DDH #3 BEGAN WITHIN. HERE, 56 METRES FROM DDH #4 (184') THE PARTIAL ZONE ASSAYS 0.7 G/T OVER 4.4 METRES (0.025 OZ/T OVER 14.5'), INCLUDING 3.5 G/T OVER 0.15 (0.102 OZ/T OVER 6"). THIS ZONE IN BOTH HOLES IS SIMILAR IN EVERY WAY TO THE FIRST ZONE.

THE THIRD AND FOURTH ZONES ARE INTERSECTED IN DDH #3. DDH #4 WAS NOT LONG ENOUGH TO REACH THESE CHERTY SILICIFIED VEINS WHICH ASSAYED 1.1-1.5 G/T (0.032-0.044 OZ/T) AND WHICH WERE 1.2 (4') AND 1.3 (2½') WIDE.

THESE AGAIN ARE THE SAME VEINS DESCRIBED EARLIER, BUT HERE THE TRACHYTE IN WHICH THEY LIE ARE SEPARATED BY MASSIVE SYENITES USUALLY WITH CHLORITIZED VOLCANIC INCLUSIONS. ONE NOTEWORTHY ASSAY IN DDH #3 IS 5.6 G/T OVER 0.15 (0.164 oz/t over 6") WHICH WAS ATTAINED IN A MASSIVE CHALCOPYRITE BLEB WITHIN A PYRITE STRINGER. THIS IS WELL IN KEEPING WITH THE HISTORY OF THE HOLMES TWP. AREA.

INTERPRETATION, CONCLUSIONS & RECOMMENDATIONS

THE SUTTON-HANSON CLAIM BLOCK CONTAINS ALMOST EVERY CONCEIVABLE ALTERATION THAT IS ASSOCIATED WITH Au, WITHIN THE 6 DIFFERENT GOLD SHOWINGS FOUND SO FAR - ie. SITES #4, 5, 6, 7, 8, & 9. A CLOSE ASSOCIATION WITH PYRITE AND CHALCOPYRITE ± SILICIFICATION, SERICITE, CHLORITE, AND QUARTZ-ANKERITE IS PARTICULARLY EVIDENT.

THE SHEARING PRESENT IN THE SITE #4 LOCATION (DDH #1 & 2) WAS NOT FULLY DELINEATED BY THE DRILLING. HOWEVER, THE LOW GROUND (SWAMP), IN WHICH THE HOLES WERE COLLARED, STRIKES EAST-WEST. THE POTENTIAL ORE HORIZON, OF WHICH DDH #2 CAUGHT ONLY A PORTION (AT THE BEGINNING OF THE HOLE), MUST LIE WITHIN THIS SWAMP STRIKING AT 83° OR PARALLELING THE CONDUCTOR (PROBABLY PASSING THROUGH DDH #1 IN ITS 40' OF OVERBURDEN). THE OVERBURDEN IS MUCH TOO THICK FOR ANYTHING BUT DRILLING TO REALISE THE ANSWER HERE, AND PROBABLY TO THE WEST (WHERE THE LOW TOPOGRAPHY CONTINUES FOR QUITE SOME DISTANCE).

HOLES #3 AND 4 ARE OBVIOUSLY WITHIN A BROAD ZONE OF TRACHYTES AND SYENITES WITH ASSIMILATED VOLCANICS ALONG THE EDGE OF THE SYENITE STOCK. BECAUSE THE TREND OF THE GOLD-BEARING STRUCTURES IS INTO THE SWAMP, I WOULD SUGGEST THAT THE GEOPHYSICS WEST OF THESE ZONES DO INDEED DELINEATE ORE HORIZONS (NOTE THAT THE AREA IN WHICH THE HOLES #1 & #2 WERE DRILLED WAS RELATIVELY WEAK GEOPHYSICALLY SPEAKING IN COMPARISON, AND STRIKE GIVEN BY GEOPHYSICS

COINCIDE IDENTICALLY WITH THE GOLD ZONES FOUND IN THE DRILLING). THE ZONES STRIKE TO THE EAST THROUGH A VERY LARGE AREA (3/4 MILE) WITHOUT OUTCROP UNTILL SITE #5 IS REACHED. AS SITE #5 IS IN RHYOLITES, THE CONTACTS BETWEEN THE TRACHYTE AND THESE RHYOLITES WITHIN THE INTERVENING SWAMP UNDOUBTEDLY HOLDS PROMISE. ONE WOULD EXPECT THE TRACHYTES (SEE ILL. D) TO BE THICKEST HERE, ON THE VERY FRINGE OF THE STOCK! THE PROXIMITY OF METASEDIMENTS (ARCHEAN), FURTHER ENHANCES THE MIX. NOTEWORTHY IS A SERIES OF ANCIENT TRENCHES FOUND AND CLEANED BY JC AND LOCATED MIDWAY BETWEEN SITES 5 + 7 (SEE MAP #7 - #10). HERE, BESIDE A HILL, WE COULD NOT FIND UNDENIABLE OUTCROP, BUT SAMPLES OF THE BOULDERS (TRACHYTES), ALL OF WHICH WERE HIGHLY SILICIFIED, ASSAYED 0.8 - 1.8 G/T (0.02 - 0.052 oz/t). AGAIN, NO DRILLING OR FOOT-BORNE GEOPHYSICS HAS EVER BEEN UNDERTAKEN. ILLUSTRATION D GIVES THE X-SECTION (MAP #7).

THE RESULTS OF THE DRILLING IN DDH #3 & #4 ARE VERY PLEASING AND PROVOCATIVE. THE CORE IS EXTREMELY ALTERED AND LARGE FLUID FLOWS OBVIOUSLY TOOK PLACE. THE BLOCK ON SURFACE WHICH ASSAYED 4.47 G/T (0.131 OVER 1½') COINCIDES MOST LIKELY WITH ZONES #3 & #4. THE 60° STRIKE ZONE WAS NEVER QUITE REACHED. AS WE KNOW THAT TRACHYTE IS FOUND IN A TRENCH FURTHER SOUTH, MORE VEINING CAN BE EXPECTED THERE. THUS, MORE AU ZONING IS POSSIBLE IN ALL DIRECTIONS AT DEPTH.

MORE STRIPPING MUST TAKE PLACE, PARTICULARLY WHERE ZONE #1 OUTCROPS NEAR THE COLLAR OF DDH #4. THE HILL BEHIND DDH #3 MUST BE STRIPPED. ALL TRACHYTE MUST BE SAMPLED IN ADDITION TO THE VEINS ALREADY SAMPLED (WALL ROCK FREQUENTLY, IT SEEMS, ASSAYS HIGHER THAN THE VEINS). A NEW AND IMPROVED GEOPHYSICAL PROGRAM SHOULD BE CARRIED OUT ACROSS THE ENTIRE CLAIM BLOCK. THE WIDTHS OF THE GOLD ZONES REALISED INDICATES THE POTENTIAL FOR A VERY LARGE GOLD ORE BODY (WITH APPRECIABLE Ag + Cu CONTENTS), AND FREELY OPEN PITABLE.

Michael Smith 10/01/90

SYLVA-ILL.B

INTERPRETATIONS AND CONCLUSIONS

While the Caler Lake fault was not mineralized itself there was found to be a persistant quadrature anomaly running from Line 40 to Line 48E around 6S which is just to the south of the footwall of the fault. Since the zone persists at 444Hz, albeit weakly, it must be assumed that it is a bedrock conductor of some sort, possibly a sulphide zone of a low order of conductivity. Some particularly strong SP readings (speaking relatively) were had in this area especially on L42 where the zone seems to be shallowest, as judging from the SP results correlating with the shoulders on the MaxMin (3555hx) [redacted] since the author found a considerable amount of the aforementioned float material to the south of this area when mapping the group.

At the property boundary to the south near Line 16E another weak zone appears this time correlating with the fault where it intersects with a NS feature which is described in more detail in the Geological report. This zone did not persist well at 444Hz and should be relgated to a lower priority drill target. Especially with the present activity and its proximity to the boundary.

The most promising conductor and by far the strongest lies in the Lake to the North of the property. It is strongest on L22E and it is here that [redacted]

The SP correlation in this area rules out the possibility of it being due to lake sediments. Also in the high temperature environment of the Syenite stock it is probably a Sulphide occurence.

There was a good many other areas of interest on the property both geophysically and geologically (float). However it is almost impossible to rely on the SP profiles in this case when there is no EM response so it has been recommended to Mr. Taman that at least some if not all of the property be covered with induced polarization. Since the Western part appears to be geophysically "dead" except for a very near surface weak zone near the road (see SP map), this area could be left out.

The MaxMin revealed the section to be almost absolutely flat with hardly any variance in the readings (thanks to the tilt meters)

solated from various showings of sulphides throughout the stock. Along the contacts massive pyrite and phyrotite have been found in drill cores.

It would appear than any geophysical anomaly of any strength would be well worth diamond drilling, particularly if any geochemical correlation could be had, since the presence of the heavy metals is almost certain to carry a gold relationship.

It is therefore recommended that on the Taman group that the weak EM response south of the major fault be drilled. Also the showing near the baseline at L50-52 be washed and blasted, then subsequently drilled.

Most important of all, the strongest conductor which lies beneath the Lake in the middle of the property near the Northern boundary should be drilled as soon as financing can be arranged.

Certified correct

Robert Sheedy

Robert Sheedy
per. Sylva Explorations Limited

ILL.C - SYLVA

Ministry of Northern Development and Mines

Ontario

A.L.

DOCUMENT I
W9008-0

42A02SE0007 13 HOLMES 900

W9008.024

Mining Act

Report of Work

requirements and the reverse side of this form

Name and Address of Recorded Holder	Prospector's Licence No.
TIMOTHY A. HANSON.	K 21859
30 MAIN ST.; KIRKLAND LAKE, ONT, P2N 3E1	Telephone No. 705-568-8407

Summary of Distribution of Credits and Work Performance

Mining Division	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
LARDER LAKE	L	1047198	80	L	1048461	60			
Township or Area: HOLMES TWP.	L	1047208	20	L	1048463	60			
Total Assessment Credits Claimed: 824	L	1047209	24	L	1048464	60			
Type of Work Performed (Check one only)	L	1048454	60	L	1111076	60			
☐ Manual Work	L	1048455	40	L	1111077	60			
☐ Shaft Sinking Drifting or other Lateral Work	L	1048456	40	L	1112092	20			
☐ Mechanical equipment	L	1048457	60						
☐ Power Stripping other than Manual (maximum credit allowed - 100 days per claim)	L	1048458	60						
☒ Diamond or other Core drilling	L	1048459	60						
☐ Core Specimens	L	1048460	60						

Dates when work was performed From:	To:	Total No. of Days Performed	Total No. of Days Claimed	Total No. of Days to be Claimed at a Future Date
Nov. 28/89	Dec. 8/89	824	824	0

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. * (See note No. 1 on reverse side)	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
	1048456	380	1048455	444				
Mining Claim / No. of Days / Mining Claim / No. of Days / Mining Claim / No. of Days / Mining Claim / No. of Days / Mining Claim / No. of Days / Mining Claim / No. of Days								

Required Information eg. type of equipment, Names, Addresses, etc. (See Table on reverse side)
If space below is insufficient, attach schedules with required information and location sketches

DRILLING PERFORMED BY: RAY JOLETTE & DENIS REHAUD
RAYJO DRILLING INC.
P.O. BOX 42
LORRAINVILLE, QUE.
J0Z 2R0
(819) 625-2839

FROM NOV. 28/89 TO DEC. 8/89.

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
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FEB 21 1990
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Certification of Beneficial Interest * (See Note No. 2 on reverse side)

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
	DEC 27/89	Tim Hanson.

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Address of Person Certifying	Telephone No.	Date	Certified By (Signature)
TIMOTHY A. HANSON, 30 MAIN ST.; KIRKLAND LAKE, ONT. P2N 3E1	705-568-8407	DEC 27/89	Tim Hanson.

For Office Use Only

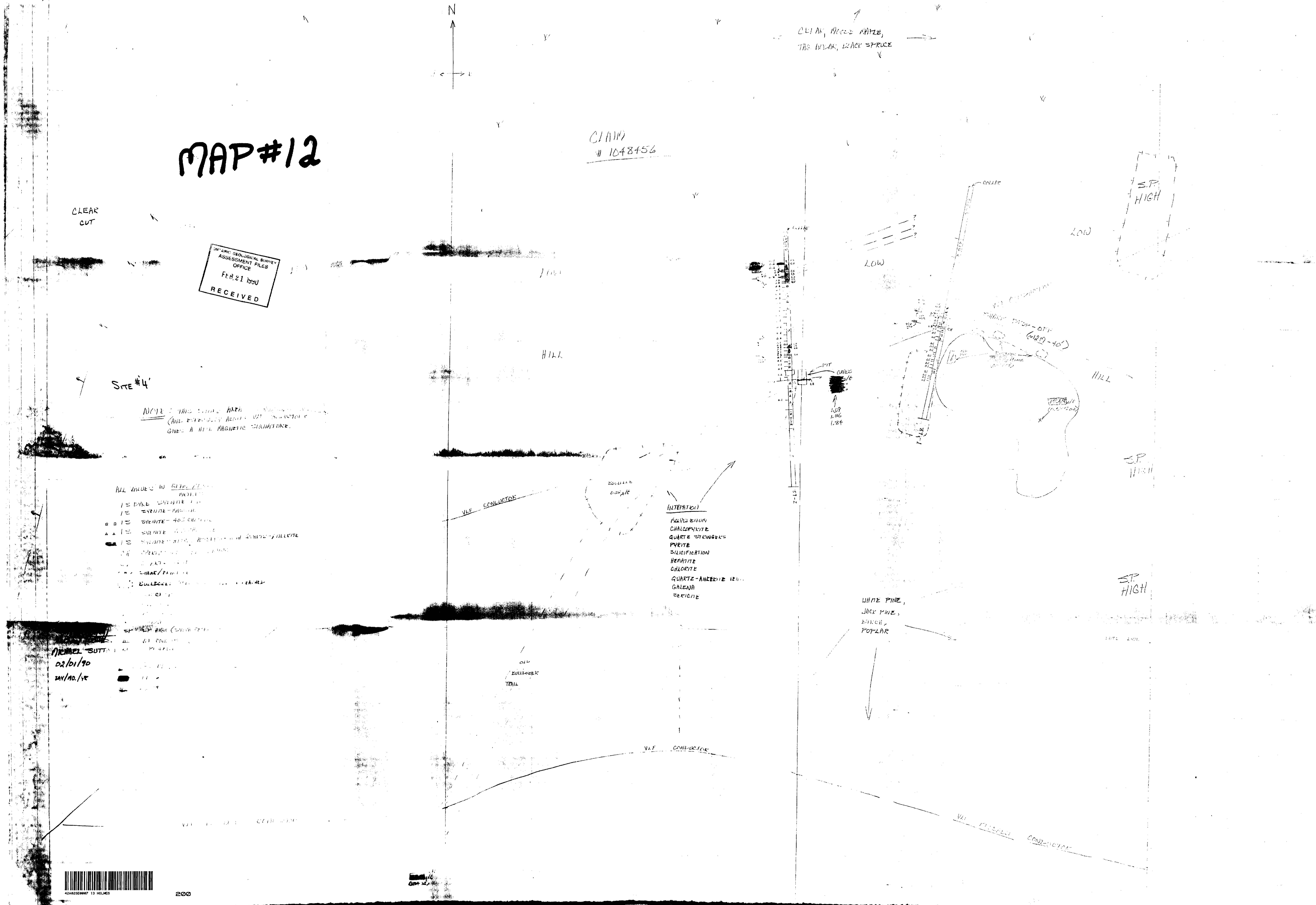
Work Assignments			
Timothy Hanson	340	3660	L 1048456
"	404	3596	L 1048455

on claim

Received Stamp

RECEIVED
JAN 17 1990
4:20 pm

Range 15
T52
Alma Twp.
Chief L.
Holmes Marsh
Gobel L.
Holmes L.
12
11
10
9
8
7



N
MAP#12
CLEAR CUT
CLAIM
1048456
ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
FEB 21 1990
RECEIVED
HILL
LOW
LOW
S.P. HIGH
S.P. HIGH
S.P. HIGH
HILL
Site #4'
GIVES A HIGH MAGNETIC SIGNATURE.
SYENITE - 40% CHL
SHEAR/FAULT
VLF CONDUCTOR
ALTERATION
MOLYBDENUM
CHALCOPYRITE
QUARTZ STRINGERS
PYRITE
SILICIFICATION
HEMATITE
CHLORITE
QUARTZ-ANKERITE VEIN
GALENA
SERICITE
WHITE PINE,
JACK PINE,
BIRCH,
POPLAR
OLD
BULLDOZER
TRAIL
02/01/90
DAY/MO./YR
VLF CONDUCTOR
42A02SE0007 13 HOLMES
200

MAP #13