DIAMOND DRILLING

REPORT NO: REPORT # 54

TOWNSHIP: KEITH TWP.

WORK PERFORMED FOR: MARSHALL MINERALS CORPO.

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER [ ]

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
683688	SG89-47	507.0'	JULY-SEPT/89	(1)
683688	SG89-48	447.0'	JULY_SEPT/89	(1)
683688	SG89-49	597.0'	JULY_SEPT/89	(1)
752139	SI35-1	207.0'	JULY_SEPT/89	(1)
752139	SI35-2	207.0'	JULY_SEPT/89	(1)
752139	SI35-8	277.0'	JULY_SEPT/89	(1)
688519	SG89-42	557.0'	JULY_SEPT/89	(1)
752148	SG89-44	267.0'	JULY_SEPT/89	(1)

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NOTES: (1)W9006.60577, FILED JANUARY 21ST., 1990

Township: Keith
Property: Sangold

CLAIM No 683 688

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: SG89-47 Sheet 1 of 12

Property name: SANGOLD
Hole No. : SG89-47
Location : lot 24.3 N 0+64.4W (WEST MINING GRID) Length: 507.0'
Elevation: 9990.4' Azimuth: 225 Dip: -45.0
Started : Aug. 14, 1989 Finished: Aug. 15, 1989

Acid dip tests

Footage	Dip	Footage	Dip
100'	-44.0		
250'	-43.0		
500'	-35.0		

Remarks: BQ core

Logged by: J.R. Lill

Footage From	Footage To	Description	Sample No.	Sample % Sulphides	Sample From	Sample To	Sample Total	Assays (Au) ppb	Assays (Au) Oz/tn	Assays (Au) Re
0	90.0'	Casing								
90.0'	287.2'	INTERMEDIATE VOLCANICS								
		Cut by irregular quartz-carbonate veins with minor sulphides. Veins are fragmented.								
		Volcanics are medium brown, finely foliated at 50 deg. to C. A., sericitic, chloritic, slightly carbonatized.								
		90.0' - 108.5' 5% narrow quartz-carbonate veins with minor Py in veins and volcanics. 1% sulphides.								
		108.5' - 114.0' 40% quartz-carbonate veins, irregular and parallel to foliation. Trace Py.	28680		108.5	111.0	2.5'	Nil		
		111.5' - 113.5' Blebs Cpy.	28681		111.0	114.0	3.0'	Nil		
		110.0' - 110.7' Foliation parallel to C. A.								
		111.5' - 112.0' Foliation parallel to C. A.								
		114.0' - 116.0' 5% quartz-carbonate.	28682		114.0	117.0	3.0'	Nil		
		116.0' - 116.7' 50% quartz-carbonate, parallel to foliation at 50 deg. to C. A.								

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Hole No.: SG89-47 Sheet 2 of 12

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		116.7' - 118.7' 5% quartz-carbonate. Hairline fault at 60 deg. to C. A. offsetting two narrow quartz carbonate veins 1/4".	28683		117.0	118.7	1.7'	Nil		
		118.7' - 120.5' Rusty, carbonatized, narrow, tightly folded carbonate veins. Foliation parallel to C. A.	28684		118.7	120.5	1.8'	Nil		
		120.5' Hairline fault.								
		120.5' - 125.0' 5-10% narrow quartz-carbonate veins, parallel to foliation at 30-40 deg. to C. A. Trace Py.	28685		120.5	123.0	2.5'	Nil		
			28686		123.0	125.0	2.0'	Nil		
		125.0' - 125.7' Rusty carbonate at 10 deg. to C. A. Trace Py.	28687		125.0	127.8	2.8'	Nil		
		125.7' - 127.8' 50% quartz-carbonate veins, irregular but mainly at 50 deg. to C. A. Light brown, soft rock at margins of veins.								
		127.8' - 129.4' 5% quartz-carbonate veins, trace Py.	28688		127.8	129.4	1.6'	Nil		
		128.0' Foliation parallel to C. A.								
		129.4' - 130.4' 50% quartz-carbonate veins. 1% sulphide blebs, mainly Cpy.	28689		129.4	130.4	1.0'	Nil		
		130.4' - 132.1' 10% narrow quartz-carbonate veins, parallel to foliation at 50 deg. to C. A. Trace disseminatd Py.	28690		130.4	132.1	1.7'	Nil		
		132.1' - 139.2' 50% quartz-carbonate veins, trace Py.	28691		132.1	135.1	3.0'	Nil		
			28692		135.1	138.1	3.0'	Nil		
		139.2' - 160.0' 10% quartz-carbonate veins, parallel to foliation. Trace Py.	28693		138.1	139.2	1.1'	Nil		
			28694		139.2	142.2	3.0'	Nil		

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Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		145.0' Foliation at 50 deg. to C. A.	28695		142.2	145.2	3.0'	Nil		
			28696		145.2	148.2	3.0'	Nil		
		147.5' - 148.5' Foliation parallel to C. A.								
			28697		148.2	151.2	3.0'	Nil		
		149.0' Foliation at 50 deg. to C. A.								
		150.0' - 151.0' Foliation parallel to C. A.								
		151.0' - 157.0' Local narrow, closely spaced, wavy quartz-carbonate veins.	28698		151.2	154.2	3.0'	Nil		
			28699		154.2	157.2	3.0'	Nil		
			28700		157.2	160.0	2.8'	Nil		
		160.0' - 164.0' 50% quartz-carbonate veins, irregular parallel to foliation which is highly contorted. Trace Py.	43001		160.0	162.5	2.5'	Nil		
			43002		162.5	164.0	1.5'	Nil		
		160.0' - 161.0' Parallel to 50 deg. to C. A.								
		162.0' - 163.0' Folded parallel to C. A.								
		164.7' - 165.7' 75% quartz-carbonate, parallel to foliation at 60 deg. to C. A. Trace Py.	43003		164.0	165.7	1.7'	Nil		
		165.7' - 171.2' 5% narrow quartz-carbonate veins.	43004		165.7	168.7	3.0'	Nil		
		168.0' - 169.2' 10% narrow wavy quartz-carbonate veins parallel to C. A.	43005		168.7	171.0	2.3'	Nil		
		170.5' - 171.0' Broken, chloritic on slips.								
		171.2' - 171.9' 90% quartz-carbonate vein at 50 deg. to C. A.	43006		171.0	172.0	1.0'	Nil		

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Hole No.: SG89-47 Sheet 4 of 12

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		171.9' - 180.0' 5-10% scattered, narrow quartz-carbonate veins, some cross cutting, most parallel to C. A. Foliation from 50 deg. to parallel to C. A.								
		184.0' - 184.9' Rusty, carbonatized.	43007		184.0	185.0	1.0'	Nil		
		184.0' Narrow carbonate seam at 50 deg. to C. A.								
		188.4' - 189.5' Broken core. Rusty, carbonatized seams at 50 and 30 deg. to C. A.	43008		188.4	189.5	1.1'	Nil		
		197.8' - 198.2' 50% quartz-carbonate veinlets, 10% streaky to disseminated Py. Vein is highly folded	43009		197.7	198.7	1.0'	Nil		
		198.2' - 201.0' Foliation parallel to C. A.	43010		198.7	201.0	2.3'	Nil		
		201.0' - 201.8' Narrow quartz-carbonate vein, folded, fractured, subparallel to C. A. 10% fine Py.	43011		201.0	202.8	1.8'	Nil		
		202.0' - 202.4' Quartz-carbonate vein at 50 deg. to C. A.								
		202.4' Chloritic slip.								
		202.4' - 202.8' Foliation parallel to C. A.								
		202.8' - 212.0' 5% quartz-carbonate veins. Core is highly folded, foliation is parallel to 60 deg. to C. A.	43012		202.8	205.8	3.0'	Nil		
			43013		205.8	208.8	3.0'	Nil		
			43014		208.8	210.5	1.7'	Nil		
			43015		210.5	212.0	1.5'	Nil		
		212.0' - 213.0' Fault, water seam. Rusty, carbonatized.	43016		212.0	213.0	1.0'	10		

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Hole No.: SG89-47 Sheet 5 of 12

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		212.6' - 212.7' Quartz.								
		213.0' - 214.9' Foliation at 30-40 deg. to C. A.	43017		213.0	214.9	1.9'	Nil		
		214.9' - 217.7' Fault zone. Rusty, carbonatized.	43018		214.9	217.7	2.8'	20		
		215.3' Foliation at 70 deg. to C. A.								
		215.4' Hairline fault.								
		215.5' Foliation parallel to C. A.								
		215.6' and 216.8' Broken core.								
		217.3' - 217.5' Strongly folded quartz-carbonate vein.								
		217.7' - 218.8' Cream coloured, siliceous, bleached, foliated at 30 deg. to C. A.	43019		217.7	219.2	1.5'	20		
		218.8' - 223.0' 40% quartz-carbonate in highly folded volcanic. Trace Py in quartz-carbonate.								
		219.2' - 219.8' Fault, rusty, strongly carbonatized. Two carbonate fractures at 50 and 90 deg. to C. A. Foliation parallel to 30 deg. to C. A.	43020		219.2	220.2	1.0'	10		
			43021		220.2	223.0	2.8'	10		
		223.0' - 236.0' Volcanic. Foliation locally parallel to 70 deg. to C. A.	43022		234.0	236.0	2.0'	40		
		234.0' - 236.0' Finely foliated at 70 deg. to C. A.								

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Hole No.: SG89-47 Sheet 6 of 12

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		236.0' - 240.0' 75% irregular quartz-carbonate veining, 5% disseminated Py in chlorite streaks, which are 20-25% of core.	43023		236.0	238.0	2.0'	10		
			43024		238.0	240.0	2.0'	20		
		240.0' - 267.0' Foliated from 40-50 deg. to C. A., except	43025		240.0	241.0	1.0'	20		
		245.0' - 247.0' Parallel to C. A.								
		5% narrow quartz-carbonate veins, predominantly parallel to foliation.								
		265.7' Narrow quartz-carbonate vein at 40 deg. to C. A. cutting foliation, in 6.0" slightly bleached core.								
		A few blebs coarse cubic Py.								
		267.5' - 268.2' 90% quartz-carbonate with chlorite seams. Upper contact irregular at low angle to C. A., lower contact at 70 deg. to C. A.	43026		267.5	268.8	1.3'	30		
		268.2' - 268.8' 25% quartz-carbonate veins at 60-70 deg. to C. A.								
		268.8' - 272.6' Foliation at 30 deg. to C. A. 5-10% quartz-carbonate veinlets, trace Py.	43027		268.8	270.5	1.7'	Nil		
			43028		270.5	272.6	2.1'	Nil		
		272.6' - 277.5' 15-20% narrow, wavy quartz-carbonate, parallel to 30 deg. to C. A., sericitic. 1-2% disseminated Py.	43029		272.6	275.0	2.4'	Nil		
			43030		275.0	277.5	2.5'	10		
		275.6' - 275.7' Two narrow quartz-carbonate veins at 50 deg. to C. A.								

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		277.5' - 287.2' 5% quartz-carbonate veins.								
287.2'	313.5'	MAFIC VOLCANIC								
		Contact not sharp, at 30 deg. to C. A. Fine grained, grey. Core gradually becomes more mafic, carbonatized, chloritic.								
		287.2' - 290.0' Finely foliated at 30-50 deg. to C. A. 10% narrow, wavy quartz-carbonate veinlets. Local cubes Py.	43031		287.0	290.0	3.0'	10		
		290.0' - 293.0' Foliation parallel to C. A. 5% quartz-carbonate.								
		293.0' - 297.0' Foliation at 30 deg. to C. A.								
		297.0' - 303.0' Foliation parallel to C. A.								
		297.0' - 299.0' 15% narrow, wavy quartz-carbonate veins, parallel to C. A. Trace Py.	43032		297.0	299.0	2.0'	10		
		297.0' - 298.0' Two 1/16" wavy quartz-carbonate veins, 1/8" apart, parallel to C. A. and wavy and exactly parallel to each other.								
		299.0' - 348.0' Foliation parallel to subparallel to C. A., locally at 30 deg. to C. A. Local stretched quartz filled amugdules.								
		Trace to 1% disseminated Py. 10% narrow quartz-carbonate veinlets, parallel to foliation. Local narrow quartz-carbonate.								

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
313.6′	416.2′	INTERMEDIATE-MAFIC VOLCANIC								
		Contact not sharp, but appears to parallel C. A. from 313.5′ - 316.0′. Lower contact at 40 deg. to C. A.								
		Foliation parallel to 30 deg. to C. A. to 348.5′.								
		Grades from dark to medium brown.								
		339.0′ - 343.0′ 10% quartz-carbonate threads, parallel to C. A. These are short discontinuous threads.	43033		339.0	341.0	2.0′	Nil		
			43034		341.0	343.0	2.0′	Nil		
		348.5′ - 349.7′ Brown, carbonatized, foliated parallel to C. A., water seam.	43035		348.5	350.6	1.7′	10		
		349.7′ - 350.6′ 50% quartz-carbonate veins at 30 deg. to C. A. cut by two quartz-carbonate veins at 60 deg. to C. A. Trace Py.								
		360.0′ - 361.5′ 95% quartz-carbonate. Contacts at 40 and 55 deg. to C. A.	43036		360.0	361.5	1.5′	10		
			43037		361.5	363.7	2.2′	10		
		362.1′ - 363.8′ 75% quartz-carbonate. Contacts at 40 and 30 deg. to C. A. Chloritic to sericitic, light brown streaks at margins.								
		363.7′ - 368.7′ 25% quartz-carbonate locally. Core is highly folded from parallel to 60 deg. to C. A.	43038		363.7	366.7	3.0′	10		
			43039		366.7	368.7	2.0′	20		
		368.7′ - 370.5′ 10% mostly narrow wavy quartz-carbonate veinlets, predominantly parallel to sub-								

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		parallel to C. A. Foliation parallel to 40 deg. to C. A.								
		370.0' - 379.0' Fragmental? Finely foliated parallel to 40 deg. to C. A. Local siliceous sub-rounded fragments(?), stretched parallel to foliation.								
		398.5' - 406.0' Fragmental(?) as above. Finely foliated parallel to C. A. Local subangular, stretched fragments(?).								
		398.5' - 399.5' 5% fine Py in chloritic stringers.	43040		398.5	400.0	1.5'	40		
		399.3' Fine disseminated Py in 1/2" chert band, parallel to foliation at 65 deg. to C. A. Fine Py at margins of quartz-fragments.								
416.2'	428.6'	MAFIC-INTERMEDIATE VOLCANIC								
		25% quartz-carbonate veins, parallel to foliation at 70 deg. to C. A. 1-2% disseminated Py.	43041		416.2	419.2	3.0'	40		
			43042		419.2	422.2	3.0'	440		
			43043		422.2	425.0	2.8'	410		
		Foliation locally parallels C. A. Volcanic becomes locally very felsic.	43044		425.0	426.6	1.6'	230		
			30837		426.6	428.6	2.0'	690		
428.6'	463.7'	MINERALIZED QUARTZ ZONE (Minor carbonate)								
		428.2' - 433.6' 90% quartz-carbonate. Local chlorite filled fractures at 70 deg. to C. A.	30838		428.6	430.6	2.0'	280		
			30839		430.6	432.1	1.5'	220		
		1-2% disseminated Py in chlorite filled fractures.	30840		432.1	433.6	1.5'	1680	0.049	

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Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		433.6' - 435.0' 50% banded quartz-minor carbonate, at 70 deg. to C. A. in Mafic Volcanic.	30841		433.6	435.0	1.4'	560	0.016	
		435.0' - 437.0' 1% fine Py in chlorite stringers, 90% quartz.	30842		435.0	437.0	2.0'	270	0.008	
		437.0' - 438.5' 75% quartz, 2-3% fine Py.	30843		437.0	438.5	1.5'	430	0.013	
		438.5' - 440.0' 95% quartz, 3% Py in blebs, minor fuchsite	30844		438.5	440.0	1.5'	330	0.010	
		440.0' - 441.5' 90% quartz, 15% blebs disseminated Py in quartz, 0.5% Cpy.	30845		440.0	441.5	1.5'	9670	0.331	
		441.5' - 442.5' 90% white quartz.	30846		441.5	442.5	1.0'	270	0.008	
		442.5' - 444.4' 1% fine Py, 10% quartz in volcanic.	30847		442.5	444.4	1.9'	70		
		444.4' - 446.9' 1% fine Py, 10% irregular quartz veins to 2.0", parallel to 70 deg. to C. A.	30848		444.4	446.9	2.5'	80		
		446.9' - 449.1' 10% quartz-carbonate veins, subparallel to C. A. Trace Py.	30849		446.9	449.1	2.2'	100		
		449.1' - 450.2' 80% quartz-carbonate, 1-2% Py in chlorite.	30850		449.1	451.1	2.0'	690	0.020	
		450.2' - 451.1' 50% quartz-carbonate, 2% disseminated Py.								
		451.1' - 453.1' 60% quartz-carbonate, 3-5% fine Py in volcanic.	30851		451.1	453.1	2.0'	920	0.027	790
		453.1' - 454.8' 50% quartz-carbonate, 10% fine Py in chlorite seams and volcanic.	30852		453.1	454.8	1.7'	630	0.019	
		454.8' - 456.9' 2-3% streaky Py in volcanic, 10% narrow	30853		454.8	456.9	2.1'	200		

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		quartz-carbonate veins.								
		456.9' - 459.4' 40% quartz-carbonate veins at 70-80 deg. to C. A. 5% fie disseminated Py in chloritic volcanic.	30854		456.9	459.4	2.5'	230		
		459.4' - 461.4' 60% irregular quartz-carbonate, 10% fine Py in chloritic stringers.	30855		459.4	461.4	2.0'	460	0.010	350
		461.4' - 463.7' 80% quartz-carbonate, 10% fine disseminated Py in chlorite stringers at 70-80 deg. to C. A.	30856		461.4	463.7	2.3'	470	0.010	
463.7'	507.0'	MAFIC VOLCANIC								
		Dark grey, fine grained, foliated.	30857		463.7	465.8	2.1'	30		
		488.5' Foliated parallel to C. A.								
		469.5' Foliation at 50 deg. to C. A.								
		469.5' - 472.0' Foliation in series of thght folds.								
		472.0' - 477.0' Foliation at 30-60 deg. to C. A.								
		468.7' - 477.0' 5-10% narrow quartz-carbonate stringers, parallel to foliation.	40345		475.0	477.0	2.0'	30		
		477.0' - 489.3' 25-30% quartz-carbonate veins, to 4.0", predominantly 1.0"-2.0", parallel to foliation. Slight purple cast to veins.								
		Py in section is predominantly disseminat-								

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: SG89-47 Sheet 12 of 12

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		ed in chloritic volcanic, at margins with quartz-carbonate and in chloritic stringers in quartz-carbonate.								
		477.0' - 479.5' 10% Py, 50% quartz-carbonate.	43046		477.0	479.5	2.5'	1010	0.028	
		479.5' - 481.8' 1-2% Py in volcanic, 10% quartz-carbonate.	43047		479.5	481.8	2.3'	40		
		481.8' - 482.6' 2-3% Py in volcanic, 50% narrow quartz-carbonate, parallel to foliation, which is parallel to C. A.	43048		481.8	482.8	1.0'	260		
		482.6' - 485.7' 20% quartz-carbonate, 2-3% Py.	43049		482.8	485.7	2.9'	390		
		485.7' - 488.7' 50% quartz-carbonate.	43050		485.7	488.7	3.0'	510		
		485.7' - 487.0' 2% Py.								
		487.0' - 488.7' 10% Py.	43051		488.7	490.7	2.0'	20		
		489.3' 1/2" quartz-carbonate vein at 90 deg. to C. A. Foliation at 40 deg. to C. A.								
		497.0' Dyke. Chilled contacts at 30 deg. to C. A., parallel to foliation.								
			43052		499.9	501.2	1.3'	20		
		Siliceous, chlorite threads subparallel to C. A.	43053		501.2	503.8	2.6'	10		
		503.8' - 507.0' 10-15% quartz-carbonate veins, parallel or at low angle to C. A. Trace Py.	43054		503.8	507.0	3.1'	20		
	507.0'	END OF HOLE								

CLAIM No 683 688

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: SG89-48 Sheet 1 of 12

Property name: SANGOLD
Hole No. : SG89-48
Location : 8+90.4 N 2+11.0 SW (WEST MINING GRID) Length: 447.0'
Elevation: Azimuth: 325 Dip: -45.0
Started : Aug. 15, 1989 Finished: Aug. 16, 1989

Acid dip tests			
Footage	Dip	Footage	Dip
100'	-43.0		
250'	-42.0		
417'	-42.0		

Remarks: BQ core

Logged by: J.R. Lill

Footage From	Footage To	Description	Sample No.	Sample % Sulphides	Sample From	Sample To	Sample Total	Assays (Au) ppb	Assays (Au) Oz/tn	Assays (Au) Re
0	65.0'	Casing								
65.0'	107.0'	INTERMEDIATE-MAFIC VOLCANIC								
		Rock is just slightly more Felsic than Mafic rock in other holes, but not to Intermediate.								
		65.0' - 69.0' 10% irregular quartz-carbonate veins. Foliation at 40 deg. to C. A. Trace to 1% Py.								
		69.0' - 76.0' 15% quartz veins and patches at low angles to parallel to C. A.								
		70.0' - 88.0' Several local (short) 2.0"-3.0' rusty, carbonatized sections. Water seams.								
		88.6' - 90.1' Rusty, carbonatized. Sharp contacts at 70 deg. to C. A. Foliation parallel to C. A.	43055		88.6	90.1	1.5'	20		
			43056		90.1	93.2	3.1'	10		
		91.5' - 91.7' Narrow, wavy, discontinuous quartz-carbonate veins at 50 deg. to C. A., cutting foliation								
		91.7' - 93.3' Scattered narrow quartz-carbonate veins.								
		92.3', 92.7' Two narrow quartz-carbonate veins, parallel to foliation at 30-35 deg. to C. A. cutting and offsetting about 1/4" narrow quartz-carbonate vein at 90 deg. to C. A.								

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: SG89-48 Sheet 2 of 12

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/t	Re
		93.3' - 94.1' 30% quartz-carbonate veins, slight purple cast. Narrow veins at 60 deg. to C. A. 1.0' vein at 40 deg. to C. A.	43057		93.2	94.2	1.0'	140		
		94.1' - 96.0' Massive volcanic. 1-2% quartz-carbonate veins.	43058		94.2	96.0	1.8'	10		
		96.0' - 98.0' 10% narrow quartz-carbonate veins. 96.5' Parallel to C. A. 96.5' - 97.5' 50 deg. to C. A.	43059		96.0	98.0	2.0'	10		
		98.0' - 99.0' 35% narrow, to 1.2', quartz-carbonate veins at 50-55 deg. to C. A. 5% fine streaky Py at margins of veins in volcanics.	43060		98.0	99.0	1.0'	20		
		99.0' - 99.6' Volcanics.	43061		99.0	100.4	1.4'	20		
		99.6' - 100.4' 90% quartz-carbonate, purple cast. Upper contact irregular at 20-40 deg. to C. A., lower contact at 70 deg. to C. A.								
		100.4' - 101.0' Volcanic.	43062		100.4	101.4	1.0'	10		
		101.0' - 101.4' 15% narrow quartz-carbonate veins at 30-40 deg. to C. A. 10% fine disseminated Py at margins in volcanic.								
		101.4' - 101.6' 20% quartz-carbonate veins, 20% fine Py at margins at 50 deg. to C. A.	43063		101.4	103.0	1.6'	40		
		101.6' - 103.0' 20% narrow, grey, cherty veins parallel to C. A.								

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Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		101.6' - 102.1' 15% Py mineralization predominantly along margins in volcanics.								
		102.9' - 104.0' 20% quartz-carbonate veins at low angle to C. A. 15% coarse cubic Py along margins in volcanics.	43064		103.0	104.0	1.0'	30		
		104.0' - 107.0' Foliation parallel to subparallel to C. A. 10-15% narrow, irregular quartz-carbonate and cherty veins, 1% Py.	43065		104.0	105.8	1.8'	10		
			43066		105.8	107.0	1.2'	10		
107.0'	254.0'	MAFIC VOLCANIC								
		No observed contact. Dark grey.								
		107.0' - 117.0' 5% scattered narrow quartz-carbonate veins. Foliation at 20-40 deg. to C. A.								
		117.0' - 124.3' Becomes more finely foliated, less mafic. Dark greenish grey.								
		5% irregular, narrow quartz-carbonate veins, parallel to foliation. Trace Py.								
		118.7' - 119.1' Rusty, carbonate zone, water seam, foliation at 40 deg. to C. A.								
		124.3' - 132.6' 20-25% narrow, wavy quartz-carbonate veins and threads, parallel to foliation, locally parallel to 45 deg. to C. A.	43067		124.3	127.3	3.0'	20		
			43068		127.3	130.3	3.0'	10		
			43069		130.3	132.6	2.3'	10		

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		129.0' - 132.6' Foliation and veining parallel to C. A. 2-3% fine disseminated Py.								
		132.6' - 164.0' 5% scattered quartz-carbonate veins, predominently parallel to foliation which is parallel to 40 deg. to C. A.								
		134.3' - 134.7' Rusty, carbonatized, carbonate fracture at 60 deg. to C. A. Foliation parallel to C. A.								
		150.5' - 151.0' Rusty, carbonatized, carbonate seam at 30 deg. to C. A. Foliation subparallel to C. A. 10% quartz-carbonate vein on foot wall and hanging wall side for 6.0'.	43070		150.1	151.5	1.4'	Nil		
		151.5' - 154.0' 5-10% quartz-carbonate veins, parallel to C. A. 1-2% disseminated Py.								
		168.8' - 173.8' Rusty, carbonatized. Upper and lower contacts at 20 deg. to C. A.	43071 43072		168.8 171.8	171.8 173.8	3.0' 2.0'	10 Nil		
		169.2' - 170.1' Broken chloritic core.								
		171.0' - 173.0' Broken chloritic.								
		173.8' - 175.0' Mafic Volcanic. Foliation parallel to C. A.	43073		173.8	175.0	1.2'	10		
		175.0' - 179.5' Rusty, carbonatized, chloritic.	43074 43075		175.0 177.0	177.0 179.5	2.0' 2.5'	10 10		
		175.0' Fracture at 15 deg. to C. A.								

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Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		179.2' - 179.5' Folded, rusty quartz-carbonate vein, mainly parallel to C. A.								
		179.5' - 184.5' 5-10% narrow, irregular quartz-carbonate veins, parallel to foliation which goes parallel to 40 deg. to C. A. Trace to 1% Py.	43076		179.5	182.5	3.0'	20		
			43077		182.5	184.5	2.0'	10		
		187.0' Quartz thread at 90 deg. to C. A.								
		191.3' - 192.5' 15% quartz-carbonate-chert veins at 30 deg. to C. A. Chert lenses contain fine disseminated magnetite.	43078		191.3	192.5	1.2'	10		
		192.3' Slight rust, 1-2% fine disseminated Py.								
		196.0' - 196.5' Subangular 'patch' chert with disseminated magnetite.								
		199.1' - 201.7' Series of 1/8"-1/4" quartz-carbonate veins at 80-90 deg. to C. A. Foliation is very weak at 20-30 deg. to C. A. Possible trace Py.	43079		199.1	201.7	2.6'	10		
		201.7' - 212.4' Less than 50% quartz-carbonate veins. Weak foliation at low angles (20-30 deg.) to C. A.								
		212.4' - 213.8' Rusty, carbonatized, foliation parallel to C. A.	43080		212.4	213.8	1.4'	10		
		213.2' Heavily carbonatized fracture.								

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		213.8' - 215.3' 10% veinlets and fragments(?), grey chert with disseminated magnetite.	43081		213.8	215.3	1.5'	10		
		215.3' - 217.0' 5% quartz-carbonate.	43082		215.3	217.0	1.7'	10		
		217.0' - 218.0' 15% quartz-carbonate veins at 20 and 80 deg. to C. A. Trace Py.	43083		217.0	218.0	1.0'	Nil		
		218.0' - 225.8' +/- 5% scattered narrow quartz-carbonate veins.								
		225.8' - 228.0' 20% quartz-carbonate veins and lenses chert with magnetite, parallel to low angle to C. A. 5% disseminated Py, trace Cpy in narrow quartz-carbonate vein.	43084		225.8	228.0	2.2'	50		
		228.0' - 230.1' Volcanic. Foliation at 20 deg. to C. A.	43085		228.0	230.0	2.0'	Nil		
		230.1' - 233.8' 15% narrow quartz-carbonate veins parallel to foliation. 2-3% disseminated Py in veins and volcanic rock.	43086 43087		230.0 232.0	232.0 233.8	2.0' 1.8'	Nil 10		
		233.8' - 254.0' Less than 5% quartz-carbonate veins, scattered carbonate filled amygdules.								
254.0'	271.5'	MAFIC FRAGMENTAL TUFF ?								
		Dark grey, fine grained, finely banded at 50 deg. to C. A. Local subangular, siliceous fragments.								
		258.0' - 261.0' 2-3% fine Py, parallel to foliation.	43088		258.0	261.0	3.0'	20		
		260.0' - 261.0' 1-2% disseminatd Py.								

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		261.0' - 262.0' Tightly folded, chlorite slips.								
		261.0' - 262.3' 5% streaky disseminated Py in quartz-carbonate bands in the fold area.	43089		261.0	262.3	1.3'	Nil		
		262.0' - 263.7' 5% scattered blebs coarse Py.	43090		262.3	263.7	1.4'	Nil		
		263.7' - 267.5' 1% fine Py, foliated at 20 deg. to C. A. Mafic Volcanic.	43091		263.7	265.5	1.8'	Nil		
			43092		265.5	267.5	2.0'	Nil		
		265.5' - 266.3' Rusty, carbonatized, water seam.								
		266.1' Carbonate seam at 40 deg. to C. A. cutting foliation.								
		266.3' - 271.5' Foliation at 40 deg. to C. A.								
271.5'	287.9'	MAFIC-INTERMEDIATE VOLCANIC								
		Dark grey green, fine grained, gradually becomes less finely banded.								
		271.5' - 287.4' Foliation parallel to 40 deg. to C. A. Less than 5% quartz-carbonate veins, except locally.								
		280.0' - 281.0' 20% quartz-carbonate, parallel to C. A. 2-3% disseminated Py in volcanic.	43093		280.0	281.0	1.0'	Nil		
		286.0' - 287.0' 1-2% fine Py in finely banded volcanic, parallel to C. A.	43094		285.0	287.0	2.0'	Nil		

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Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
297.9'	297.3'	INTERMEDIATE FRAGMENTAL ?								
		Lighter grey, more siliceous than above, foliated at 30 deg. to C. A., elongated parallel to foliation.								
		Light quartz and carbonate filled fragments(?).								
		Upper and lower contacts at 30 deg. to C. A.								
		Trace to 1% Py.								
297.3'	307.0'	INTERMEDIATE-MAFIC TUFF								
		Finely banded.								
		297.3' - 303.0' Foliation parallel to 30 deg. to C. A.	43095		297.3	299.3	2.0'	Nil		
		1-2% scattered blebs coarse Py.	43096		299.3	303.0	2.7'	10		
		303.0' - 307.0' Foliation at 50 deg. to C. A.	43097		303.0	305.0	2.0'	Nil		
			43098		305.0	307.0	2.0'	Nil		
307.0'	310.5'	SILICEOUS ZONE								
		50% irregular quartz veins, to 1/4", mainly at40-50 deg. to C. A. Veins cut light tan siliceous to slightly chloritic fine grained volcanic.	43099		307.0	309.0	2.0'	40		
			43100		309.0	310.5	1.5'	30		
		1-2% disseminated Py in siliceous matrix.								
		Lower contact at 25 deg. to C. A.								

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
310.5'	315.9'	MAFIC-INTERMEDIATE FRAGMENTAL								
		Finely foliated at 30-40 deg. to C. A. 1% scattered blebs Py, local light quartz-carbonate fragments to 1/4", oriented parallel to foliation.	43101		310.5	313.0	2.5'	10		
			43102		313.0	315.9	2.9'	Nil		
315.9'	336.3'	SILICEOUS ZONE								
		Interlayered with volcanics, contacts parallel to foliation at 20 deg. to C. A. 2-3% fine disseminated Py at contact.								
		10% narrow quartz-carbonate veins, fracture parallel to C. A.	43103		315.9	317.0	1.1'	Nil		
		317.0' - 319.0' Finely foliated volcanic at 20-50 deg. to C. A. 2% Py in ~~quartz-carbonate which is~~ 5% of core.	43104		317.0	319.2	2.2'	80		
		319.2' - 322.9' Siliceous zone. Contacts conform to foliation, disseminated Py at upper contact.	43105		319.2	321.2	2.0'	140		
		321.2' - 322.9' 50% quartz, 1-2% fine Py.	43106		321.2	322.9	1.7'	50		
		322.9' - 324.8' Foliation in volcanics at 35 deg. to C. A.	43107		322.9	324.8	1.9'	30		
		324.8' - 325.3' Siliceous Zone. Contacts parallel to foliation at 35-40 deg. to C. A.	43108		324.8	327.4	2.6'	20		
		325.3' - 327.4' Finely foliated.								

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		327.4' - 330.6' Siliceous Zone.								
		327.4' - 329.2' 25% quartz-carbonate veins, 1% disseminated Py.	43109		327.4	330.6	3.2'	150		
		329.2' - 330.6' 50% quartz-carbonate, 1% Py.								
		330.6' - 331.3' Volcanic. Contacts at 40 and 30 deg. to C. A.	43110		330.6	333.5	2.9'	60		
		331.3' - 331.5' Siliceous Zone. Foliated at 40 deg. to C. A.								
		331.5' - 333.5' Foliation of volcanic at 50 deg. to C. A.								
		333.5' - 336.8' Siliceous Zone. Local quartz-carbonate veins to 50% of core. 1-2% disseminated Py, foliated at 40 deg. to C. A.	43111		333.5	223.8	3.3'	30		
336.8'	376.3'	MAFIC-INTERMEDIATE VOLCANIC								
		Foliated parallel to 60 deg. to C. A.								
		353.3' - 354.5' Siliceous volcanic, roughly foliated at 55 deg. to C. A. 15% quartz-carbonate, 1-2% disseminated Py.	43112		353.3	354.5	1.2'	30		
		372.0' - 373.5' Finely banded at 30 deg. to C. A.	43113		372.0	373.5	1.5'	80		
		372.0' - 372.5' 10% disseminated Py.								
		372.5' - 373.5' 1-2% fine Py.								

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		Boudinaged quartz veins parallel to foliation. This may be a fragmental, tuff(?).								
		Volcanic has 5-10%, mostly narrow, quartz-carbonate veinlets, parallel to foliation.								
376.3'	447.0'	MAFIC VOLCANIC								
		Dark, fine grained, weak foliation at 50 deg. to C. A. 5% quartz-carbonate threads, predominantly parallel to foliation.								
		392.6' - 392.8' Quartz-carbonate vein, cutting foliation at 30 deg. to C. A.								
		394.0' - 396.8' 20% quartz-carbonate veins.	43114		394.0	396.8	2.8'	Nil		
			43115		396.8	398.0	1.2'	950		
		395.5' - 395.8' 50% quartz-carbonate veins at 80 deg. to C. A. Trace Py.								
		398.0' - 399.0' Broken core, fragments of quartz-carbonate	43116		398.0	399.0	1.0'	440		
		399.0' - 400.2' Chloritic slips parallel to C. A.	43530		399.0	402.0	3.0'	30		
		399.5' - 400.2' Broken core.								
		401.6' - 402.5' Much broken core, foliation at 20 deg. to C. A.								
			43531		402.0	405.0	3.0'	20		
		402.5' Mud, fault(?).	43532		405.0	408.2	3.2'	NIL		
		408.0' - 408.3' Broken core.								

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Hole No.: SG89-48 Sheet 12 of 12

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		408.2' - 409.2' 50% quartz-carbonate with dark chlorite, 10% disseminated Py in chlorite, bleb of Py in quartz-carbonate.	43117		408.2	409.2	1.0'	1050	0.031	
		409.6' - 410.5' Broken core, 1-2% Py.								
		409.2' - 423.0' Foliation parallel to 20 deg. to C. A. 5% narrow quartz-carbonate veinlets, parallel to foliation.	43533		409.2	411.2	2.0'	70		
			43534		411.2	413.2	2.0'	20		
		423.0' - 432.0' Light cream coloured, siliceous. Contacts are gradational but parallel to foliation at 30 deg. to C. A.	43118		426.0	428.0	2.0'	Nil		
		This may be a Tuff, local small elongated quartz filled fragments(?).								
		437.0' - 441.5' 15% short wavy quartz-carbonate threads, at 30-40 deg. to C. A. Core is dark Mafic Volcanic Fragmental. Trace Py.								
		442.0' - 442.4' 1.0' quartz-carbonate vein, subparallel to C. A.								
		445.5' - 447.0' Tuff? Light, siliceous. Contacts conform to foliation at 50 deg. to C. A. in surrounding rock.								
	447.0'	END OF HOLE								

CLAIM No 683 688

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: SG89-49 Sheet 1 of 8

Property name: SANGOLD
Hole No. : SG89-49 0+19.6W (WEST MINING GRID)
Location : 9+~~77.5N~~ ~~20+00E~~ Length: 597.0'
Elevation: 9991.5' Azimuth: 335 Dip: -45.0
Started : Aug. 21, 1989 Finished: Aug. 22, 1989

Acid dip tests			
Footage	Dip	Footage	Dip
100'	-43.0	550'	-38.0
250'	-43.0		
400'	-40.0		

Remarks:

Logged by: J.B. Hinzer

Footage From	Footage To	Description	Sample No.	Sample % Sulphides	Sample From	Sample To	Sample Total	Assays (Au) ppb	Assays (Au) Oz/tn	Assays (Au) Re
0	90.0'	Casing								
90.0'	350.8'	DACITIC (INTERMEDIATE) TUFF								
		Fine grained, light tan-grey, appears well bedded, locally finely laminated with dark grey, siliceous, cherty tuff bands up to 1.0cm in width.								
		Foliation or bedding generally is at 45-50 deg. to C. A., but in most cases, foliation is contorted, reminiscent of soft sediment deformation or intense deformation.								
		5-10% bluish grey quartz veins (+/- carbonate) form both along and across foliation, usually contorted, averaging 1/4"-1/2" in width.								
			43801		97.0	99.0	2.0'	Nil		
		Carbonatization alteration, at cross cutting 45 deg. angle, surrounds 1/8" white quartz veins or faults for up to 1.0' from vein.								
		Sulphide forms as thin wisps (2-3%) within bluish cherty sections.	43802		105.0	107.0	2.0'	10		
		99.0' and 100.4' 3.0"-4.0" carbonatization alteration.								
		117.0' - 118.0' 2-3% Py.	43803		117.0	119.0	2.0'	Nil		
			43804		119.0	120.5	1.5'	10		
		127.0' - 130.0' Very contorted quartz veining with 5% Py for central 1.0' of section.	43805		128.5	130.5	2.0'	Nil		

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Hole No.: 8689-49 Sheet 2 of 8

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tr	Re
		145.0' - 146.0' 10-15% quartz-carbonate, 2-3% Py.								
		147.0' - 149.5' Carbonatization alteration zone (fault?), 2-3% Py.	43806		147.0	149.0	2.0'	Nil		
		149.5' - 153.5' Strongly contorted, 2-3% Py.	43807		149.0	152.0	3.0'	Nil		
			43808		152.0	154.0	3.0'	Nil		
		157.0' - 158.0' Bluish grey cherty band, 3% Py.	43809		157.0	159.0	2.0'	10		
		167.0' - 300.0' Bluish quartz veins and silicified zones diminish, quartz veining becomes white (still same amount).	43810		167.0	169.0	2.0'	Nil		
		174.0' Carbonatized fault zone at 50 deg. to C. A. (4.0' wide).	43811		173.5	175.5	2.0'	Nil		
		176.0' - 178.4' 1.0'-2.0' quartz-carbonate vein at 5-10 deg. to C. A. Trace Py.	43812		175.5	178.5	3.0'	Nil		
		191.5' and 192.5' 3.0'-4.0' bluish quartz veins.	43813		190.5	194.0	3.5'	Nil		
		205.0' - 224.0' Intense contortions with local quartz veining and carbonatized Fault Zone. Locally 2-3% Py.								
		208.5' - 209.5' Carbonatized Fault Zone, rusty brown.	43814		208.0	210.0	2.0'	Nil		
			43815		210.0	212.0	2.0'	Nil		
		215.0' - 218.5' Carbonatized Fault Zone, rusty brown.	43816		214.5	217.0	2.5'	10		
			43817		217.0	219.0	2.0'	Nil		
	226.0'	4.0' carbonatized Fault Zone.								

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Pe
		229.0' - 239.0' Significant bluish grey quartz veins (trace carbonate). Trace Py.	43818		229.0	231.5	2.5'	Nil		
			43819		231.5	234.5	3.0'	Nil		
			43820		234.5	237.5	3.0'	Nil		
		Best at 231.0' - 233.0' and 236.0' - 239.0', up to 6.0" wide.	43821		237.5	239.5	2.0'	10		
250.8'	273.0'	DACITIC (INTERMEDIATE) FINE FRAGMENTAL TUFF								
		Similar to above, tan to medium grey, finely laminated or bedded at 45 deg. to C. A., but mostly convoluted and folded often parallel to C. A., slightly more mafic.								
		Locally more siliceous sections carry 2-3% disseminated Py, especially where intensely folded (such as at 26.7',etc).								
		252.0' Intensely foliated zone, local cherty bands.								
		252.0' - 254.0' 60% quartz veins.	43822		251.5	254.5	3.0'	Nil		
			43823		254.5	257.0	2.5'	10		
		258.0' 1/4' massive disseminated sulphide band.	43824		257.0	258.0	1.0'	Nil		
		260.0' 4.0' quartz vein, white.	43825		258.0	261.0	3.0'	Nil		
		261.0' - 263.0' 3% disseminated Py.	43826		261.0	264.0	3.0'	10		
			43827		264.0	267.0	3.0'	10		
273.0'	317.5'	DACITE (INTERMEDIATE) TUFF - FINE FRAGMENTED TUFF								
		Mixture of above two units from 90.0' - 250.8' and 250.8' - 273.0'.								
		277.0' - 286.0' Fragmental appearance, highly contorted.	43828		280.5	283.5	3.0'	Nil		

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		284.0' - 287.0' 70% quartz veining, trace Py.	43829		283.5	286.5	3.0'	Nil		
		287.0' - 288.0' and 290.0' - 290.6' Quartz veining, bluish grey, with trace Py.	43830		286.5	289.5	3.0'	Nil		
			43831		289.5	291.5	2.0'	Nil		
		304.0' - 311.0' Fragmented, contorted zone.	43832		304.0	307.0	3.0'	Nil		
			43833		307.0	310.0	3.0'	10		
		305.0' Minor fault.								
			43834		313.5	314.5	1.0'	10		
		314.0' Minor fault.								
317.5'	375.0'	INTERMEDIATE TUFF								
		Fine grained, sheared tuff, similar to 90.0' - 250.8', but darker grey, less prominant banding.								
		Average foliation/bedding at 35-40 deg. to C. A.	43535		319.0	321.0	2.0'	10		
		1/4"-1/2" white quartz veining is much less prominant.	43536		321.0	323.0	2.0'	50		
		322.8' - 324.3' Quartz Vein Zone, 3-4% disseminated Py.	43835		323.0	327.0	3.0'	140		
		326.0' - 327.0' 30-40% quartz veining, trace Py.	43537		327.0	329.0	2.0'	40		
		338.9' - 340.8' Carbonatized Fault Zone, brown-rusty.	43836		338.5	341.0	2.5'	20		
		369.0' - 370.5' Carbonatized Fault Zone, brown-rusty.	43837		369.0	371.0	2.0'	100		
375.0'	415.0'	INTERMEDIATE FRAGMENTED TUFF (BX)								
		Similar to 250.8' - 273.0', extremely contorted and fragmented tuff beds, 1/8"-1/4". Fragmented by intense circulation.								

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		Colour is medium to dark grey, darker than before.								
			43838		379.0	381.0	2.0'	20		
		Trace to 1% Py locally, usually in bluish grey quartz veins	43839		385.0	387.0	2.0'	20		
			43840		387.0	389.0	3.0'	30		
		392.0' - 402.0' White quartz veining and carbonate with local black tourmaline patches.	43841		392.0	394.0	2.0'	10		
			43842		394.0	397.0	3.0'	10		
			43843		397.0	400.0	3.0'	30		
		1% disseminated sulphides, common along 1/8' foliation, parallel to quartz veins.	43844		400.0	403.0	3.0'	10		
			43845		403.0	406.0	3.0'	Nil		
415.0'	467.0'	MIXED INTERMEDIATE TUFF and FRAGMENTED TUFF								
		As above two sections.								
		415.0' - 429.0' Fine grained, grey, fairly homogeneous, with occasional 1/8' quartz stringer or nodule.								
		Foliation at 35-40 deg. to C. A.								
		429.0' - 453.0' Moderately fragmented, but not continuous.								
		431.0' - 433.0' Quartz-Carbonate Vein Zone. 30% quarz-carbonate veining, trace Py.								
		436.0' Carbonatized Fault Zone.	43846		436.0	439.0	3.0'	20		
		439.6' - 441.0' 40% Quartz Vein Zone, trace Py. Carbonatized Fault Zone	43847		439.0	442.0	3.0'	Nil		
			43848		445.0	448.0	3.0'	10		
		448.0' - 451.0' 1.0' quartz-carbonate	43849		448.0	451.5	3.5'	10		

Footage From	Footage To	Description	Sample No.	Sulphides	Sample From	Sample To	Sample Total	Assays (Au) ppb	Assays (Au) Oz/tn	Assays (Au) Pc
		...ir at 10 deg. to C. A.								
		455.0' - 467.0' ... (...ented, mostly tuffaceous.	43858		459.0	461.0	2.0'	10		
			43859		461.0	464.0	2.0'	10		
467.0'	577.0'	INTERMEDIATE TUFF (Chloritized)								
		Similar to 317.0' - 375.0', light grey to tan, foliated at 30 deg. to C. A.								
		480.0' - 483.0' Quartz Vein Zone (2.0'-3.0'). Trace Py. Colour is variable, but greener tint is noted on many veined sections. Foliation at 30-35 deg. to C. A.	43860		480.0	484.0	3.0'	Nil		
		496.8' - 497.4' White, 4.0'-6.0' quartz-carbonate vein, well contorted.	43853		496.0	498.0	2.0'	Nil		
			43854		498.0	501.0	3.0'	Nil		
		500.0' - 503.5' Contorted zone with 25% quartz veins, trace carbonate.	43855		501.0	504.0	3.0'	Nil		
		505.0' 1.0' quartz vein, trace Py.								
		511.0' - 513.0' Silicified Zone. 10% quartz veining, 2-3% disseminated and cubic Py locally, highly contorted.	43856		510.5	513.0	2.5'	Nil		
			43857		513.0	516.0	3.0'	Nil		
		Contorted zones with 15-25% quartz veining at:								
			43858		516.0	519.0	3.0'	Nil		
		516.5' - 518.5'								
		521.5' - 522.5'	43859		519.0	520.5	1.5'	Nil		
		524.0', 526.0' (4.0'-6.0')								
		535.0' - 536.0'	43860		520.5	523.0	2.5'	Nil		
			43861		523.0	526.0	3.0'	10		

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Hole No.: SG89-49 Sheet 7 of 8

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/ton	Re
		537.0' - 548.5' Very highly contorted zone, almost fragmented looking or brecciated.	43864		537.0	539.0	2.0'	Nil		
			43865		544.0	547.0	3.0'	Nil		
		Two 4.0' bluish white quartz veins at 545.0' and 547.0' with 3-5% local Py cubes								
			43866		547.0	550.0	3.0'	10		
		548.5' - 577.0' Highly sheared, medium green, locally chloritized and carbonatized tuff. 1-2% Py throughout.	43868		550.0	553.0	3.0'	Nil		
		553.4' - 554.6' Massive quartz-vein with several 1/2' veins with 4.0'-5.0' on either side. ???	43866		553.0	555.0	2.0'	Nil		
			43867		555.0	557.0	2.0'	Nil		
		556.0' 2.0'-3.0' brecciated, bleached Fault Zone.	43868		557.0	560.0	3.0'	Nil		
		556.0' - 569.0' Intricate folding and contorted zone. 10-15% quartz veining, trace to 2% Py throughout, locally 2-3% Py.	43869		560.0	562.0	2.0'	Nil		
			43870		562.0	564.0	2.0'	Nil		
			43871		564.0	567.0	3.0'	Nil		
			43872		567.0	569.0	2.0'	Nil		
		569.0' - 573.0' Brecciated Quartz Vein Zone. 1-2% finely disseminated Py	43873		569.0	572.0	3.0'	Nil		
			43874		572.0	575.0	3.0'	Nil		
		573.0' - 577.0' 5-10% quartz veining, trace to 1% Py.	43875		575.0	577.0	2.0'	Nil		
577.0'	597.0'	INTERMEDIATE-MAFIC TUFF								
		Tan brown to grey, fine grained, highly sheared.								
		Unit is homogeneous in colour, bedding or foliation is very								

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Hole No.: SG89-49 Sheet 8 of 8

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		faint and variable from 10-40 deg. to C. A. Local quartz blebs resemble amygdules.								
		Foliation parallel quartz veining is limited to 2-3% and only narrow veins.								
		Sulphides: 1-2% Py, locally within foliation or along 1/8" cross cutting carbonate veinlets.								
	597.0'	END OF HOLE								

CLAIM NO 752139

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Hole No.: S135-1 Sheet 1 of 11

Property name: SANGOLD
Hole No. : S135-1
Location : 0+61N 2+34E (EAST TRAVERSE GRID) Length: 207.0'
Elevation: 0' (DATUM) Azimuth: 160 Dip: -45
Started : Aug. 16, 1989 Finished: Aug. 17, 1989

Acid dip tests			
Footage	Dip	Footage	Dip
100'	-43.0		
200'	-42.0		

Remarks: BQ core. Parts were sampled and split by J.L. prior to logging due to rush. Entire hole sampled.
Logged by: E.H. Toews & J.L.Lill

Footage From	Footage To	Description	Sample No.	Sample % Sulphides	Sample From	Sample To	Sample Total	Assays (Au) ppb	Assays (Au) Oz/tn	Assays (Au) Re
0	18.0'	Casing								
18.0'	73.0'	FELSIC VOLCANICS								
		Light to medium grey, fine to very fine grained, generally moderately soft, generally well to moderately foliated at 10-60 deg. to C. A.								
		Rocks locally appear more massive and mottled due to cataclasis(?).								
		Trace to locally 60% milky quartz-carbonate (calcite) +/- chlorite, +/- Py veins 1/16-1.0" wide at subparallel to 70 deg. to C. A.								
		Veining is often deformed or folded and often cross cuts the foliation in the host rocks.								
		Local oxidized (carbonatized) patches (water seams).								
		Trace to locally 5% Py cubes up to 1/8" in veins and wall rock.								
		18.0' - 27.0' 3.5' core missing (may be from top of hole). Possibly 3.0" piece of intermediate dyke(?) at beginning of core.								
		Note - Sampling was previously done from beginning of core to first marker block at 27.0'.								

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Hole No.: S135-1 Sheet 2 of 11

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		This caused a lost core gap between 22.5' - 26.0' in sampling.								
		Scattered oxidized parts (water seams).	'A'	Trace Py	18.0	20.2	2.2'	Nil		
		18.0' - 20.2' Foliation at 10-60 deg. to C. A., 2-3% quartz-carbonate veins up to 1/2" wide.	30858							
		20.2' - 20.9' Quartz vein parallel to C. A.								
		20.9' - 21.2' Quartz vein at 60 and 90 deg. to C. A.	30859	< 0.5% Py	20.2	21.2	1.0'	10		
		21.2' - 22.3' 10% oxidized quartz-carbonate veins up to 3/4" with strong oxidization at 22.3' at 45 deg. to C. A. (water seam).	30860		21.2	22.5	1.3'	50		
		22.3' - 27.4' (may be only about 2.0' long) Felsic volcanic with foliation at 10 deg. to subparallel to C. A.	30861	Nil	26.0	27.4	1.4'	Nil		
		Rock may be cataclastic.								
		Upper contact at 50 deg. to C. A.								
	27.4' - 27.7'	Quartz-carbonate-chlorite vein up to 1.0" wide at 15 deg. to C. A. with local cluster of Py up to 1.0" long parallel to vein.	30862	2-3% Py	27.4	28.4	1.0'	330		
		Some sericitic inclusions.								
		Local Py cubes in sericitic wall rocks.								

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Hole No.: S135-1 Sheet 3 of

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		28.4' - 73.0' Foliated at 45-60 deg. to C. A. (locally 15-30 deg.)	30874	< 0.5% Py	28.4	31.0	2.6'	20		
		1/2-2% quartz-carbonate veins, patches at 15-70 dg. to C. A.								
		Minor disseminated Py cubes, locally up to 1% in host rocks.								
		Host rocks have mottled areas.								
		Occasional chlritized fragments up to 1/2" in size.								
		31.3' - 33.0' 10% quartz-carbonate +/- chlorite veins and patches at 20-30, 65-70 deg. to C. A.	30875	< 0.5% Py	31.0	33.0	2.0'	30		
		Foliation at 15-20 to 60 deg. to C. A.								
		33.0' - 39.0' Foliation variable at 20-50 deg. to C. A.	30876	Trace Py	33.0	36.0	3.0'	Nil		
			30877	Trace Py	36.0	39.0	3.0'	Nil		
		39.5' Water seam. Oxidized zone 2.0' wide.	30863	0.5% Py	39.0	40.5	1.5'	10		
		40.5' - 42.8' Foliation at 50 deg. to C. A.	30864	< 0.5% Py	40.5	42.8	2.3'	Nil		
		Lower contact at 70 deg. to C. A.								
		42.8' - 44.1' Quartz-carbonate vein with 20% chloritic seams, patches (some tourmaline?).	30865	2% Py	42.8	44.1	1.3'	800		
		2% Py cubes, trace galena?.								

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Hole No.: S135-1 Sheet 4 of 11

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		Chloritic seams deformed and often at 50 deg. to C. A.								
		44.1' - 45.4' 50% quartz-carbonate veins with chloritic seams at 45-50 deg. to C. A. 2-3% Py cubes.	30866	2-3% Py	44.1	45.4	1.3'	1850	0.046	
		Some sericitic inclusions and margins.								
		45.4' - 47.0' Trace to 1/2% Py cubes disseminated.	30867	< 0.5% Py	45.4	47.0	1.6'	Nil		
		Foliation at 55-60 deg. to C. A. in felsic volcanics .	30878	Trace Py	47.0	50.0	3.0'	10		
			30879	Trace Py	50.0	54.0	4.0'	10		
		Minor quartz-carbonate veinlets.	30880	Trace Py	54.0	58.0	4.0'	Nil		
		48.8' Oxidized. Water seam at 50 deg. to C. A.	30881	Trace Py	58.0	62.0	4.0'	Nil		
		63.0' - 73.0' 2-5% quartz-carbonate +/- chlorite veins up to 1/2" wide at 15-70 deg. to C. A.	30882	Trace Py	62.0	65.0	3.0'	20		
			30883	0.5% Py	65.0	68.0	3.0'	20		
		Locally 1/2% Py.	30884	0.5% Py	68.0	71.0	3.0'	20		
		69.0' Oxidized patch. Water seam.	30885	< 0.5% Py	71.0	74.0	3.0'	20		2(
		Rocks bleached in vicinity with locally less than 1% Py cubes.								
		73.0' Gradational contact.								

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: S135-1 Sheet 5 of 1

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
73.0′	147.5′	FELSIC VOLCANICS								
		Light to medium grey, fine grained, well foliated at 55-65 deg. to C. A., often with shreds to tiny lenses of pale yellowish to tan sericite up to 3/8" long parallel to foliation.								
		Rock is often dotted to speckled with anhedral white calcite grains (trace to locally 3%) and is locally pervasively carbonatized.								
		2-5% quartz-carbonate veins, 1/16-3/4" wide, gashes at subparallel to 45 deg. to C. A. Some veins contain chlorite and can be deformed and cut by regular quartz-carbonate veins.								
			30886	< 0.5% Py	74.0	77.0	3.0′	20		
		Trace to locally 10% Py cubes occasionally up to 1/2" in size near or in quartz veins.	30887	Trace Py	77.0	80.0	3.0′	10		
		Occasional oxidized patches (water seams).	30888	< 0.5% Py	80.0	83.0	3.0′	10		
		Veining often at 2-15 deg. to C. A. from 77.0′.	30889	Trace Py	83.0	86.0	3.0′	20		
		86.1′ - 86.4′ 5-10% Py cubes and clusters with some carbonate and chlorite in bleached host rock. Cubes up to 1/4" size.	30890	3% Py	86.0	87.0	1.0′	20		
		86.6′ - 86.7′ Nose of quartz-carbonate vein at 10-15 deg. to C. A.	30891	< 0.5% Py	87.0	89.5	2.5′	Nil		
		89.3′ 1/2" cube of Py elongate parallel to foliation.	30892	Trace Py	89.5	92.5	3.0′	10		

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Hole No.: S135-1 Sheet 6 of 1

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		92.5' - 94.5' 10% partly en echelon 1/4' quartz-carbonate gashes at 5-15 deg. to C. A. Some veins deformed. 1/2' Py cube in one vein at about 93.0'.	30893	< 0.5% Py	92.5	94.5	2.0'	20		
			30894	Trace Py	94.5	98.5	4.0'	10		
			30895	Trace Py	98.5	102.5	4.0'	10		
		94.5' - 107.0' Minor quartz-carbonate veining.	30896	Trace Py	102.5	106.5	4.0'	10		
		107.6' - 109.4' 10% quartz-carbonate +/- chlorite veins 1/8-1/2' wide at subparallel to 10 deg. to C. A. (one folded along foliation(?) and cut by later 1/2' quartz-carbonate vein at 55 deg. to C. A. subparallel to foliation.	30897	Trace Py	106.5	109.5	3.0'	Nil		
			30898	Trace Py	109.5	113.5	4.0'	Nil		
			30899	Trace Py	113.5	117.5	4.0'	Nil		
		118.0' - 127.0' Possible fault zone (water seam).	30900	Trace Py	117.5	119.5	2.0'	Nil		
		Weakly to moderately oxidized host rock with 1-3% weathered out carbonate grains and 2% vuggy quartz-carbonate veins 1/16-1.0' wide at 25-35, 50 deg. to C. A.								
		Some broken core between 122.0' - 126.0'.								
		Foliation at about 60 deg. to C. A., cut by fractures at 50-60, 70-80 deg. to C. A. (6-10 per foot between 121.0' - 126.5').								
		Rocks are often pervasively carbonatized.								
		119.6' - 121.2' 10% quartz-carbonate veins 1/4-1.0' wide with extremely vuggy veins at 15 deg. to C. A. between 119.6' - 120.2'.	39901	?	119.5	121.5	2.0'	Nil		
			39902	?	121.5	124.0	2.5'	Nil		
			39903	?	124.0	127.0	3.0'	Nil		
		127.8' - 128.2' Nose of fold in felsic volcanics. Limbs	39904	Trace Py	127.0	131.0	4.0'	10		

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		at about 25 and 40 deg. (oblique to each other in open fold). Limbs cut by quartz-carbonate veins less than 3/16" wide at 35 and 65 deg. to C. A. respectively. Veins subparallel to each other. Foliations in host rock away from fold nose are about 50-60 deg. to C. A.								
	131.0' - 132.7'	10% quartz-carbonate +/- chlorite veins 1/8-1/2" wide at 45-60 deg. to C. A. Minor Py, trace galena?	39905	< 0.5% Py Tr Galena?	131.0	133.0	2.0'	Nil		
	133.0' - 137.0'	2% veining, foliation at 60-65 deg. to C. A., veins at 40-70 deg. to C. A. up to 1/2" wide.	39906	Trace Py	133.0	137.0	4.0'	50		
	137.0' - 147.5'	2-5% quartz-carbonate /- chlorite veins 1/8-3/4" wide at 50-70 deg. to C. A.	30868	Trace Py	137.0	140.0	3.0'	60		
		~142.5' - 142.7' Several 1/4-1/2" veins with 1/2% galena.	30869	< 0.5% Py < 0.5% Gn	140.0	143.0	3.0'	100		
		~143.8' 1/2" vein with 1/2% Cpy.	30870	< 0.5% Py, Cpy	143.0	144.5	1.5'	480		
		144.5' - 145.5' 10% veins with minor Py and some galena between 144.3' - 144.8'.	30871	1% Galena < 0.5% Py	144.5	145.5	1.0'	MISSING		
		145.5' - 147.5' 5-10% veining, minor Py and galena.	30872	< 0.5% Py + Galena	145.5	147.5	2.0'	2480	0.063	

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Hole No.: S135-1 Sheet 8 of 11

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
147.5'	307.0'	FELSIC VOLCANICS								
		Similar to unit from 18.0' - 73.0'; mixture of well foliated felsic volcanics to less strongly foliated volcanics with a (cataclastic?) mottled appearance.								
		Locally rocks are similar to unit from 73.0' - 147.5'.								
		Rocks are generally pervasively carbonatized from about 150.0' - 200.0'.								
		Foliations at 30-60 deg. to C. A.								
		Generally 2% quartz-carbonate +/- chlorite veins 1/16-1.0" wide at 15-70 deg. to C. A. cross cutting to subparallel to foliation.								
		Veining often deformed.								
		Minor Py often as fine grains in host rocks.								
		147.5' - 148.6' 5% veining, 1/16-1/4" wide, at about 15-70 deg. to C. A. Most are deformed.	39907	Trace Py < 0.5% Gn	147.5	148.7	1.2'	Nil		
		Galena in one veinlet at about 15 deg. to C. A. at 148.3'.								
		Foliations at about 35-45 deg. to C. A. in vacinity.								
		148.6' - 156.7' 1% veining. Foliations at 30-40 deg. to C. A.	39908	Trace Py	148.7	151.7	3.0'	Nil		
			39909	Trace Py	151.7	154.7	3.0'	Nil		
			39910	Trace Py	154.7	156.7	2.0'	Nil		

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Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		156.7' - 158.7' 10% quartz-carbonate +/- chlorite veins at 35-50 deg. to C. A. mainly. Veins 1/8-1.0" wide. Possibly minor galena present in 1.0" vein at 157.7'. Veins subparallel to foliation.	39911	< 0.5% Py + Galena	156.7	159.0	2.3'	110		
		159.0' - 159.7' 1.0" irregular quartz-carbonate vein at about 15 deg. to C. A. cross cutting foliation at 45-50 deg. to C. A. Vein contains minor galena and 1/2% Cpy grains.								
		159.9' - 160.4' Quartz-carbonate-chlorite vein at 50-55 deg. to C. A.	39912	< 0.5% Gn, Cpy,Py	159.0	160.6	1.6'	1160	0.036	
		Less than 1/2% galena, possible tourmaline veinlet parallel to lower contact.								
		160.5' 1/4-3/4" vein at 30-40 deg. to C. A. with traces of galena, minor Py. Foliation at 55 deg. to C. A.								
		160.6' - 161.6' 5% veins 1/16-1/4" wide at 45-55 deg. subparallel to foliation at 55 deg. to C. A. Minor Py.	39913	Trace Py	160.6	161.6	1.0'	80		
		161.6' - 181.3' 1% veins, 1/16-1/4" wide at 15-45 deg. to C. A., mainly oblique to foliation at 55-	39914 39915	< 0.5% Py Trace Py	161.6 165.0	165.0 169.0	3.4' 4.0'	Nil Nil		

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Hole No.: S135-1 Sheet 10 of 11

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		35 deg. to C. A.	39916	Trace Py	169.0	173.0	4.0'	Nil		
			39917	Trace Py	173.0	177.0	4.0'	Nil		
	181.3' - 181.9'	Folded, brecciated(?) quartz-carbonate vein(S) up to 3/4" wide(+ epidotization and traces Py) at subparallel to 55 deg. to C. A.	39918	Trace Py	177.0	181.0	4.0'	10		
			39919	< 0.5% Py	181.0	183.3	2.3'	10		
	182.5' - 184.3'	10% folded quartz-carbonate +/- chlorite veins 1/8-1/2" wide at 45-60 deg. and subparallel to 15 deg. to C. A. cross cutting foliation at 55-60 deg. to C. A. Minor Py grains, possible minor galena from about 184.0'.	39920	< 0.5% Py + Galena?	183.3	184.3	1.0'	Nil		
	184.3' - 186.0'	50% quartz-carbonate +/- chlorite veins at subparallel to 50 deg. to C. A.	30873	Trace Py	184.3	186.0	1.7'	60		
	186.0' - 188.5'	2-5% deformed quartz-carbonate +/- carbonate veins at 35-60 deg. to C. A. Foliation at 55 deg. changing to about 35 deg. and locally subparallel to C. A.	39921	Trace Py	186.0	189.0	3.0'	Nil		
	188.5' - 207.0'	2% quartz-carbonate +/- chlorite veins, 1/8-1/2" wide at 15-65 deg. to C. A. and mainly cross cutting foliation at 45-60 deg. to C. A. Traces of Py. 201.0' - 202.5' 10% veins, 1/4" Py cube in volcanics.	39921	Trace Py	186.0	189.0	3.0'	Nil		
			39922	Trace Py	189.0	193.0	4.0'	Nil		
			39923	Trace Py	193.0	197.0	4.0'	Nil		
			39924	Trace Py	197.0	201.0	4.0'	Nil		
			39925	< 0.5% Py	201.0	202.5	1.5'	Nil		
			39926	<0.5% Py	202.5	205.5	3.0'	NIL		

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Hole No.: S135-1 Sheet 11 of 1

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		205.5' - 207.0' 10-15% veins, 1/4" Py cube in volcanics.	39927	< 0.5% Py	205.5	207.0	1.5'	Nil		
	207.0'	END OF HOLE								

CLAIM No 752139

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: S135-2 Sheet 1 of 6

Property name: SANGOLD
Hole No. : S135-2
Location : 0+61N 2+34E (EAST TRAVERSE GRID) Length: 207.0'
Elevation: 0' (REL. TO S135-1) Azimuth: 160 Dip: -60.0
Started : Aug. 17, 1989 Finished: Aug. 17, 1989

Acid dip tests

Footage	Dip	Footage	Dip
100'	-58.0		
207'	-56.0		

Remarks: BQ core

Logged by: J. Lill

Footage From	Footage To	Description	Sample No.	Sample % Sulphides	Sample From	Sample To	Sample Total	Assays (Au) ppb	Assays (Au) Oz/tn	Assays (Au) Re
0	20.0'	Casing								
20.0'	21.0'	FELSIC PEBBLES								
21.0'	73.0'	FELSIC VOLCANIC								
		Light grey, siliceous, foliated at 45-50 deg. to C. A. (locally flatter), local mottled appearance.								
		21.0' - 22.0' 50% quartz-carbonate vein, 2% disseminated Py.	39928		21.0	22.0	1.0'	Nil		
		22.0' - 24.2' Scattered (8) quartz-carbonate veins, 1/8-1/4", at 40 deg. to C. A. cutting foliation at 20 deg.								
		24.2' - 32.0' Local short rusty carbonate zones, water seams.								
		31.0' 1/4" purple quartz-carbonate vein parallel to foliation in rusty zone.								
		31.5' - 31.7' Rusty broken core.								
		36.0' - 36.1' 1.0" quartz-carbonate vein at 75 deg. to C. A. Bleb Py.								
		37.0' - 38.0' Foliation parallel to C. A.								

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: S135-2 Sheet 2 of 6

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		34.3' - 43.9' Local narrow quartz-carbonate veins at 60-80 deg. to C. A., minor Py in volcanic and quartz-carbonate veins. 1-2% Py in section.	39946		34.3	37.0	2.7'	30		
			39947		37.0	40.0	3.0'	30		
			39948		40.0	42.0	2.0'	20		
			39949		42.0	43.9	1.9'	20		
		45.3' Narrow 1/4' quartz-carbonate vein.								
		47.6' - 50.2' 40% quartz-carbonate veins at 30 deg. to C. A., parallel to foliation.	39929		47.6	49.0	1.4'	500		
		Upper contact 25 deg., lower contact 30 deg. to C. A.								
		47.6' - 48.3' Chlorite and tourmaline ribbons in quartz-carbonate vein.								
		48.6' - 48.8' Quartz-carbonate vein, 2% Py.								
		49.0' - 50.2' Quartz-carbonate vein is 50% of core. 10% blebs Py, minor fuchsite.	39930		49.0	50.2	1.2'	12690	0.362	
		50.2' - 50.8' 15% quartz-carbonate veins at 60-70 deg. to C. A. 2-3% Py.	39931		50.2	51.2	1.0'	600		
		50.8' - 67.5' Scattered barren white quartz-carbonate veins to 1.0' at 70-80 deg. to C. A. 5% of section contains 1-2% scattered blebs Py.								
		67.5' - 68.5' 60% quartz-carbonate veins, 2-3% blebs Py in vein, 1-2% disseminated Py in Felsic Volcanics.	39932		67.5	68.5	1.0'	540		
		68.5' - 73.0' Felsic Volcanic. Two 1.0' quartz-carbonate veins at 60 deg. to C. A.								

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: S135-2 Sheet 3 of 6

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
73.0'	78.7'	QUARTZ-CARBONATE VEIN ZONE								
		73.0' - 74.4' 85% quartz-carbonate vein with tourmaline and chlorite ribbons. 1-3% Py.	39933		73.0	75.0	2.0'	600		
		Contacts at 20 and 30 deg. to C. A.								
		74.4' - 75.1' 10% quartz-carbonate.								
		75.1' - 77.2' Quartz-carbonate vein, 5-10% chlorite streaks, 1% Py, trace galena.	39934		75.0	77.0	2.0'	1100	0.037	
		Contacts: Upper at 25 deg., lower at 65-70 deg. to C. A.								
		77.2' - 78.1' 20% quartz-carbonate veins.	39935		77.0	78.0	1.0'	250		
		78.1' - 78.7' Quartz-carbonate vein, minor chlorite and tourmaline, 2-3% Py, minor galena.	39936		78.0	79.0	1.0'	630		
78.7'	84.7'	FELSIC VOLCANICS								
		78.7' - 84.7' Folded Felsic Volcanics, 1% Py.	39937		79.0	81.0	2.0'	320		
			39938		81.0	83.0	2.0'	270		
		84.2' - 84.7' Locally rusty carbonatized water seams.	39939		83.0	84.7	1.7'	440		
84.7'	87.5'	FAULT								
		Moderate to strong oxidation.								
		84.7' - 85.2' 30% quartz-carbonate vein, 5% Py.	39940		84.7	86.6	1.9'	1440	0.043	

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: S135-2 Sheet 4 of 6

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		85.2' - 86.6' Broken, lost core.								
		86.6' - 87.5' 50% oxidized vuggy quartz-carbonate vein, 5-10% Py cubes.	39941		86.6	87.5	0.9'	11450	0.345	
87.5'	89.4'	QUARTZ-CARBONATE VEIN								
		Chlorite ribbons and 2-5% Py blebs.	39942		87.5	89.4	1.9'	4940	0.112	
		88.0' - 88.7' Greenish soft sericitic inclusion.								
		89.4' Contact at 20 deg. to C. A. parallel to foliation.								
89.4'	118.1'	FELSIC VOLCANICS								
		89.4' - 90.0' 1/2' quartz-carbonate vein parallel to C. A. and foliation, minor Py +/- 1% along margins	39950		89.4	90.4	1.0'	MISSING		
		89.4' - 104.0' Core is mottled, foliation at 20-30 deg. to C. A.								
		104.0' - 109.5' Local narrow quartz-carbonate veins, mainly parallel to C. A.								
		109.5' - 110.5' 40% quartz-carbonate vein parallel to C. A.	43119		109.5	110.5	1.0'	30		
		110.5' - 115.0' 5% scattered quartz-carbonate veins at 60 deg. to C. A.								
		115.0' - 118.1' 10% scattered narrow quartz-carbonate	43120		115.0	118.1	3.1'	Nil		

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: S135-2 Sheet 5 of 6

Footage From	Footage To	Description	Sample No.	Sample % Sulphides	Sample From	Sample To	Sample Total	Assays (Au) ppb	Assays (Au) Oz/tn	Assays (Au) Re
		veins subparallel to C. A. and parallel to foliation, 1-2% blebs Py.	39943		118.1	119.5	1.4'	630		
		117.8' 1.0" quartz-carbonate vein at 40 deg. to C. A.								
118.1'	121.9'	QUARTZ-CARBONATE VEIN ZONE								
		75% quartz-carbonate veins, 1-2% tourmaline, 5-10% chlorite 1-2% Py.								
		118.1' - 119.4' 1% Py, upper contact at 50 deg. to C. A.								
		119.4' - 119.8' Felsic Volcanic inclusion, 1/4" quartz-carbonate vein at 30 deg. to C. A. Foliation at 20-30 deg. to C. A.	39944		119.5	121.0	1.5'	2810	0.088	
		119.8' - 120.9' Quartz-carbonate vein, 1-2% Py, chlorite and tourmaline patches and ribbons. Upper contact 20 deg., lower contact 30 deg. to C. A.								
		120.9' - 121.2' Chloritic Volcanic inclusion.								
		121.2' - 121.9' 30% chlorite seams, 2% Py.	39945		121.0	122.0	1.0'	3360	0.096	
121.9'	195.0'	FELSIC VOLCANIC								
			43124		122.0	124.0	2.0'	90		
		125.0' Foliation at 40 deg. to C. A., local quartz eyes, local minute (in clusters)								

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: S135-2 Sheet 6 o

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au ppb	Au oz/tn
		White carbonate spots.							
		121.9' - 195.0' 5% scattered (to 1/2") quartz-carbonate veins 40-60 deg. to C. A. except at 146.5' to 151.0' eight 1/4" quartz-carbonate veins at 30 deg. to C. A. (15% of core).	43121		148.5	151.0	2.5'	Nil	
		189.0' - 189.7' 1.0' quartz-carbonate vein subparallel to C. A. with chlorite streaks parallel to vein. Trace Py.							
195.0'	198.6'	QUARTZ-CARBONATE VEIN ZONE							
		Parallel to C. A., locally contact of Volcanic and Quartz-Carbonate runs down core.							
		Quartz-Carbonate is 40% of core, 30% chlorite streaks, most parallel to vein, trace Py.	43122		195.0	197.0	2.0'	1090	0.026
			43123		197.0	198.6	1.6'	90	
198.6'	207.0'	FELSIC VOLCANIC							
		Mottled, weakly foliated at 60 deg. to C. A., 5% narrow irregular quartz-carbonate veins.							
	207.0'	END OF HOLE							

CLAIM No. 752139

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: S135-8 Sheet 1 of 5

Property name: SANGOLD
Hole No. : S135-8
Location : 0+65S 3+50E (EAST TRAVERSE GRID) Length: 277.0'
Elevation: +12.0' (REL TO S135-1) Azimuth: 008 Dip: -45.0
Started : Sept. 15, 1989 Finished: Sept. 15, 1989

Acid dip tests

Footage	Dip	Footage	Dip
100'	-45.0		
277'	-35.0		

Remarks: BQ core

Logged by: J.R. Lill

Footage From	Footage To	Description	Sample No.	Sample % Sulphides	Sample From	Sample To	Sample Total	Assays (Au) ppb	Assays (Au) Oz/tn	Assays (Au) Re
0	30.0'	Casing								
30.0'	56.0'	FELSIC VOLCANIC								
		Light grey, siliceous, foliated at 30-40 deg. to C. A.								
		30.0' - 56.0' 5% narrow 1/8-1.0" quartz-carbonate veins at 30 deg. to C. A.								
56.0'	157.5'	QUARTZ-CARBONATE VEIN in FELSIC VOLCANIC								
		56.0' - 57.6' 50% quartz-carbonate veins at 30-40 deg. to C. A. Trace Py.	17922		56.0	57.6	1.6'	100		
		57.6' - 59.5' 75% quartz-carbonate, 15% chlorite threads, possibly some tourmaline. Upper contact at 20 deg., lower contact at 40 deg. to C. A.	17923		57.6	59.5	1.9'	30		
		59.5' - 71.5' 5% quartz-carbonate veins.	17924		59.5	60.6	1.1'	10		
		71.5' - 73.8' 25% quartz-carbonate veins.	17925		71.5	73.8	2.3'	MISSING		
		71.5' - 72.0' Quartz-carbonate, subparallel to 30 deg. to C. A.								
		72.5' - 72.9', 73.4' - 73.8' Quartz-carbonate veins parallel to 30 deg. to C. A.								

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: S135-8 Sheet 2 of 5

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		73.8' - 82.0' Less than 5% quartz-carbonate veins.								
		76.5' - 77.0' Water seam, oxidized along fracture subparallel to C. A.								
		82.0' - 89.7' 15% narrow quartz-carbonate veins at 30-40 deg. to C. A.	17926		82.0	85.0	3.0'	Nil		
			17927		85.0	88.0	3.0'	Nil		
		86.5' Oxidized and chloritic for 1.0' either side of narrow vein.	17928		88.0	89.7	1.7'	30		
		89.7' - 112.0' 1-2% quartz-carbonate veins.								
		112.0' - 113.0' 20% quartz-carbonate, parallel to 20 deg. to C. A.	17929		112.0	113.0	1.0'	Nil		
		113.0' - 157.5' Less than 5% quartz-carbonate veins.								
		128.8' - 129.0' Quartz-carbonate vein at 10 deg. to C. A. Small short bright green lense of fuchsite on upper margin.								
		130.4' - 130.8' Fracture at 10 deg. to C. A.								
		135.8' Slightly oxidized seam.								
		138.5' - 142.0' Slightly oxidized.								
		147.1' - 147.6' Quartz-carbonate vein with contacts at 20 and 40 deg. to C. A. Much chlorite seaming, 20% disseminated Py in chloritic seams.	17930		146.0	147.0	1.0'	60		
			17931		147.0	148.0	1.0'	3670	0.110	
		147.6' - 150.0' Felsic Volcanic.	17932		148.0	150.0	2.0'	50		

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: S135-8 Sheet 3 of 5

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		150.0' - 157.5' 15% scattered quartz-carbonate veins to 1/2" at 40-45 deg. to C. A. 1-2% disseminated Py	17933		150.0	152.0	2.0'	50		
			17934		152.0	154.6	2.6'	30		
157.5'	162.0'	INTERMEDIATE DYKE								
		Chilled contacts at 50 and 40 deg. to C. A.								
		Dyke is medium grained with salt and pepper appearance (diorite?).								
162.0'	172.6'	FELSIC VOLCANIC								
		1-2% quartz-carbonate veins.								
		172.2' - 172.5' Vuggy quartz-carbonate.								
172.6'	177.6'	INTERMEDIATE DYKE								
		Contacts at 50 and 40 deg. to C. A.								
177.6'	237.5'	FELSIC VOLCANIC								
		A few cubes Py within 2.0" of lower contact.								
		177.6' - 202.0' 5% quartz-carbonate veins at 40-50 deg. to C. A.								
		189.5' - 190.5' Quartz-carbonate vein parallel to C. A.								

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: S137-8 Sheet 4 of 5

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		202.0' - 202.5' Quartz-carbonate vein with chlorite threads. Upper contact at 80 deg. , lower contact at 50 deg. to C. A.	17935		201.8	202.8	1.0'			
		202.5' - 231.0' 5% scattered narrow quartz-carbonate veins 220.0' Foliation at 50 dg. to C. A. 230.7' - 231.0' Breccia fragments elongated at 50 deg. to C. A.								
		231.0' - 233.8' Siliceous, foliated at 50 deg. to C. A. Numerous chlorite threads.								
		233.8' - 237.5' Fine grained, weakly foliated Felsic Volcanic(?).								
237.5'	239.5'	INTERMEDIATE DYKE Dark grey, fine grained. Contacts at 60 and 40 deg. to C. A. Weakly foliated at 35 deg. to C. A. 10% quartz-carbonate veins cutting dyke, minor disseminated Py at bleached upper contact for 1.0' and 6.0' from lower contact.								
239.5'	248.7'	FELSIC VOLCANIC Finely foliated at 50 deg. to C. A.								

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: S135-8 Sheet 5 of 5

Footage From	Footage To	Description	Sample No.	Sample % Sulphides	Sample From	Sample To	Sample Total	Assays (Au) ppb	Assays (Au) Oz/tn	Assays (Au) Re
248.7'	277.0'	ARGILLITE Dark grey to black, finely banded. 248.7' - 253.0' and 253.0' - 277.0' Weakly foliated at 50-55 deg. to C. A. Fine grained with fine dark bands, very thread-like. 272.0' - 272.8' Broken core. 1% scattered cubes Py. Softer than Felsic Volcanic.								
	277.0	END OF HOLE								

CLAIM No. 688519/752148

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: SG89-42 Sheet 1 of 5

Property name: SANGOLD
Hole No. : SG89-42
Location : 1+29.35 1+07W (WEST MINING GRID) Length: 557.0'
Elevation: 10003.5 Azimuth: 090 Dip: -68.0
Started : Aug. 3, 1989 Finished: Aug. 4, 1989

Acid dip tests			
Footage	Dip	Footage	Dip
100'	-68.0	550'	-63.0
250'	-67.0		
400'	-64.0		

Remarks: BQ core

Logged by: J.R. Lill

Footage From	Footage To	Description	Sample No.	Sample % Sulphides	Sample From	Sample To	Sample Total	Assays (Au) ppb	Assays (Au) Oz/tn	Assays (Au) Re
0	32.0'	Casing								
32.0'	438.0'	MAFIC VOLCANIC								
		Dark grey, fine grained, local leucoxene speckling, massive to foliated at 35 deg. to C. A.								
		32.0' - 200.0' 10% patches and narrow quartz-carbonate veins, parallel to subparallel to C. A.								
		49.1' - 50.5' 1/4" quartz-carbonate vein, parallel to C. A. 5% disseminated Py in vein.	28378		49.1	51.0	1.9'	Nil		
		65.0' - 67.0' 2-3% disseminated Py in narrow quartz-carbonate veins at 10 deg. to C. A. Py less than 1% of core.	28379		65.0	67.0	2.0'	10		
		98.0' - 100.0' Minor disseminated Py in short, narrow quartz-carbonate veins (15% of core), parallel to C. A. 1% Py in core.	28380		98.0	100.0	2.0'	Nil		
		96.5' - 96.7' Broken core.								
		75.0' - 125.0' Local quartz-carbonate veins and patches with disseminated magnetite.								
		135.3' - 135.5' Quartz-carbonate vein at 20 deg. to C. A. with rusty seams (oxidized Py).								
		147.6' - 148.7' Narrow quartz-carbonate vein carrying	28381		147.6	148.7	1.1'	Nil		

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		disseminated Py, parallel to C. A.								
		158.5' - 159.0', 160.0' - 163.0', 171.0' - 172.0' Carbonatized fractures, parallel to C. A.								
		150.0' - 438.0' Locally weak to moderately magnetic. Core is more massive, slightly darker grey								
		200.0' Slight decrease in quartz-carbonate veining to 5%.								
		200.0' - 250.0' Scattered quartz-carbonate threads at 60 deg. to C. A.								
		268.0' - 269.0' 1/8" quartz-carbonate vein at 20 deg. to C. A.								
		265.0' Weak foliation at 35 deg. to C. A.								
		360.0' Foliation at 45 deg. to C. A. Core becomes more foliated.	28382		436.0	438.0	2.0'	70		
438.0'	453.5'	MINERALIZED ZONE in MAFIC VOLCANIC								
		Quartz-carbonate veins weakly mineralized with Py.								
		438.0' - 439.2' 15% quartz-carbonate veins, 5% streaky Py, all oriented at 45 deg. to C. A.	28383		438.0	439.2	1.2'	Nil		
		439.2' 25% cubic Py in 1/2" quartz.	28384		439.2	442.2	3.0'	520		
		439.2' - 450.0' 10-15% narrow quartz-carbonate veins to 1/2", some with pink cast.	28385		442.2	445.2	3.0'	120		
			28386		445.2	448.5	3.3'	Nil		
			28387		448.5	449.9	1.4'	40		

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: SG89-42 Sheet 3 of 5

Footage From	Footage To	Description	Sample No.	Sample % Sulphides	Sample From	Sample To	Sample Total	Assays (Au) ppb	Assays (Au) Oz/tn	Assays (Au) Re
		2-3% Py in blebs and fine streaks, most oriented at 35 deg. to C. A., parallel to foliation.	28388		449.9	450.9	1.0'	1850	0.042	
		450.0' - 450.5' 75% pinkish quartz, 15% Py in streaks and disseminations at 30 deg. to C. A.								
		450.5' - 457.0' 1-2% fine Py, gradually decreasing.	28389		450.9	453.9	3.0'	40		
			28390		453.9	457.0	3.1'	130		
453.5'	486.5'	MAFIC VOLCANIC	43515		457.0	460.0	3.0'	50		
		Py mineralization has decreased with no contact.	43516		460.0	463.2	3.2'	40		
		Local quartz-carbonate filled amygdules, oriented parallel to foliation at 40 deg. to C. A.								
		463.2' - 465.0' 10% disseminated cubic Py in Mafic Volcanic and replacing quartz-carbonate in amygdules.	28391		463.2	465.0	1.8'	770		
			28392		484.5	486.5	2.0'	60		
486.5'	503.8'	MAFIC TUFF								
		486.5' - 488.0' 50% purple quartz veins at 30 deg. to C. A., 10% fine disseminated Py in quartz and along margins.	28393		486.5	488.0	1.5'	1070	0.024	
		488.0' - 490.3' Mafic Tuff. Siliceous, massive, fine grained.	28394		488.0	490.3	2.3'	20		
		490.3' - 492.5' Streaky ptygmatic quartz, narrow, parallel to C. A.	28395		490.3	492.5	2.2'	Nil		

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: SG89-42 Sheet 4 of 5

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		492.5′ - 494.5′ Massive, siliceous Mafic Tuff.	28396		492.5	494.5	2.0′	Nil		
		494.5′ - 496.5′ Volcanic, quartz filled amygdules oriented parallel to C. A.	28397		494.5	496.5	2.0′	30		
		496.5′ - 497.2′ 50% purple quartz.	28398		496.5	499.5	3.0′	20		
		497.2′ - 503.8′ Massive, siliceous, purple tuff. 10% local narrow quartz veins, trace Py.	28399		499.5	501.8	2.3′	90		
			28400		501.8	503.8	2.0′	100/120		
503.8′	557.0′	MAFIC VOLCANIC (Amygdaliodal lava)								
		503.8′ - 527.0′ Abundant quartz filled, some carbonate rimmed, amygdules oriented at 40 deg. to C. A. Local quartz-carbonate veinlets with magnetite.								
		527.0′ - 538.0′ Amygdules are much less frequent.								
		538.0′ - 540.0′ Felsic Intrusive. Lighter grey than above, slightly more siliceous, no development of phenocrysts, but similar to Quartz Feldspar Porphyry noticed elsewhere.								
		Contacts at 60 deg. to C. A.								
		541.6′ - 542.7′, 543.5′ - 544.1′ Felsic Intrusive as above								
		544.1′ - 557.0′ Mafic Amygdaloidal Volcanic. Sections amygdules oriented at 30-40 deg. to C. A.								

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: SGB9-42 Sheet 5 of 5

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		549.6' - 550.1' Quartz-carbonate vein, parallel to C. A.								
	557.0'	END OF HOLE								

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CLAIM NO 752148

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: SG89-44 Sheet 1 of 3

Property name: SANGOLD
Hole No. : SG89-44
Location : 1+72S5S D+98N2W (WEST MINING GRID) Length: 267.0
Elevation: 10003.1 Azimuth: 090 Dip: -45.0
Started : Aug. 10, 1989 Finished: Aug. 10, 1989

Acid dip tests

Footage	Dip	Footage	Dip
100′	-45.0		
250′	-43.0		

Remarks: BQ core

Logged by: J.R. Lill

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
0	30.0′	Casing								
30.0′	267.0′	MAFIC VOLCANIC								
		Dark grey, fine grained, massive to foliated at 60 deg. to C. A. Moderately carbonatized and chloritized.								
		30.0′ - 60.0′ 10-15% quartz-carbonate patches and veinlets. Local veinlets and patches contain disseminated magnetite. Trace Py.								
		40.6′ - 41.3′ Vuggy carbonate seams at low angles (20-40 deg.) to C. A.								
		49.5′ - 54.3′ 25% quartz-carbonate patches and veins, 3% fine streaky Py in volcanic rock and near margins of quartz-carbonate.	28444		49.5	52.5	3.0′	30/20		
			28445		52.5	54.3	1.8′	Nil		
		59.7′ - 83.0′ Local vuggy sections.								
		60.0′ - 94.0′ 20% quartz-carbonate patches, up to 2.0" in diameter. Trace Py.	28446		79.0	82.0	3.0′	Nil		
		94.0′ - 99.0′ Three sections with 1.0' quartz-carbonate vein parallel to C. A. Probably it is the same vein. Trace Py.	28447		96.9	99.0	2.1′	80		
		99.0′ - 165.0′ 5-10% quartz-carbonate veins, ranging from parallel to 90 deg. to C. A. Trace to 1% Py in blebs and stringers, locally more Py								

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: SGS9-44 Sheet 2 of 3

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		115.2′ - 117.0′ 1/4" quartz-carbonate vein parallel to C. A. Fine disseminated Py predominantly along margin in vein and volcanic rock.	28448		115.2	117.0	1.8′	30		
		131.5′ - 131.8′ 10% fine disseminated Py, in 1/4" quartz-carbonate vein which is 45 deg. to C. A. and in volcanic rock.	28449		131.0	132.0	1.0′	60		
		Some quartz-carbonate veins have a purple cast. These may be at any angle to C. A.								
		130.0′ - 150.0′ Local weak to moderately magnetic sections. Massive core.								
		139.0′ 1/4"-1/2" quartz-carbonate vein at 40 deg. to C. A. with 15% disseminated Py and minor Cpy in the vein.	28450		138.7	139.7	1.0′	60/60		
		144.8′ - 145.2′ 2.5" quartz-carbonate vein with purple cast, at 35 deg. to C. A. 5% blebs Py and Cpy.	28451		144.8	146.0	1.2′	20		
		146.0′ Narrow quartz-carbonate veinlet with Py.								
		152.2′ - 154.8′ 20% quartz-carbonate veins at 20-30 deg. to C. A. 1-2% disseminated Py.	28452		152.2	154.2	2.0′	Nil		
		160.0′ - 162.0′ Irregular quartz-carbonate vein, up to 1/2" width, at low angle to C. A. with 2-3% Py and magnetite.	28453		160.0	162.0	2.0′	Nil		
		165.0′ - 267.0′ 5% quartz-carbonate veinlets, most at 50-80 deg. to C. A.								
		179.4′ - 181.0′ Core is almost black, moderately magnetic,								

Marshall Minerals Corp. - DIAMOND DRILL RECORD

Hole No.: SG89-44 Sheet 3 of 3

Footage From	To	Description	Sample No.	% Sulphides	From	To	Total	Assays (Au) ppb	Oz/tn	Re
		with 2-3% Py.								
		200.0' - 202.3' Carbonatized fracture, subparallel to C. A.								
		202.3' - 203.9' 50% quartz-carbonate, rust at 203.5', trace Py.	28454		202.0	203.9	1.9'	Nil		
		210.0' Weak foliation at 55 deg. to C. A.	43526		217.0	219.0	2.0'	100		
		221.3' - 222.6' 75% quartz-carbonate, parallel to C. A. Purple cast. 2% Py.	43527		219.0	221.3	2.3'	500/640		
			28455		221.3	223.8	2.5'	1480	0.044	
		223.6' - 223.8' Two purple quartz-carbonate veins at 30 deg. to C. A. 5% Py.	43528		223.8	225.8	2.0'	20		
			43529		225.8	227.0	1.2	20		
		222.0' - 240.0' Core is strongly foliated with numerous small carbonate filled amygdules elongated parallel to foliation at 55 deg. to C. A.								
		244.4' - 245.9' 50% quartz-carbonate veinlets at 70 deg. to C. A. Trace Py.	28456		244.4	246.1	1.7'	80		
		245.9' - 246.5' 3% Py in volcanic.								
		246.5' - 248.3' As above, trace Py except at 246.5', short carbonate vein with 50% Py.	28457		246.1	248.2	2.1'	30		
		247.0', 252.2' - 252.4', 253.6' - 254.1' Strongly carbonatized, rusty fractures.								
267.0'		END OF HOLE								

REPORT

ON

THE JULY TO SEPTEMBER, 1989 DIAMOND DRILL AND TRENCH MAPPING PROGRAM

ON

THE SANGOLD PROPERTY

OF

MARSHALL MINERALS CORP.

(INCLUDES A COMPILATION OF ALL 1988-1989 DATA)

VOLUME I

NTS 42B/SE
PORCUPINE MINING DIVISION
KEITH TOWNSHIP
ONTARIO

TORONTO, ONTARIO
FEBRUARY 28, 1990

STEPHEN B. MEDD
CONSULTING GEOLOGIST

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1.0 Introduction

During the period of July 21 to September 15, 1989 diamond drilling and geological trench mapping were undertaken on the Sangold property located withing the Foleyet area of norther Ontario. Thirty-six holes, totalling 17,257 feet, were drilled; 28 holes (14,837 feet) in and around the Patricia gold zone and 8 holes (2420 feet) in the S135 gold zone. Drilling of the Patricia zone was aimed at extending the quartz vein hosted gold mineralization, encountered by previous drilling, along strike and down dip below a vertical depth of 250 feet. The S135 zone was drilled in response to several high grade gold chip and grab smaples taken from quartz veins at surface. Geologists, John Lill of Toronto and Frank Towes of Sudbury, were responsible for logging the drill core and on-site supervision

Several other interesting showings on the property were blasted and subsequently mapped and sampled to indentify additional zones of anomalous gold mineralization. This program was carried out by geologist Frank Toews.

Senior Vice President of Explorations for Marshall Minerals, Joe Hinzer, undertook overall project supervision. The author was subsequently commissioned to organize the data, interpret results and make conclusions and recommendations based upon the outcome of this interpretation.

2.0 Location and access

The Sangold property is located in the northwestern corner of Keith Township, approximately 60 miles west of Timmins, Ontario and 10 miles east southeast of Foleyet (Figure 1). The property completely surrounds the former Joburke Gold Mine now held by Noranda.

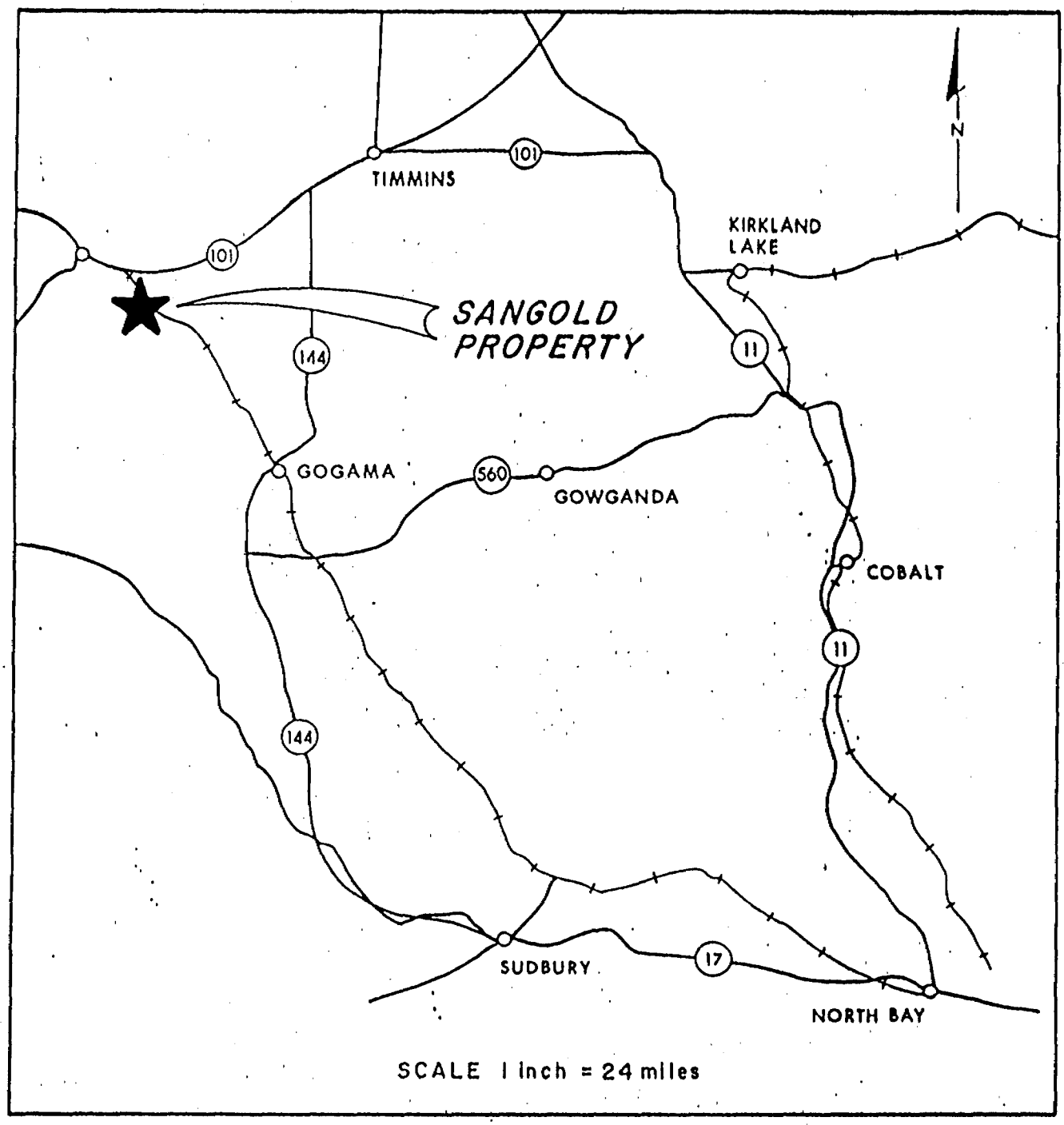
Gravel access roads leading south from highway 101 traverse the eastern portion of the property. These roads include highway 616 (11 miles east of Foleyet), the Joburke Mine road and the Horwood Lake road.

The campsite and centre of operations are located approximately 4 miles south of highway 101 via these roads. Similar access is provided to the western property boundary by the Keith lumber road. Also, the Canadian National Railway line crosses the northeastern portion of the property.

The property is located within a favorable distance from an experienced labour force and well established mining infrastructure at Timmins. Rail and road access are in place. Water is readily available. Hydro-electric power lines are not presently available to the property, however, on-site power generation may be more cost effective for small scale mining operation.

3.0 Property Description

The Sangold property consists of 251 contiguous unpatented mining claims covering approximately 10,000 acres (Figure 2). A list of these claims and their recording dates, and ownership are presented in Appendix 1. The author has not conducted an independent search on the status of these claims. The address for the exploration office of Marshall Minerals Corp. is P.O. Box 356, Niagara Falls, Ontario, L2E 6T8. Phone (416) 356-9112.



MARSHALL MINERALS CORP
AND GOLD VESSEL INC.

SANGOLD PROPERTY, KEITH TWP.

PROPERTY LOCATION MAP

S. Mell

Figure 1

MUSKEGO TWP.

Keith Lake

GROUNDHOG RIVER

101

616

PALOMAR LAKE

LEGEND

Sangold Property Claims

Joburke Property Boundary

Sanford Claims available to Marshall Minerals

GAIL RESOURCES INC.
MARSHALL MINERALS CORP.
GOLD VESSEL INC.

SANGOLD PROPERTY

KEITH TOWNSHIP, ONTARIO

MINROC MANAGEMENT LIMITED

SCALE 1" = 1/2 mile

S. Mell

Figure 2

4.0 Previous Work

Since 1947, several companies have explored for a variety of minerals including gold, silver, copper, zinc, nickel, asbestos and iron on or adjacent to the Sangold property. The exploration history of the Sangold property is provided in detail by Wahl (1988)(Refer to Appendix 7 in Volume II).

To summarize, in 1947 Joburke Gold Mines Limited completed a vertical, two compartment shaft to 425 feet with stations at the 125, 250 and 375 foot levels. The Joburke Gold Mine, as it is known, is located on the Joburke property which presently comprises 20 patented claims enclosed by the Sangold property. The Joburke property was subsequently worked by McIntyre Porcupine Mines Limited (1945-50), Denison Mines Limited (1964), and finally by Noranda (1973-76 and 1979-81). Total production from the mine by Noranda was 533,084 tons at a grade of 0.09 oz Au/ton. Since 1981, the mine has remained idle under Noranda's ownership.

Since 1947, various parts of the Sangold property itself, have been prospected, trenched and drilled by the following companies: Hoodoo Lake Mines (Dunvegan Mines) (1947), Palomar Gold Mines (1947), Alladin-Groundhog Mines Limited (1947), Nib-Yellowknife Mines (1947), Wejack Gold Mines (1947), Mining Oriented Investments (1969), Mining Corp. (1978-1980) and Marshall Minerals Corp. (1988-present).

Under the current ownership of Marshall Minerals Corp., a majority of work has concentrated on the area which hosts the Hoodoo East and West gold showings first discovered in 1947 by Hoodoo Lake Mines. These showings probably represent the southeastern extension of the auriferous quartz - carbonate vein system encountered at the Joburke Mine.

5.0 Regional Geological Setting

"The Sangold claim group lies within the northern part of the Precambrian Swayze-Deloro metavolcanic-metasedementary belt (Figure 3). This major zone is truncated to the west by the Kapuskasing structural zone, beyond which it continues as the Wawa greenstone belt. To the east the Swayze belt is split into northeasterly and southeasterly branches by the Kenogamissi batholith, continuing to the east as the Abitibi belt. The belt comprises a marginal zone of felsic to intermediate metavolcanics overlain by iron formation, graphitic sediments with intercalated ultramafic komatiitic and tholeitic flows and pyroclastics. These are succeeded by basaltic komatiitic and high-magnesium tholeitic flows which grade into iron-rich tholeites. The upper part of the sequence comprises calc-alkaline dacites to rhyolites, pyroclastics and volcanoclastics, agglomerates and flows interbedded with andesitic flows. The volcanics are succeeded by epiclastic sediments comprising conglomerate, greywacke with minor arkose, argillite and iron formations (Ireland, 1987).

Gold mineralization in the Swayze occurs primarily in quartz lodes, hosted by a variety of rock types but usually associated with shearing, fracturing, silicification and carbonatization, typical of other major greenstone belt deposits. Host rocks of known occurences include diorite, carbonate, silicified felsic porphyry, sheared metasediments, carbonatized basic volcanics, and granite. Iron formations of both the massive sulphide and oxide types and stratiform massive pyrite in volcanoclastic sequences also host gold in the Swayze. Representatives of all these rock types occur on the Sangold property in a variety of structural settings (D. Patrick, 1987)." (Wahl, 1988)

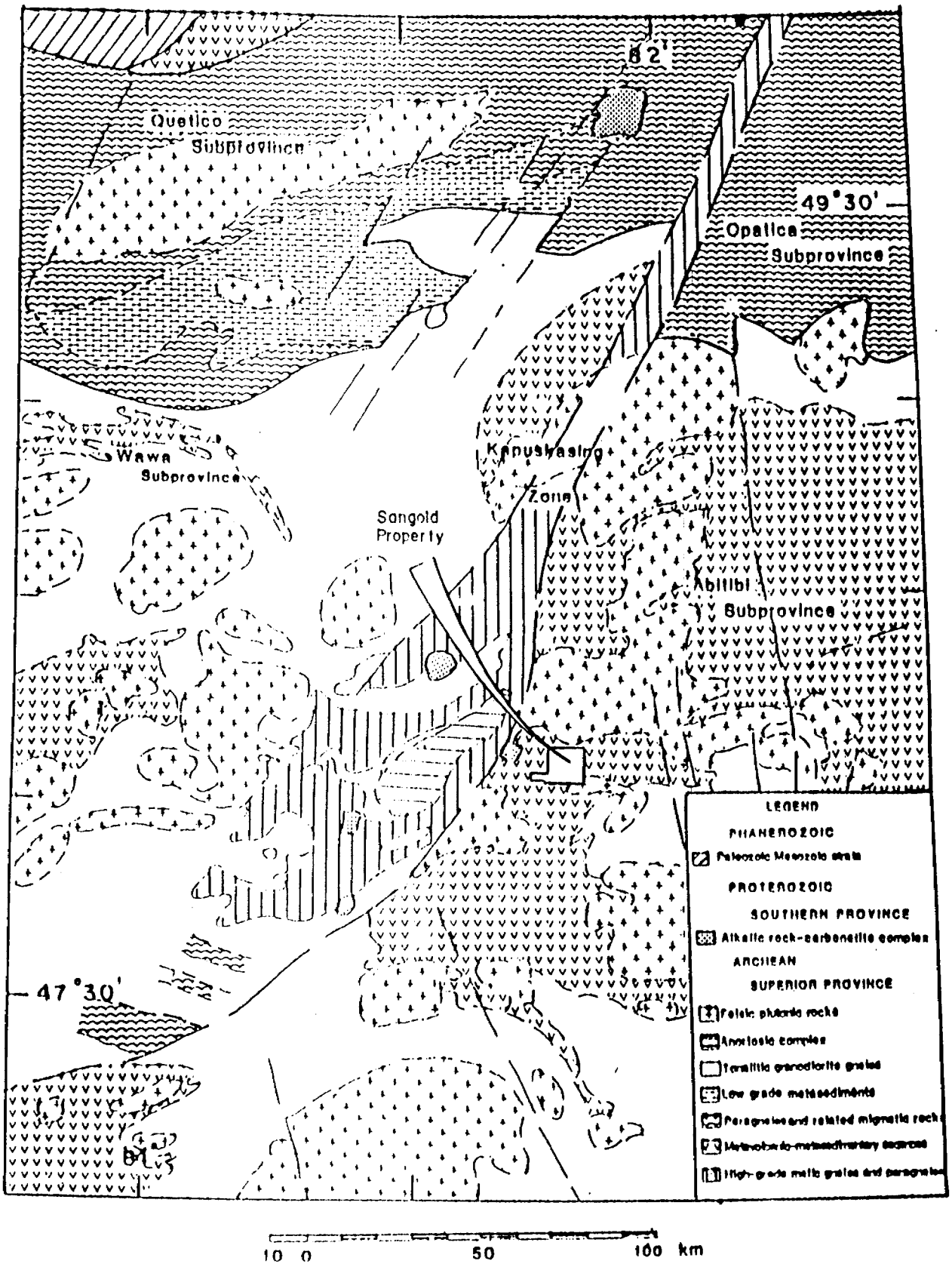
6.0 Property Geology

"ODM 1950 Geology Map of Keith and Muskego Townships is the only comprehensive property geology map available to date.

The most prolific rocks are mafic to ultramafic volcanics, primarily flows. The subparallel bands of oxide facies iron formation and a narrow sulphide facies band cross the south-central portion of the property.

Felsic volcanics are present as two eastwest trending bands up to 3000 feet wide traversing the southern third of the property. And a 2000 foot wide band of epiclastic sediments is centred on the northern property boundary. A granite batholith occupies the southeast boundary area and several gabbroic intrusives are located in the northeastern portion.

These geological units are described in greater detail in the report by Wahl (1988)." (Hinzer, 1989)



Regional geological setting of the Sangold property within the Abitibi subprovince (after Percival and Card, in press).

S. Hall

Figure 3

MUSKEGO TOWNSHIP

101

616

JOBURKE SHAFT (AU)

KNIB YELLOWKNIFE AU SHOWING

TL 505

LEGEND

1 – MAFIC VOLCANICS
2 – FELSIC VOLCANICS
3 – SEDIMENTS
4 – DIORITE, GABBRO INTRUSIVES
5 – GRANITE, GRANODIORITE
IF – IRON FORMATION
• AU SHOWING
[1] AREA MAPPED IN DETAIL (SHOWING MAP NO.)

MARSHALL MINERALS CORP

SANGOLD PROPERTY
PROPERTY GEOLOGY

S. Medd

DRAWN BY: S. MEDD
PORCUPINE M.D., KEITH TWP.
NTS: 42B/SE
DATE: 10 FEB. 90
SCALE: 1" = 1/2 MILE

FIG. 4

7.0 Drilling and Assaying Procedures

During the periods of July 21 to August 31 and September 6 to September 15, 1989, Longyear Canada Inc. of North Bay was commissioned to drill 28 holes for 14,837 feet of BQ core in and around the Patricia gold zone and 8 holes for 2420 feet in the S135 gold zone. Drill hole parameters and coordinates are provided in Tables 1A and 1B. Drill hole collar locations and elevations were surveyed by T.E. Rody Limited of Timmins.

A total of 1345 drill core samples were taken from the area of the Patricia gold zone and analyzed for gold by atomic absorption by Swastika Laboratories. Significant assays (> 0.025 oz Au/ton) from the Patricia gold zone totalled 133. Those samples that initially yielded 1000 ppb (Au 0.029 oz Au/ton) were reanalyzed by a fire assay method. A total of 291 drill core samples were taken from the S135 gold zone of which 25 were significant (>0.025 oz Au/ton). The S135 samples were assayed in the same fashion as the Patricia zone samples. Drill core sample numbers for the Patricia and S135 zones are presented in Tables 2A and 2B, respectively.

All core is stored on the west Patricia grid east of MacKeith Lake.

Several interesting showings on the Sangold property were trenched, mapped and sampled to identify additional zones of anomalous gold mineralization. Blasting operations were carried out by contractor Gerry Sanford. Sample numbers from the trenching program are presented in Table 3.

For completeness, all 1988 and 1989 diamond drill and trench sampling data are included in this report.

TABLE 1A
Summary of Diamond Drill Hole Parameters
from the July to September, 1989 program
(Patricia zone - west mining grid)
SANGOLD PROPERTY

Hole No.	Collar Location	Dip	Azimuth	Length(ft)
SG-89-35	1+71.3N, 2+36.8W	-67.0	090.0	497.0
36	1+18.7N, 2+41.5W	-67.0	090.0	527.0
37	1+21.5N, 1+82.1W	-66.0	090.0	427.0
38A	0+60.7N, 3+71.2W	-66.0	090.0	837.0
38B	0+60.7N, 3+71.2W	-72.0	090.0	917.0
39	0+20.8N, 2+65.7W	-57.5	090.0	777.0
40	0+27.3N, 2+12.9W	-55.5	090.0	485.0
41	0+74.7S, 1+97.4W	-56.5	090.0	577.0
42	1+22.3S, 1+07.7W	-68.0	090.0	557.0
43	0+24.6S, 3+01.1W	-68.0	090.0	857.0
44	1+72.5S, 0+96.2W	-45.0	090.0	267.0
45	0+50.0N, 2+66.5W	-57.5	090.0	627.0
46	4+32.7N, 1+04.1W	-44.5	270.0	537.0
47	10+24.3N, 0+64.4W	-46.0	225.0	507.0
48	8+90.4N, 2+11.0W	-45.0	225.0	447.0
49	9+77.5N, 0+19.6W	-45.0	225.0	597.0
50	0+74.7S, 1+97.4W	-49.0	088.0	457.0
51	0+78.2S, 2+49.0W	-65.0	088.0	707.0
52	0+24.6S, 3+01.1W	-62.0	083.0	657.0
53	0+61.7N, 3+01.2W	-66.0	083.0	697.0
54	1+71.7N, 2+34.8W	-63.0	085.0	307.0
55	2+15.3N, 2+04.1W	-65.0	088.0	307.0
56	2+64.8N, 2+01.1W	-60.0	088.0	247.0
57	0+27.3S, 2+12.9W	-56.0	085.0	467.0
58	0+74.8N, 2+00.9W	-70.0	084.0	607.0
59	0+20.3N, 2+69.6W	-56.0	084.0	70.0
60	0+20.1N, 2+96.0W	-60.0	084.0	477.0
61	3+15.5N, 2+58.4W	-55.0	084.0	397.0
			Total	14,837.0

TABLE 1B
Summary of Diamond Drill Hole Parameters
From the July to September, 1989 program
(S135 zone - east traverse grid)
SANGOLD PROPERTY

Hole No.	Collar Location	Dip	Azimuth	Length (ft)
S135-01	0+61N, 2+34E	-44.5	160.0	207.0
S135-02	0+61N, 2+34E	-61.0	160.0	207.0
S135-03	0+68N, 2+54.5E	-46.5	160.0	207.0
S135-04	0+68N, 2+54.5E	-61.0	160.0	207.0
S135-05	0+32S, 2+00E	-46.0	008.0	497.0
S135-06	0+65S, 3+00E	-47.0	008.0	397.0
S135-07	0+65S, 3+00E	-60.0	008.0	421.0
S135-08	0+65S, 3+50E	-45.0	008.0	277.0
			Total	2420.0

TABLE 2A
Sample numbers from the July to September, 1989 drill program
SANGOLD PROPERTY
(Patricia zone - west grid)

Hole No.	Sample Number	Hole No.	Sample Number
SG-89-35	28051-28095 (45)	SG-89-50	43206-43225 (20)
	43051-43503 (03)		43538-43542 (05)
SG-89-36	28096-28132 (37)		43876-43900 (25)
SG-89-37	28133-28167 (35)	SG-89-51	43482-43491 (10)
SG-89-38A	28168-28214 (47)	SG-89-52	43268-43281 (14)
	43504-43506 (03)		43543-43546 (04)
SG-89-38B	28215-28275 (61)		43901-43903 (03)
	43507-43508 (02)		44886-44900 (15)
SG-89-39	28276-28339 (64)	SG-89-53	43282-43304 (23)
	43509-43512 (04)		43367-43374 (08)
SG-89-40	29340-28359 (20)		43398-43419 (22)
	43513-43514 (02)		43547-43558 (12)
SG-89-41	28360-28377 (18)	SG-89-54	43343-43362 (20)
SG-89-42	28378-28400 (23)		43363(missing)(1)
	43515-43516 (02)		43364-43366 (03)
SG-89-43	28401-28443 (43)		43559-43560 (02)
	30932-30937 (06)	SG-89-55	43375-43379 (05)
	43517-43525 (09)		43420-43442 (23)
	43978-44000 (23)		43561-43564 (04)
SG-89-44	28444-28457 (14)	SG-89-56	43380-43397 (18)
	43526-43529 (04)		43443-43449 (07)
SG-89-45	28458-28464 (07)		43565-43571 (07)
	28465(missing)(1)	SG-89-57	43450-43481 (32)
	28466-28500 (34)		43572-43585 (14)
	28552-28632 (81)	SG-89-58	43586-43596 (11)
SG-89-46	28633-28679 (47)		43904-43965 (62)
	30828-30835 (08)		43966(missing)(1)
SG-89-47	28680-28700 (21)		43967-43977 (11)
	30837-30857 (21)	SG-89-59	no samples taken
	43001-43054 (54)	SG-89-60	6380-6392 (13)
SG-89-48	43055-43118 (64)		6393(missing)(1)
	43530-43534 (05)		6394-6400 (07)
SG-89-49	43801-43875 (75)		30938-30940 (03)
	43535-43537 (03)		43597-43600 (04)
		SG-89-61	17936-17940 (05)
			43492-43500 (09)
			44851-44885 (35)

missing samples: 4 Total: 1,345

TABLE 2B
Sample numbers from the July to September, 1989 drill program
SANGOLD PROPERTY
(S135 zone - east grid)

Hole No.	Sample No.
S135-01	30858-30870 (13)
	30871(missing)(1)
	30872-30900 (29)
	39901-39927 (27)
S135-02	39928-39949 (22)
	39950(missing)(1)
	43119-43124 (06)
S135-03	39951-39963 (13)
	43125-43132 (08)
S135-04	39964-39971 (08)
	43133-43135 (03)
	43136(missing)(1)
	43137-43144 (08)
S135-05	39979-39984 (06)
	43226-43267 (42)
	43305-43327 (23)
S135-06	39972-39978 (07)
	39985-40000 (16)
	43145-43150 (06)
	43201-43205 (05)
S135-07	6178-6191 (14)
	6192(missing)(1)
	6193-6199 (07)
	30941(missing)(1)
	30942-30950 (09)
S135-08	17922-17924 (03)
	17925(missing)(1)
	17926-17934 (09)
	17935(missing)(1)

missing samples: 7 Total: 291

TABLE 3
Sample Numbers from the July to September, 1989
Trench Mapping Program
SANGOLD PROPERTY

Showing	Diagram No.	Sample No.
Knib-Yellowknife	5	AJ1589,BJ1589, EJ1589,FJ1589, GJ1589
Sanford	6	6203-6227
S135 (West)	8	17901-17909 28745-28750
S135 (East)	9	28701-28744 28751 28755-28789
S135 Area Trench at L2E,2+30N	9A	6228
S135 Area Various Trenches	9B	17910-17915
South of Noranda's Joburke Property	11	17916-17921

8.0 Results and Interpretation

8.1 Diamond Drilling

Patricia Zone

Twelve east-west oriented DDH cross-sections were constructed at 1+75S, 1+25S, 0+75S, 0+25S, 0+25N, 0+75N, 1+25N, 1+75N, 2+15N, 2+65N, 3+15N and 4+25N (Refer to Volume III). A north-northwest trending shear system, hosted in intermediate to mafic volcanics and quartz-feldspar porphyries, is seen to traverse all twelve sections. Within the sheared host rock is a main quartz-carbonate-pyrite mineralized package striking parallel to the shearing and generally confined to the region between lines 0+00 and 1+00W.

This zone pinches and swells at depth and along strike where it shrinks to less than 10 feet wide at section 1+25S and swells to 130 to 150 feet between sections 0+25N and 1+25N. Although it appears to pinch out to the south, the zone is still open to the north where it averages 50 feet in width at section 4+25N. Sections 0+25N, 0+75N and 1+25N suggest that a "roll" or fold crest exists where the zone swells. The lower part of the zone appears to have been warped into a southerly dip of about 60^0 causing it to parallel a number of drill holes. This is evident from the very shallow core angles intersected in the lower parts of holes SG-88-20, 89-20, 89-30B, 89-45 and 89-52.

Significant gold values (>0.025 oz/ton) have been intersected in the main zone, on all the sections, over a strike length of 600 feet. Hole SG-89-43 (section 0+75S) indicates that significant gold mineralization exists in the main zone to a depth of at least 700 feet.

The mineralized zone consists of a package of relatively concentrated quartz-carbonate veining and pyrite within pervasively sheared, carbonatized, chloritized, intermediate to mafic volcanics. Quartz-feldspar porphyries intrude the volcanics and have also been affected by the shearing. Sericite alteration increases as the intensity of shearing increases. Significant gold values occur usually over narrow widths (1 to 2 feet) and are commonly associated with lenses of 3 to 10% pyrite that may be genetically linked to the development of quartz-carbonate veining in the shear zone. Chalcopyrite and galena occur infrequently in trace amounts in or near some anomalous gold intersections.

Some of the best gold assays from previous drilling include 2.341 oz/ton over 3.0 feet (SG-88-11: section 0+75N) and 7.787 oz/ton over 1.0 feet (SG-88-18: section 0+25S). The most recent drill program has yielded similarly encouraging assays of 0.528 oz/ton over 4.0 feet (SG-89-50: section 0+75S) and 1.972 oz/ton over 1.0 feet (SG-89-52: section 0+25N).

S135 Zone

Five north-south oriented DDH cross-sections were constructed at 2+00E, 2+34E, 2+54E, 3+00E and 3+50E (Refer to Volume III). A steeply dipping, east-northeast striking shear system, hosted in felsic volcanics, is seen to traverse the five sections. Graphitic argillite and intermediate dykes and sills occur as minor units within the volcanics. Quartz-carbonate veining, pyrite mineralization and gold tenure are not as well developed as in the Patricia zone, however, only eight holes have tested this zone to date.

Two mineralized components between 10 and 15 feet wide comprise the S135 zone: zone #1 and zone #2. The two zones consist of packages of relatively concentrated quartz-carbonate veining and pyrite mineralization that parallel the shearing. Veining usually occurs in narrow intervals (1 to 5 feet) of more than 25% quartz-carbonate material with up to 10% disseminated pyrite in patches and lenses. Significant gold values occur usually over narrow widths (1 to 2 feet) and are commonly associated with lenses of 3 to 10% pyrite.

The best gold value intersected in the S135 zone is 0.362 oz/ton over 1.2 feet (S135-2: section 2+34E). It is associated with quartz-carbonate veining and 10% pyrite in foliated, sericitic felsic volcanics. Trace amounts of tourmaline and fuchsite are commonly associated with the gold intersections. Significant gold values (>0.025 oz/ton) were intersected over a strike length of 150 feet and to a depth of 170 feet.

8.2 Trench Mapping and Sampling

Trench mapping and sampling were carried out on four main areas on the Sangold property during the July to September, 1989 program: Knib-Yellowknife showing, Sanford showing, S135 showing and surrounding area, and south of Noranda's Joburke property.

Knib-Yellowknife Showing (Drawing No. 5)

This showing consists of a system of east-northeast trending quartz veins that crosscut mafic volcanics intruded by numerous felsic dykes and sills. Some of the quartz veins are over 30 feet wide and contain only trace amounts of pyrite and fuchsite. Grab samples were taken for gold analyses but will not be discussed in this report.

Sanford Showing (Drawing No. 6)

This showing consists of a system of approximately six subparallel, north-northwest trending quartz-carbonate veins hosted in felsic volcanics. The showing area is located approximately 300 feet north of the S135 showing.

Multiple periods of folding have severly distorted and boudinaged the veins. The dominant foliation is oriented east-west with a steep dip and appears to be post-veining. The veins are composed of approximately 60% milky to grey quartz with the remainder made up of carbonate and minor amounts of chlorite steaks and patches. Only trace amounts of pyrite were observed in the veins. Vein contacts, where measurable, are steeply dipping. The veins range between 1 and 4 feet wide.

The host rocks consist of light to medium grey, fine grained felsic material that is foliated to schistose and moderately to strongly oxidized (carbonatized) and sericitized. Near the vein margins of the quartz-carbonate veins, the host rock has been altered to a tan, sericite schist and is strongly oxidized. Yellowish sericite threads and seams traverse the volcanics in a parallel to braided (anastamosing) fashion giving rise to the foliation which can occur parallel to vein margins and crosscut the veins.

Twenty-five grab samples (#6203 to 6227) were taken for gold analyses but will not be discussed in this report.

S135 Showing and Surrounding Area (Drawings No. 8,9,9A,9B)

The S135 showing consists of a system of auriferous quartz-carbonate veins and associated sulfide mineralization occuring in sheared felsic volcanics. The veining is oriented subparallel to the east-northeast striking shearing and dominant foliation, and usually occurs as narrow packages of veinlets and lenses (1 to 5 feet wide) of more than 25% quartz-carbonate material with pyrite. Shearing is pervasive throughout the showing area, with narrow zones of strongly sheared, sericitic felsic volcanics anastomosing around lenticular blocks of more massive material.

From a total of 104 chip and grab samles taken from trenches within the S135 zone, 33 samples returned significant gold assays of 0.035 oz/ton or higher. The most impressive assays returned by chip samples #28713 - 28716 averaged 0.453 oz/ton over 7.5 feet. Grab sample #28777, taken from the same region, yielded a spectacular 2.34 oz/ton. Drill holes S135-3 and 4 (section 2+54E) were drilled underneath these anomalous surface samples to test the vertical continuity of the zone. Hole S135-3 encountered 0.056 oz/ton over 1.9 feet at a vertical depth of 20 feet and hole S135-4 encountered 0.036 oz/ton over 3.4 feet at a vertical depth of 60 feet and 0.161 oz/ton over 5.9 feet at a vertical depth of 75 feet.

Samples taken from various smaller trenches surrounding the S135 showing area (Diagram No. 9A, 9B) did not yield any significant gold assays.

South of Noranda's Joburke Property (Diagram No. 11)

A program of trench mapping and sampling was undertaken on claims No. 921784 and 752146 which border the south side of the Joburke property. The area is covered by an assemblage of intercalated felsic, intermediate and mafic volcanics which host several dispersed quartz veinlets (1/8" to 2" wide) and lenses with minor amounts of disseminated to locally massive lenses of pyrite. Veining is generally oriented parallel to the regional east-west foliation. Six grab samples (#17916 - 17921) were taken for gold analyses, however no significant values were returned.

9.0 Conclusions

1. Drilling and trenching to date have identified two areas of significant gold mineralization on the Sangold property - the Patricia zone and the S135 zone which have, respectively, yielded gold values as high as 0.528 oz/ton over 4.0 feet (SG-89-50: section 0+75S) and 0.453 oz/ton over 7.5 feet (S135 surface trenching: section 2+54E and diagram No. 9).

2. The Patricia zone contains signifcant gold values associated with quartz-carbonate veining and pyrite found in a north-northwest striking shear system, hosted in intermediate to mafic volcanics. Significant gold mineralization has presently been drilled over a strike length of 600 feet and to a depth of 700 on this zone. Although the zone appears to pinch out to the south, it remains open to the north and at depth.

3. The S135 zone contains significant gold values associated with quartz-carbonate veining and pyrite found in an east-northeast striking shear system, hosted in felsic volcanics. Significant gold mineralization has presently been drill-indicated to a vertical depth of 170 feet below several high grade surface trench samples. The gold mineralization has also been identified by drilling over a strike length of 150 feet.

4. In both areas, the mineralized zones consist of a package of relatively concentrated quartz-carbonate veining and pyrite within the pervasively sheared host rock. The Patricia package pinchs and swells from 10 to 150 feet in width over 600 feet of strike length. The two branches of the S135 package remain between 10 to 15 feet wide over 150 feet of strike length. Only narrow portions of these mineralized zones contain significant gold values (>0.025 oz/ton). Some of the best gold assays in both zones come from lenses of 3 to 10% disseminated pyrite associated with the veining. Not all quartz-carbonate veining contains pyrite, however.

5. The gold intersections, themselves, within the quartz-carbonate-pyrite mineralized packages are generally erratically distributed, occurring usually with narrow (1 to 2 feet wide) discontinuous lenses of pyrite, separated by intervals of non-auriferous, less altered host rock. Individual quartz-carbonate viens also appear discontinuous perhaps forming an en-echelon pattern within the mineralized package. In several places, the grade and density of the anomalous gold assays is favourable enough to calculate an economic grade over a reasonable mining width. However, because of the discontinuous nature of individual pyrite lenses and quartz-carbonate veins, and the lack of marker horizons or well defined, evenly mineralized shears, caution must be taken in connecting narrow individual gold intersections from one hole to the next.

10.0 Recommendations

1. Holes SG-89-35 to 61 should be incorporated into the reserve calculations for the Patricia zone, and ore blocks should be drawn keeping in mind any potential restrictions imposed by the nature in which the gold mineralization occurs. Previous reserves (Holes SG-88-01 to SG-89-34) were calculated at 59,000 tons of possible ore grading 0.2 oz/ton (Hinzer, 1989).

2. Future drilling on the Patricia zone should test the northern extension of the zone and continue to focus on defining parts of the zone that contain a relatively dense concentration of quartz-carbonate veining and pyrite mineralization. Future drilling on the S135 zone should explore the continuity of the zone along strike to the east and west and also at depth.

3. Detailed systematic logging of percentages of sulfides and quartz-carbonate veining and intensity of foliation and alterations could be supplemened by whole rock studies on the mineralized packages to better define the boundaries of the auriferous zones and understand the relationships between gold mineralization, structure, veining, sulfides and alteration.

4. Bulk sampling should be considered for the Patricia and S135 zones by way of a well controlled, small decline or adit in parts of these zone exposed at surface. This may shed a better light on the true continuity of the gold mineralization and its potential for economic extraction.

Respectfully Submitted,

Stephen B. Medd

REFERENCES

HINZER, J.B.; 1989. Second Diamond Drill Report on the Sangold Property, Keith Township, Ontario of Marshall Minerals Corporation.

HINZER, J.B.; 1988. Diamond Drill Report on the Sandgold Property, Keith Township, Ontario of Marshall Minerals Corporation and Gold Vessel Resources Inc.

IRELAND, J.; 1987. Report on the Geology of the S.G.-1 Claim Block, Sangold Project, Keith Township, Porcupine Mining Division, Ontario for Gail Resources Inc.

WAHL, G.H.; 1988. Geological Compilation and Drill Report (1988) of the Sangold Property, Keith Township, Ontario - Marshall Minerals Corp., Gail Resources Inc., Gold Vessel Resources Inc.

Certificate of Qualification

THIS IS TO CERTIFY THAT:

I, Stephen B. Medd, am a consulting geologist and reside at 1117 - 7 Crescent Place, Toronto, Ontario, M4C 5L7.

I have been actively engaged in Canadian and Foreign mining and exploration since 1979.

I am a graduate of the University of Waterloo, Waterloo, Ontario, with an Honours B.Sc. (1983) in the Co-op Program of Earth Sciences.

I am a member, in good standing, of the Geological Association of Canada.

I have never visited the property.

Conclusions and recommendations are based on field data gathered and provided by Marshall Minerals Corp. and on reports and historical assessment records found in Government of Ontario files.

I have not directly nor indirectly received nor expect to receive any interest direct or indirect in the property of the company or any affiliate.

Stephen B. Medd

Ministry of Northern Development and Mines

Ontario

DOCUMENT No. W 9006.60

42B01NW8542 54 KEITH

900

Expenditures.
- Refer to Sections 76 and 77, the Mining Act for assessment work requirements and the reverse side of this form for table of information.

Mining Act — Report of Work

Name and Address of Recorded Holder	Prospector's Licence No.
MARSHALL MINERALS CORP. W 9006.60577	A-38077
4776 Bridge Street, P.O. Box 356, Niagara Falls, Ontario L2E 6T8	Telephone No. (416) 356-9112

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.
Porcupine									
Township or Area: Keith									
Total Assessment Credits Claimed: 2480									
Type of Work Performed (Check one only)		SEE SCHEDULE ATTACHED							
☐ Manual Work									
☐ Shaft Sinking Drifting or other Lateral Work									
☐ Mechanical equipment									
☐ Power Stripping other than Manual (maximum credit allowed - 100 days per claim)									
☒ Diamond or other Core drilling									
☐ Core Specimens									

Dates when work was performed	Total No. of Days Performed	Total No. of Days Claimed	Total No. of Days to be Claimed at a Future Date
From: July 1989 To: September 1989	~~17.257~~ 3066	2.482 2480	0 586

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
	683688	1551	752139	442¼	752148	489		
	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 Longyear Canada Inc., Box 1281 Timmins, Ontario
From July 20, 1989 to September 16, 1989

DDH #SG 89-47, 48, 49 = 1,551' on claim #683688 (1551)'
DDH #SG 89-42, 44 = 489' on claim #752148 (824)'
DDH # S 135-1,2,8 = 491' on claim #752139 (691)'

For complete information, see attached report.
(Core stored at Joburke site)

* 3066' AS PER 100

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE
DEC 20 1990
RECEIVED
SUBMITTED

(416) 356-0098 (FAX) PUROLATOR : DEC. 5TH/90

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)
	December 3, 1990	

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			
J.B. Hinzer, P.O. Box 356, Niagara Falls, Ontario L2E 6T8	Telephone No.	Date	Certified By (Signature)
	(416) 356-9112	December 3, 1990	

For Office Use Only

Work Assignments	Received Stamp
RECORDED DEC - 6 1990	RECEIVED MINING LANDS BRANCH DEC 6 1990 10:15 MCA

768 (89/06)

Ontario Ministry of Northern Development and Mines

- Please type or print.
- For each type of work performed, a separate Report of Work should be completed.
- For Geo-technical work, use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical") and form no. 878 for Expenditures.
- Refer to Sections 76 and 77, the Mining Act for assessment work requirements and the reverse side of this form for table of information.

Mining Act — Report of Work

Name and Address of Recorded Holder	Prospector's Licence No.
MARSHALL MINERALS CORP.	A-38077
4776 Bridge Street, P.O. Box 356, Niagara Falls, Ontario L2E 6T8	Telephone No. (416) 356-9112

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.
Porcupine									
Township or Area: Keith									
Total Assessment Credits Claimed: 2480									
Type of Work Performed (Check one only)		SEE SCHEDULE ATTACHED							
☐ Manual Work									
☐ Shaft Sinking Drifting or other Lateral Work									
☐ Mechanical equipment									
☐ Power Stripping other than Manual (maximum credit allowed - 100 days per claim)									
☒ Diamond or other Core drilling									
☐ Core Specimens									

Dates when work was performed	Total No. of Days Performed	Total No. of Days Claimed	Total No. of Days to be Claimed at a Future Date
From: July 1989 To: September 1989	17.257 3066	2.482 2480	0 586

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	Mining Claim	No. of Days
	683688	1551	752139	442½	752148	489				
	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

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From July 20, 1989 to September 16, 1989

DDH #SG 89-47, 48, 49 = 1,551' on claim #683688. (1551)'
DDH #SG 89-42, 44 = 489' on claim #752148 (824)'
DDH # S 135-1,2,8 = 491' on claim #752139 (691)'

For complete information, see attached report. * 3066' AS PER LOGS SUBMITTED
(Core stored at Joburke site)

(416) 356-0098 (FAX) PUROLATOR : DEC. 5TH/90

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: December 3, 1990	Recorded Holder or Agent (Signature)

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			
J.B. Hinzer, P.O. Box 356, Niagara Falls, Ontario L2E 6T8			
	Telephone No. (416) 356-9112	Date: December 3, 1990	Certified By (Signature)

For Office Use Only

Work Assignments	Received Stamp
	SUDBURY MINING DIVISION RECEIVED DEC 6 1990 10:15 mca

MARSHALL MINERALS CORP.

Schedule of Days Work Done on Claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
872146	10	872306	30	900417	30
872147	10	872307	30	900418	30
872148	10	872308	30	900419	30
872149	10	872309	30	900420	30
872150	10	872310	30	900421	30
872151	10	872311	30	900422	30
872152	10	872312	30	900423	30
872153	10	872313	30	900424	30
872154	10	872314	30	900425	30
872155	10	872315	30	900426	30
872156	10	872316	30	900427	30
872157	10	872317	30	900428	30
872158	10			900429	30
872159	10		360		
872160	10				390
872161	30				
872162	30	916887	30		
872163	30	916888	30		
872164	30	916889	30		
872165	30	916890	30		
	300		120		
921784	30	923401	30	930902	30
921785	30	923402	30	930903	30
921786	30	923403	30	930904	30
921787	30	923404	30		
921788	30	923405	30		90
921789	30				
921790	30		150		
921791	30				
921792	30				
921793	30	958074	40		
921794	30	958075	40	996929	20
921795	30	958076	40	996930	20
921796	30	958077	40	996931	20
921797	30				
921798	30		160		60
921799	30				
921800	30				
	510				

Name and Address of Person Certifying

J.B. Hinzer, P.O. Box 356, Niagara Falls

Claim No.	Days
1029806	20
1029807	20
1029809	20
1029810	20
1029811	20
1029812	20
1029813	20
1029814	20
1029815	20
1029816	20
1029817	20
	220

Claim No.	Days
1029958	20
1029959	20
1029960	20
	60

Claim No.	Days
1029975	20
1029976	20
1029977	20
	60

5W 4W 3W 2W 1W 0 1E 2E 3E 4E 6N 5E

5N 4N 3N 2N 1N 0 1S 2S 3S 4S

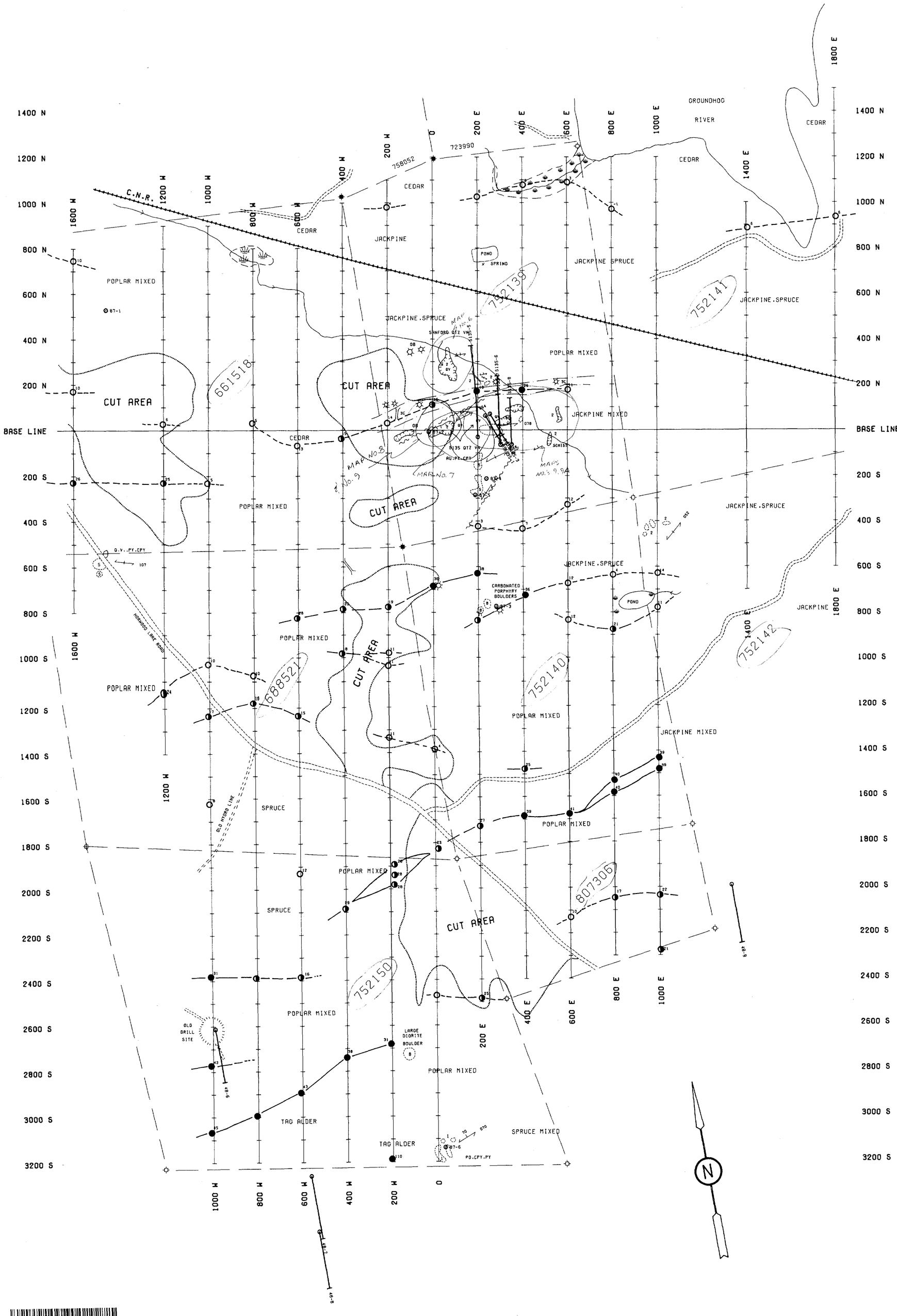
SG-89-28

688519
752 148

688520
752/149

N

MARSHALL MINERALS CORP.	
PLAN MAP	
Fart	
Project'	SANGOLD (WEST GRID) PATRICIA QTZ VN AREA
Survey'	VERTICAL PROJECTION OF DRILL HOLE TRACES
Scale'	1" = 40'
File loc'	
Dwg no'	
Date'	10-MAY-90
Srvy'd by	
Appv'd by	
Chk'd by	
Drw'n by	NORTHERN GEOTECH



GEOPHYSICAL LEGEND

V.L.F.- E.M. FRASER FILTERED CONDUCTOR AXES
(Values in % per 50 ft.)

- 5-15% (Weak conductor)
- 15-30% (Moderate conductor)
- >30% (Strong conductor)

GEOLOGY LEGEND

1 - INTERMEDIATE-BASIC VOLCANICS
- A - Pillowed
- B - Tuff
- C - Massive

2 - FELSIC VOLCANICS (Dacite to Rhyolite)
- A - Fragmental
- B - Tuff
- C - Massive

3 - METASEDIMENTS
- A - Conglomerate
- B - Arkose/Greywacke
- C - Argillite

4 - INTERMEDIATE-BASIC INTRUSIVES (Diorite to Gabbro)

5 - FELSIC INTRUSIVES
- A - Altered (Quartz) Feldspar Porphyry

6 - SERPENTINITE

IF - IRON FORMATION

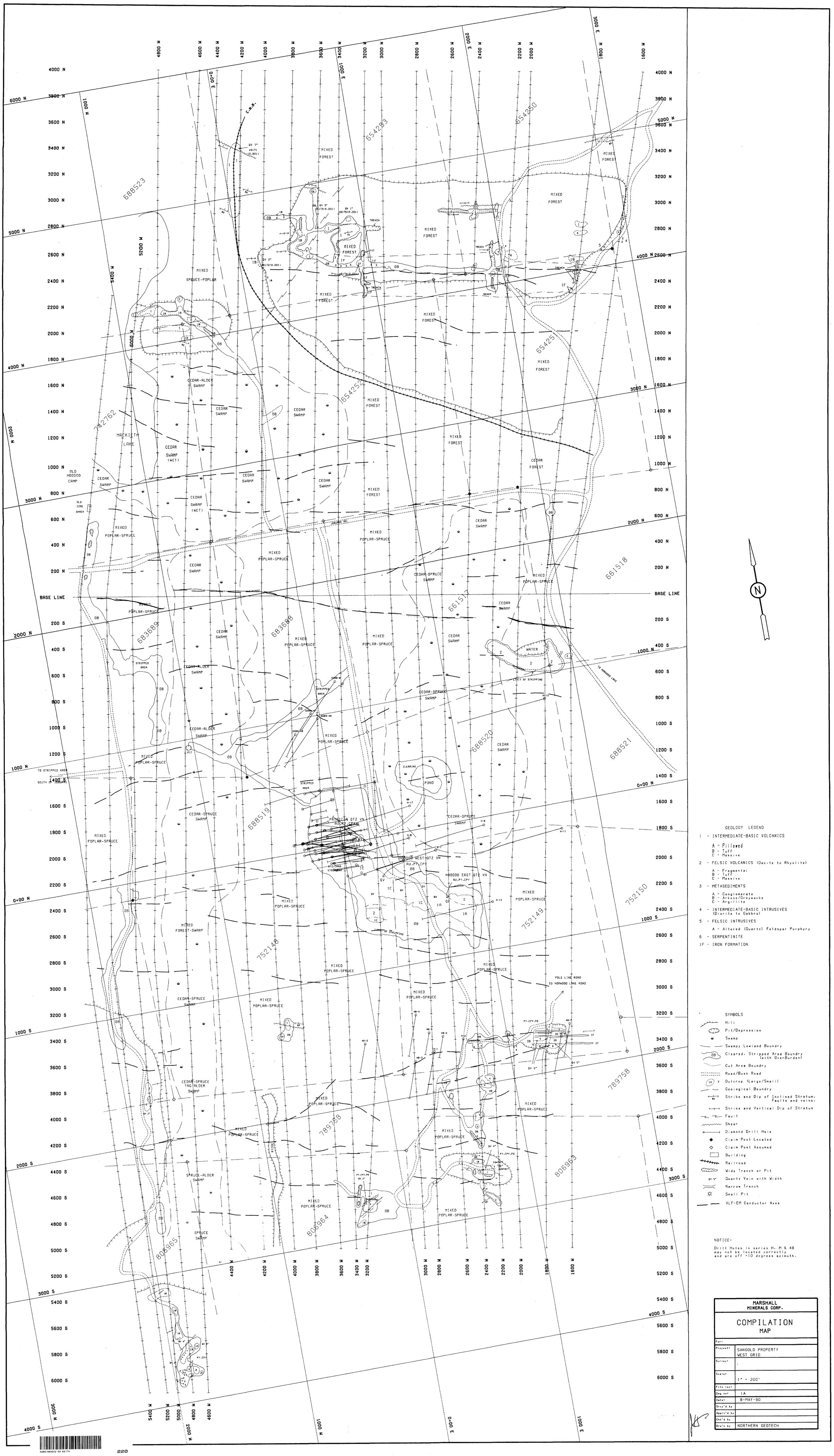
SYMBOLS

- Hill
- Pit/Depression
- Swamp
- Swampy Lowland Boundry
- OB - Cleared, Stripped Area Boundry (with OverBurden)
- Cut Area Boundry
- Road/Bush Road
- 1A - Outcrop (Large/Small)
- Geological Boundry
- 80 - Strike and Dip of Inclined Stratum, Faults and veins.
- Strike and Vertical Dip of Stratum
- Fault
- Shear
- Diamond Drill Hole
- Claim Post Located
- Claim Post Assumed
- Building
- Railroad
- Wide Trench or Pit
- QV 5' - Quartz Vein with Width
- Narrow Trench
- Small Pit

MARSHALL MINERALS CORP.

COMPILATION MAP

For:	
Project:	SANGOLD PROPERTY EAST GRID
Survey:	
Scale:	1" = 200'
File loc:	
Dwg no:	1B
Date:	7-MAY-90
Srvy'd by	
Apprv'd by	
Chk'd by	
Dre'n by	NORTHERN GEOTECH



GEOLOGY LEGEND

1 - INTERMEDIATE-BASIC VOLCANICS
- A - Pillowed
- B - Tuff
- C - Massive

2 - FELSIC VOLCANICS (Dacite to Rhyolite)
- A - Fragmental
- B - Tuff
- C - Massive

3 - METASEDIMENTS
- A - Conglomerate
- B - Arkose/Greywacke
- C - Argillite

4 - INTERMEDIATE-BASIC INTRUSIVES (Diorite to Gabbro)

5 - FELSIC INTRUSIVES
- A - Altered (Quartz) Feldspar Porphyry

6 - SERPENTINITE

1F - IRON FORMATION

SYMBOLS
- Hill
- Pit/Depression
- Swamp
- Swampy Lowland Boundry
- Cleared, Stripped Area Boundry (with OverBurden)
- Cut Area Boundry
- Road/Bush Road
- Outcrop (Large/Small)
- Geological Boundry
- Strike and Dip of Inclined Stratum, Faults and veins.
- Strike and Vertical Dip of Stratum
- Fault
- Shear
- Diamond Drill Hole
- Claim Post Located
- Claim Post Assumed
- Building
- Railroad
- Wide Trench or Pit
- QV 5" Quartz Vein with Width
- Narrow Trench
- Small Pit
- VLF-EM Conductor Axes

NOTICE:

Drill Holes in series H, M & 48 may not be located correctly and are off ±10 degrees azimuth.

MARSHALL MINERALS CORP.	
COMPILATION MAP	
Fer:	
Project:	SANGOLD PROPERTY WEST GRID
Survey:	-
Scale:	1" = 200'
File loc:	
Dwg no:	1A
Date:	8-MAY-90
Srvy'd by	
Appr'd by	
Chk'd by	
Dr'n by	NORTHERN GEOTECH

3W 2W 1W 0 1E 2E 100EL 3E

99EL 98EL 97EL 96EL 95EL 94EL 93EL

OVERBURDEN

(235')

CLM- 688519

CLM- 752 148

(222)

PATRICIA MAIN ZONE

GEOLOGY LEGEND

1 - Intermediate to Mafic Volcanics

- A - Pillowed
- B - Tuff
- C - Massive

2 - Felsic Volcanics

- A - Fragmental
- B - Tuff
- C - Massive

3 - Metasediments

- A - Conglomerate
- B - Arkose/Greywacke
- C - Argillite

4 - Intermediate to Mafic Intrusives (Diorite to Gabbro)

5 - Felsic Intrusives

- A - Altered (Quartz) Feldspar Porphyry

6 - Serpentinite

IF - Iron Formation

DRILL HOLE LEGEND

U W E D

- Collar
- End of hole
- 50-foot markers
- Assay boundary
- Geology boundary
- OCV.GE.25%
- Puncture point

MARSHALL MINERALS CORP.

SECTION 125S

Port	
Project'	SANGOLD PROPERTY
Survey'	CROSS SECTION +/- 25'
Scale'	1" = 20'
File loc'	CLAIM No. 752148/688519
Dwg no'	
Date'	30-APR-90
Srvy'd by	
Apprv'd by	
Chk'd by	
Drw'n by	NORTHERN GEOTECH

3W 2W 1W 0 1E 2E 100EL 3E

99EL 99EL

98EL 98EL

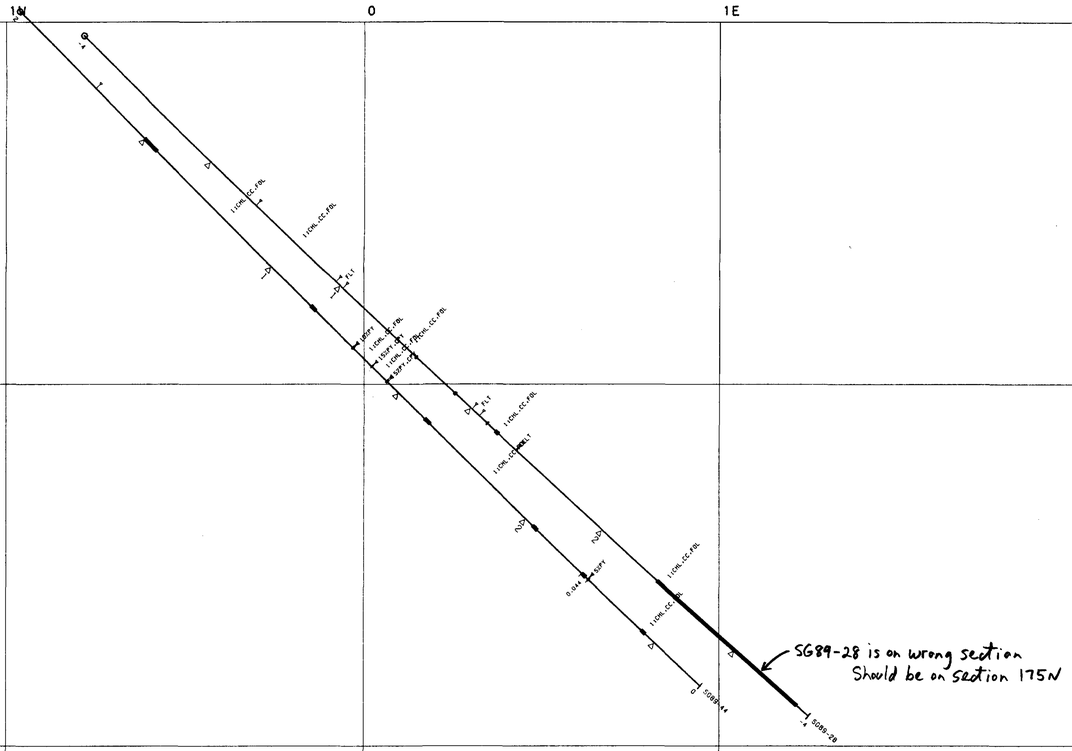
97EL 97EL

96EL 96EL

95EL 95EL

94EL 94EL

3W 2W 1W 0 1E 2E 3E



GEOLOGY LEGEND

1 - Intermediate to Mafic Volcanics

A - Pillowed
B - Tuff
C - Massive

2 - Felsic Volcanics

A - Fragmental
B - Tuff
C - Massive

3 - Metasediments

A - Conglomerate
B - Arkose/Greywacke
C - Argillite

4 - Intermediate to Mafic Intrusives (Diorite to Gabbro)

5 - Felsic Intrusives

A - Altered (Quartz) Feldspar Porphyry

6 - Serpentinite

IF - Iron Formation

DRILL HOLE LEGEND

U
W E
D

Collar
End of hole
50-foot markers
Assay boundary
Geology boundary
OCV.GE.25%
Puncture point

MARSHALL MINERALS CORP.

SECTION
175S

Property	SANGOLD PROPERTY
Survey	CROSS SECTION +/- 25'
Scale	1" = 20'
File loc	CLAIM No 752148
Dwg no	
Date	30-APR-90
Srvy'd by	
Appr'd by	
Chk'd by	
Drw'n by	NORTHERN GEOTECH

3S | 2S | 1S | 0 | 1N | 2N | 101EL | 3N

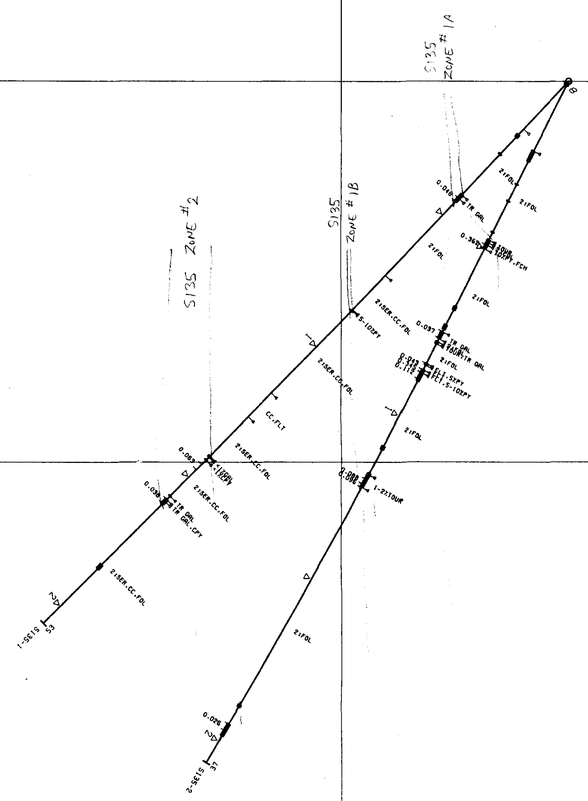
100EL

99EL

98EL

97EL

96EL



GEOLOGY LEGEND

1 - Intermediate to Mafic Volcanics

A - Pillowed
B - Tuff
C - Massive

2 - Felsic Volcanics

A - Fragmental
B - Tuff
C - Massive

3 - Metasediments

A - Conglomerate
B - Arkose/Greywacke
C - Argillite

4 - Intermediate to Mafic Intrusives (Diorite to Gabbro)

5 - Felsic Intrusives

A - Altered (Quartz) Feldspar Porphyry

6 - Serpentinite

IF - Iron Formation

DRILL HOLE LEGEND

U
S N
D

Collar
End of hole
50-foot markers
Assay boundary
Geology boundary
QCV-GE.25%
Puncture point

MARSHALL MINERALS CORP.

SECTION
S 234E

For:	
Project:	SANGOLD PROPERTY EAST GRID
Survey:	CROSS SECTION DUE NORTH AZIMUTH
Scale:	1" = 20'
File loc:	CLAIM No 752139
Dwg no:	
Date:	1-MAY-90
Srvy'd by	
Appv'd by	
Chk'd by	
Drw'n by	NORTHERN GEOTECH

96EL

3S | 2S | 1S | 0 | 1N | 2N | 3N

3S | 2S | 1S | 0 | 1N | 2N | 101EL | 3N

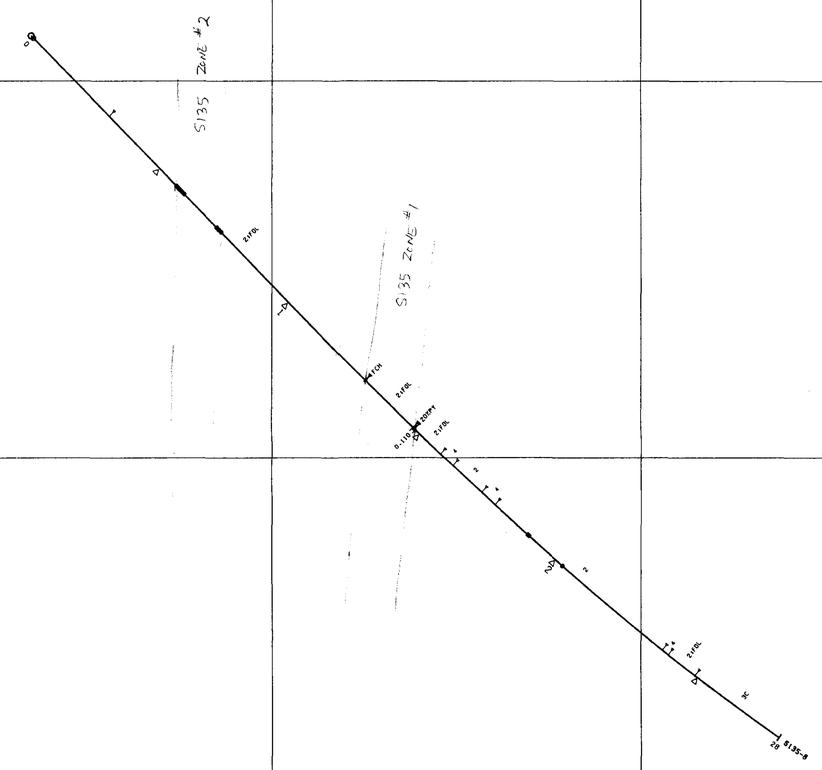
100EL

99EL

98EL

97EL

96EL



GEOLOGY LEGEND

1 - Intermediate to Mafic Volcanics

A - Pillowed
B - Tuff
C - Massive

2 - Felsic Volcanics

A - Fragmental
B - Tuff
C - Massive

3 - Metasediments

A - Conglomerate
B - Arkose/Greywacke
C - Argillite

4 - Intermediate to Mafic Intrusives (Diorite to Gabbro)

5 - Felsic Intrusives

A - Altered (Quartz) Feldspar Porphyry

6 - Serpentinite

IF - Iron Formation

DRILL HOLE LEGEND

U
S N
D

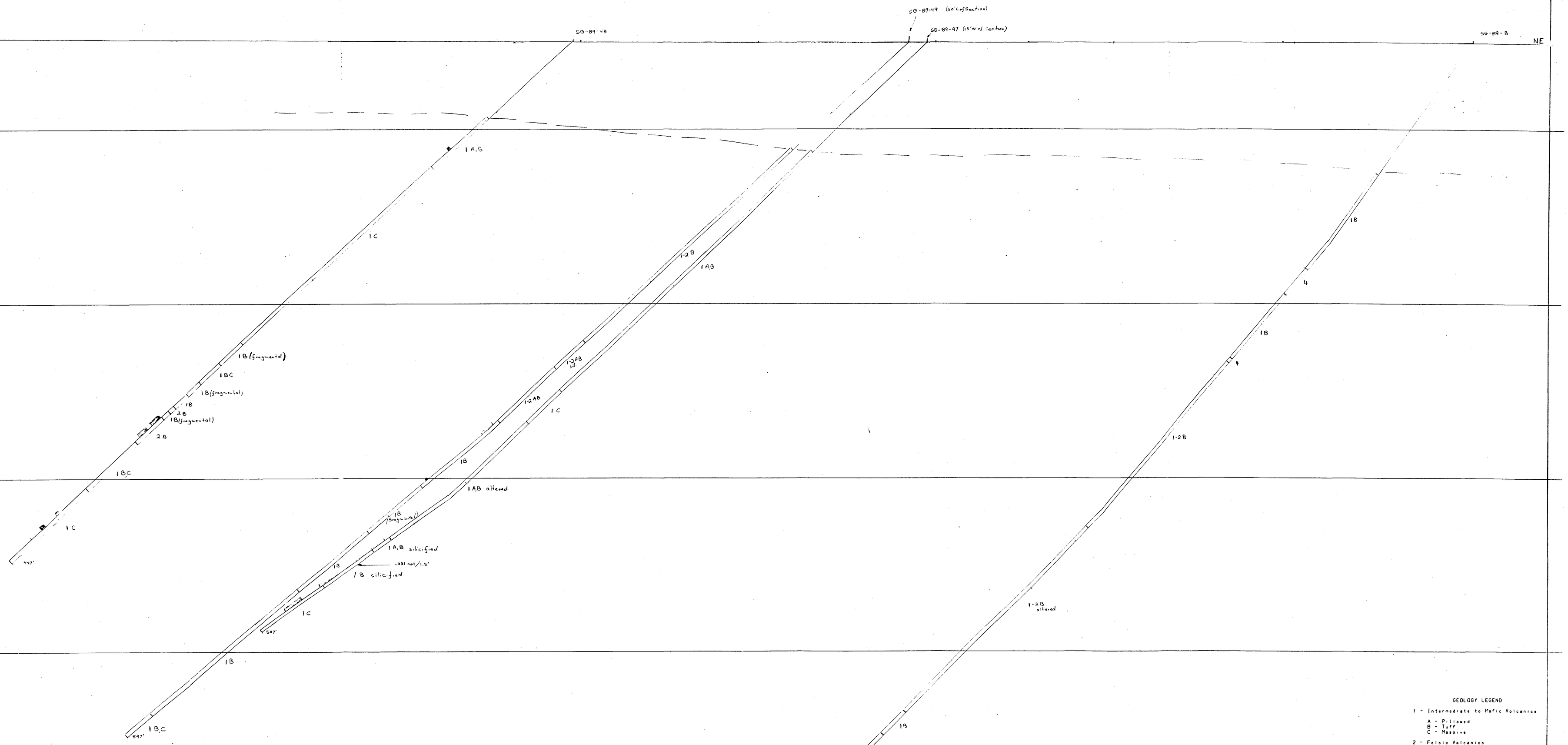
Collar
End of hole
50-foot markers
Assay boundary
Geology boundary
OCV.GE.25%
Puncture point

MARSHALL MINERALS CORP.

SECTION
S 350E

Form	
Project	SANGOLD PROPERTY EAST GRID
Survey	CROSS SECTION ASTRO NORTH AZIMUTH
Scale	1" = 20'
File loc	Claim # 752139
Dwg no	
Date	1-MAY-90
Srvy'd by	
Appv'd by	
Chk'd by	
Drw'n by	NORTHERN GEOTECH

3S | 2S | 1S | 0 | 1N | 2N | 3N



GEOLOGY LEGEND

1 - Intermediate to Mafic Volcanics

A - Pillowed
B - Tuff
C - Massive

2 - Felsic Volcanics

A - Fragmental
B - Tuff
C - Massive

3 - Metasediments

A - Conglomerate
B - Arkose/Greywacke
C - Argillite

4 - Intermediate to Mafic Intrusives (Diorite to Gabbro)

5 - Felsic Intrusives

MARSHALL MINERALS CORP.	
SECTION DDH SG-88-8, 89-47 48 49	
Part:	
Project:	SANGOLD PROPERTY
Survey:	BRG 225°
Scale:	1" = 20'
File Text:	CLAIM NO 683 688
Dwg no:	
Date:	APR-90
Dsgn'd by	
Appr'd by	J B H
Chk'd by	
Drn'n by	J B H