

# 2.1920

## Marshall Minerals Corp.



42B01NW2004 2.19209 KEITH

DIAMOND DRILL CORE LOG

HOLE NO: 9801  
 PROPERTY: Sangold - Patricia Grid  
 TOWNSHIP: Keith Twp., Ontario  
 CLAIM NO: P.752148  
 CORE SIZE: NQ  
 CONTRACTOR: George Downing Estate Drilling Ltd.  
 LOGGED BY: Brenda MacRae, September 15, 1998

DIP TESTS - Tropari		
DEPTH	AZIMUTH	DIP
50 M	93 deg.	-49 deg.
100 M	104 deg.	-50 deg.
150 M	114 deg.	-53 deg.

METRIC COORDINATES: 52S / 50W  
 DIP AT COLLAR: -50 degrees  
 AZIMUTH: 090 degrees  
 ELEVATION: Surface: 3052 m  
 STARTED: Sept. 2, 1998  
 FINISHED: Sept. 10, 1998

TOTAL DEPTH OF HOLE: 161.0 M

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
0	12.45	<b>Overburden</b> -clay and boulders							
12.45	75.00	<b>Mafic Volcanic</b> -medium to dark green -fine grained at start, medium grained by 52.00m -foliation, moderate: 40-50° to CA -strong local magnetism in core -moderately chloritic -patchy sericite alteration, intensity increasing down hole -strong carbonatization, occasional weathered out vugs - 5-10% irregular calcite stringers; some narrow stringers contain up to 80% fine grained magnetite, 27.00-35.05m and 61.60-70.20m - 1-3% fine pyrite; local concentrations associated with calcite stringers, and as occasional fine lenses in volcanic rock -occasional specks of chalcopyrite - 21.50-21.90m: 30% irregular 3-5cm wide calcite and minor quartz stringers partly oriented down CA, 5-10% pyrite - 23.20-23.40m: 40% calcite and minor quartz stringers, as above, with 3% fine pyrite, and specks							

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
75.00	107.35	of chalcopyrite							
		- 37.90-38.25m: 25% calcite and quartz as an irregular 2 cm wide stringer, partly oriented down CA, up to 5% pyrite	29764	37.40	38.40	1.00	0.17		
			29765	38.40	39.50	1.10	0.01		
			29766	39.50	41.00	1.50	nil		
		- 40.50-41.60m: 30-40% irregular calcite and cream coloured carbonate stringers, 5-8% black-brown magnetite, trace pyrite, specks of chalcopyrite, trace hematite stained calcite	29767	41.00	41.90	0.90	nil		
		- 63.25m: epidote, tourmaline, and specks of chalcopyrite noted in calcite stringers; minor epidote seen elsewhere in calcite stringers from 58.40-62.60m							
		- 70.10-70.30m: 1-2cm wide irregular calcite stringer with 15-20% magnetite and 5% pyrite							
		-rusty fractured core throughout to about 88.00m; purple hematite stained fractures							
		-vuggy, rusted core: 17.25m, 20.30-20.65m, 21.40m, 42.70m, 42.90-43.20m, and 45.10m							
		<b>Mafic Volcanic</b>							
		-dark green							
		- fine and medium grained							
		-moderate carbonatization with some short vuggy weathered out sections							
		-less than 1% carbonate and quartz stringers							
		-core is moderately magnetic, occasional narrow magnetite and calcite-magnetite stringers							
		-minor pyrite, trace chalcopyrite; local concentration of chalcopyrite in calcite stringers							
		- 96.08-97.55m: 90% cream carbonate (with minor calcite) and quartz, 10% chloritic and buff-grey sericitic material, trace pyrite	29768	95.50	96.70	1.20	nil		
			29769	96.70	97.50	0.80	nil		
		- 97.55m: 30cm of 5% sub-rounded, elongated calcareous phenocrysts, 2-3mm wide, in fine	29770	97.50	98.70	1.20	nil		
			29771	98.70	100.50	1.80	nil		

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
107.35	112.65	grained mafic volcanic	29772	103.00	104.50	1.50	nil		
		<b>Mafic Volcanic</b>	29773	104.50	106.00	1.50	0.01		
		-black green	29774	106.00	107.50	1.50	0.01		
		-fine grained	29775	107.50	108.50	1.00	0.09		
		-foliation, strong: 45-65° to CA	29776	108.50	109.70	1.20	0.03		
		-moderate sericite alteration	29777	109.70	111.20	1.50	0.08		
		-patchy carbonatization	29778	111.20	112.00	0.80	0.24		
		- 15-20% irregular quartz-carbonate stringers	29779	112.00	113.00	1.00	0.03		
		- 3-5% pyrite overall, local concentrations as lenses parallel to foliation, and in narrow quartz-carbonate stringers	29780	113.00	113.90	0.90	0.08		
		-trace chalcopyrite							
- 107.35-107.95m: 60% irregular carbonate, quartz and sericite stringers; 3-5% pyrite, 20% pyrite in upper 20cm									
- 109.10-109.50m: 40% carbonate and quartz material; trace pyrite, generally associated with sericitic and chloritic wall rock									
- 109.50-111.80m: 25-30% narrow irregular quartz and carbonate stringers, often oriented in direction of foliation; up to 10% pyrite									
112.65	131.70	<b>Mafic Volcanic</b>							
		-black green							
		-medium grained							
		-foliation, moderate: 50-55° to CA							
		-moderate sericite and carbonate alteration at start, gradually becoming brown green to faintly hematite stained							
		-felsic phenocrysts, 1-7mm wide, noted after 117.70m							
		-core is moderately magnetic, some magnetite crystals visible in occasional felsic masses and on							

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
		phenocryst boundaries - 118.70-119.55m: fine grained, light green mafic dike; minor, fine sulphide at irregular upper margin, trace pyrite and chalcopyrite at lower margin; there is a 3cm wide dike off shoot at 119.68m -about 1% narrow, irregular quartz-carbonate stringers							
		- 115.20m-116.00m: up to 10% pyrite in quartz-carbonate stringers; at 115.25m, a 1cm wide stringer carries 20% chalcopyrite and 10% pyrite	29867	115.00	115.50	0.50	0.04		
		- 120.10-120.60m: bleached core surrounding two narrow, rusty quartz veins	29868	115.50	116.50	1.00	0.28		
		-after 120.70m: trace pyrite	29781	118.50	120.00	1.50	nil		
		-possible flow contact at 131.70m; contact is irregular, about 10-40° to CA	29782	120.00	120.70	0.70	nil		
		-rusty fractures at 115.95m, 116.60m, 117.00m, and 117.20m	29783	120.70	121.20	0.50	nil		
			29784	121.20	122.40	1.20	nil		
131.70	135.90	<b>Mafic Volcanic</b> -dark green to dark buff green -fine to medium grained -foliation and some shearing, very strong, variable: from 60° to CA to low angle to CA -moderate sericite alteration -15% carbonate and quartz stringers and irregular masses; in last metre of unit, stringers are oriented at low angle to CA -up to trace pyrite							
135.90	161.00	<b>Mafic Volcanic</b> -dark green to dark buff green -fine to medium grained -foliation, strong: 55° to CA -core is moderately magnetic to end of hole -patchy carbonatization	29785	131.20	132.70	1.50	0.01		
			29786	132.70	134.00	1.30	nil		
			29787	134.00	135.60	1.60	nil		
			29788	135.60	137.00	1.40	nil		
			29789	137.00	138.50	1.50	0.01		
			29790	138.50	139.30	0.80	nil		

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
		-less than 1% quartz and carbonate stringers; some carbonate stringers and masses contain up to 10% fine magnetite crystals	29791	152.70	153.00	0.30	0.01		
			29792	153.00	154.00	1.00	nil		
			29793	154.00	155.00	1.00	nil		
		-trace fine pyrite and chalcopyrite	29794	155.00	156.00	1.00	0.47		
		-147.50-147.90m: mafic dike? Dark medium green with light green mottling. Strongly foliated, 60° to CA. Sharp contacts, 55-60° to CA	29795	156.00	157.00	1.00	0.01		
			29796	157.00	158.00	1.00	nil		
			29797	158.00	159.00	1.00	nil		
		-after 151.00m: 5% irregular carbonate and carbonate-quartz stringers and masses; brown tint to core; local increase of beige-white, sub-rounded phenocrysts, 1-5mm wide	29798	159.00	160.00	1.00	nil		
			29799	160.00	161.00	1.00	nil		
	161.00	<b>End of Hole</b>							
		Core stored at: Sangold Property, Keith Twp, Ont.							

*Brenda MacKae*



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020 SHEET 1

## DIAMOND DRILL CORE LOG

## Marshall Minerals Corp.

HOLE NO: 9802  
 PROPERTY: Sangold - Patricia Grid  
 TOWNSHIP: Keith Twp., Ontario  
 CLAIM NO: P.752148  
 CORE SIZE: NQ  
 CONTRACTOR: George Downing Estate Drilling Ltd.  
 LOGGED BY: Brenda MacRae, September 17, 1998

DIP TESTS - Tropari

DEPTH	AZIMUTH	DIP
61.3 M	93 deg.	-48 deg.
110.0 M	97 deg.	-50 deg.
155.8 M	101 deg.	-52 deg.

METRIC COORDINATES: 77S / 50W  
 DIP AT COLLAR: -50.5 degrees  
 AZIMUTH: 090 degrees  
 ELEVATION: Surface: 3051 m  
 STARTED: Sept. 10, 1998  
 FINISHED: Sept. 11, 1998

TOTAL DEPTH OF HOLE: 159.7 M

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
0	9.85	<b>Overburden</b> -clay and boulders							
9.85	159.70	<b>Mafic Volcanic</b> -dark to medium green -fine grained -foliation, strong: 45° to CA -moderately chloritic -strongly carbonatized -up to 5% narrow, irregular white calcite stringers and masses, and occasional quartz-carbonate stringers; scattered, small weathered out vugs in the volcanic rock -trace fine pyrite; occasionally, to 1% -trace chalcopyrite -patchy, moderate to strong magnetism in core; fine magnetite crystals visible in some calcite stringers and in grey "massive" magnetite stringers up to 1cm wide, seen to 60.00m - 62.00 to 91.00m: decrease in strength of magnetism; pyrite content increases to 1-3% with minor chalcopyrite, pyrite as disseminated cubes, fine lenses and in association with calcite stringers - 80.00 to 90.00m: possible pillows; dark green,							

D.D.H. : 9802

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
		finer grained; sharp, narrow white calcite stringers at 45° to CA, often cross cutting each other -after 91.00m: gradual increase in core magnetism; strongest in irregular calcareous masses that are generally violet hematite stained between 101.90 and 104.30m; up to 1-2% pyrite with minor chalcopyrite	29869	93.80	94.80	1.00	0.02		
		- <u>94.65-97.00m</u> : 15% irregular carbonate and grey and white quartz stringers concentrated in first 0.40m with buff sericite, 2-5% pyrite overall, trace chalcopyrite	29870	94.80	95.60	0.80	0.89		
			29871	95.60	96.60	1.00	0.05		
			29872	96.60	97.40	0.80	0.01		
		- <u>97.00-101.80m</u> : 5% narrow carbonate and carbonate-quartz stringers and irregular masses carrying up to 40% fine magnetite crystals; trace to minor pyrite, trace chalcopyrite	29751	101.50	103.00	1.50	0.01		
		- <u>101.80-104.45m</u> : 30% hematite stained irregular quartz-carbonate stringers and masses; moderate sericite alteration; occasional magnetite crystals; minor pyrite-locally up to 8%; trace chalcopyrite	29752	103.00	104.50	1.50	0.22		
			29753	104.50	106.00	1.50	nil		
		- <u>104.45-156.70m</u> : 1-5% carbonate and quartz stringers and masses, 40% between 150.40 and 151.40m; possible pillows after 148.00m; patchy magnetism, occasional fine magnetite crystals noted to 132.90m; trace pyrite; bleaching around narrow quartz-carbonate stringers at 119.90m, 121.85m, and 122.30m; at 115.00m, a 0.30m intermediate dike, light green, patchy carbonatization, foliated at 50° to CA, sharp contacts at 45-50° to CA	29754	114.00	115.00	1.00	0.01		
			29755	115.00	115.50	0.50	nil		
			29756	115.50	116.00	0.50	0.01		
		- <u>156.00m to end of hole</u> : between 157.00 and 158.40m there is patchy purple hematite alteration, core is magnetic; after 158.40m, core appears to be slightly brecciated with brown green phenocrysts to 7mm	29757	121.50	122.50	1.00	nil		
			29758	122.50	123.70	1.20	0.01		
			29759	146.50	148.00	1.50	nil		
			29760	148.00	149.50	1.50	0.01		
			29761	149.50	151.00	1.50	nil		
			29762	151.00	152.50	1.50	nil		
			29763	152.50	154.10	1.60	0.01		

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
	159.70	-broken, blocky core to 37.00m and 49.00-51.40m, with lost core from 13.40-14.00m  <b>End of Hole</b>  Core stored at: Sangold Property, Keith Twp, Ont.							

*Brenda Markoe*





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030 SHEET 1

## DIAMOND DRILL CORE LOG

## Marshall Minerals Corp.

HOLE NO: 9803  
 PROPERTY: Sangold - Patricia Grid  
 TOWNSHIP: Keith Twp., Ontario  
 CLAIM NO: P.683688  
 CORE SIZE: NQ  
 CONTRACTOR: George Downing Estate Drilling Ltd.  
 LOGGED BY: Brenda MacRae, October 6, 1998

DIP TESTS - Tropari  

DEPTH	AZIMUTH	DIP
46 M	91 deg.	-50 deg.
96 M	94 deg.	-50 deg.
146.6 M	98 deg.	-48 deg.

METRIC COORDINATES: 235N / 158W  
 DIP AT COLLAR: -50 degrees  
 AZIMUTH: 090 degrees  
 ELEVATION: Surface: 3045 m  
 STARTED: Sept. 11, 1998  
 FINISHED: Sept. 12, 1998

TOTAL DEPTH OF HOLE: 151.2 M

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
0	33.75	<b>Overburden</b> -clay and boulders							
33.75	57.00	<b>Mafic Volcanic</b> -medium green -medium grained -foliation, weak to moderate, variable: average, 45° to CA -strong sericite alteration, beige flakes -strong carbonatization, vuggy weathered out sections between 41.00m and 48.50m -25% irregular, narrow carbonate stringers and threads, locally 40% near 41.00m; percentage decreases down hole -minor to 1-2% pyrite; locally, as fine disseminations to scattered 0.5cm cubes -trace chalcopyrite overall with local concentrations as fine disseminations and small 1mm clots -occasional fine pyrite lenses after 50.00m -blocky core at 39.80m, 42.60-43.20m, and 43.70m							
57.00	71.30	<b>Mafic Volcanic</b> -gradual change from above unit; decrease in carbonate stringers and threads with increase in quartz and quartz-carbonate stringers							

D.D.H. : 9803

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS	
FROM	TO									
71.30	74.30	-dark green								
		-medium to fine grained								
		-foliation/shearing is strong, variable: 55-85° to CA								
		-strong sericite alteration, local beige colour to core								
		-moderate to strong carbonatization								
		- 15% irregular, quartz, quartz-carbonate, and carbonate threads, stringers and masses to 4cm wide, with and without sulphides associated								
		-occasional magnetite stringer to 1mm wide	29652	63.00	64.50	1.50	0.05			
		-minor pyrite, locally concentrated in stringers to 5-8%	29653	64.50	66.00	1.50	0.01			
			29654	66.00	67.50	1.50	0.02			
		-trace chalcopyrite; locally to 1%	29655	67.50	69.00	1.50	1.22			
		-rusty core: 61.80m, 62.60m	29656	69.00	70.50	1.50	0.03			
			29657	70.50	71.30	0.80	0.07			
		<b>Highly Altered Volcanic</b>	29658	71.30	73.00	1.70	0.04			
		-zone of strong sericite and siliceous alteration	29659	73.00	74.35	1.35	0.06			
		-light beige colour, with a minor amount of dark green chloritic material at down hole end of zone	29660	74.35	76.00	1.65	0.02			
-no carbonatization	29661	76.00	76.80	0.80	0.13					
-irregular but sharp alteration margins	29662	76.80	77.50	0.70	0.10					
- 10% quartz veins and stringers	29663	77.50	79.00	1.50	nil					
- 1-2% pyrite overall, local narrow lenses, fine disseminations, and isolated cubes to 3mm wide	29664	79.00	80.50	1.50	0.28					
	29665	80.50	82.00	1.50	nil					
74.30	81.10	<b>Sheared Mafic Volcanic</b>								
		-medium green								
		-fine grained								
		-foliation, strong: 40° to CA at start of unit to 80° to CA near 81.00m								
		-very strong sericite alteration in first 3 metres, intensity decreasing down hole								
		- 77.60-78.10m: rounded carbonate? phenocrysts, 3-5mm in diameter; noted, also, at 74.60m but less developed								

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
81.10	92.50	<p>- 25% very narrow carbonate stringers and threads oriented in direction of foliation</p> <p>- 5-10% irregular quartz-carbonate stringers and masses</p> <p>- 77.20-77.45m: quartz-carbonate vein with 10% sericitic material plus minor chloritic material; minor pyrite in the vein; 15% pyrite in 10cm preceding vein in shear planes; 3-5% pyrite with chalcopyrite specks in 5cm below vein</p> <p>-up to 2% pyrite and trace chalcopyrite overall</p> <p><b>Mafic Volcanic</b></p> <p>-medium green and fine grained at start, gradually becoming lighter medium green and medium grained down hole</p> <p>-moderately sheared at top of unit, 85° to CA, becoming more massive and moderately foliated down hole</p> <p>-moderate sericite alteration increasing to strong, down hole</p> <p>-strong carbonatization becoming patchy down hole</p> <p>-up to 10% narrow, irregular quartz and carbonate stringers, with and without sulphides associated, oriented in direction of shear</p> <p>-trace to minor pyrite, occasional specks of chalcopyrite, occasional magnetite crystals</p>	29666	82.00	83.50	1.50	nil		
			29667	83.50	85.00	1.50	0.01		
			29668	85.00	86.50	1.50	nil		
			29669	86.50	88.00	1.50	0.01		
			29670	88.00	89.50	1.50	nil		
			29671	89.50	91.00	1.50	0.01		
			29672	91.00	92.50	1.50	nil		
92.50	96.10	<p><b>Altered Mafic Volcanic</b></p> <p>-light medium to pale green</p> <p>-medium grained</p> <p>-foliation and shearing, strong: 80-45° to CA to down the CA in last metre of unit</p> <p>-strong sericite alteration; strongest altered sections are palest green and silicified; less altered</p>							

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
96.10	109.80	core is strongly carbonatized -elongated chloritic phenocrysts, 1mm x 5mm average, oriented in direction of shear, in areas of high alteration -less than 5% narrow quartz and carbonate stringers with minor pyrite plus chalcopyrite? and occasional minor tourmaline	29673	92.50	94.00	1.50	0.01		
		29674	94.00	95.50	1.50	nil			
		29675	95.50	97.00	1.50	1.08			
		29676	97.00	98.50	1.50	2.26			
		<b>Quartz Carbonate Zone</b>	29677	98.50	100.00	1.50	0.29		
		- 50-60% quartz and carbonate material in sericitic and chloritic mafic volcanic; sericitic inclusion material is grey-tan coloured	29678	100.00	101.50	1.50	0.91		
		29679	101.50	103.00	1.50	2.61			
		material is grey-tan coloured	29680	103.00	104.50	1.50	2.30		
		- 5-8% pyrite, locally concentrated to 15-20%; chalcopyrite specks	29681	104.50	106.00	1.50	0.62		
		29682	106.00	107.50	1.50	1.47			
		29683	107.50	109.00	1.50	1.03			
		29684	109.00	110.50	1.50	0.05			
		109.80	120.85	<b>Mafic Volcanic</b>	29685	110.50	112.00	1.50	0.01
-medium to light medium green	29886			112.00	113.50	1.50	0.07		
-fine to medium grained	29687			113.50	115.00	1.50	0.04		
-foliation, moderate: 45° to CA	29688			115.00	116.50	1.50	0.01		
-moderate sericite alteration	29689			116.50	117.80	1.30	0.14		
-strong carbonatization	29690			117.80	118.75	0.95	1.94		
- 15% quartz-carbonate stringers and veins and narrow carbonate stringers and threads	29691			118.75	120.00	1.25	0.02		
- 113.10m: 20cm of 70% quartz and carbonate in sericite and chlorite altered volcanic	29692			120.00	121.50	1.50	0.02		
- 117.80-118.75m: irregular vein with 50% quartz - carbonate with grey sericitic and green chloritic volcanic; 1-2% pyrite, 5-10% in upper 10cm of vein									
-minor pyrite overall, trace chalcopyrite									
- rusty core, 115.70-116.00m; crumbling core, 120.70m									
120.85	139.80	<b>Mafic to Intermediate Volcanic</b> -becoming more intermediate in appearance, down							

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
		hole	29693	121.50	123.00	1.50	0.01		
		-light grey green with medium green sections	29694	123.00	124.50	1.50	0.01		
		-fine to medium grained	29695	124.50	126.00	1.50	0.01		
		-strong foliation/shear: 40-50° to CA	29696	126.00	127.00	1.00	0.01		
		-texture is sheared and mottled	29697	127.00	128.50	1.50	0.01		
		-strong sericite alteration	29698	128.50	130.00	1.50	nil		
		-patchy moderate to strong carbonatization	29699	130.00	131.50	1.50	0.01		
		-up to 5% quartz-carbonate stringers and irregular masses	29700	131.50	133.00	1.50	0.05		
			29701	133.00	134.50	1.50	0.01		
		- 2-3% pyrite, elongate clots of fine pyrite in shear planes; trace chalcopyrite	29702	134.50	136.00	1.50	0.01		
			29703	136.00	137.50	1.50	nil		
		- 125.70m: 15 cm of 50% quartz and carbonate in sericite volcanic, 5% fine pyrite	29704	137.50	139.00	1.50	nil		
			29705	139.00	140.50	1.50	0.01		
		- 126.15m: 0.5cm wide lens of disseminated fine pyrite in shear plane	29706	140.50	142.00	1.50	0.01		
			29707	142.00	143.50	1.50	nil		
		- 126.95m: 2cm of 25% pyrite in fine cubes	29708	143.50	145.00	1.50	0.01		
		- 131.58m: 0.5cm wide lens of 25% pyrite and chalcopyrite	29709	145.00	146.50	1.50	nil		
			29710	146.50	148.00	1.50	nil		
		- 131.80m: several fine pyrite lenses	29711	148.00	149.50	1.50	nil		
		- 131.85m: 15cm 60% pyrite and 2% chalcopyrite in quartz-carbonate stringers and wallrock; 8% pyrite in following 10cm	29712	149.50	151.20	1.70	0.01		
		-rusty brown weathering on core and fracture faces throughout							
		- 136.75-137.10m: rusty crumbled and ground core; fault?							
139.80	151.20	<b>Interflow to Felsic Volcanic</b>							
		-light green							
		-fine grained, with some medium grained sections							
		-foliation/shear, strong: 45-55° to CA							
		-strong sericite alteration							
		-patchy carbonatization							
		- 10% quartz-carbonate irregular stringers and							

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
	151.20	<p>masses</p> <p>-minor pyrite, trace chalcopyrite</p> <p>- 139.25m: 10cm of 70% quartz-carbonate, 2-3% pyrite, trace chalcopyrite</p> <p>- 140.40m: 26cm of 60% quartz-carbonate, 2-3% pyrite in upper margin, trace chalcopyrite</p> <p>-rusty and crumbled core: 144.70-145.30m</p> <p><b>End of Hole</b></p> <p>Core stored at: Sangold Property, Keith Twp, Ont.</p>							

*Brenda MacKae*



42B01NW2004 2.19209 KEITH

040

SHEET 1

## DIAMOND DRILL CORE LOG

## Marshall Minerals Corp.

HOLE NO: 9804  
 PROPERTY: Sangold - Patricia Grid  
 TOWNSHIP: Keith Twp., Ontario  
 CLAIM NO: P.683688  
 CORE SIZE: NQ  
 CONTRACTOR: George Downing Estate Drilling Ltd.  
 LOGGED BY: Brenda MacRae, October 9, 1998

DIP TESTS - Tropari

DEPTH	AZIMUTH	DIP
50 M	82 deg.	-50 deg.
100 M	86 deg.	-48 deg.
146 M	91 deg.	-48 deg.

METRIC COORDINATES: 260N / 150W  
 DIP AT COLLAR: -50.5 degrees  
 AZIMUTH: 090 degrees  
 ELEVATION: Surface: 3045 m  
 STARTED: Sept. 13, 1998  
 FINISHED: Sept. 14, 1998

TOTAL DEPTH OF HOLE: 151.2 M

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
0	35.40	<b>Overburden</b> -clay, boulders							
35.40	44.50	<b>Mafic Volcanic</b> -medium dark green -fine grained -strong foliation: 25-30° to CA -moderately chloritic -strong carbonatization, vuggy weathered out sections at 35.40m and 43.50m - 10% irregular small carbonate masses and narrow stringers - 1% scattered isolated pyrite cubes to 0.5cm -crumbled weathered core: 35.40-37.30m and 43.80-44.30m; some rusty fractures to 71.00m							
44.50	58.35	<b>Sericite Altered Volcanic</b> -medium green to tan green -fine grained -strong foliation/shearing, variable, intensity increasing down hole: 30-60° to CA -strong carbonatization -strong sericite alteration - 10% carbonate and quartz-carbonate irregular, narrow stringers and threads, generally in direction of shear							

D.D.H. : 9804

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
58.35	66.65	- 2% overall pyrite as fine to 2mm cubes and narrow lenses; scattered isolated cubes, average size to 0.5cm noted to 49.30m, one 1.5cm cube at 45.85m							
		- 46.50m: minor bleaching around a 0.5cm quartz-carbonate							
		- 55.10-55.90m: 55% quartz and carbonate material in sericitic and chloritic altered volcanic; 3-5% pyrite, several chalcopyrite networks	29713	50.60	52.00	1.40	0.01		
		- 56.10-56.70m: mafic volcanic with 15% narrow quartz-carbonate stringers, 2-3% pyrite and chalcopyrite	29714	52.00	53.00	1.00	0.01		
		- 57.00-57.65m: 2.5cm wide quartz-carbonate stringer oriented down CA; trace -minor pyrite and chalcopyrite	29715	53.00	54.00	1.00	0.01		
		-occasional rusty core and rusty fractures to 67.00m	29716	54.00	55.00	1.00	0.18		
			29717	55.00	56.00	1.00	0.34		
			29718	56.00	57.00	1.00	0.12		
			29719	57.00	58.00	1.00	nil		
			29720	58.00	59.00	1.00	0.04		
			29721	59.00	60.00	1.00	0.90		
			29722	60.00	61.00	1.00	0.03		
		<b>Mafic Volcanic</b> -dark and medium green -fine grained -foliation/shearing, strong and variable: 25-55° to CA -strong sericite alteration, decreasing down hole -weak, patchy carbonatization, increasing down hole -up to 5% narrow quartz-carbonate stringers - 1-2% pyrite, fine disseminations and scattered cubes -trace chalcopyrite -rusty core: 64.10-64.70m							
66.65	85.05	<b>Mafic Volcanic</b> -dark green -medium grained							



METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
85.05	91.36	<p>-foliation, weak and variable, some kink banding, at start of unit; after 71.00m, strong: 45-50° to CA</p> <p>-possible light green, fine grained flow top rubble at 67.60-67.90m and 69.10m</p> <p>-moderate carbonatization</p> <p>-moderate sericite alteration, brown sericite flakes throughout</p> <p>- 1-5% narrow quartz-carbonate stringers</p> <p>-trace to minor pyrite; specks chalcopyrite</p> <p>-rusty core at 68.75m</p> <p><b>Sericite Altered Mafic Volcanic with Minor Quartz-Carbonate Veining</b></p> <p>-brown green to dark green</p> <p>-medium to fine grained</p> <p>-foliation, strong: 50° to CA, variable with some sheared sections at low angle to CA</p> <p>-strong to medium sericite alteration; sections of unit with strongest alteration are brown green</p> <p>-patchy carbonatization</p> <p>-minor bleach halos around 2 narrow carbonate stringers at 85.60m</p> <p>- 10-15% quartz-carbonate stringers and veins; 87.00-89.43m, 35% quartz-carbonate veins and stringers; 90.30-90.75m, 40% quartz-carbonate stringers</p> <p>-minor pyrite, local concentrations to 2%</p> <p>- 87.00-87.30m: irregular 3cm wide quartz-carbonate stringer oriented down hole, trace pyrite</p> <p>- 88.90-89.40m: 60% quartz-carbonate in sericite altered volcanic, 3-5% pyrite</p> <p>- 90.30-90.72m: three or four irregular quartz-carbonate stringers and masses, 25% quartz-carbonate, 3-5% pyrite</p>							
			29723	85.10	86.60	1.50	0.02		
			29724	86.60	87.50	0.90	0.04		
			29725	87.50	88.50	1.00	0.05		
			29726	88.50	89.60	1.10	0.59		
			29727	89.60	90.70	1.10	0.12		
			29728	90.70	91.80	1.10	nil		

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
91.36	101.80	<p>- 91.23-91.36m: 75% quartz-carbonate, trace sulphides, sericitic and chloritic inclusions</p> <p><b>Mafic Volcanic</b></p> <p>-massive at start of unit becoming banded as quartz carbonate increases; flow top? interflow?</p> <p>-medium grained to fine grained down hole</p> <p>-dark green to brown green</p> <p>-foliation, moderate: 48-68° to CA</p> <p>-patchy weak carbonatization</p> <p>-weak to moderate sericite alteration, increasing down hole</p> <p>- 91.36-96.30m: 1% narrow quartz-carbonate stringers</p> <p>- 96.30-101.80m: 5-8% quartz-carbonate stringers overall</p> <p>-trace to minor pyrite at start of unit increasing down hole; after 93.60m, 1-2mm wide lenses of disseminated pyrite cubes and 5-8% disseminated pyrite in quartz-carbonate masses and bands</p> <p>-trace chalcopyrite</p> <p>- after 96.30m, strong magnetism associated with fine magnetite crystals up to 15% in irregular quartz-carbonate masses and bands; calcareous quartz magnetite pyrite bands to 2cm wide occur individually and in groups, often folded masses</p> <p>- 99.80-100.00m: 15-20% calcite and quartz, 2% chalcopyrite, minor magnetite; strongly magnetic</p> <p>- 100.90-101.80m: 40-50% quartz-carbonate material as stringers and irregular masses; 10-20% pyrite, fine to cube 0.75cm wide; strongly magnetic, minor magnetite</p>							
			29729	99.40	100.80	1.40	0.01		
			29730	100.80	101.80	1.00	0.94		

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
101.80	113.80	<b>Mafic to Intermediate Volcanic</b> -brown grey green -fine to medium grained -gradual change in composition from previous unit; core becoming lighter coloured and more siliceous -foliation/shearing, strong, variable: average, 55° to CA, sometimes at low angle to CA -moderate sericite alteration -patchy carbonatization -10% quartz-carbonate stringers, decreasing down hole - 104.20-104.50m: irregular quartz-carbonate veinlet oriented partially down core axis, 40% quartz-carbonate, sericitic and chloritic inclusions, minor pyrite, trace chalcopyrite, slightly magnetic - 106.10-106.55m: 40% quartz-carbonate, minor pyrite -trace to minor pyrite, overall; trace chalcopyrite	29731	101.80	103.00	1.20	0.02		
			29732	103.00	104.00	1.00	nil		
			29733	104.00	105.00	1.00	nil		
			29734	105.00	106.00	1.00	0.02		
			29735	106.00	107.10	1.10	nil		
			29736	107.10	108.50	1.40	nil		
			29609	113.80	114.65	0.85	nil		
113.80	129.30	<b>Intermediate to Felsic Volcanic Flow</b> -grey to tan grey -fine grained -becoming increasingly felsic down hole -foliation/shear, strong: average 45° to CA, variable -strong sericite alteration -patchy weak to strong carbonatization - 118.50-119.03m: fine grained, beige, sericite altered, felsic dike with 2mm emerald green phenocrysts; sharp contacts: 10-15° to CA - 5-10% quartz and carbonate stringers/veins, decreasing down hole to 10-30cm wide containing 30 to 70% quartz carbonate material, trace to 2% pyrite, and trace chalcopyrite -rusty core from 129.10m to Fault Zone	29610	114.65	115.30	0.65	0.01		
			29611	115.30	116.60	1.30	nil		
			29612	116.60	117.70	1.10	0.01		
			29613	117.70	118.45	0.75	0.01		
			29614	118.45	119.30	0.85	0.01		
			29615	119.30	119.90	0.60	0.01		
			29616	119.90	120.90	1.00	0.01		
			29617	120.90	122.00	1.10	nil		
			29618	122.00	123.40	1.40	nil		
			29619	123.40	124.30	0.90	nil		
			29620	124.30	125.10	0.80	nil		
			29621	125.10	126.10	1.00	nil		
			29622	126.10	127.00	0.90	nil		
			29623	127.00	128.20	1.20	nil		
			29624	128.20	129.80	1.60	0.02		0.5m Lost Core

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
129.30	132.00	<b>Fault Zone</b> -rusty broken and blocky core -more consolidated pieces of core contain fault breccia fragments and strongly sheared volcanic rock							
132.00	151.20	<b>Intermediate to Felsic Volcanic</b> -as previous intermediate to Felsic unit -after 133.00m, core appears banded, tuff?	29625 29626 29627 29628 29629 29630 29631 29632 29633	132.70 133.70 134.35 135.10 136.00 136.80 137.80 138.50 139.10	133.70 134.35 135.10 136.00 136.80 137.80 138.50 139.10 140.50	1.00 0.65 0.75 0.90 0.80 1.00 0.70 0.60 1.40	nil nil nil nil nil nil nil nil nil		
	151.20	<b>End of Hole</b>  Core stored at: Sangold Property, Keith Twp, Ont.							

*Brenda Markie*



HOLE NO: 9805  
 PROPERTY: Sangold - Patricia Grid  
 TOWNSHIP: Keith Twp., Ontario  
 CLAIM NO: P.688519  
 CORE SIZE: NQ  
 CONTRACTOR: George Downing Estate Drilling Ltd.  
 LOGGED BY: Brenda MacRae, October 14, 1998

DIP TESTS - Tropari  

DEPTH	AZIMUTH	DIP
49.0 M	91 deg.	-48 deg.
97.8 M	95 deg.	-48 deg.

METRIC COORDINATES: 150N / 65W  
 DIP AT COLLAR: -49 degrees  
 AZIMUTH: 090 degrees  
 ELEVATION: Surface: 3045 m  
 STARTED: Sept. 22, 1998  
 FINISHED: Sept. 23, 1998

TOTAL DEPTH OF HOLE: 102.4 M

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
0	25.50	<b>Overburden</b> -clay and boulders							
25.50	40.20	<b>Intermediate Volcanic</b> -probable tuff units -narrowly banded and massive sections -dark and medium green to brown green -fine grained -foliation/shear, strong: variable direction, average 55° to CA, occasionally at very low angle to CA -strong sericite alteration -weak, patchy carbonatization - 5% irregular, grey quartz and minor carbonate veinlets and stringers, and sharp narrow carbonate stringers - 3-5% pyrite, trace chalcopyrite, overall; pyrite as fine grained lenses to scattered clots and cubes, locally concentrated to 10-15% pyrite over 10cm -quartz carbonate stringers, veinlets and masses to 6cm wide contain up to 5-10% pyrite and trace to minor chalcopyrite -rusty stained core and fractures throughout unit -broken and blocky core to 36.50m and at 40.90m	29737 29738 29739 29740 29741 29742 29743 29744 29745 29746 29747 29748	28.00 29.00 30.00 31.00 32.00 33.00 34.00 35.00 36.00 37.00 38.00 39.00	29.00 30.00 31.00 32.00 33.00 34.00 35.00 36.00 37.00 38.00 39.00 39.90	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.90	nil nil nil 0.01 nil 0.05 nil 0.03 0.01 0.17 nil 0.01		

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
40.20	46.95	<b>Intermediate Volcanic</b> -more massive than above unit -dark green and medium green to brown green -fine grained -foliation/shear, strong: 30-35° to CA; 44.00m to end of unit, at very low angle to CA, core breaks easily along shear planes -strong sericite alteration -weak patchy carbonatization -overall, less than 1% quartz and carbonate stringers -minor pyrite, occasional large fine grained pyrite clots to 1cm -rusty core and fractures: 42.70-43.20m -blocky core: 42.80m							
46.95	52.35	<b>Quartz and Carbonate Zone</b> -30-40% irregular grey quartz and cream carbonate vein(s) and stringers apparently oriented at very low angle to CA -in sericite altered intermediate volcanic -generally, to 2-3% pyrite; 49.80-51.00m, 10% pyrite -minor chalcopyrite -rusty fracture: 47.10m -rusty core: 52.70-52.90m	29749 29750 29851 29852 29853 29854 29855 29856 29857	44.00 45.00 46.00 47.00 48.00 49.00 50.00 51.00 52.20	45.00 46.00 47.00 48.00 49.00 50.00 51.00 52.20 53.15	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.20 0.95	nil 0.01 nil nil 0.02 4.60 1.16 0.17 0.01		
52.35	88.30	<b>Intermediate Volcanic</b> -return to massive looking, sericite altered intermediate volcanic which appears to become more felsic down hole -foliation, strong: 10-20° to CA - 67.70 to about 69.00m: felsic dike, very fine grained, pink-brown colour	29858	59.40	59.90	0.50	nil		

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS	
FROM	TO									
88.30	102.40	- 69.40-69.75m: felsic dike as above, 8-10% pyrite	29859	66.00	67.20	1.20	nil			
		- 76.20m: narrow bleached halo around carbonate stringer	29860	67.20	67.80	0.60	nil			
			29861	67.80	68.90	1.10	0.01			
		-about 10% quartz-carbonate veinlets, stringers, masses oriented from 45° to CA to very low angle to CA; dark grey quartz	29862	68.90	70.00	1.10	nil			
			29863	70.00	71.00	1.00	nil			
			29864	71.00	72.10	1.10	nil			
		- 1-2% pyrite at start of unit; between 64.00m and 67.20m, 3-4% pyrite	29865	78.00	79.20	1.20	nil			
		- 67.20m: 58cm of 35% quartz-carbonate, minor pyrite	29866	79.20	80.50	1.30	nil			
		- 69.75-71.90m: 30% quartz-carbonate, 2-5% pyrite								
		- 79.10-79.80m: 50% dark grey quartz-carbonate material, 3-5% pyrite								
		- 80.40m: 15cm of 35-40% quartz-carbonate with 5-10% pyrite								
		-rusty brown core: 70.40-70.70m								
		<b>Felsic Flows</b>								
		-massive								
-light green brown to medium green brown										
-fine and medium grained										
-sharp contacts noted at 82.25m, 15° to CA										
83.65m, 15° to CA										
94.70m, 10° to CA										
-foliation: 13° to CA										
-weak to moderate sericite alteration										
-patchy carbonatization										
- 87.40m: narrow bleached halo surrounding a carbonate stringer										
- 88.90-93.10m: 2-4% irregular fine grained greyish black lenses of hard material; lenses contain 1mm										
-calcite grains, 2% pyrite and minor chalcopryrite; often oriented in foliation or flow direction										
-generally, minor pyrite in disseminated cubes and										

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
	102.40	clots to 1.5cm x 0.5cm - 94.00m to end of hole: appearance of vague breccia fragments, possible flow tops? 2% sulphide - 100.00m: 10-15cm irregular, grey quartz and carbonate veinlet with trace fine sulphides -rusty fracture at 98.55m  <b>End of Hole</b>  Core stored at: Sangold Property, Keith Twp, Ont.							

*Brenda MacRae*





42B01NW2004

2.19209

KEITH

060

SHEET 1

## DIAMOND DRILL CORE LOG

## Marshall Minerals Corp.

HOLE NO: 9806  
 PROPERTY: Sangold - Patricia Grid  
 TOWNSHIP: Keith Twp., Ontario  
 CLAIM NO: P.688519  
 CORE SIZE: NQ  
 CONTRACTOR: George Downing Estate Drilling Ltd.  
 LOGGED BY: Brenda MacRae, October 20, 1998

DIP TESTS - Tropari  

DEPTH	AZIMUTH	DIP
49.5 M	110 deg.	-50 deg.
92.0 M	99 deg.	-49 deg.
141.0 M	93 deg.	-48 deg.

METRIC COORDINATES: 180N / 120W  
 DIP AT COLLAR: -50.5 degrees  
 AZIMUTH: 090 degrees  
 ELEVATION: Surface: 3045m  
 STARTED: Sept. 24, 1998  
 FINISHED: Sept. 26, 1998

TOTAL DEPTH OF HOLE: 146.75 M

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
0	20.50	<b>Overburden</b> -clay and boulders							
20.50	46.75	<b>Mafic Volcanic</b> -dark green -fine grained, medium grained sections at end of unit -strongly foliated, some sheared sections: 30-40° to CA -strong carbonatization -moderate sericite alteration, strongly altered sections after 40.00m -up to 5% narrow quartz and carbonate stringers and threads overall; 28.40-32.10m: 40-50% quartz and carbonate material in crumbling, broken core, about 5-10% pyrite -trace to minor pyrite overall -magnetite mineralization: 0.5cm magnetite and calcite stringer at 26.40m; several 2-3mm stringers near 34.00m; patchy magnetism between 37.30m and 38.70m; fine grey magnetite crystals in narrow quartz-carbonate stringer at 38.60m -blocky, broken core to 47.00m including extensively crumbled rock and rubble sections -rusty fracture, 46.20m	29873 29874 29875 29876 29877 29878 29879 29880	26.20 27.70 29.20 31.00 32.00 33.00 34.40 35.60	27.70 29.20 30.00 32.00 33.00 34.40 35.60 36.90	1.50 1.50 0.80 1.00 1.00 1.40 1.20 1.30	0.03 0.06 0.82 0.05 0.01 nil nil 0.01		

D.D.H. : 9806

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
46.75	111.50	<p><b>Sericite Altered Pillowed Mafic Volcanic</b></p> <p>-gradual transition from previous unit</p> <p>-rusty fracture, 46.95m</p> <p><u>46.75-48.75m</u>: Flow contact material</p> <p>-dark to medium green</p> <p>-foliation/shear: variable, 40-90° to CA</p> <p>- 25% irregular, narrow quartz and quartz-carbonate stringers</p> <p>- 10-15% pyrite in stringers and as narrow lenses, several 1-2mm, lenses contain over 25% pyrite</p> <p>- minor chalcopyrite</p> <p>- 46.75m: 13cm grey quartz carbonate veinlet with 65% quartz-carbonate in chloritic and sericitic volcanic, 1% pyrite</p> <p><u>48.75-56.08m</u>: Mafic volcanic with some pillows</p> <p>-pillows, 10-15cm wide</p> <p>-several distinct pillow selvages</p> <p>-selvages are about 1-2cm wide, dark green, fine grained with light coloured felsic interpillow material</p> <p>-centers are fine grained, sericite altered, brown green</p> <p>-possible amygdules, 4-5mm diameter, pale green ovals seen near selvages of larger pillows</p> <p>-moderate carbonatization</p> <p>-foliation/shearing: 45-55° to CA</p> <p>-up to 5% narrow quartz-carbonate stringers</p> <p>-minor pyrite</p> <p>- 55.00m: 7cm bleached core</p> <p>-minor pyrite locally concentrated in interpillow material</p> <p><u>56.08-56.65m</u>: Siliceous alteration zone</p> <p>- 80% light beige, banded hard siliceous material</p> <p>- 20% chloritic dark green</p>	29881	45.00	46.00	1.00	nil		
			29882	46.00	46.50	0.50	nil		
			29883	46.50	47.50	1.00	0.01		
			29884	47.50	48.50	1.00	0.01		

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
		-strong shearing: 45° to CA -sharp upper and lower contacts, 45° to CA -minor pyrite <u>56.65-65.40m</u> : Pillowed mafic volcanic -resembles 48.75-56.08m, at start of this sub-unit, no amygdules visible -pillows becoming more compressed - 5-10% irregular, quartz-carbonate stringers to 2cm wide -trace pyrite -blocky, broken core; 10cm ground core at 63.40m <u>65.40-66.90m</u> : Mafic flow contact -sheared: 50° to CA, -carbonate threads and bands, small felsic masses to 1cm wide -moderate to strong sericite alteration - 2-3% quartz-carbonate stringers -minor pyrite <u>66.90-87.20m</u> : Sheared pillows, as 56.65-65.40m -shearing: 30-90° to CA -brecciated sections; inter pillow material; rounded, 5-7cm wide fragments of siliceous material similar to that noted at 56.06m are distinct at 73.20m and 82.80m -sericite alteration is increasing -weak patchy carbonatization -frequent bleached core sections to 5cm wide -several 2-4cm wide irregular quartz-carbonate stringers -minor pyrite - 78.45m: 45cm of 75% quartz and carbonate material, trace pyrite - 79.50m: 45cm of sheared grey siliceous material							
			29634	76.00	77.00	1.00	nil		
			29635	77.00	77.60	0.60	nil		
			29636	77.60	78.40	0.80	0.01		
			29637	78.40	79.10	0.70	nil		
			29885	79.10	79.80	0.70	nil		
			29886	79.80	81.10	1.30	nil		
			29887	81.10	82.20	1.10	nil		

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
		with 5-10% mafic volcanic as at 56.06m							
		- 80.22m: 10cm of 50% quartz and carbonate, trace pyrite and chalcopyrite	29638	84.50	85.50	1.00	nil		
		-pillow centers in the last meter of this unit contain fine grained pyrite clots to 0.5cm wide	29639	85.50	86.50	1.00	nil		
		<u>87.20-100.45m</u> : Bleached mafic volcanic pillows	29640	86.50	87.60	1.10	nil		
		-pillow centers, at start of unit, are light, olive green	29641	87.60	88.10	0.50	nil		
		gradually becoming pink-tan coloured in proximity to upper and lower margins of the highly siliceous alteration zone, 100.45-102.55m	29642	88.10	89.00	0.90	nil		
		-pillow are from 10cm to 35cm wide	29643	89.00	90.00	1.00	0.01		
		-pillows commonly contain 1-5mm clots of fine pyrite	29644	90.00	91.00	1.00	nil		
		-strong sericite alteration	29645	95.30	96.30	1.00	nil		
		- 5-10% irregular quartz and carbonate stringers	29646	96.30	97.30	1.00	nil		
		- 1-2% pyrite overall	29647	97.30	98.30	1.00	nil		
		<u>100.45-102.55m</u> : Highly silicified zone							
		-core is tan grey, fine grained, moderately hard							
		-clots of fine grained pyrite, as above, are present							
		-some sericite alteration							
		- 2-3% quartz-carbonate narrow stringers							
		<u>102.55-111.55m</u> : Bleached mafic volcanic pillows							
		-as 87.20-100.45m							
		-three irregular 10cm wide quartz-carbonate veinlets near 105.50m, nil to trace pyrite							
		-occasional isolated large pyrite cubes after 109.00m; largest, at 109.70m, 2cm x 2 cm; average about 4mm	29888	110.50	111.40	0.90	nil		
			29889	111.40	112.40	1.00	nil		
			29890	112.40	113.30	0.90	nil		
111.50	113.85	<b>Grey Dike</b>	29891	113.30	113.80	0.50	0.04		
		-mafic?	29892	113.80	114.50	0.70	0.01		
		-mottled grey							
		-medium grained							
		-moderately hard							

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
113.85	116.00	<p>-upper contact, sharp, 55° to CA; irregular lower contact - 2-5% pyrite as scattered cubes, concentrated in dike center</p> <p><b>Sericite Altered Mafic Volcanic</b> -as 102.50-111.50m -foliation/shear: 60° to CA -slightly bleached -sericite altered - 1% quartz-carbonate stringers - 10-15% overall pyrite as fine grained clots in pillows, isolated cubes, and in lenses to 2cm wide oriented in foliation direction; 114.00-114.60m: about 20% pyrite</p>							
116.00	117.25	<p><b>Dike</b> -fine grained, cream grey with mafic clots to 2mm -lower contact, sharp: 60° CA; upper contact, sharp but fractured</p>							
117.25	121.30	<p><b>Mafic to Intermediate Volcanic-Pillowed?</b> -vague pillows? -greenish yellow colour, fine to medium grained in the pillows? to more massive, finer grained, brown green by end of unit -after 119.00m: fine grained black irregular bands (1mm) to masses (4-5mm); may contain 2-4% pyrite -less than 1% quartz-carbonate stringers -10cm of sheared, broken core at 119.00m</p>							
121.30	146.75	<p><b>Sherared Sericite Altered Mafic to Intermediate Volcanic</b> -green yellow</p>							

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
		-fine grained	29648	120.00	121.00	1.00	nil		0.50m Lost Core
		-shearing: 55° to CA, variable	29649	121.00	122.00	1.00	nil		
		-core becoming more siliceous down hole	29650	122.00	123.10	1.10	nil		
		-strong sericite alteration	29901	123.10	124.00	0.90	nil		
		- 10-15% quartz carbonate and carbonate stringers, often with local concentrations of 10% pyrite and chalcopyrite	29902	124.00	125.00	1.00	nil		
			29903	125.00	126.00	1.00	nil		
			29904	126.00	127.00	1.00	nil		
		- 2-5% pyrite and chalcopyrite, over all, as fine disseminations, lenses, blebs; local concentrations to 20% at 128.00-128.20m	29905	127.00	128.00	1.00	nil		
			29906	128.00	129.00	1.00	nil		
			29907	129.00	130.00	1.00	nil		
		- 128.00-130.00m and 130.50-131.40m: 5% 4-5mm grey-white siliceous blebs with and without calcite and pyrite	29908	130.00	131.00	1.00	nil		
			29909	131.00	132.00	1.00	0.01		
			29910	132.00	133.00	1.00	nil		
			29911	133.00	134.00	1.00	nil		
			29912	134.00	135.00	1.00	nil		
			29913	135.00	136.00	1.00	nil		
			29914	136.00	137.00	1.00	nil		
			29915	137.00	138.00	1.00	nil		
			29916	138.00	139.00	1.00	nil		
			29917	139.00	140.00	1.00	nil		
			29918	140.00	141.00	1.00	nil		
			29919	141.00	142.00	1.00	nil		
			29920	142.00	143.00	1.00	nil		
			29921	143.00	144.00	1.00	nil		
			29922	144.00	145.00	1.00	nil		
			29923	145.00	146.00	1.00	nil		
			29924	146.00	146.70	0.70	nil		
	146.75	<b>End of Hole</b>							
		Core stored at: Sangold Property, Keith Twp, Ont.							
		<i>Brenda MacRae</i>							

## DIAMOND DRILL CORE LOG

Marshall Minerals Corp.



42B01NW2004

2.19209

KEITH

070

SHEET 1

HOLE NO: 9807  
 PROPERTY: Sangold - Patricia Grid  
 TOWNSHIP: Keith Twp., Ontario  
 CLAIM NO: P.683688  
 CORE SIZE: NQ  
 CONTRACTOR: George Downing Estate Drilling Ltd.  
 LOGGED BY: Brenda MacRae, October 22, 1998

DIP TESTS - Tropari  

DEPTH	AZIMUTH	DIP
49.0 M	90 deg.	-60 deg.
103.0 M	93 deg.	-60 deg.
164.9 M	98 deg.	-58 deg.

METRIC COORDINATES: 235N / 158W  
 DIP AT COLLAR: -60.5 degrees  
 AZIMUTH: 88 degrees  
 ELEVATION: Surface: 3045m  
 STARTED: Sept. 26, 1998  
 FINISHED: Sept. 28, 1998

TOTAL DEPTH OF HOLE: 170.7 M

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
0	32.60	<b>Overburden</b> -clay and boulders							
32.60	50.85	<b>Mafic Volcanic</b> -medium green -medium grained -foliation, moderate: 48° to CA -strong carbonatization - 25% irregular calcite threads, stringers, and masses; occasional vuggy weathering -weak patchy sericite alteration -isolated, medium to large pyrite crystals to 1.25cm; minor pyrite overall -at 32.90m: 0.6m, mafic dike, occasional narrow quartz-carbonate stringer -at 41.70m: 0.15m, grey dike -gradual contact with following unit							
50.85	84.30	<b>Mafic Volcanic Flow Contact</b> -dark to medium green -fine to medium grained -sections of laminations and fragments -strong shear/foliation: 45-60° to CA; locally very strong, variable with kink banding at 72.00m -weak, patchy sericite alteration, at top; increasing							

D.D.H. : 9807

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
		down hole, strong by 69.00m where core is yellowish dark to medium green	29925	62.00	63.00	1.00	0.02		
		-strong carbonatization	29926	63.00	64.00	1.00	1.54		
		- 15-20% irregular grey-white calcite threads, stringers, and small masses	29927	64.00	64.50	0.50	0.83		
		- 10-15cm of vaguely banded fine grained calcareous lense near 52.40m	29928	64.50	65.00	0.50	0.03		
		-less than 5% quartz-carbonate stringers to 63.00m	29929	65.00	66.00	1.00	0.01		
		-minor pyrite, trace chalcopyrite	29930	66.00	67.00	1.00	nil		
		- 2-3% pyrite associated with narrow quartz-carbonate stringers at 52.60m and 59.10m	29931	67.00	68.00	1.00	0.01		
		-after 63.00m, 10% quartz-carbonate with minor pyrite and chalcopyrite associated	29932	68.00	69.00	1.00	0.01		
		- 63.10-64.45m: 65% quartz-carbonate; includes two quartz-carbonate veins, 20cm and 25cm wide; remainder is thickly laminated quartz-carbonate material in sericite altered mafic volcanic; 2-5% pyrite overall	29933	69.00	70.00	1.00	0.01		
		- 70.30m: 0.5m, 20% irregular, narrow quartz-carbonate and carbonate stringers in fine grained mafic volcanic with 5% pyrite; several pyrite cubes about 1cm wide	29934	70.00	71.00	1.00	0.02		
		-73.20-74.00m: several 10-20cm wide sections similar to above at 70.30m with 10% pyrite	29935	71.00	72.00	1.00	nil		
		-74.00-77.25m: silicified zone, buff brown colour; 25% quartz stringer; 2-5% scattered fine pyrite; minor magnetite	29936	72.00	73.00	1.00	nil		
		-77.25m: 20cm, as above at 73.20m	29937	73.00	73.80	0.80	0.02		
		-at 84.10m, near contact with next unit, deformed buff, calcareous lenses with 1-2% pyrite and magnetite	29938	73.80	75.00	1.20	0.23		
		-rusty fractures: 66.40m, 72.30m, 65.40m	29939	75.00	76.00	1.00	0.02		
			29940	76.00	77.00	1.00	0.12		
			29941	77.00	78.00	1.00	0.04		
			29942	78.00	79.00	1.00	0.01		
			29943	79.00	80.00	1.00	0.01		
			29944	80.00	81.00	1.00	nil		
			29945	81.00	82.00	1.00	0.01		
			29946	82.00	83.00	1.00	0.18		
			29947	83.00	84.00	1.00	nil		
			29948	84.00	85.00	1.00	0.01		



METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
84.30	93.50	<p><b>Pillowed Mafic Volcanic</b></p> <ul style="list-style-type: none"> <li>-transitional contact</li> <li>- 10cm wide, buff, calcareous lenses with 4-5% magnetite, 1-2% pyrite; several lenses are strongly deformed</li> <li>-deformed pillows by 85.70m, with light green centers and vague dark green selvages; fine to medium grained; a few pillows containing 5-8mm diameter cream carbonate amygdules</li> <li>-shearing, moderate: 45-55° to CA, variable</li> <li>- 10% carbonate and carbonate-quartz stringers, generally irregular and narrow</li> <li>-92.50-93.00m: laminated section similar to those in previous unit; at 92.60m, 20cm of 5-10% pyrite with fine grained magnetite crystals</li> <li>-rusty fractures: 88.20m</li> </ul>							
93.50	101.70	<p><b>Mafic Volcanic-15% Quartz Carbonate</b></p> <ul style="list-style-type: none"> <li>-dark to medium green volcanic</li> <li>-medium to fine grained</li> <li>-possible pillows</li> <li>-transitional contact with previous unit</li> <li>-strong variable shearing, orientation occasionally down the CA</li> <li>-15% narrow quartz-carbonate stringers and veinlets to 10cm wide; occasional black tourmaline</li> <li>- 2% overall pyrite, local magnetite</li> <li>- 96.50-99.30m: 50-60% quartz-carbonate with sericite; increasing to 65% at 97.75-99.30m</li> <li>99.80m: 1cm wide calcite stringer with 3-4% pyrite and magnetite</li> <li>-101.51m: 20cm, 75% quartz-carbonate, 5-10% pyrite</li> </ul>							
			29949	96.30	97.30	1.00	0.16		
			29950	97.30	98.30	1.00	0.36		
			29951	98.30	99.40	1.10	0.23		
			29952	99.40	100.40	1.00	nil		
			29953	100.40	101.40	1.00	0.57		

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
101.70	123.70	<b>Mafic Volcanic with Fault Zone</b> -dark green -fine to medium grained -possible pillows after 117.00m -foliation: 40° to CA -chloritic -weak to moderate sericite alteration -Fault Zone: 106.20-107.20m, rubble within rusty broken core section, 105.90-107.20m -up to 5% quartz-carbonate stringers -trace to 1% pyrite overall, higher local concentrations -trace chalcopyrite; local 5mm networks -a large 4cm wide pyrite "knot" associated with an irregular quartz-carbonate stringer at 102.20m - 107.45-108.85m: 30-35% quartz-carbonate in stringer oriented down the CA, minor pyrite and chalcopyrite - 108.30-108.75m: 25% quartz-carbonate, minor pyrite, trace chalcopyrite - 114.40m: 1.5cm calcareous buff and white lens, 10% magnetite, 2% pyrite - 114.48m: narrow calcite lens, minor chalcopyrite and pyrite	29954	101.40	102.40	1.00	0.03		0.6m of Lost Core
			29955	102.40	103.40	1.00	0.83		
			29956	103.40	104.40	1.00	0.01		
			29957	104.40	105.40	1.00	nil		
			29958	105.40	106.10	0.70	0.01		
			29959	106.10	108.00	1.90	0.02		
			29960	108.00	109.00	1.00	0.01		
			29961	109.00	110.00	1.00	0.01		
123.70	144.20	<b>Pillowed Mafic Volcanic</b> -transitional contact with previous unit -vague pillows at start of unit and elsewhere; dark green selvages; buff green centers; possible sheared 5mm amygdules at 133.90m and 135.90m -medium green, dark green, buff green -strong shear/foliation, variable directions -moderate sericite alteration - 10-15% quartz-carbonate overall; often at low	29962	125.50	126.50	1.00	0.02		
			29963	126.50	127.50	1.00	0.01		
			29964	127.50	128.50	1.00	0.02		
			29965	128.50	129.50	1.00	0.04		
			29966	129.50	130.50	1.00	nil		
			29967	130.50	131.50	1.00	0.01		
			29968	131.50	132.50	1.00	0.13		
			29969	132.50	133.50	1.00	0.07		
			29970	133.50	134.50	1.00	0.07		

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
144.20	160.70	angle to CA	29971	134.50	135.50	1.00	0.01		
		- 2-4% fine pyrite overall; 2-5% concentrated in inter pillow material; in quartz-carbonate stringers and masses, local concentrations are generally less than 5% but as high as 10-25%	29972	135.50	136.50	1.00	0.63		
		-trace chalcopyrite	29973	136.50	137.50	1.00	0.04		
		-137.25-138.75m: 60% quartz-carbonate as one 40cm vein and several stringers, minor pyrite and chalcopyrite	29974	137.50	138.00	0.50	0.03		
		- 146.00m: 1 to 4cm wide pyrite lens in a narrow irregular quartz-carbonate stringer	29975	138.00	139.00	1.00	0.01		
		-strongly sheared and broken core: 131.25-131.80m	29976	139.00	139.80	0.80	0.06		
		<b>Pillowed Mafic Volcanic</b>	29977	145.00	145.80	0.80	0.02		
		-15 to 25cm wide pillows with dark green selvages; sheared inter pillow material, kink banding	29978	145.80	146.30	0.50	0.03		
		-medium green becoming grey buff green down hole	29979	146.30	147.20	0.90	0.01		
		-medium grained at start of unit becoming fine grained	29980	147.20	147.70	0.50	0.03		
		-strong foliation/shearing: 40-70° to CA	29981	147.70	148.70	1.00	0.02		
		-sericite alteration becoming strong down hole	29982	148.70	149.70	1.00	0.01		
		-patchy carbonatization	29983	149.70	150.70	1.00	nil		
		-5% quartz-carbonate stringers, most with trace or no sulphides	29984	150.70	151.70	1.00	0.01		
		-minor pyrite, trace chalcopyrite	29985	151.70	152.30	0.60	0.01		
		- 147.00m: 1-2cm wide quartz-carbonate stringer with 20% pyrite, 2-3% chalcopyrite							
		- 147.25-147.75m: 35% quartz-carbonate material, 1-2% pyrite, trace chalcopyrite							
- 148.10m: narrow quartz-carbonate stringer down CA, 5% pyrite									

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH (m)	AU (g/t)		COMMENTS
FROM	TO								
160.70	170.70	<b>Mafic-Intermediate Volcanic Transition Zone</b> -mafic volcanic similar to above unit intermixed with distinctly greyer, buff coloured, medium grained, siliceous intermediate rock -shear/foiliation: 30-40° to CA -strong sericite alteration, no carbonatization - 5-10% quartz-carbonate, irregular stringers and masses 10-20cm wide; occasional tourmaline -minor pyrite, trace chalcopyrite	29986	162.00	163.00	1.00	0.01		
			29987	163.00	164.00	1.00	nil		
			29988	164.00	165.00	1.00	nil		
			29989	165.00	166.00	1.00	nil		
			29990	166.00	167.00	1.00	0.01		
			29991	167.00	168.00	1.00	nil		
			29992	168.00	169.00	1.00	nil		
			29993	169.00	170.00	1.00	0.01		
			29994	170.00	170.70	0.70	nil		
	170.70	<b>End of Hole</b>							
		Core stored at: Sangold Property, Keith Twp, Ont.							

*Brenda MacLure*

**Declaration of Assessment Work Performed on Mining Land**

Transaction Number (office use)  
 W9960.00058  
 Assessment Files Research Imaging



42B01NW2004 2.19209 KEITH

900

in 65(2) and 66(3), R.S.O. 1990

of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the assessment work and correspond with the mining land holder. Questions about this form should be directed to the Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, L4R 1A1.

Claim, use form 0240.

**2.19209**

**1. Recorded holder(s)** (Attach a list if necessary)

Name	Marshall Minerals Corp.	Client Number	165000
Address	PO Box 356, 4776 Bridge St. Niagara Falls, ON L2E 6T8	Telephone Number	1-(905)-356-9112
Name		Fax Number	1-(905)-356-0098
Address		Client Number	
		Telephone Number	
		Fax Number	

**2. Type of work performed:** Check (✓) and report on only ONE of the following groups for this declaration.

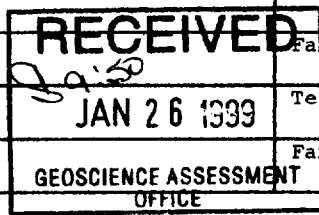
- Geotechnical: prospecting, surveys, assays and work under section 18 (regs)       Physical: drilling stripping, trenching and associated assays       Rehabilitation

Work Type	Diamond Drilling	Office Use	
		Commodity	Gold
		Total \$ Value of Work Claimed	\$78,087
Dates Work Performed	From 01 09 1998 To 28 09 1998	NTS Reference	42 B/1
Global Positioning System Data (if available)	Township/Area Keith Township	Mining Division	Porcupine
	M or G-Plan Number G-3238	Resident Geologist District	Timmins

- Please remember to:
- obtain a work permit from the Ministry of Natural Resources as required;
  - provide proper notice to surface rights holders before starting work;
  - complete and attach a Statement of Costs, form 0212;
  - provide a map showing contiguous mining lands that are linked for assigning work;
  - include two copies of your technical report.

**3. Person or companies who prepared the technical report** (Attach a list if necessary)

Name	William MacRae Geological Services	Telephone Number	1-(905)-267-3081
Address	P.O. Box 417, Timmins, Ontario P4N 7E3	Fax Number	1-(905)-267-3081
Name		Telephone Number	
Address		Fax Number	
Name		Telephone Number	
Address		Fax Number	



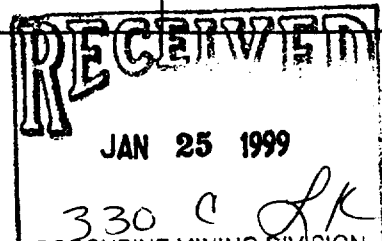
**4. Certification by Recorded Holder or Agent**

I, William MacRae, do hereby certify that I have personal knowledge of the facts set forth in

(Print Name)

this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent	<i>William MacRae</i>	Date	Jan 25, 1999
Agent's Address	P.O. BOX 417, Timmins, Ontario, P4N 7E3	Telephone Number	1-(705)-267-3081
		Fax Number	1-(705)-267-3081



April 25/99



5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number, or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
1 P.752148	1	\$ 24, <sup>207</sup> / <del>323</del> <sup>um</sup>			\$ 24, <sup>207</sup> / <del>323</del> <sup>um</sup>
2 P.683688	1	\$ 35, <sup>139</sup> / <del>308</del> <sup>um</sup>			\$ 35, <sup>139</sup> / <del>308</del> <sup>um</sup>
3 P.688519	1	\$ 18, <sup>74</sup> / <del>831</del> <sup>um</sup>			\$ 18, <sup>74</sup> / <del>831</del> <sup>um</sup>
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
<b>Column Totals</b>		\$ 78, <sup>087</sup> / <del>452</del>			\$ 78, <sup>087</sup> / <del>452</del> <sup>um</sup>

I, William MacRae, do hereby certify that the above work credits are eligible under (Print Full Name) subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Record Holder or Agent Authorized in Writing [Signature] Date Jan 25, 1999

6. Instructions for cutting back credits that are not approved.

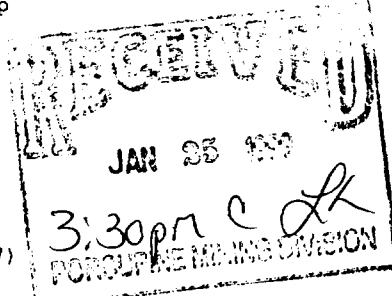
Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**RECEIVED**  
JAN 26 1999  
GEOSCIENCE ASSESSMENT OFFICE

**For Office Use Only**

Received Stamp 	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9846  
Fax: (877) 670-1555

March 29, 1999

MARSHALL MINERALS CORP.  
P.O. BOX 356  
4776 BRIDGE STREET  
NIAGARA FALLS, ONTARIO  
L2E-6T8

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm)

Dear Sir or Madam:

**Submission Number:** 2.19209

**Status**

**Subject: Transaction Number(s):** W9960.00058 Deemed Approval

---

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at [steve.beneteau@ndm.gov.on.ca](mailto:steve.beneteau@ndm.gov.on.ca) or by telephone at (705) 670-5855.

Yours sincerely,



ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section



# Work Report Assessment Results

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**Submission Number:** 2.19209

**Date Correspondence Sent:** March 29, 1999

**Assessor:** Steve Beneteau

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<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9960.00058	752148	KEITH	Deemed Approval	March 18, 1999

**Section:**  
16 Drilling PDRILL

**Correspondence to:**

Resident Geologist  
South Porcupine, ON

Assessment Files Library  
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**

W. MacRae  
TIMMINS, ONTARIO

MARSHALL MINERALS CORP.  
NIAGARA FALLS, ONTARIO

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**REFERENCE**

**AREAS WITHDRAWN FROM DISPOSITION**

Description	Order No.	Date	Disposition	File
M.R.O. - MINING RIGHTS ONLY				
S.R.O. - SURFACE RIGHTS ONLY				
M.+S. - MINING AND SURFACE RIGHTS				
①			S.R.O.	135263
②			S.R.O.	22417
③	SEC. 36/80	7/2/80	S.R.O.	188543
④	MNR OPERATIONS BASE	3/01/95	S.R.O.	LND. ROLE

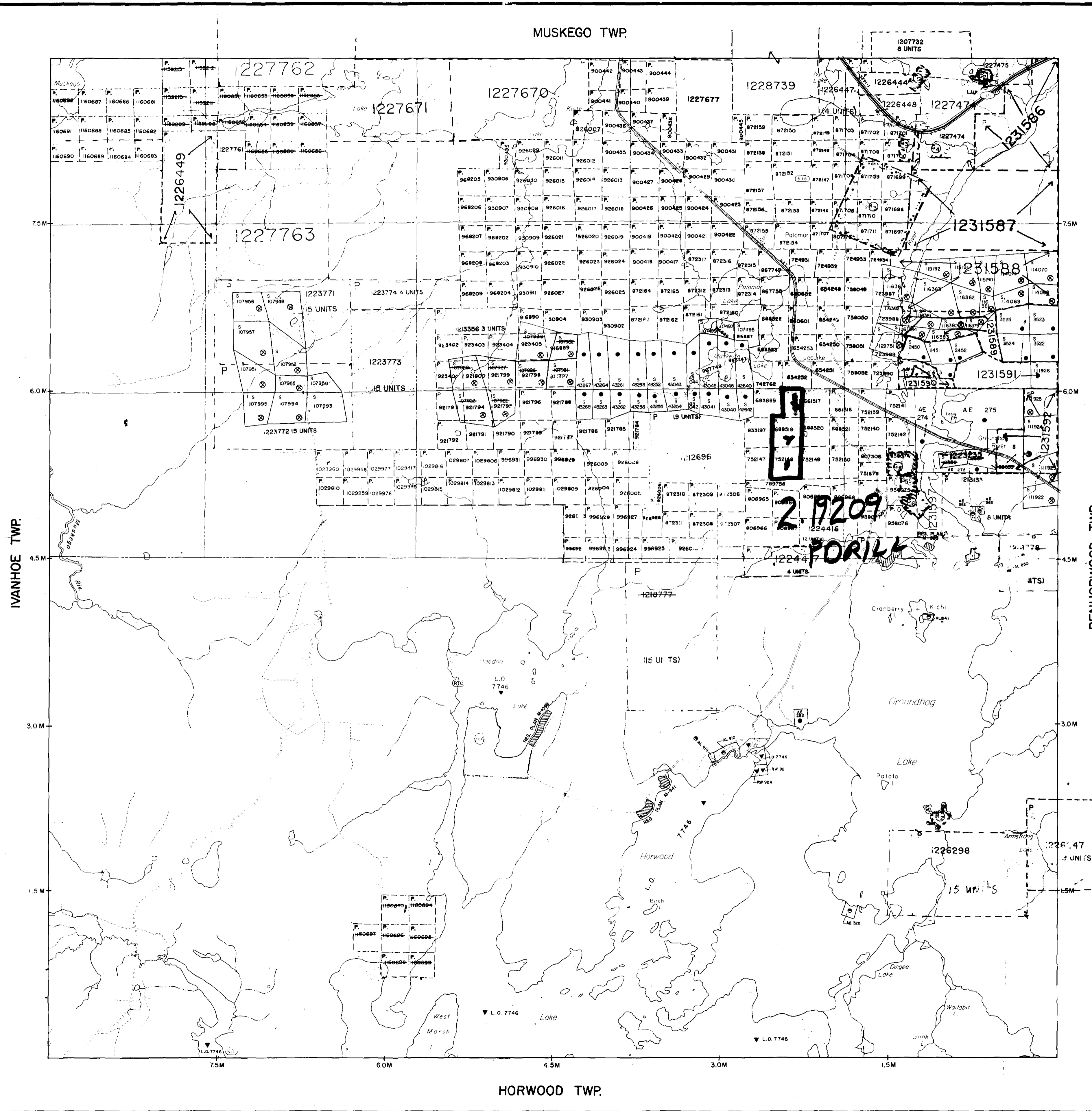
**SAND AND GRAVEL**

- ⑤ M.T.C. PIT
- ⑥ M.T.C. PIT 3A-5
- ⑦ M.T.C. PIT 3A-6
- ⑧ M.T.C. PIT 10B5
- ⑨ GRAVEL FILE 177587
- ⑩ M.N.R. PIT 3A-1 (M.O.E. WASTE DISP. 5'1")

SURVEY LINES SHOWN THIS ARE FOR CONTROL ONLY. CLAIMS CLASSIFIED AS BEING IN UNSUBDIVIDED TERRITORY. — March 7, 1947. Surveyor General

**FLOODING**  
Flooded areas on Hoodoo & Horwood Lakes and Groundhog R. to contour elev. 1117' L.O. 7746 File: 75166.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



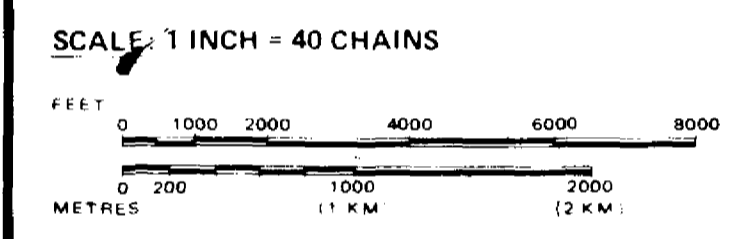
**LEGEND**

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

**DISPOSITION OF CROWN LANDS**

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS ...	●
... SURFACE RIGHTS ONLY	○
... MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
... SURFACE RIGHTS ONLY	■
... MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	OC
ORDER-IN-COUNCIL	OC
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○
LAND USE PERMIT	L.U.P.

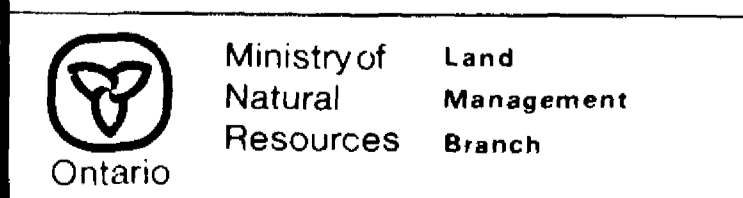
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1



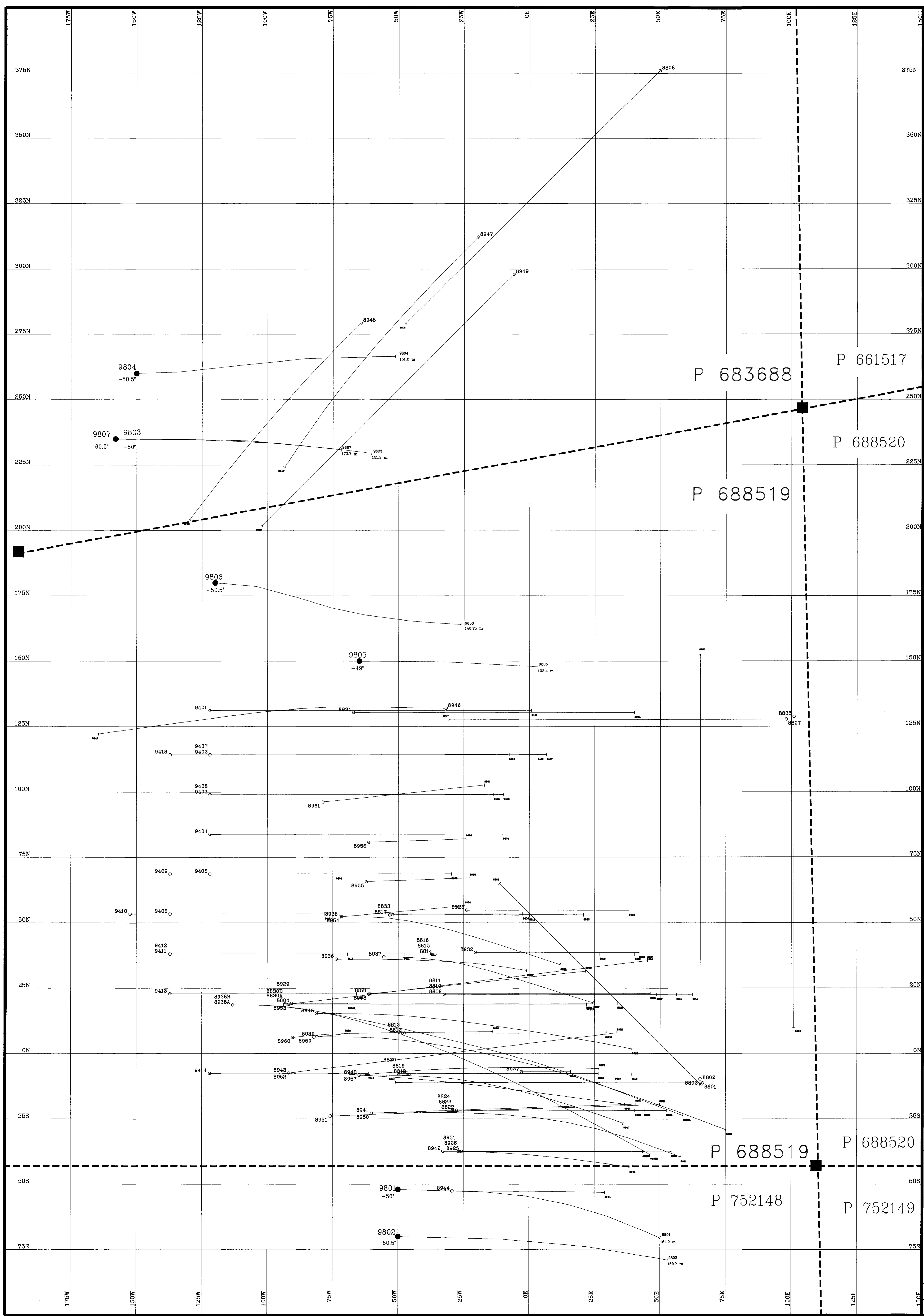
REMOTE TOURIST CAMPS

**DATE OF ISSUE**  
APR 20 1989  
PROVINCIAL RECORDING  
OFFICE - SUDBURY

**TOWNSHIP**  
**KEITH**  
M.N.R. ADMINISTRATIVE DISTRICT  
CHAPLEAU  
MINING DIVISION  
PORCUPINE  
LAND TITLES / REGISTRY DIVISION  
SUDBURY



Date: APRIL 1985  
Number: **G-3238**



Scale in Metres

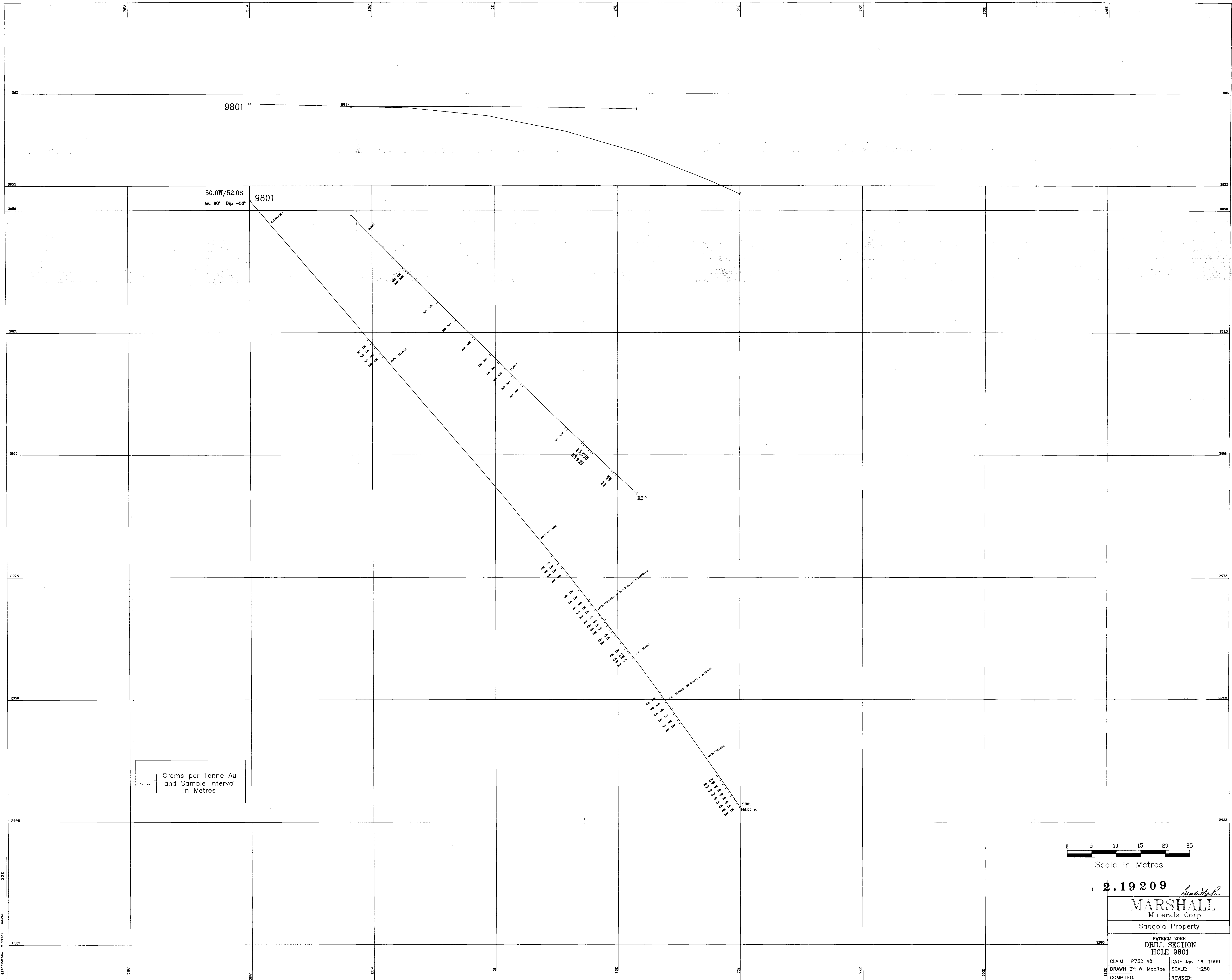
2.19209

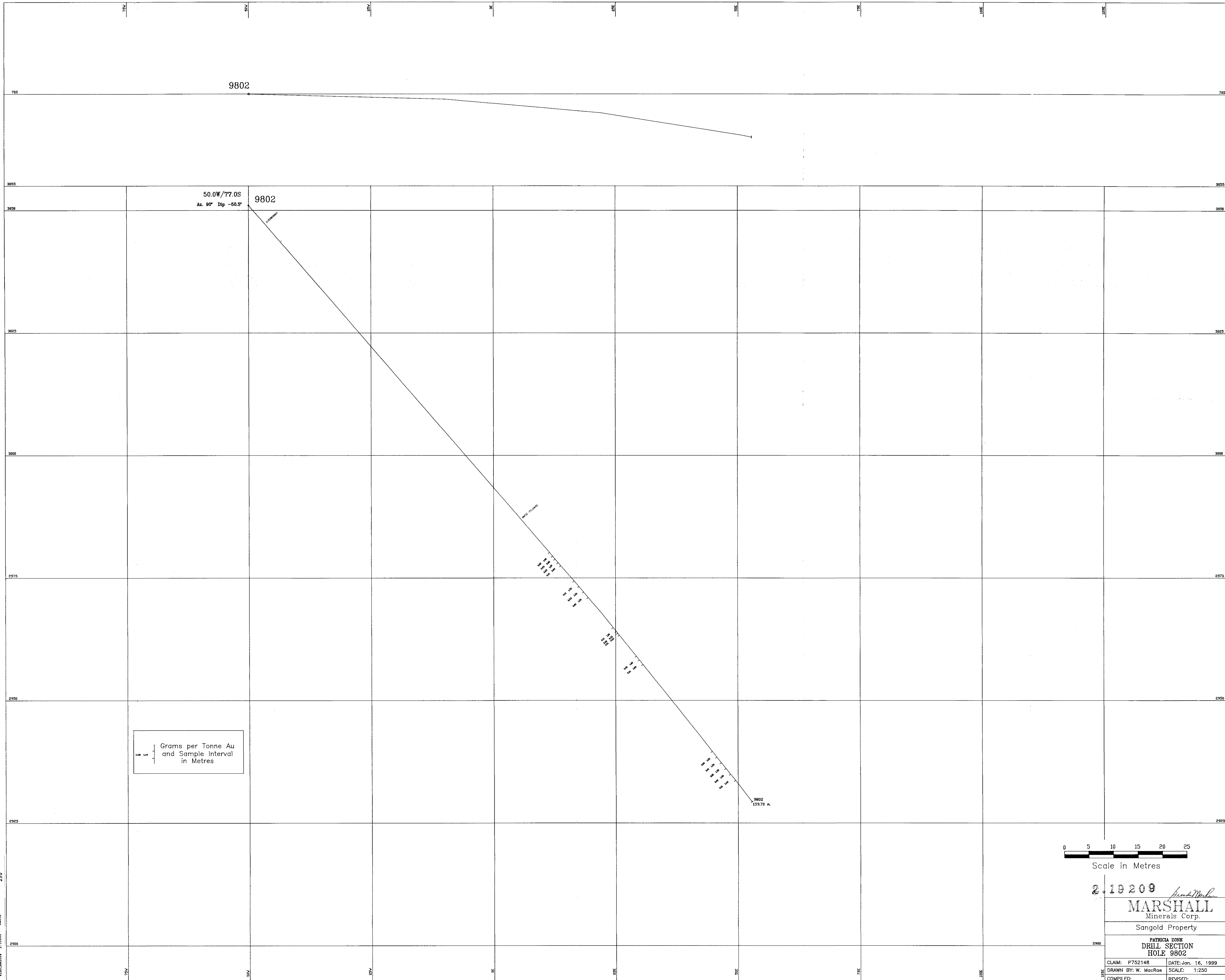
**MARSHALL**  
Minerals Corp.

Sangold Property

Drill Hole Locations  
Patricia Showing *Patricia*

DRAWING:	DATE: Jan. 16, 1999
DRAWN BY: W. MacRae	SCALE: 1:500
COMPILED:	REVISED:





9802

50.0W/77.0S  
Az. 90° Dip -50.5°

9802

Grams per Tonne Au  
and Sample Interval  
in Metres

0 5 10 15 20 25  
Scale in Metres

2.19209

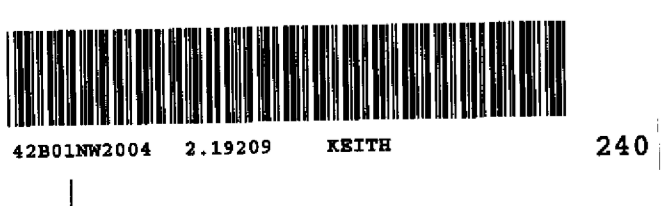
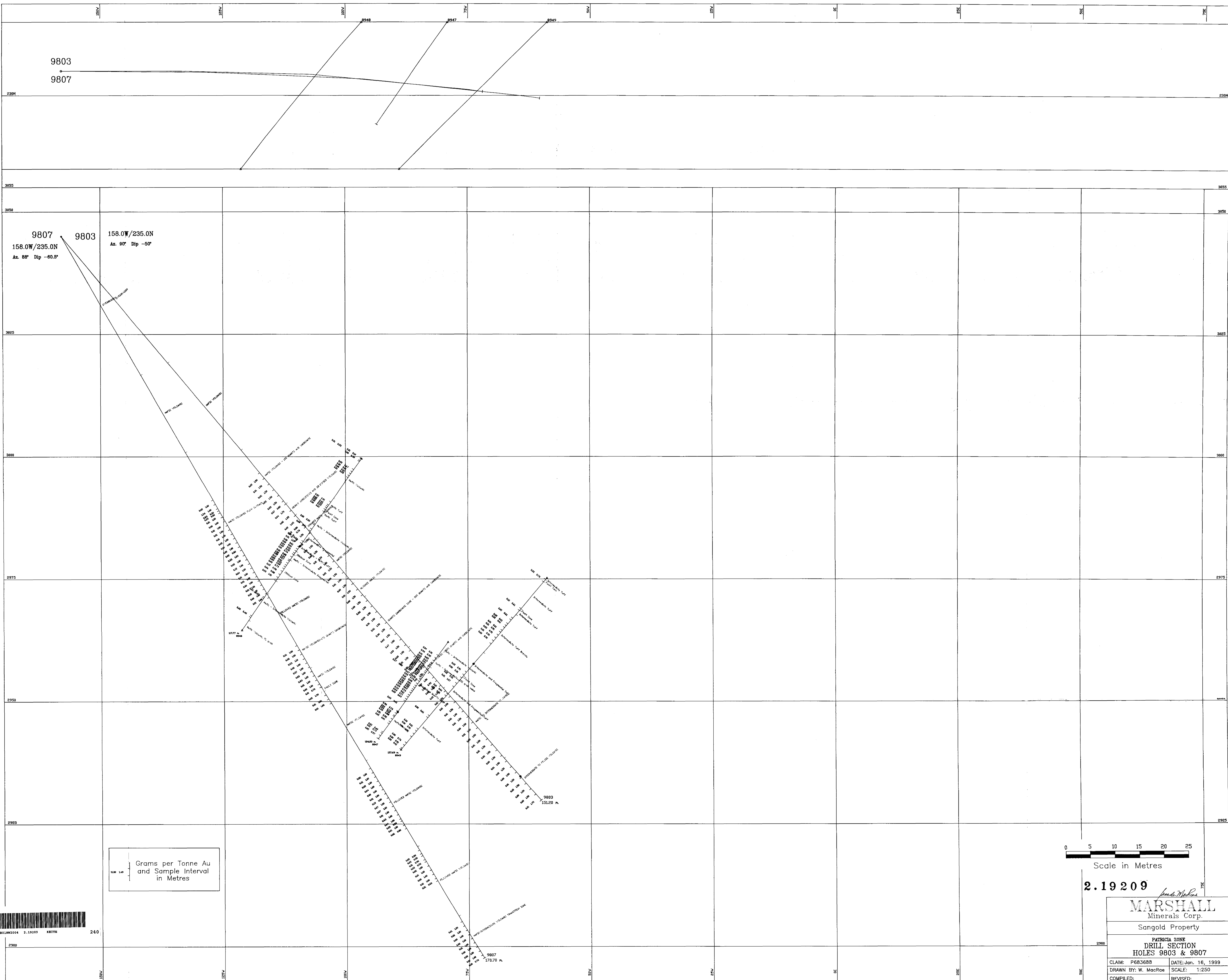
**MARSHALL**  
Minerals Corp.

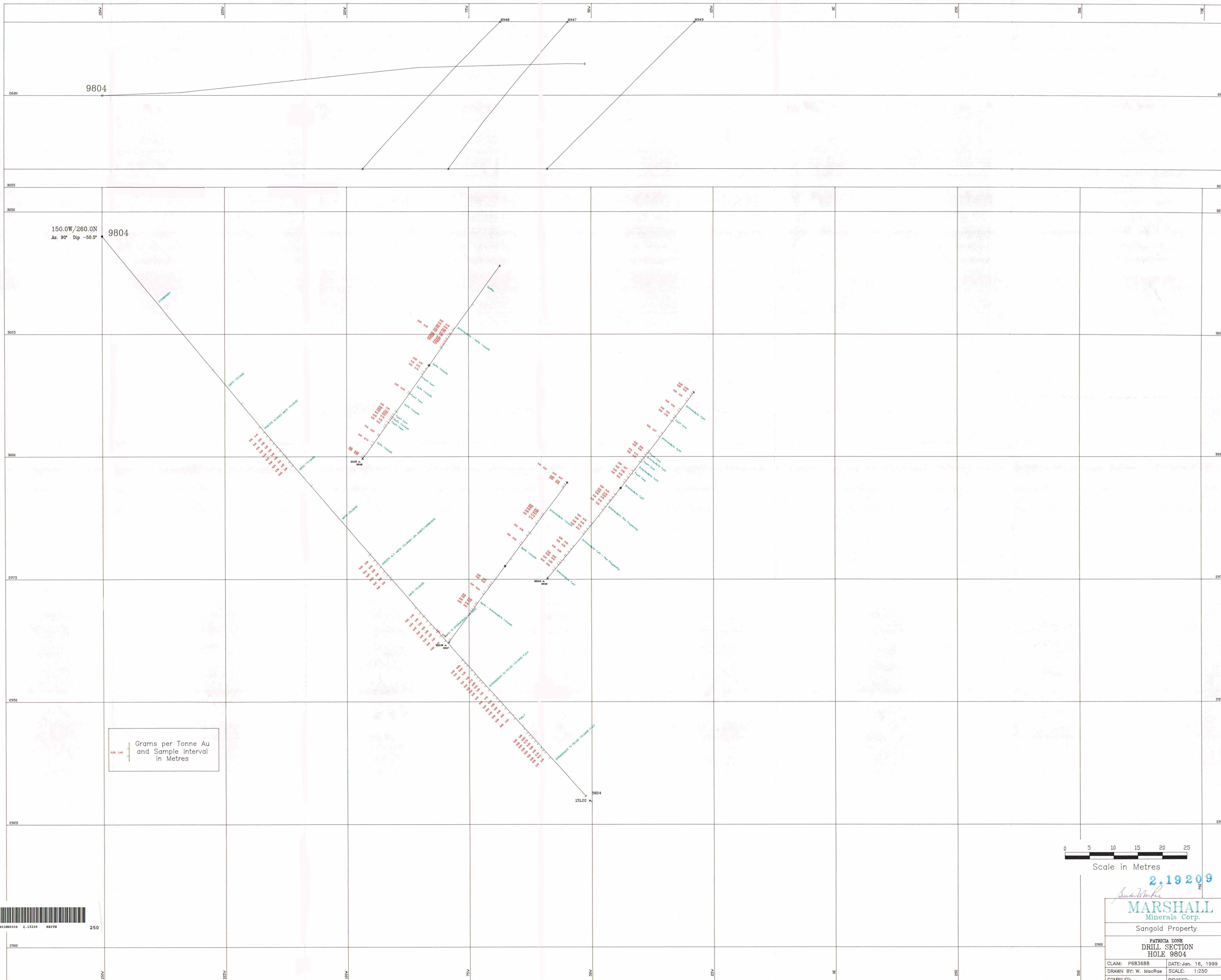
Sangold Property

PATRICIA ZORN  
DRILL SECTION  
HOLE 9802

CLAIM: P752148	DATE: Jan. 16, 1999
DRAWN BY: W. MacRae	SCALE: 1:250
COMPILED:	REVISED:

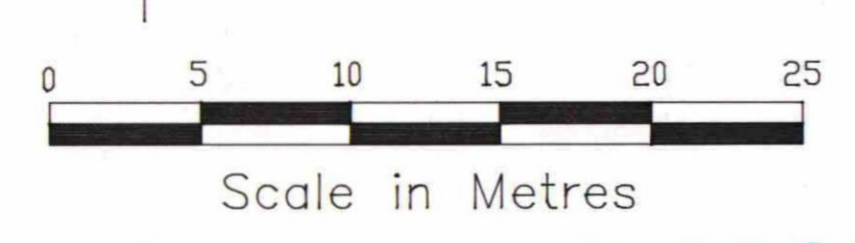
230  
432340004 2.19209 METRE





150.0W/260.0N  
Az. 90° Dip -50.5°

Grams per Tonne Au  
and Sample Interval  
in Metres



Scale in Metres

2.19.2009

**MARSHALL**  
Minerals Corp.

Sangold Property

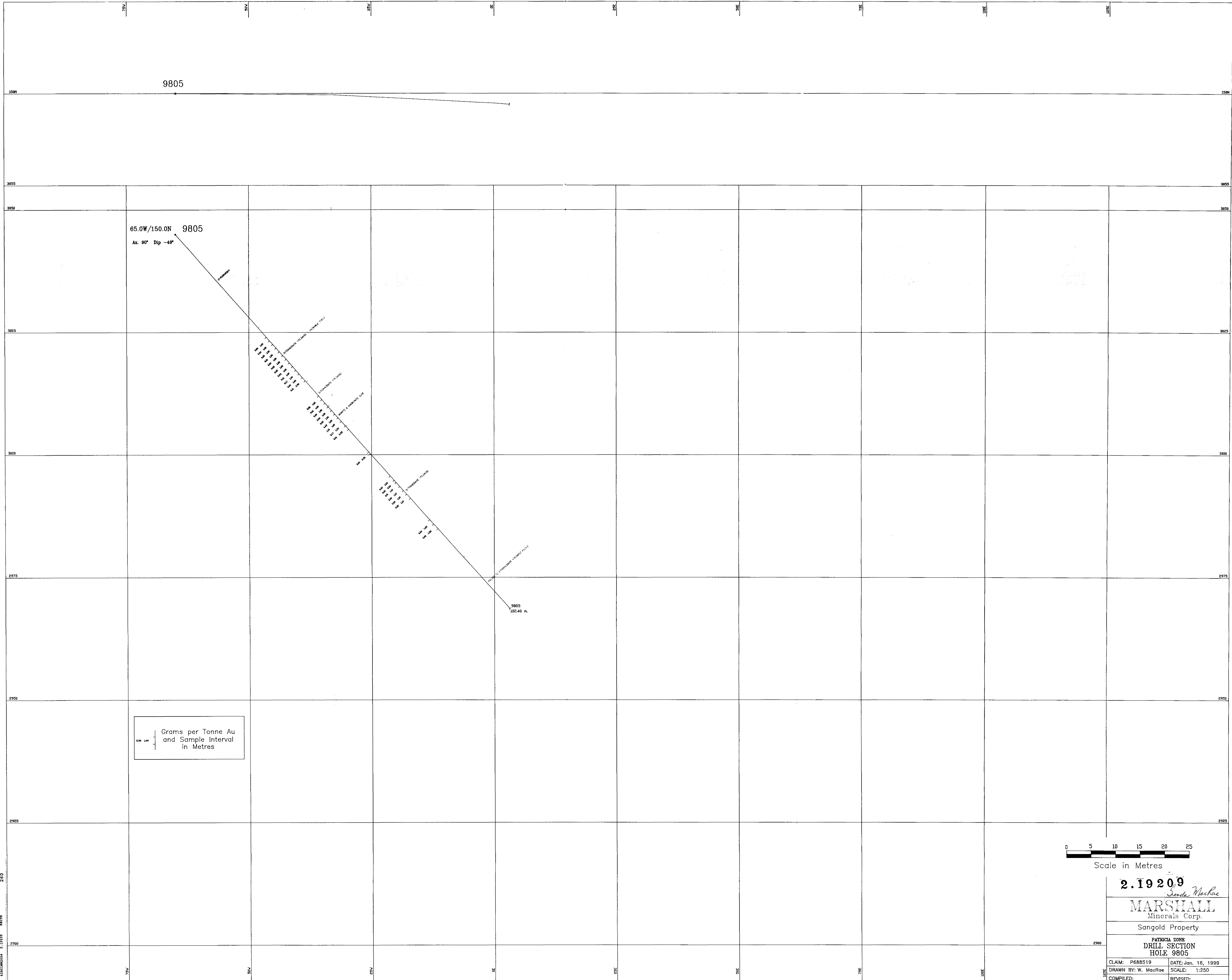
PATRICIA ZONE  
DRILL SECTION  
HOLE 9804

CLAIM: P683688	DATE: Jan. 16, 1999
DRAWN BY: W. MacRae	SCALE: 1:250
COMPILED:	REVISED:



250

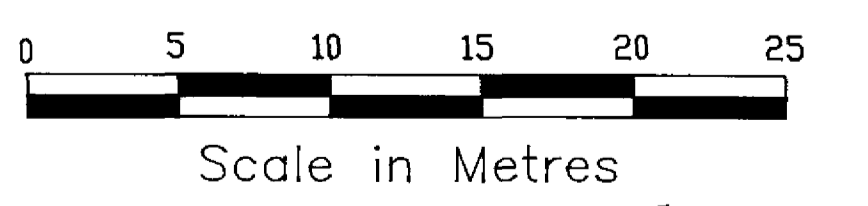
2900



9805

65.0W/150.0N 9805  
Az. 90° Dip -49°

Grams per Tonne Au  
and Sample Interval  
in Metres



2.19209  
*W. MacRae*

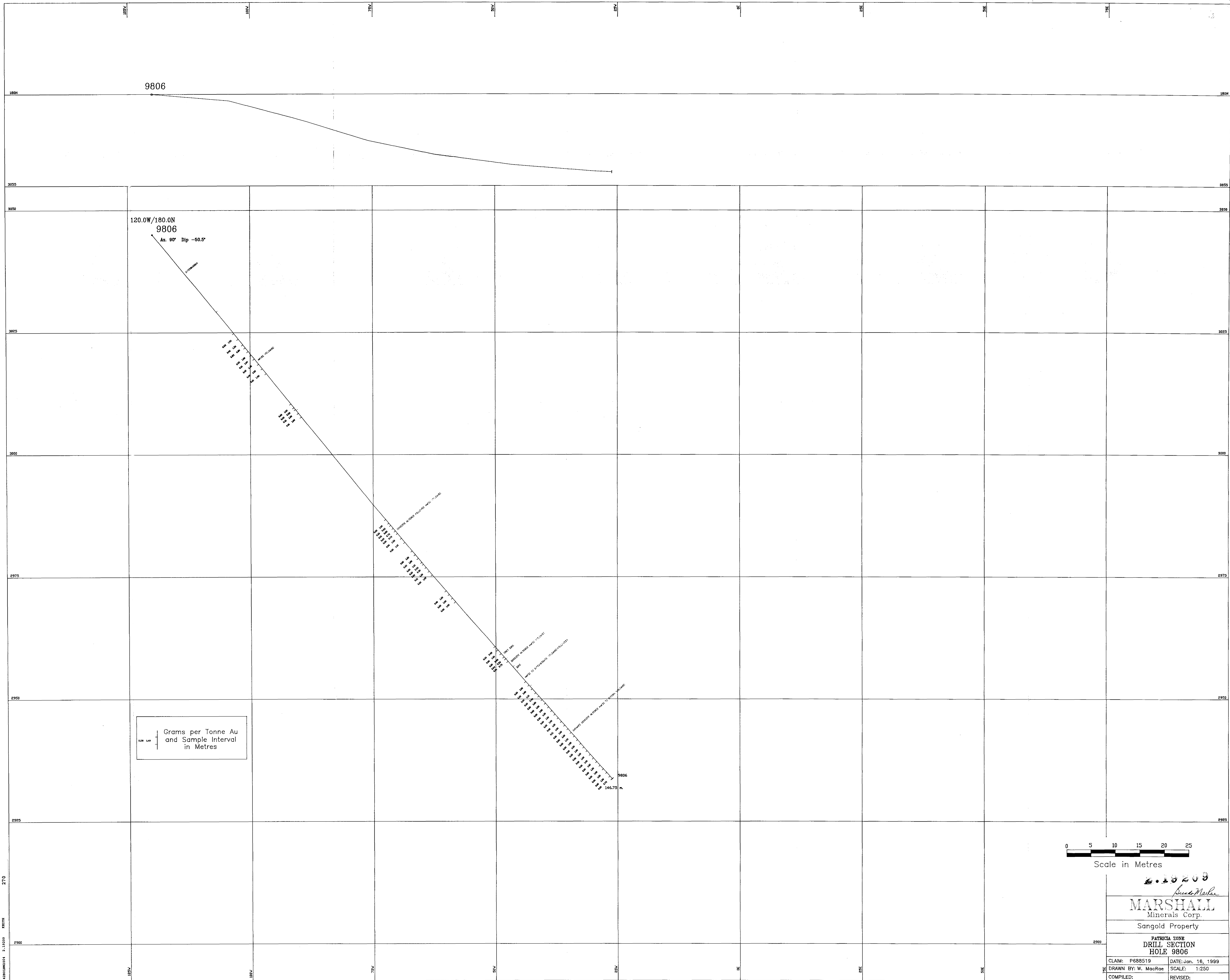
**MARSHALL**  
Minerals Corp.  
Sangold Property

PATERICA ZONE  
DRILL SECTION  
HOLE 9805

CLAIM: P688519	DATE: Jan. 16, 1999
DRAWN BY: W. MacRae	SCALE: 1:250
COMPILED:	REVISED:





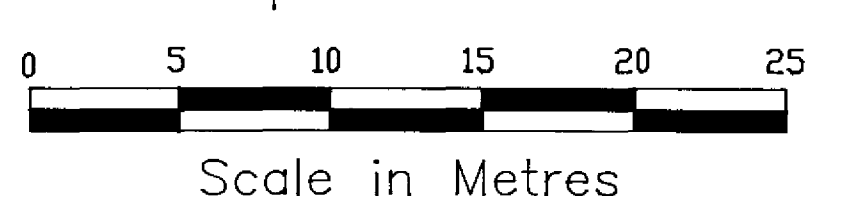


9806

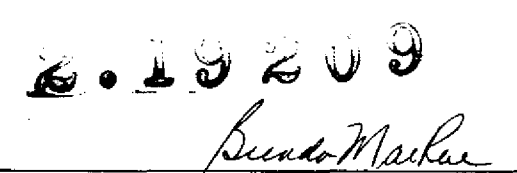
120.0W/180.0N  
9806

Az. 90° Dip -50.5°

Grams per Tonne Au  
and Sample Interval  
in Metres



Scale in Metres

  
**MARSHALL**  
 Minerals Corp.  
 Sangold Property  
 PATRICIA ZONE  
 DRILL SECTION  
 HOLE 9806  
 CLAIM: P688519 DATE: Jan. 16, 1999  
 DRAWN BY: W. MacRae SCALE: 1:250  
 COMPILED: REVISED:

