第Ⅲ部　結論及び提言

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第1章　結　論

ウム・アダマール地域における第３年次調査として，第１年次及び第２年次に実施した地質調査，物理探査（IP 法及び TEM 法）及びボーリング調査により抽出された有望地域において，深部の地質状況を把握し，Au，Cu 及び Zn の鉱化状況の詳細を解明することを重点課題として，計８孔，全掘進長 2,340.65m のボーリング調査を実施した。

その結果は以下の通り要約される。

① 調査地域には Jabal Sujarah 地区，Umm ad Damar North プロスペクト，Umm ad Damar South プロスペクト及び 4/6 Gossan プロスペクトの４箇所に，Au，Cu 及び Zn を含む鉱化作用が認められる。今年次は，Jabal Sujarah 地区，Umm ad Damar North プロスペクトと Umm ad Damar South プロスペクトの中間地区，4/6 Gossan プロスペクトでボーリング調査を実施した。Umm ad Damar North プロスペクトと Umm ad Damar South プロスペクトの中間地区では物理探査で得られた有望地域を対象とした。

② Jabal Sujarah 地区には Cu 及び Zn を含む塊状鉱及び礫状鉱と黄鉄鉱鉱染からなる火山性塊状硫化物型鉱化作用がデイサイト質火山砕屑岩類中に分布する。塊状鉱や礫状鉱は頁岩，細粒凝灰岩，緑泥石化岩など挟在し，全体としての厚さは 6m 程度と推定される。今年次のボーリング調査では塊状鉱及び鉱染部を捕捉できたが，いずれも Cu 及び Zn を含まない。第２年次の調査結果と総合すると，塊状鉱及び礫状鉱の一部は Cu 及び Zn を含むが，それらの大部分は低品位であると言える。また，その走向方向の拡がりは 200m 程度であり，狭く限られている。黄鉄鉱鉱染帯については 100m 程度の厚さを見込めるが，Au，Cu 及び Zn ともに低品位である。

③ 4/6 Gossan プロスペクトには塊状鉱，珪質鉱，礫状鉱などからなる火山性塊状硫化物型鉱化作用が分布する。第２年次に捕捉した鉱化帯の深部延長及び南方延長の調査を実施した。深部延長部では Zn に富む塊状鉱を捕捉できたが，その厚さは 1.8m 程度と薄いものであった。南方延長部では鉱化作用を認めることはできなかった。これらの結果，本プロスペクトに賦存する鉱化帯は３枚あるが，最も優勢な鉱化帯でも厚さ 9.3m 以下，走向延長 100m 程度，傾斜延長 120m 以上と小規模な鉱化帯であると考えられる。

④ Umm ad Damar North プロスペクトと Umm ad Damar South プロスペクトの中間地区で高充電率異常域であり，さらに導電性プレートが推定される箇所を対象に調査を実施した。この結果，高充電率異常は黄鉄鉱鉱染及び細脈の存在に起因したものであることを明らかにできたが，捕捉した鉱化帯は Au，Cu，Zn に乏しいものであった。

第2章　将来への提言

① 4/6 Gossan プロスペクトには，Cu 及び Zn に富む塊状鉱や礫状鉱など火山性塊状硫化物型鉱化作用が存在するが，その規模は小さいと判断される。よって，本プロスペクトにおいてこれ以上の調査は必要ない。

② Jabal Sujarah 地区において，火山性塊状硫化物型鉱化作用をターゲットに調査を行ったが，一部に Cu 及び Zn に富む塊状鉱や礫状鉱を認めたのみで，大部分は低品位であった。鉱床分布範囲も狭いものと判断される。よって，本地区においてこれ以上の調査は必要ない。

③ Umm ad Damar North プロスペクト及び Umm ad Damar South プロスペクト周辺の，高充電率異常域であり，さらに導電性プレートが推定される箇所は黄鉄鉱鉱染及び細脈群からなる鉱化帯であり，これ以上の調査は必要ない。

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巻 末 資 料

Appendix 1 Summary of Drilling Operation of MJSU-9

MJSU-9	Suvey Period				Total Man-day	
Operation	Period	Day	Work Day	Off Day	Engineer	Worker
Transportation/Preparation	Sep. 16,2000					
Drilling	Sep. 16- Oct. 9,2000	24	21	3	144	41
Dismantling	Oct. 9,2000					
Total		24	21	3	144	41

Drilling Length	(m)		(m)
Length Planned	275.00	Overburden	1.50
Increase/Decrease in Length	105.00	Core Length	378.25
Length Drilled	380.00	Core Recovery	99.5

Working Hours	(h)	(%)	(%)
Drilling	184.9	62.5	60.9
Other Work	92.1	31.1	30.3
Recovering	19.0	6.4	6.3
Subtotal	296.0	100.0	97.5
Preparation	3.5		1.2
Dismantlement	4.0		1.3
Transportation			0.0
Grand Total	303.5		100.0

Core Recovery of Each 100m Hole		
Depth of Hole (m)	Core Recovery (%)	Cumulative Core Recovery (%)
0.00 to 100.00	98.3	98.3
100.00 to 200.00	100.0	99.1
200.00 to 300.00	100.0	99.4
300.00 to 380.00	100.0	99.5

Efficiency of Drilling			
Total Length / Drilling Period	m	day	m/day
	380.00	24.0	15.83
Total Length / Total Drilling Shifts	m	shift	m/shift
	380.00	40.0	9.50

Casing Pipe Inserted			
Size	Metrage (m)	Metrage/Drilling Length (%)	Recovery (%)
HW	5.90	1.6	100.0
NW	41.70	11.0	100.0

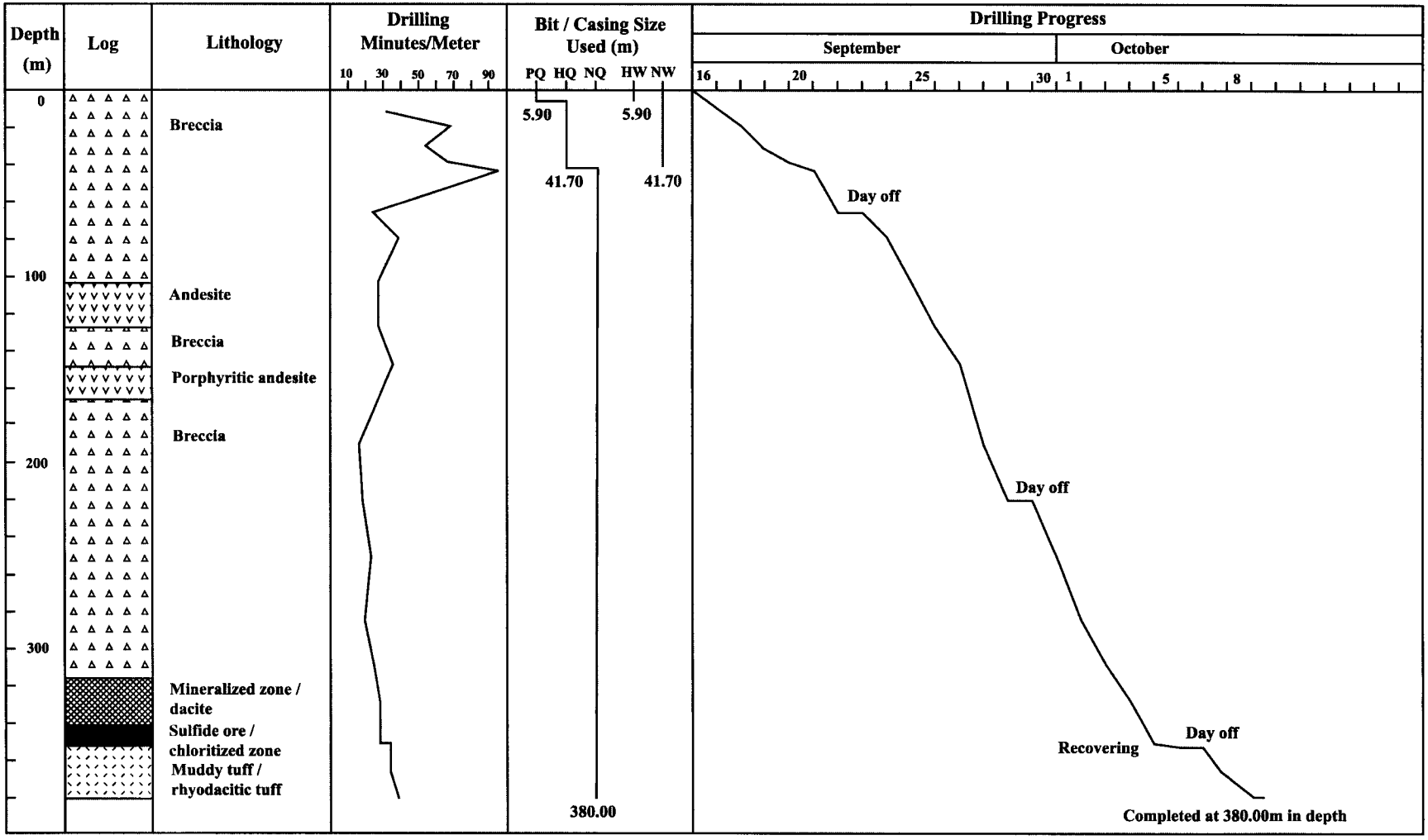
Drilling Length / Each Diameter (m)		
Bit Size	Drilling Length (m)	Core Length (m)
PQ	5.90	4.15
HQ	35.80	35.80
NQ	338.30	338.30

Appendix 2 Record of Drilling Operation of MJSU-9

Date	Drilling Length		Daily Total				Shift		Man Working	
	Shift 1 (m)	Shift 2 (m)	Drilling (m)	Drilling (Cum. m)	Core Length (m)	Core Length (Cum. m)	Drilling (Shift)	Total (Shift)	Engineer (man)	Worker (man)
Sep. 16	2.00	9.40	11.40	11.40	9.65	9.65	2	2	7	2
Sep. 17	3.80	4.15	7.95	19.35	7.95	17.60	2	2	7	2
Sep. 18	6.00	4.90	10.90	30.25	10.90	28.50	2	2	7	2
Sep. 19	5.55	2.65	8.20	38.45	8.20	36.70	2	2	7	2
Sep. 20	2.75	2.40	5.15	43.60	5.15	41.85	2	2	7	2
Sep. 21	14.40	7.30	21.70	65.30	21.70	63.55	2	2	7	2
Sep. 22	Day off									
Sep. 23	6.35	6.70	13.05	78.35	13.05	76.60	2	2	7	2
Sep. 24	12.65	11.10	23.75	102.10	23.75	100.35	2	2	7	2
Sep. 25	9.90	15.00	24.90	127.00	24.90	125.25	2	2	7	2
Sep. 26	10.00	10.00	20.00	147.00	20.00	145.25	2	2	7	2
Sep. 27	24.00	19.30	43.30	190.30	43.30	188.55	2	2	7	2
Sep. 28	17.70	12.00	29.70	220.00	29.70	218.25	2	2	7	2
Sep. 29	Day off									
Sep. 30	14.30	15.70	30.00	250.00	30.00	248.25	2	2	7	2
Oct. 1	15.00	19.25	34.25	284.25	34.25	282.50	2	2	7	2
Oct. 2	12.75	11.65	24.40	308.65	24.40	306.90	2	2	7	2
Oct. 3	7.35	12.00	19.35	328.00	19.35	326.25	2	2	7	2
Oct. 4	14.00	8.75	22.75	350.75	22.75	349.00	2	2	7	2
Oct. 5	1.80		1.80	352.55	1.80	350.80	1	2	7	2
Oct. 6	Day off									
Oct. 7	2.45	10.70	13.15	365.70	13.15	363.95	2	2	7	2
Oct. 8	9.10	5.20	14.30	380.00	14.30	378.25	2	2	7	2
Oct. 9									4	1
Total			380.00		378.25		39	40	144	41

Appendix 3 Drilling Progress of MJSU-9

MJSU-9



Appendix 4 Summary of Drillung Operation of MJSU-10

MJSU-10	Suvey Period					Total Man-day	
Operation	Period		Day	Work Day	Off Day	Engineer	Worker
Transportation/Preparation	Aug.26 - Sep.4,2000		10	9	1	63	14
Drilling	Sep. 5 - Sep.20,2000		16	14	2	98	28
Dismantling	Sep. 21,2000						
Total			26	23	3	161	42

Drilling Length	(m)		(m)
Length Planned	250.00	Overburden	4.90
Increase/Decrease in Length	100.40	Core Length	345.50
Length Drilled	350.40	Core Recovery	98.6

Working Hours	(h)	(%)	(%)
Drilling	136.8	65.1	49.0
Other Work	64.2	30.6	23.0
Recovering	9.0	4.3	3.2
Subtotal	210.0	100.0	75.3
Preparation	52.5		18.8
Dismantlement	1.5		0.5
Transportation	15.0		5.4
Grand Total	279.0		100.0

Core Recovery of Each 100m Hole		
Depth of Hole (m)	Core Recovery (%)	Cumulative Core Recovery (%)
0.00 to 100.00	95.1	95.1
100.00 to 200.00	100.0	97.6
200.00 to 300.00	100.0	98.4
300.00 to 350.40	100.0	98.6

Efficiency of Drilling			
Total Length / Drilling Period	m	day	m/day
	350.40	16.0	21.90
Total Length / Total Drilling Shifts	m	shift	m/shift
	350.40	28.0	12.51

Casing Pipe Inserted			
Size	Metrage (m)	Metrage/Drilling Length (%)	Recovery (%)
HW	13.60	3.9	100.0
NW	47.90	13.7	100.0

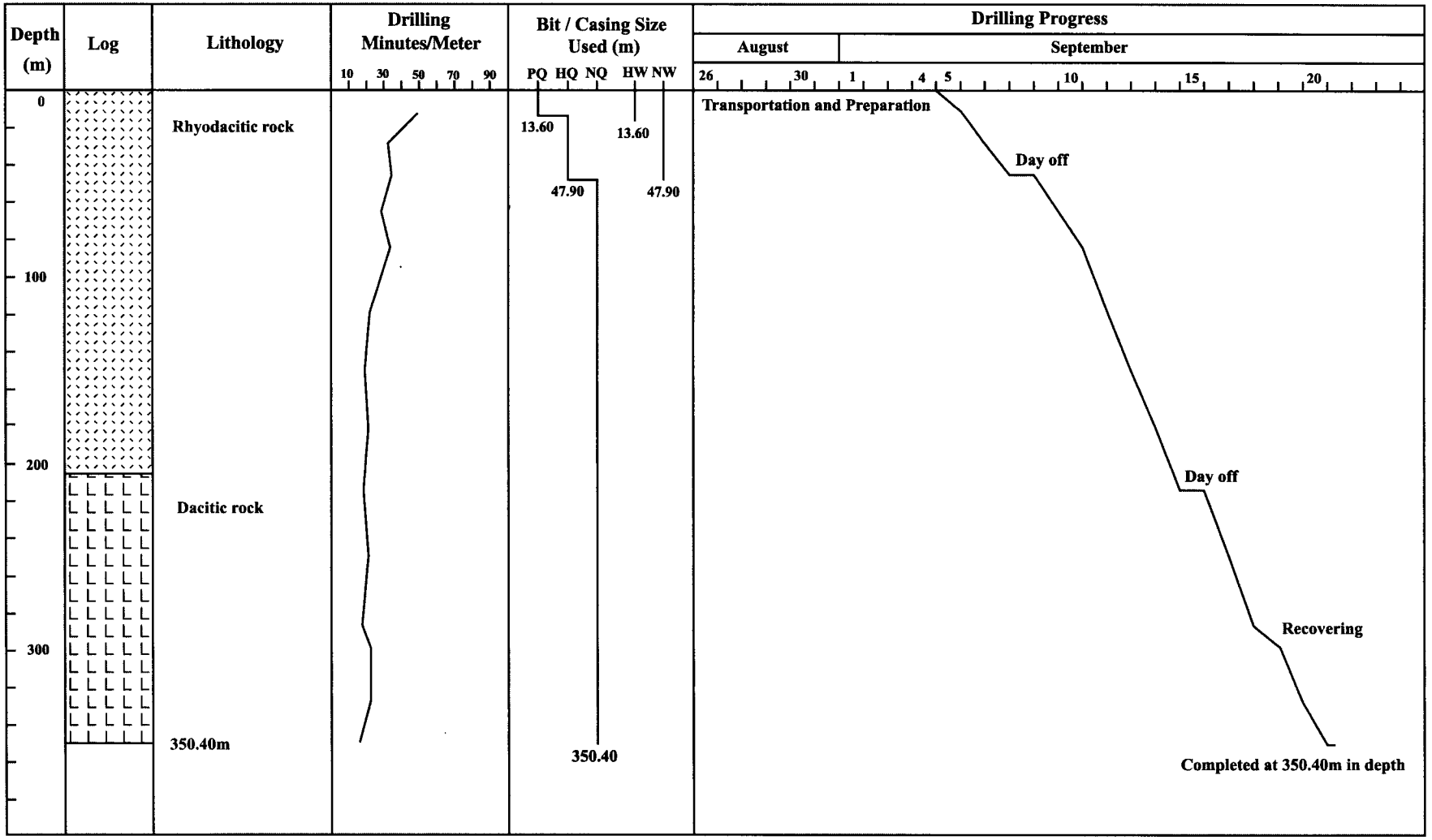
Drilling Length / Each Diameter (m)		
Bit Size	Drilling Length	Core Length
PQ	13.60	8.70
HQ	34.30	34.30
NQ	302.50	302.50

Appendix 5 Record of Drilling Operation of MJSU-10

Date	Drilling Length		Daily Total				Shift		Man Working	
	Shift 1 (m)	Shift 2 (m)	Drilling (m)	Drilling (Cum. m)	Core Length (m)	Core Length (Cum. m)	Drilling (Shift)	Total (Shift)	Engineer (man)	Worker (man)
Aug. 26	Transportation							1	7	
Aug. 27	Transportation							1	7	
Aug. 28	Preparation							1	7	2
Aug. 29	Preparation							1	7	2
Aug. 30	Preparation							1	7	2
Aug. 31	Preparation							1	7	2
Sep. 01	Day off									
Sep. 02	Preparation							1	7	2
Sep. 03	Preparation							1	7	2
Sep. 04	Preparation							1	7	2
Sep. 05	6.25	5.90	12.15	12.15	7.25	7.25	2	2	7	2
Sep. 06	5.55	10.55	16.10	28.25	16.10	23.35	2	2	7	2
Sep. 07	9.80	7.30	17.10	45.35	17.10	40.45	2	2	7	2
Sep. 08	Day off									
Sep. 09	3.75	14.85	18.60	63.95	18.60	59.05	2	2	7	2
Sep. 10	6.95	12.95	19.90	83.85	19.90	78.95	2	2	7	2
Sep. 11	14.05	19.65	33.70	117.55	33.70	112.65	2	2	7	2
Sep. 12	15.00	17.30	32.30	149.85	32.30	144.95	2	2	7	2
Sep. 13	15.10	16.00	31.10	180.95	31.10	176.05	2	2	7	2
Sep. 14	18.00	15.00	33.00	213.95	33.00	209.05	2	2	7	2
Sep. 15	Day off									
Sep. 16	21.00	14.05	35.05	249.00	35.05	244.10	2	2	7	2
Sep. 17	21.95	15.45	37.40	286.40	37.40	281.50	2	2	7	2
Sep. 18	Recovering	11.55	11.55	297.95	11.55	293.05	2	2	7	2
Sep. 19	15.00	15.00	30.00	327.95	30.00	323.05	2	2	7	2
Sep. 20	18.00	4.45	22.45	350.40	22.45	345.50	2	2	7	2
Sep. 21										
Total			350.40		345.50		28	37	161	42

Appendix 6 Drilling Progress of MJSU-10

MJSU-10



Appendix 7 Summary of Drilling Operation Of MJSU-11

MJSU-11 Operation	Suvey Period			Total Man-day	
	Period	Day	Work Day	Off Day	Engineer	Worker
Transportation/Preparation	Sep.21,2000					
Drilling	Sep.21 - Oct. 2,2000	12	10	2	70	20
Dismantling	Oct.2,2000					
Total		12	10	2	70	20

Drilling Length	(m)		(m)
Length Planned	250.00	Overburden	2.50
Increase/Decrease in Length	0.10	Core Length	247.60
Length Drilled	250.10	Core Recovery	99.0

Working Hours	(h)	(%)	(%)
Drilling	99.4	73.6	71.5
Other Work	35.6	26.4	25.6
Recovering	0.0	0.0	0.0
Subtotal	135.0	100.0	97.1
Preparation	1.0		0.7
Dismantlement	3.0		2.2
Transportation	0.0		0.0
Grand Total	139.0		100.0

Core Recovery of Each 100m Hole		
Depth of Hole	Core Recovery	Cumulative Core Recovery
(m)	(%)	(%)
0.00 to 100.00	97.5	97.5
100.00 to 200.00	100.0	98.8
200.00 to 250.00	100.0	99.0

Efficiency of Drilling			
Total Length / Drilling Period	m	day	m/day
	250.10	12.0	20.84
Total Length / Total Drilling Shifts	m	shift	m/shift
	250.10	19.0	13.16

Casing Pipe Inserted			
Size	Metrage (m)	Metrage/Drilling Length (%)	Recovery (%)
HW	10.10	4.0	100.0
NW	35.80	14.3	100.0

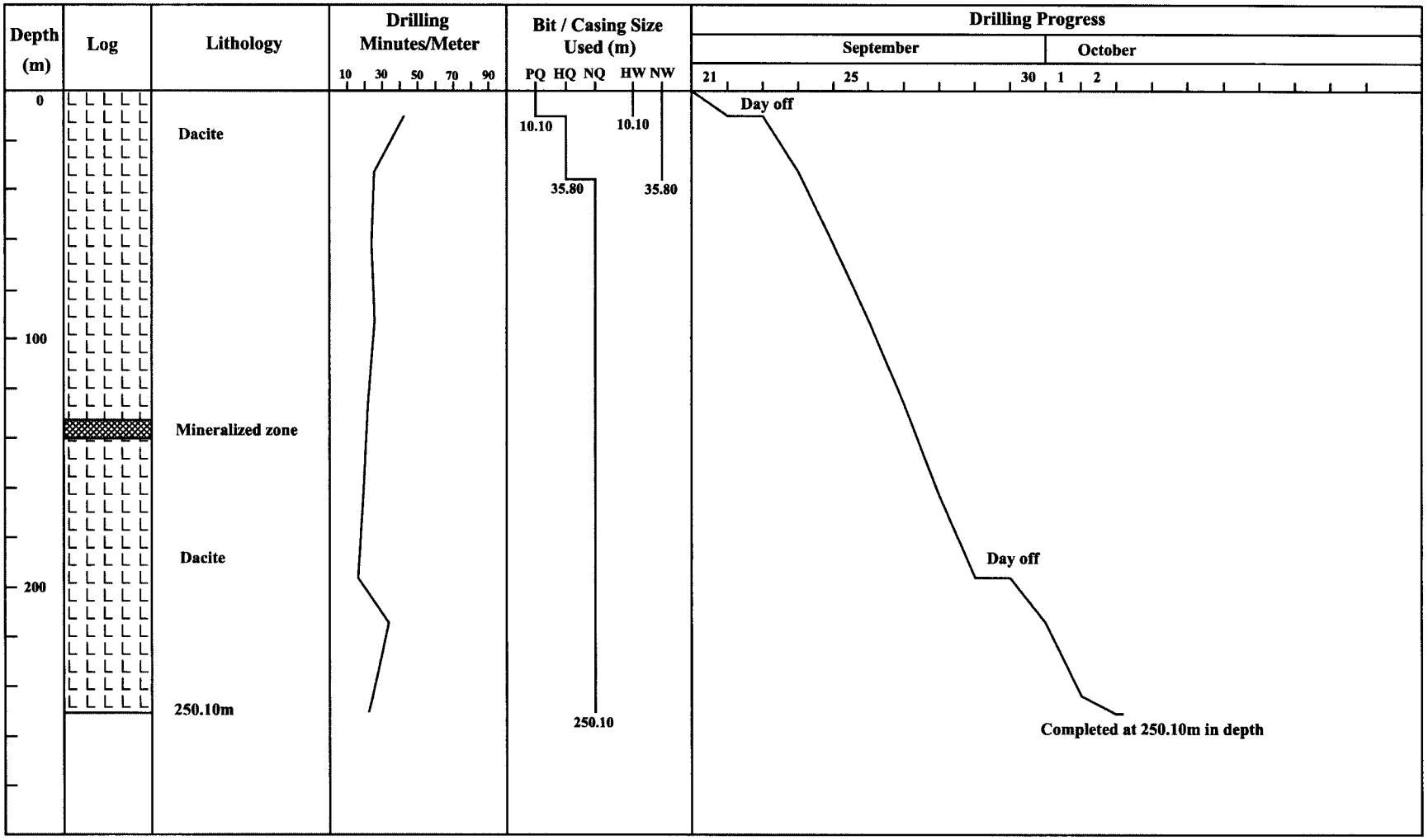
Drilling Length / Each Diameter (m)		
Bit Size	Drilling Length	Core Length
PQ	10.10	7.60
HQ	25.80	25.80
NQ	214.20	214.20

Appendix 8 Record of Drilling Operation of MJSU-11

Date	Drilling Length		Daily Total				Shift		Man Working	
	Shift 1 (m)	Shift 2 (m)	Drilling (m)	Drilling (Cum. m)	Core Length (m)	Core Length (Cum. m)	Drilling (Shift)	Total (Shift)	Engineer (man)	Worker (man)
Sep. 21	3.50	6.60	10.10	10.10	7.60	7.60	2	2	7	2
Sep. 22	Day off									
Sep. 23	8.00	14.70	22.70	32.80	22.70	30.30	2	2	7	2
Sep. 24	12.50	16.40	28.90	61.70	28.90	59.20	2	2	7	2
Sep. 25	14.10	16.70	30.80	92.50	30.80	90.00	2	2	7	2
Sep. 26	16.30	16.90	33.20	125.70	33.20	123.20	2	2	7	2
Sep. 27	18.40	18.70	37.10	162.80	37.10	160.30	2	2	7	2
Sep. 28	20.80	12.20	33.00	195.80	33.00	193.30	2	2	7	2
Sep. 29	Day off									
Sep. 30	8.60	9.40	18.00	213.80	18.00	211.30	2	2	7	2
Oct. 01	14.00	15.50	29.50	243.30	29.50	240.80	2	2	7	2
Oct. 02	6.80		6.80	250.10	6.80	247.60	2	2	7	2
Total			250.10		247.60		20	20	70	20

Appendix 9 Drilling Progress of MJSU-11

MJSU-11



Appendix 10 Summary of Drilling Operation of MJSU-12

MJSU-12 Operation	Suvey Period				Total Man-day	
	Period	Day	Work Day	Off Day	Engineer	Worker
Transportation/Preparation	Oct 2,2000					
Drilling	Oct. 2, 2000 - Oct.11,2000	10	9	1	56	18
Dismantling	Oct.11,2000					
Total		10	9	1	56	16

Drilling Length	(m)		(m)
Length Planned	250.00	Overburden	1.20
Increase/Decrease in Length	0.00	Core Length	248.80
Length Drilled	250.00	Core Recovery	99.5

Working Hours	(h)	(%)	(%)
Drilling	91.7	75.2	73.7
Other Work	30.3	24.8	24.3
Recovering		0.0	0.0
Subtotal	122.0	100.0	98.0
Preparation	1.0		0.8
Dismantlement	1.5		1.2
Transportation			0.0
Grand Total	124.5		100.0

Core Recovery of Each 100m Hole		
Depth of Hole (m)	Core Recovery (%)	Cumulative Core Recovery (%)
0.00 to 100.00	98.8	98.8
100.00 to 200.00	100.0	99.4
200.00 to 250.00	100.0	99.5

Efficiency of Drilling			
Total Length / Drilling Period	m	day	m/day
	250.00	10.0	25.00
Total Length / Total Drilling Shifts	m	shift	m/shift
	250.00	16.0	15.63

Casing Pipe Inserted			
Size	Metrage (m)	Metrage/Drilling Length (%)	Recovery (%)
HW	4.00	1.6	100.0
NW	24.70	9.9	100.0

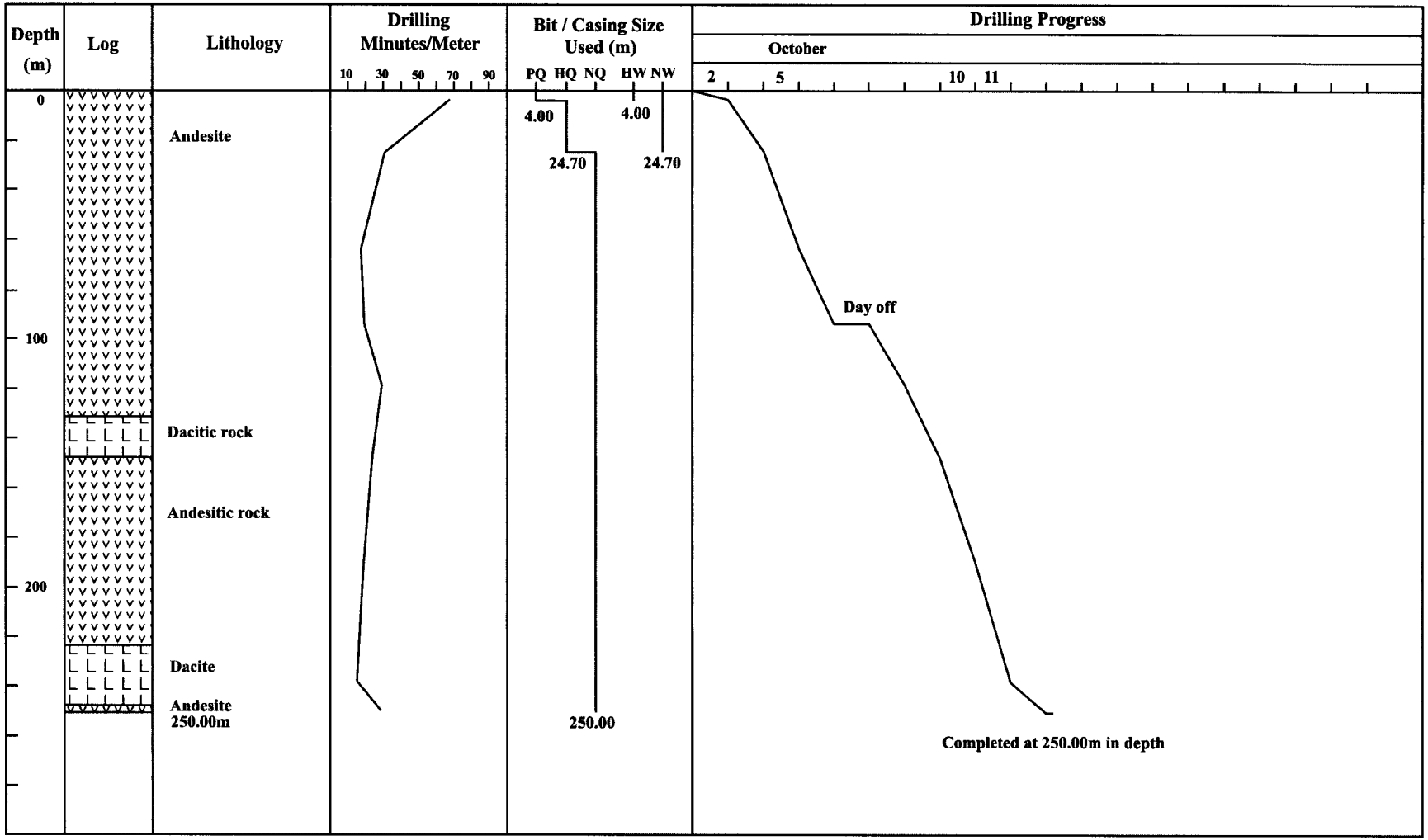
Drilling Length / Each Diameter (m)		
Bit Size	Drilling Length	Core Length
PQ	4.00	2.80
HQ	20.70	20.70
NQ	225.30	225.30

Appendix 11 Record of Drilling Operation of MJSU-12

Date	Drilling Length		Daily Total				Shift		Man Working	
	Shift 1 (m)	Shift 2 (m)	Drilling (m)	Drilling (Cum. m)	Core Length (m)	Core Length (Cum. m)	Drilling (Shift)	Total (Shift)	Engineer (man)	Worker (man)
Oct. 2		3.55	3.55	3.55	2.35	2.35	1	1	3	1
Oct. 3	8.15	13.00	21.15	24.70	21.15	23.50	2	2	7	2
Oct. 4	15.40	23.60	39.00	63.70	39.00	62.50	2	2	7	2
Oct. 5	21.00	9.00	30.00	93.70	30.00	92.50	2	2	7	2
Oct. 6	Day off									
Oct. 7	7.40	17.15	24.55	118.25	24.55	117.05	2	2	7	2
Oct. 8	11.05	18.40	29.45	147.70	29.45	146.50	2	2	7	2
Oct. 9	17.70	24.30	42.00	189.70	42.00	188.50	2	2	7	2
Oct. 10	25.00	23.00	48.00	237.70	48.00	236.50	2	2	7	2
Oct. 11	12.30		12.30	250.00	12.30	248.80	1	1	4	1
Total			250.00		248.80		16	16	56	16

Appendix 12 Drilling Progress of MJSU-12

MJSU-12



Appendix 13 Summary of Drilling Operation og MJSU-13

MJSU-13 Operation	Suvey Period			Total Man-day	
	Period	Day	Work Day	Off Day	Engineer	Worker
Transportation/Preparation	Oct 9,2000					
Drilling	Oct. 9- Oct.23,2000	15	13	2	91	26
Dismantling	Oct.23,2000					
Total		15	13	2	91	26

Drilling Length	(m)		(m)
Length Planned	250.00	Overburden	0.90
Increase/Decrease in Length	0.00	Core Length	249.10
Length Drilled	250.00	Core Recovery	99.6

Working Hours	(h)	(%)	(%)
Drilling	127.3	66.0	64.9
Other Work	65.7	34.0	33.5
Recovering		0.0	0.0
Subtotal	193.0	100.0	98.5
Preparation	2.0		1.0
Dismantlement	1.0		0.5
Transportation			0.0
Grand Total	196.0		100.0

Core Recovery of Each 100m Hole

Depth of Hole (m)	Core Recovery (%)	Cumulative Core Recovery (%)
0.00 to 100.00	99.1	99.1
100.00 to 200.00	100.0	99.6
200.00 to 250.00	100.0	99.6

Efficiency of Drilling

	m	day	m/day
Total Length / Drilling Period	250.00	15.0	16.67
	m	shift	m/shift
Total Length / Total Drilling Shifts	250.00	26.0	9.62

Casing Pipe Inserted

Size	Metrage (m)	Metrage/Drilling Length (%)	Recovery (%)
HW	3.00	1.2	100.0
NW	29.90	12.0	100.0

Drilling Length / Each Diameter (m)

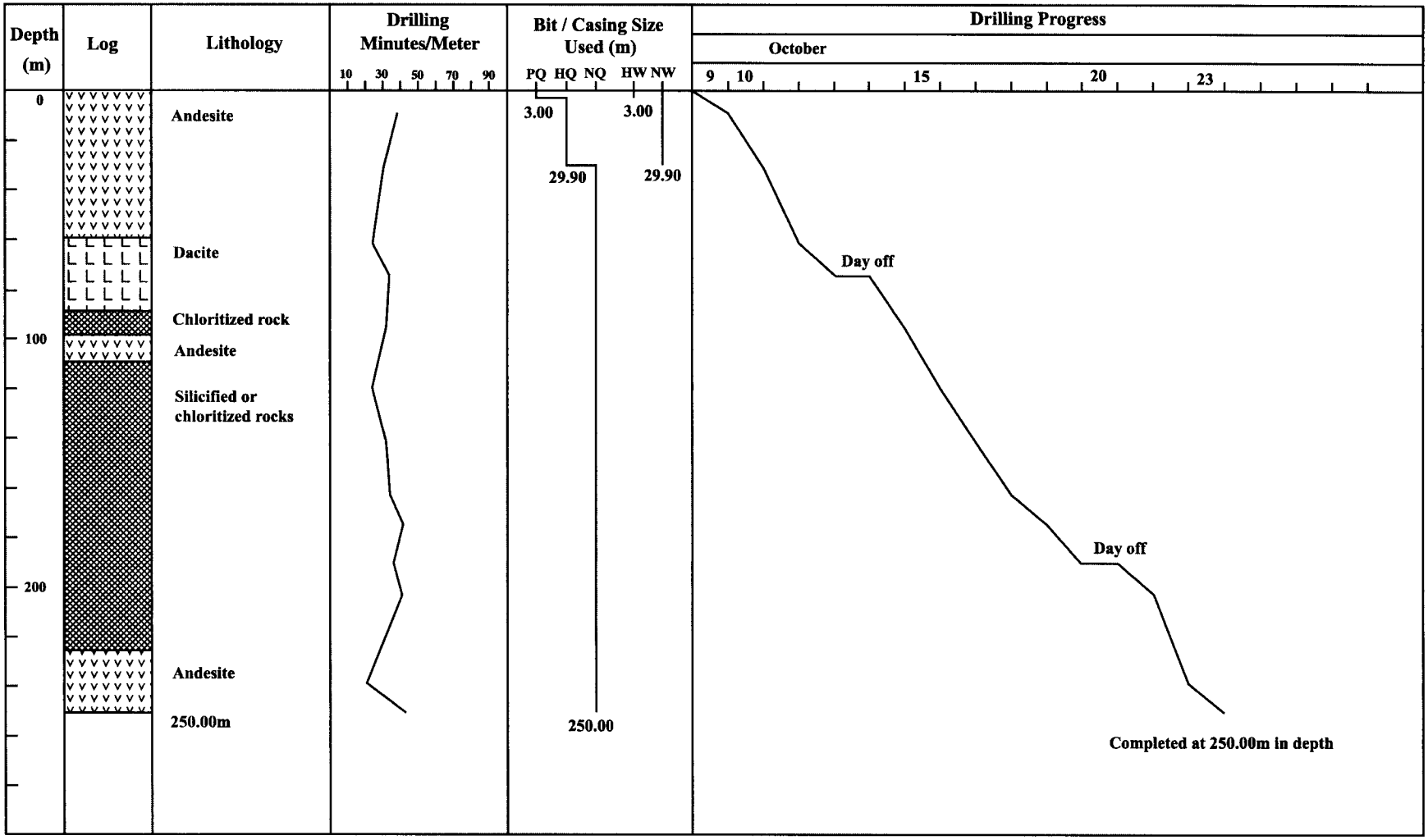
Bit Size	Drilling Length	Core Length
PQ	3.00	2.10
HQ	26.90	26.90
NQ	220.10	220.10

Appendix 14 Record of Drilling Operation of MJSU-13

Date	Drilling Length		Daily Total				Shift		Man Working	
	Shift 1	Shift 2	Drilling		Core Length		Drilling	Total	Engineer	Worker
	(m)	(m)	(m)	(Cum. m)	(m)	(Cum. m)	(Shift)	(Shift)	(man)	(man)
Oct 9	1.10	8.00	9.10	9.10	8.20	8.20	2	2	7	2
Oct 10	13.25	8.60	21.85	30.95	21.85	30.05	2	2	7	2
Oct 11	17.30	13.05	30.35	61.30	30.35	60.40	2	2	7	2
Oct 12	8.70	3.85	12.55	73.85	12.55	72.95	2	2	7	2
Oct 13	Day off									
Oct 14	6.15	15.50	21.65	95.50	21.65	94.60	2	2	7	2
Oct 15	17.50	6.60	24.10	119.60	24.10	118.70	2	2	7	2
Oct 16	7.70	13.85	21.55	141.15	21.55	140.25	2	2	7	2
Oct 17	9.85	11.20	21.05	162.20	21.05	161.30	2	2	7	2
Oct 18	4.00	8.30	12.30	174.50	12.30	173.60	2	2	7	2
Oct 19	5.55	9.55	15.10	189.60	15.10	188.70	2	2	7	2
Oct 20	Day off									
Oct 21	7.20	6.10	13.30	202.90	13.30	202.00	2	2	7	2
Oct 22	16.10	19.10	35.20	238.10	35.20	237.20	2	2	7	2
Oct 23	8.60	3.30	11.90	250.00	11.90	249.10	2	2	7	2
Total			250.00		249.10		26	26	91	26

Appendix 15 Drilling Progress of MJSU-13

MJSU-13



Appendix 16 Summary of Drilling Operation of MJSU-14

MJSU-14 Operation	Suvey Period				Total Man-day	
	Period	Day	Work Day	Off Day	Engineer	Worker
Transportation/Preparation	Aug. 26 - Sep.3,2000	8	7	1	49	7
Drilling	Sep. 4 - Sep.14,2000	12	10	2	70	10
Dismantling	Sep.16,2000					
Total		20	17	3	119	17

Drilling Length	(m)		(m)
Length Planned	375.00	Overburden	0.00
Increase/Decrease in Length	-100.40	Core Length	274.60
Length Drilled	274.60	Core Recovery	100.0

Working Hours	(h)	(%)	(%)
Drilling	92.3	61.5	45.6
Other Work	54.2	36.1	26.8
Recovering	3.5	2.3	1.7
Subtotal	150.0	100.0	74.1
Preparation	35.0		17.3
Dismantlement	2.5		1.2
Transportation	15.0		7.4
Grand Total	202.5		100.0

Core Recovery of Each 100m Hole		
Depth of Hole	Core Recovery	Cumulative Core Recovery
(m)	(%)	(%)
0.00 to 100.00	100.0	100.0
100.00 to 200.00	100.0	100.0
200.00 to 274.60	100.0	100.0

Efficiency of Drilling			
Total Length /	m	day	m/day
Drilling Period	274.60	12.0	22.88
Total Length / Total	m	shift	m/shift
Drilling Shifts	274.60	22.0	12.48

Casing Pipe Inserted			
Size	Metrage (m)	Metrage/Drilling Length (%)	Recovery (%)
HW	5.95	2.2	100.0
NW	32.75	11.9	100.0

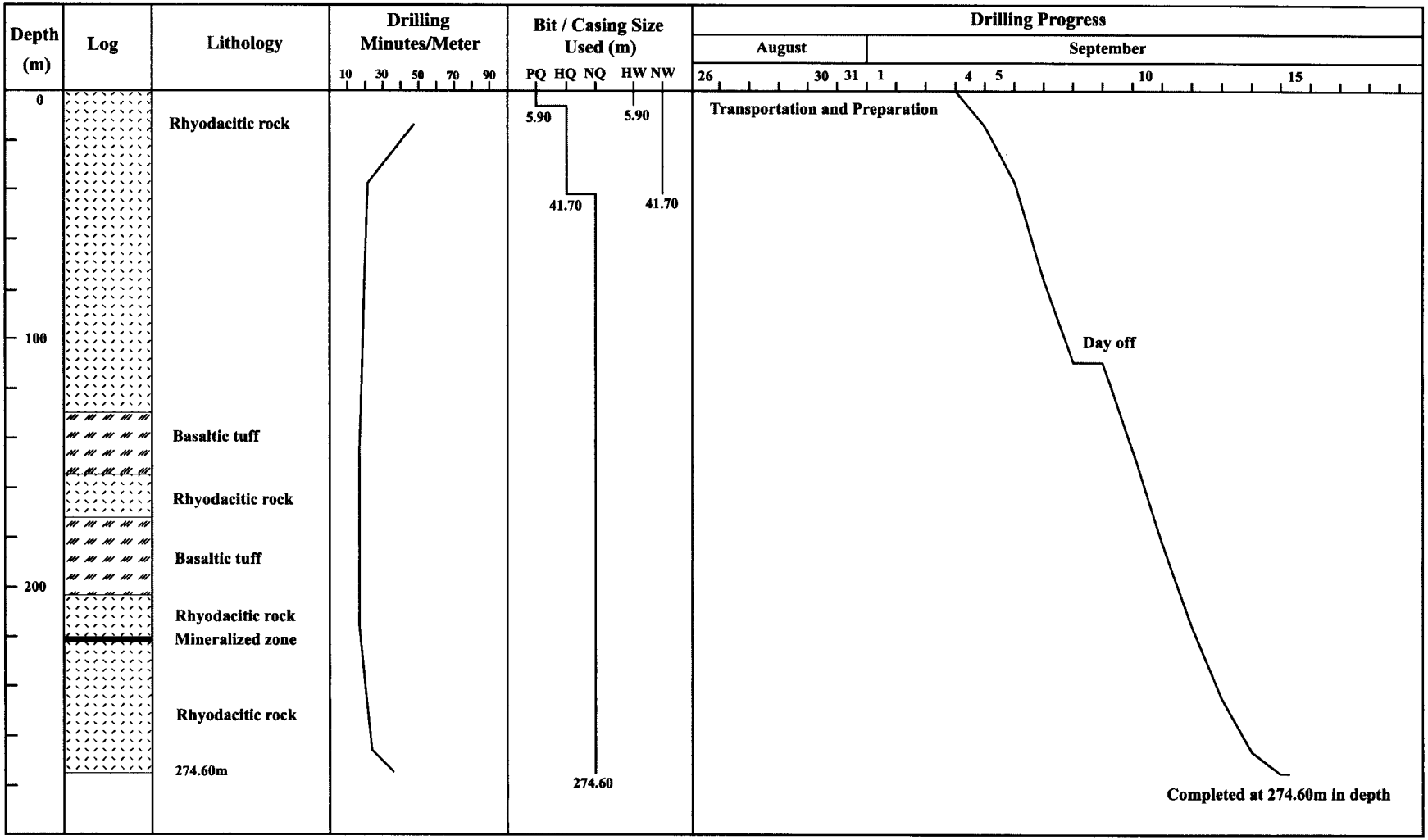
Drilling Length / Each Diameter (m)		
Bit Size	Drilling Length	Core Length
PQ	5.95	5.95
HQ	26.80	26.80
NQ	241.85	241.85

Appendix 17 Record of Drilling Operation of MJSU-14

Date	Drilling Length		Daily Total				Shift		Man Working	
	Shift 1	Shift 2	Drilling		Core Length		Drilling	Total	Engineer	Worker
	(m)	(m)	(m)	(Cum. m)	(m)	(Cum. m)	(Shift)	(Shift)	(man)	(man)
Aug. 26	Transportation							1	7	
Aug. 27	Transportation							1	7	
Aug. 28	Preparation							1	7	2
Aug. 29	Preparation							1	7	2
Aug. 30	Preparation							1	7	2
Aug. 31	Preparation							1	7	2
Sep. 01	Day off									
Sep. 02	Preparation							1	7	2
Sep. 03	Preparation							1	7	2
Sep. 04	3.80	9.65	13.45	13.45	13.45	13.45	2	2	7	2
Sep. 05	11.35	12.30	23.65	37.10	23.65	37.10	2	2	7	2
Sep. 06	19.00	20.00	39.00	76.10	39.00	76.10	2	2	7	2
Sep. 07	16.20	17.00	33.20	109.30	33.20	109.30	2	2	7	2
Sep. 08	Day off									
Sep. 09	16.60	18.50	35.10	144.40	35.10	144.40	2	2	7	2
Sep. 10	21.50	15.20	36.70	181.10	36.70	181.10	2	2	7	2
Sep. 11	22.50	11.90	34.40	215.50	34.40	215.50	2	2	7	2
Sep. 12	12.45	16.15	28.60	244.10	28.60	244.10	2	2	7	2
Sep. 13	15.00	6.00	21.00	265.10	21.00	265.10	2	2	7	2
Sep. 14	6.00	3.50	9.50	274.60	9.50	274.60	2	2	7	2
Sep. 15	Day off									
Sep. 16										
Total			274.60		274.60		20	28	126	32

Appendix 18 Drilling Progress of MJSU-14

MJSU-14



Appendix 19 Summary of Drilling Operation of MJSU-15

MJSU-15 Operation	Suvey Period					Total Man-day	
	Period		Day	Work Day	Off Day	Engineer	Worker
Transportation/Preparation	Oct 11, 2000						
Drilling	Oct 11 - Nov. 8, 2000		29	25	4	171	49
Dismantling	Nov. 9, 2000		1	1		7	2
Total			30	26	4	178	51
Drilling Length	(m)		(m)	Core Recovery of Each 100m Hole			
Length Planned	375.00	Overburden	1.80	Depth of Hole (m)	Core Recovery (%)	Cumulative Core Recovery (%)	
Increase/Decrease in Length	0.65	Core Length	373.85				
Length Drilled	375.65	Core Recovery	99.5	0.00 to 100.00	98.2	98.2	
				100.00 to 200.00	100.0	99.1	
Working Hours	(h)	(%)	(%)	200.00 to 300.00	100.0	99.4	
Drilling	92.3	61.5	45.6	200.00 to 375.65	100.0	99.5	
Other Work	57.7	38.5	28.5				
Recovering			0.0	Efficiency of Drilling			
Subtotal	150.0	100.0	74.1	Total Length / Drilling	m	day	m/day
Preparation	35.0		17.3	Period	375.65	29.0	12.95
Dismantlement	2.5		1.2	Total Length / Total	m	shift	m/shift
Transportation	15.0		7.4	Drilling Shifts	375.65	49.0	7.67
Grand Total	202.5		100.0	Drilling Length / Each Diameter (m)			

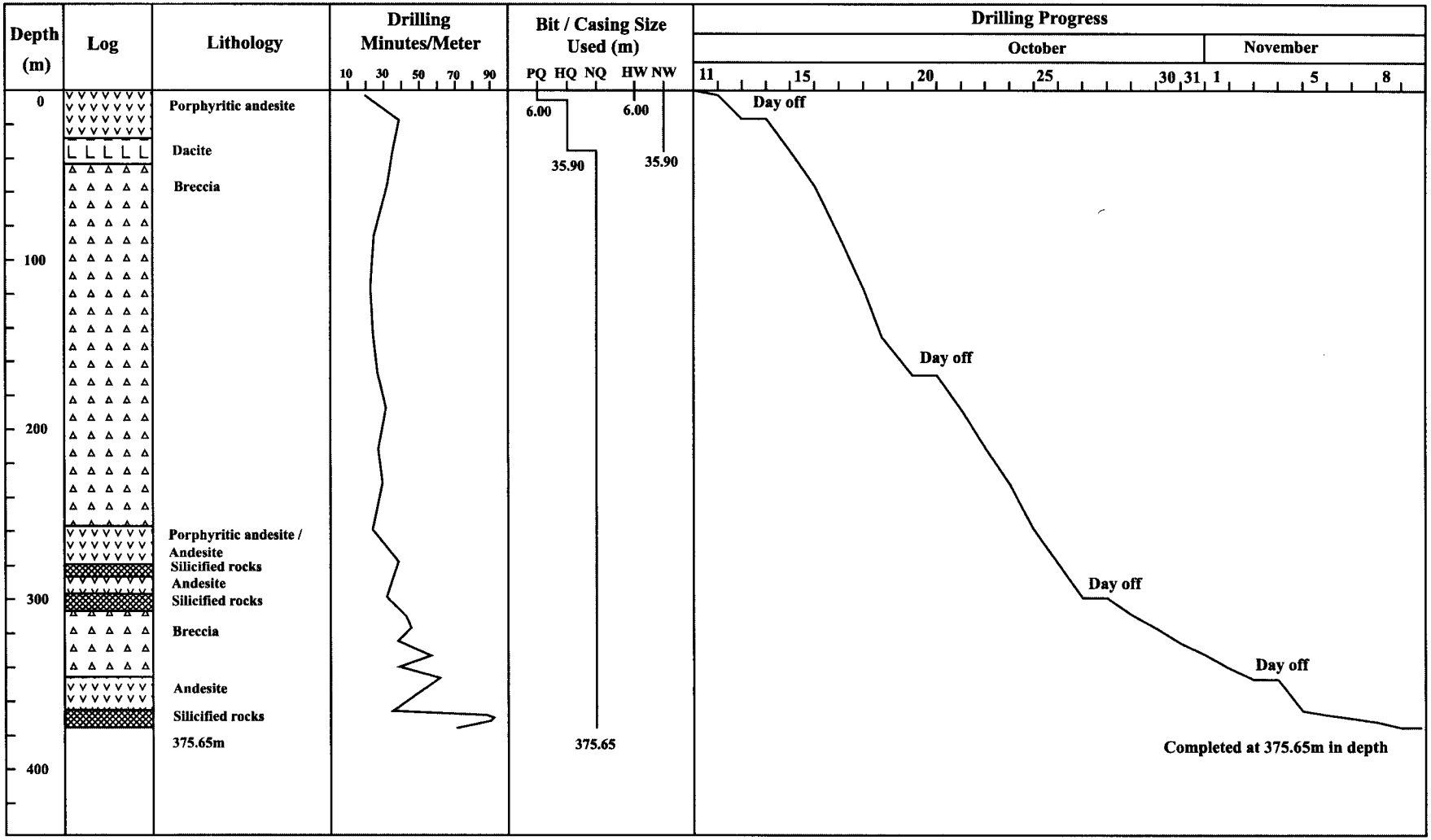
Casing Pipe Inserted				Bit Size	Drilling Length	Core Length
Size	Metrage (m)	Metrage/Drilling Length (%)	Recovery (%)	PQ	6.00	4.20
				HQ	29.90	29.90
HW	6.00	1.6	100.0	NQ	339.75	339.75
NW	35.90	9.6	100.0			

Appendix 20 Record of Drilling Operation of MJSU-15

Date	Drilling Length		Daily Total				Shift		Man Working	
	Shift 1 (m)	Shift 2 (m)	Drilling (m)	Drilling (Cum. m)	Core Length (m)	Core Length (Cum. m)	Drilling (Shift)	Total (Shift)	Engineer (man)	Worker (man)
Oct. 11		3.05	3.05	3.05	1.25	1.25	1	1	3	1
Oct. 12	8.00	6.00	14.00	17.05	14.00	15.25	2	2	7	2
Oct. 13	Day off									
Oct. 14	12.65	6.20	18.85	35.90	18.85	34.10	2	2	7	2
Oct. 15	10.90	9.40	20.30	56.20	20.30	54.40	2	2	7	2
Oct. 16	12.80	16.80	29.60	85.80	29.60	84.00	2	2	7	2
Oct. 17	16.20	15.00	31.20	117.00	31.20	115.20	2	2	7	2
Oct. 18	15.55	13.25	28.80	145.80	28.80	144.00	2	2	7	2
Oct. 19	12.00	9.00	21.00	166.80	21.00	165.00	2	2	7	2
Oct. 20	Day off									
Oct. 21	8.95	12.05	21.00	187.80	21.00	186.00	2	2	7	2
Oct. 22	11.85	11.80	23.65	211.45	23.65	209.65	2	2	7	2
Oct. 23	6.20	14.00	20.20	231.65	20.20	229.85	2	2	7	2
Oct. 24	7.00	20.15	27.15	258.80	27.15	257.00	2	2	7	2
Oct. 25	7.95	11.05	19.00	277.80	19.00	276.00	2	2	7	2
Oct. 26	10.20	10.80	21.00	298.80	21.00	297.00	2	2	7	2
Oct. 27	Day off									
Oct. 28	3.75	5.95	9.70	308.50	9.70	306.70	2	2	7	2
Oct. 29	2.85	5.25	8.10	316.60	8.10	314.80	2	2	7	2
Oct. 30	4.15	5.00	9.15	325.75	9.15	323.95	2	2	7	2
Oct. 31	4.35	2.00	6.35	332.10	6.35	330.30	2	2	7	2
Nov. 1	5.70	2.80	8.50	340.60	8.50	338.80	2	2	7	2
Nov. 2	1.95	4.20	6.15	346.75	6.15	344.95	2	2	7	2
Nov. 3	Day off									
Nov. 4	11.25	7.65	18.90	365.65	18.90	363.85	2	2	7	2
Nov. 5	1.50	0.95	2.45	368.10	2.45	366.30	2	2	7	2
Nov. 6	1.10	0.95	2.05	370.15	2.05	368.35	2	2	7	2
Nov. 7	1.10	0.75	1.85	372.00	1.85	370.20	2	2	7	2
Nov. 8	1.90	1.75	3.65	375.65	3.65	373.85	2	2	7	2
Nov. 9	Dismantlement							1	7	2
Nov. 10	Day off									
Nov. 11	Dismantlement							1	7	2
Nov. 12	Dismantlement							1	7	2
Nov. 13	Dismantlement							1	7	2
Total			375.65		373.85		49	53	199	57

Appendix 21 Drilling Progress of MJSU-15

MJSU-15



Appendix 22 Summary of Drilling Operation of MJSU-16

MJSU-16 Operation	Suvey Period					Total Man-day	
	Period		Day	Work Day	Off Day	Engineer	Worker
Transportation/Preparation	Oct. 24, 2000						
Drilling	Oct 24 - Oct.31,2000		8	7	1	49	14
Dismantling	Nov. 1,2000		1	1		7	2
Total			9	8	1	56	16

Drilling Length	(m)		(m)
Length Planned	200.00	Overburden	1.70
Increase/Decrease in Length	10.00	Core Length	208.30
Length Drilled	210.00	Core Recovery	99.2

Working Hours	(h)	(%)	(%)
Drilling	79.1	76.8	70.3
Other Work	23.9	23.2	21.2
Recovering			0.0
Subtotal	103.0	100.0	91.6
Preparation	2.0		1.8
Dismantlement	7.5		6.7
Transportation			0.0
Grand Total	112.5		100.0

Core Recovery of Each 100m Hole		
Depth of Hole (m)	Core Recovery (%)	Cumulative Core Recovery (%)
0.00 to 100.00	98.3	98.3
100.00 to 200.00	100.0	99.2
200.00 to 210.00	100.0	99.2

Efficiency of Drilling			
	m	day	m/day
Total Length / Drilling Period	210.00	8.0	26.25
	m	shift	m/shift
Total Length / Total Drilling Shifts	210.00	14.0	15.00

Casing Pipe Inserted			
Size	Metrage (m)	Metrage/Drilling Length (%)	Recovery (%)
HW	6.00	2.9	100.0
NW	35.90	17.1	100.0

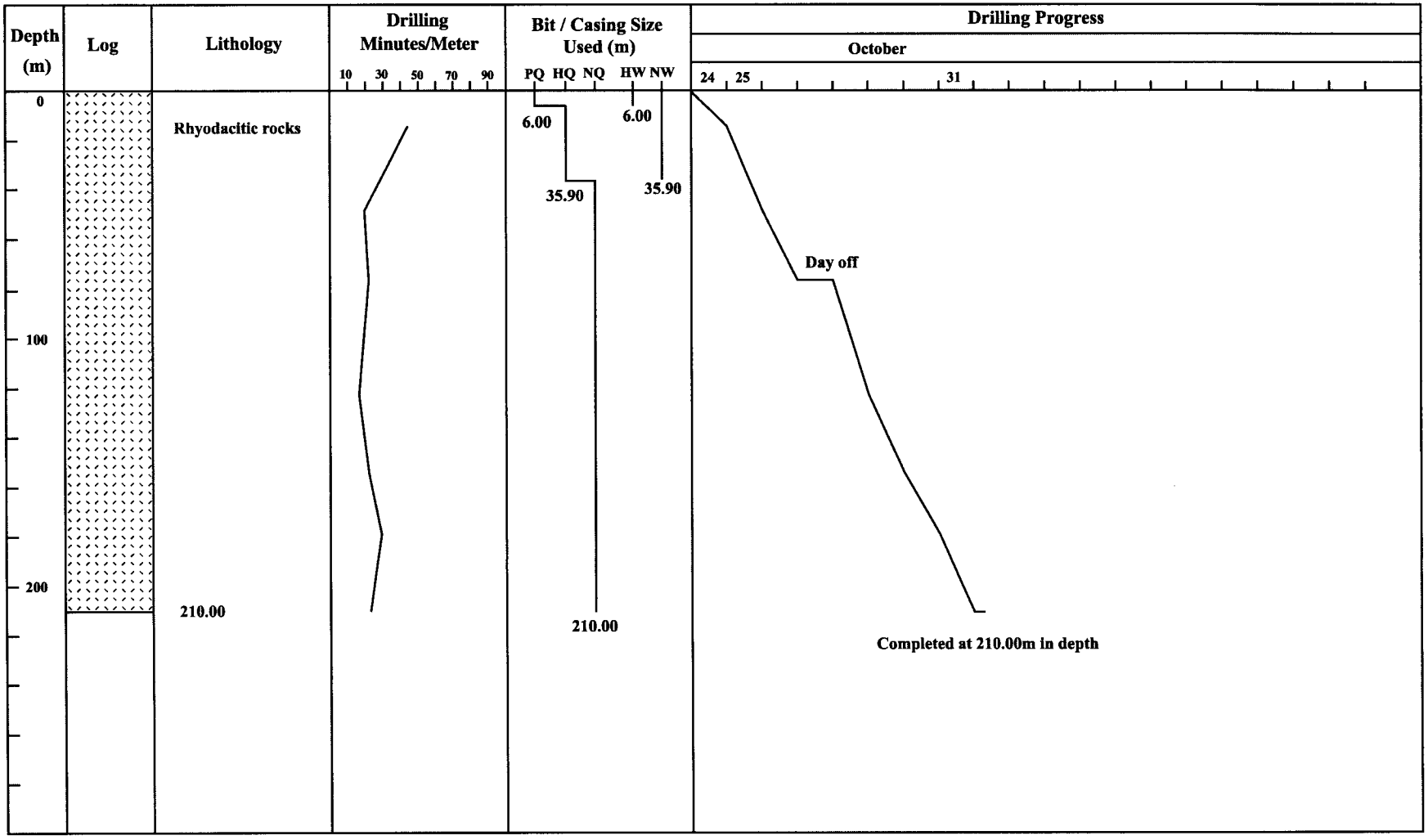
Drilling Length / Each Diameter (m)		
Bit Size	Drilling Length	Core Length
PQ	6.00	4.30
HQ	29.90	29.90
NQ	174.10	174.10

Appendix 23 Record of Drilling Operation of MJSU-16

Date	Drilling Length		Daily Total				Shift		Man Working	
	Shift 1 (m)	Shift 2 (m)	Drilling (m)	Drilling (Cum. m)	Core Length (m)	Core Length (Cum. m)	Drilling (Shift)	Total (Shift)	Engineer (man)	Worker (man)
Oct. 24	6.00	8.00	14.00	14.00	12.30	12.30	2	2	7	2
Oct. 25	14.20	20.00	34.20	48.20	34.20	46.50	2	2	7	2
Oct. 26	19.50	8.40	27.90	76.10	27.90	74.40	2	2	7	2
Oct. 27	Day off									
Oct. 28	25.20	21.00	46.20	122.30	46.20	120.60	2	2	7	2
Oct. 29	15.60	15.85	31.45	153.75	31.45	152.05	2	2	7	2
Oct. 30	9.35	15.60	24.95	178.70	24.95	177.00	2	2	7	2
Oct. 31	17.40	13.90	31.30	210.00	31.30	208.30	2	2	7	2
Nov. 1	Dismantlement							1	7	2
Nov. 2										
Total			210.00		208.30		14	15	56	16

Appendix 24 Drilling Progress of MJSU-16

MJSU-16



Appendix 25 Drilling Meterage of Diamond Bits Used

Item	Size	Bit No.	Drilling Meterage／Each Bit								Total (m)
			MJSU-14	MJSU-9	MJSU-13	MJSU-16	MJSU-10	MJSU-11	MJSU-12	MJSU-15	
Diamond Bit	PQ	#845578/8	5.95	5.90	3.00	6.00					20.85
		#843657/6					1.30		2.20	6.00	9.50
		#19907					6.80	10.10	1.80		18.70
		#19911					5.50				5.50
		Subtotal	5.95	5.90	3.00	6.00	13.60	10.10	4.00	6.00	54.55
		Average									13.64
	HQ	#3987-12/9	26.80	7.50		17.25					51.55
		#8460118/10		0.60							0.60
		#9383402/9		11.15							11.15
		#9283407/9		5.10							5.10
		#9283403/9		7.40							7.40
		#81737		4.05	26.90	2.00					32.95
		#9283647/9				4.60					4.60
		#R68309					34.30				34.30
		#9283409/9						25.80			25.80
		#928364/9							20.70	29.90	50.60
		Subtotal	26.80	35.80	26.90	23.85	34.30	25.80	20.70	29.90	224.05
		Average									22.41
	NQ	#186547/10		5.90							5.90
		#186548/10	3.00	2.95							5.95
		#186549/10								2.60	2.60
		#186552/10		49.95							49.95
		#2143133/10			1.10						1.10
		#2143136/10	20.50	27.75							48.25
		#2143138/10			4.65					40.85	45.50
		#2143139/10								7.40	7.40
		#2143141/10								21.10	21.10
		#2143142/10			20.35	38.45					58.80
		#8459201/10		4.90							4.90
		#8459352/10								0.40	0.40
		#8459365/10								0.70	0.70
		#8459367/10	7.60	3.50							11.10
		#8459368/10								1.70	1.70
		#8459369/10								1.75	1.75
		#8459371/10		2.80							2.80
		#8459373/10								1.70	1.70
		#8459374/10			48.80	55.80					104.60
		#8459375/10								8.20	8.20
		#8459376/10								27.10	27.10
		#8459379/10								6.55	6.55
		#8459382/10								3.45	3.45
		#8459383/10								8.75	8.75
		#8459384/10			39.75						39.75
		#8459385/10						22.30		21.30	43.60
		#8459386/10								9.50	9.50
		#8459387/10		14.90	2.00						16.90
		#8459389/10								4.45	4.45
		#8459391/10				53.90				0.25	54.15
		#8459392/10								2.60	2.60
		#8459393/10								23.10	23.10
		#8459396/10								17.45	17.45
		#8459398/10			27.65						27.65
		#8459399/10		59.85	38.55	27.00					125.40
		#8459400/10		16.70	16.70						33.40
		#8459401/10								56.25	56.25
		#8459884/10			1.00						1.00
		#9284225/9					64.00	10.00			74.00
		#9284329/9		24.05							24.05
		#9284334/9					61.65				61.65
		#9284335/9					39.15				39.15
		#9284337/9	76.55								76.55
		#9284761/9		17.90							17.90
		#9284856/9						76.25	3.00		79.25
		#9284865/9		42.55	2.10						44.65
		#9284869/9								20.90	20.90
		#9284875/9			17.45						17.45
		#9284876/9				5.00					5.00
		#9284881/9	36.85	1.95							38.80
		#9284885/9		18.65							18.65
		#9284896/9					114.70				114.70
		#9284897/9					23.00				23.00
		#9284901/9		44.00							44.00
		#9284966/9								37.50	37.50
		#9284967/9							222.30		222.30
		#9284969/9						105.65			105.65
		#9284970/9								14.20	14.20
		#9739333/9	97.35								97.35
		Subtotal	241.85	338.30	220.10	180.15	302.50	214.20	225.30	339.75	2,062.15
		Average									34.95
		Total	274.60	380.00	250.00	210.00	350.40	250.10	250.00	375.65	2,340.75

Item	Size	Bit No.	Drilling Meterage／Each Reaming Shell								Total (m)
			MJSU-14	MJSU-9	MJSU-13	MJSU-16	MJSU-10	MJSU-11	MJSU-12	MJSU-15	
Reaming Shell	PQ	#81626	5.95	5.90	3.00	6.00					20.85
		#83516					13.60	10.10	4.00	6.00	33.70
	HQ	#53972	26.80	35.80	26.90	22.20					111.70
		#6WR1746					34.30	25.80	20.70	29.90	110.70
	NQ	#8795112	241.85	338.30	220.10	181.80					982.05
		#879529					302.50	214.20	225.30		742.00
		#8795126								339.75	339.75
		Total	274.60	380.00	250.00	210.00	350.40	250.10	250.00	375.65	2,340.75

Appendix 26 Consumables Used

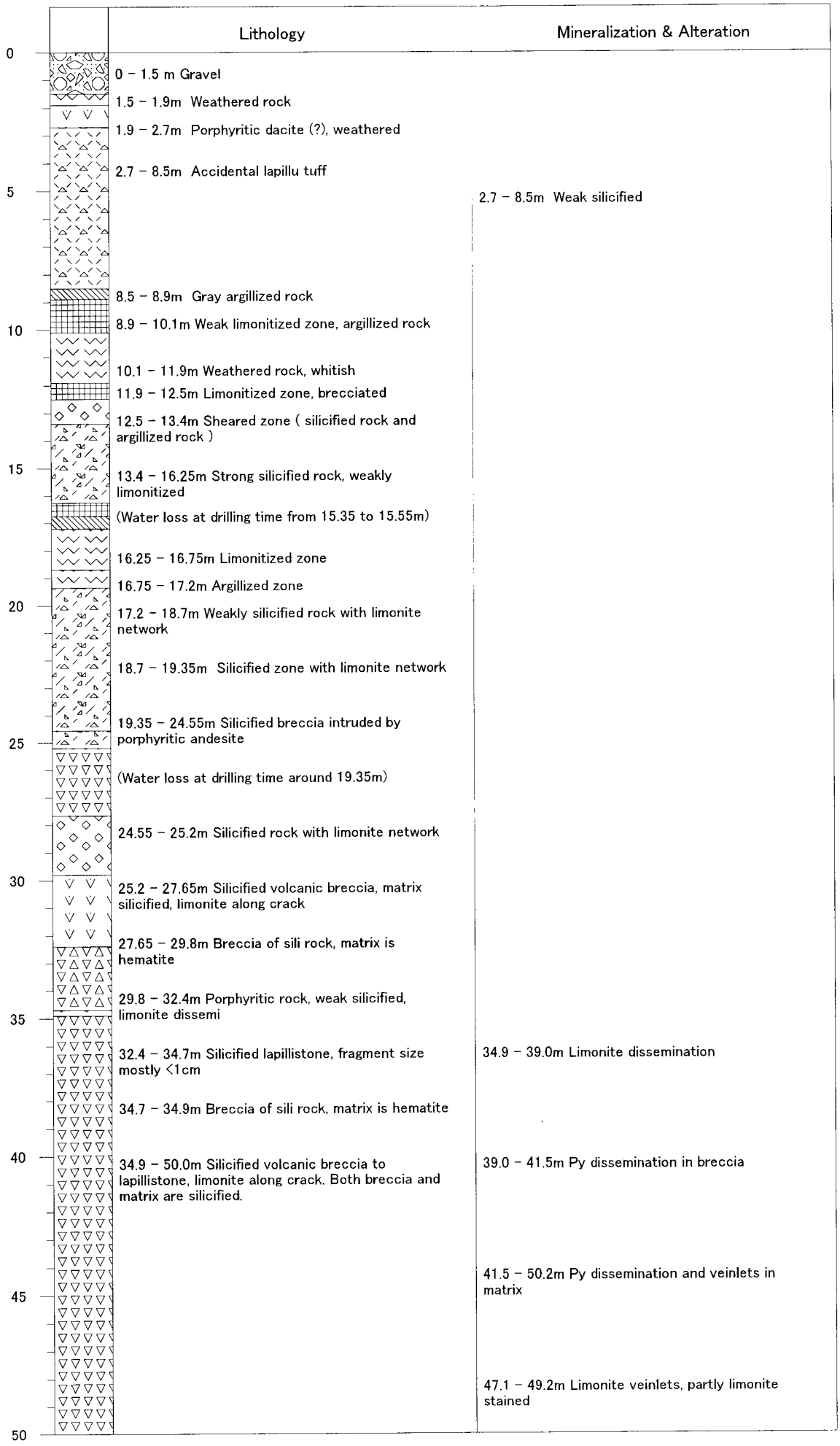
Expendable Items	Spec.	Unit	Drill Hole No.								Total Amount
			MJSU-9	MJSU-10	MJSU-11	MJSU-12	MJSU-13	MJSU-14	MJSU-15	MJSU-16	
Diesel Fuel		l	1,855	1,505	960	820	1,235	990	2,370	695	10,430
Gasoline		l	398	278	195	165	263	190	485	138	2,112
Hydraulic. Oil		l	20			20	20	4	20		84
Engine Oil		l	60	10	42	22	42	40	91	20	326
Gear Oil		l	3	1	1		2	3	5		15
Grease		kg	15	8	12	2	10	8	15	6	76
Polymer GS550		kg	243	196	128	117	141	123	248	77	1,273
GS20		l					31		10		41
Lubtub		kg	10	20	25	20	3		7		85
Solcut		l	141		18	10	78	76	28	35	386
Stop Plus		kg	7	3	2	2	7	2	9	1	33
Inner Tube	PQ	pcs		1				1			2
Outer Tube	PQ	pcs		1				1			2
Adapter Coupling	PQ	pcs		1				1			2
Locking Coupling	PQ	pcs		1				1			2
Landing Ring	PQ	pcs						1			1
Stop Ring	PQ	pcs	1					1			2
Core Lifter	PQ	pcs	1	1				1			3
Core Lifter Case	PQ	pcs	1	1				1			3
Inner Tube	HQ	pcs		1				2			3
Outer Tube	HQ	pcs		2				1			3
Inner Tube Head Assem.	HQ	pcs		1				2			3
Adapter Coupling	HQ	pcs		1				1			2
Locking Coupling	HQ	pcs		1				1			2
Landing Ring	HQ	pcs						1			1
Stop Rong	HQ	pcs						2			2
Core Lifter	HQ	pcs	4			1		2			7
Core Lifter Case	HQ	pcs				1		2			3
Inner Tube	NQ	pcs		3			2	2			7
Outer Tube	NQ	pcs		1				1	1		3
Inner Tube Head Assem.	NQ	pcs		1				2			3
Adapter Coupling	NQ	pcs	1	1	1			1	2	1	7
Locking Coupling	NQ	pcs	1	1	1			1	2	1	7
Landing Ring	NQ	pcs		1				1		1	3
Stop Ring	NQ	pcs	1	2				2			5
Core Lifter	NQ	pcs	13	6	7	2	4	6	5	3	46
Core Lifter Case	NQ	pcs	4	5	1			3	1		14
Stabilizer	NQ	pcs		1						1	2
Shut off Valve	NQ	pcs					2	2			4
Core Box	PQ	pcs	3	5	4	2	2	2	3	3	24
Core Box	HQ	pcs	11	9	8	6	8	5	9	7	63
Core Box	NQ	pcs	75	67	47	50	50	57	74	39	459
Water (m^3)			400	260	170	120	270	200	410	110	1,940

Appendix 27　Geological Log of MJSU-9 to MJSU-16

Drill Hole No. : MJSU-9 Date Started Sep. 16, 2000 Date Completed : Oct. 8, 2000

Easting : E 707.184 Northing : N 2,620.785 Elevation (mSL) : 966

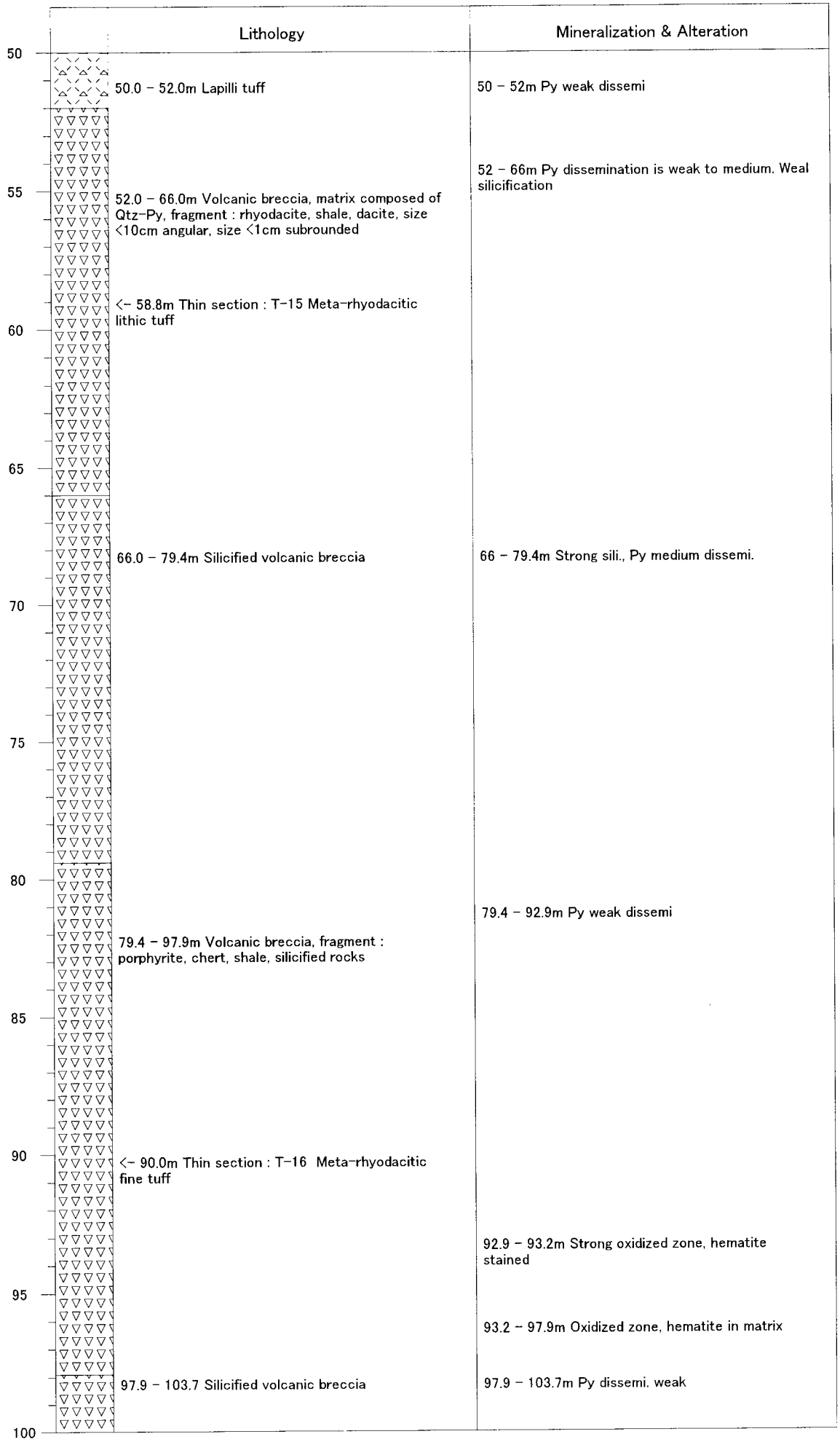
Azimuth : 155 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-9 Date Started Sep. 16, 2000 Date Completed : Oct. 8, 2000

Easting : E 707.184 Northing : N 2,620.785 Elevation (mSL) : 966

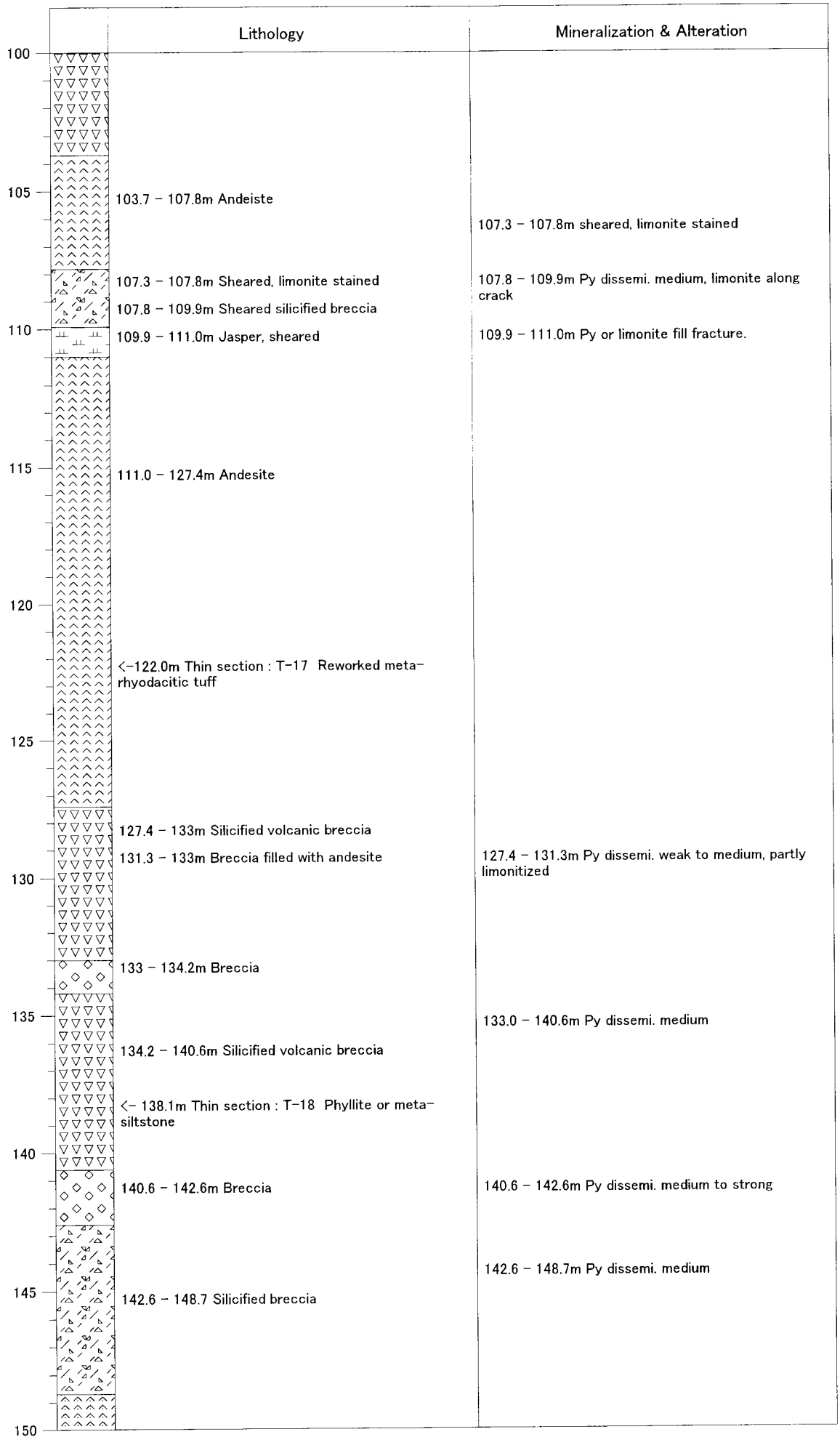
Azimuth : 155 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-9 Date Started Sep. 16, 2000 Date Completed : Oct. 8, 2000

Easting : E 707.184 Northing : N 2,620.785 Elevation (mSL) : 966

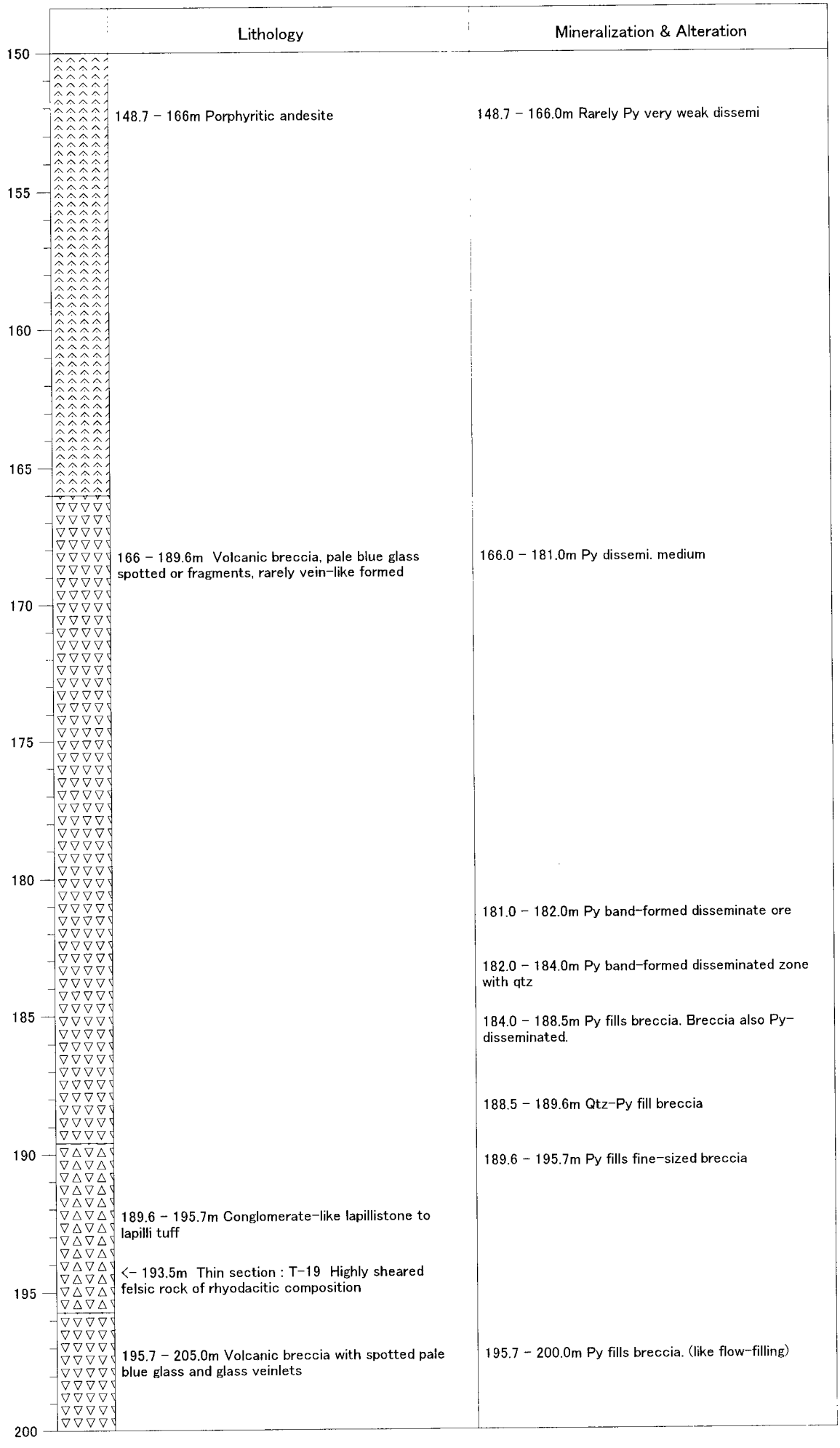
Azimuth : 155 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-9 Date Started Sep. 16, 2000 Date Completed : Oct. 8, 2000

Easting : E 707.184 Northing : N 2,620.785 Elevation (mSL) : 966

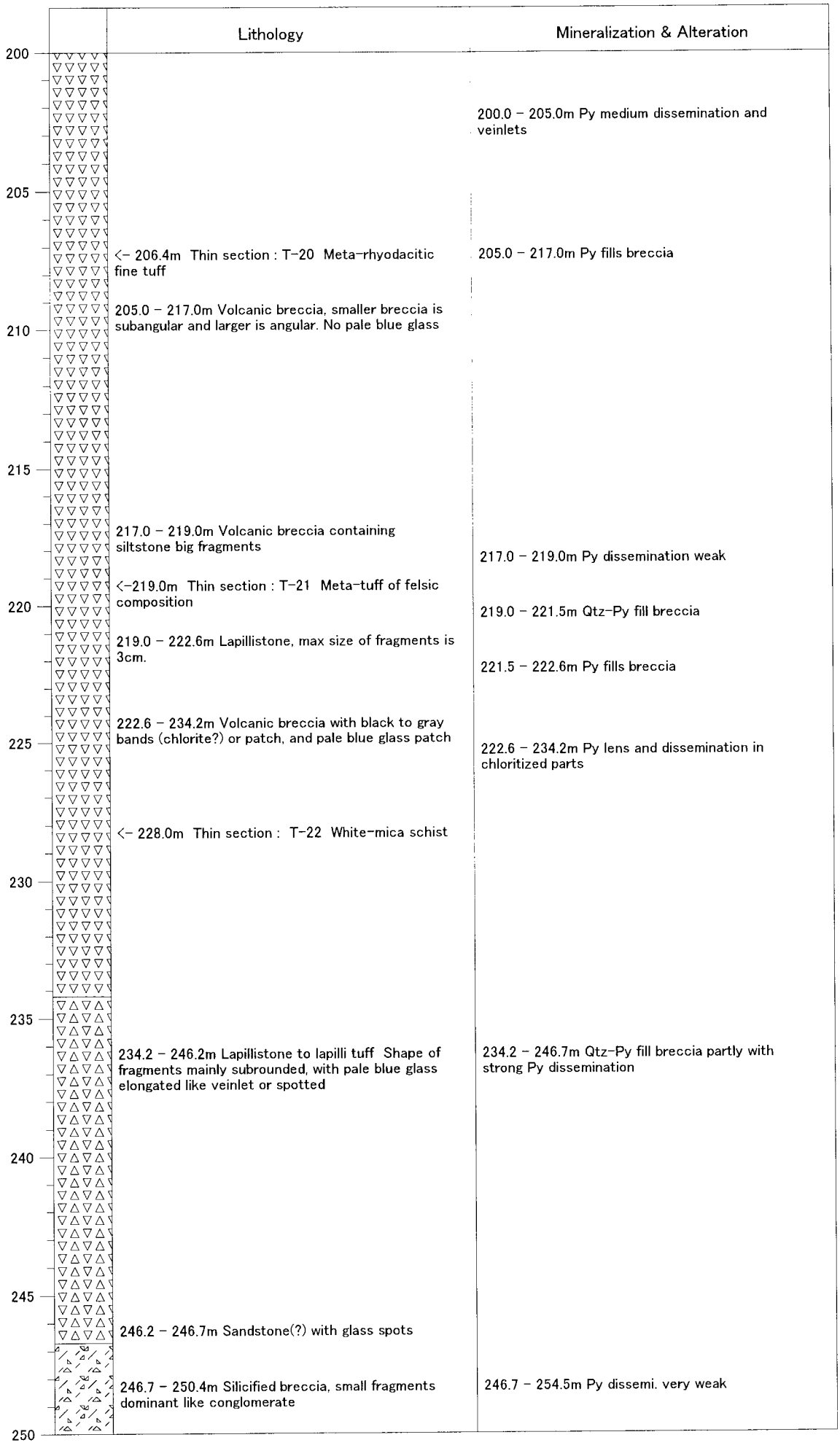
Azimuth : 155 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-9 Date Started Sep. 16, 2000 Date Completed : Oct. 8, 2000

Easting : E 707.184 Northing : N 2,620.785 Elevation (mSL) : 966

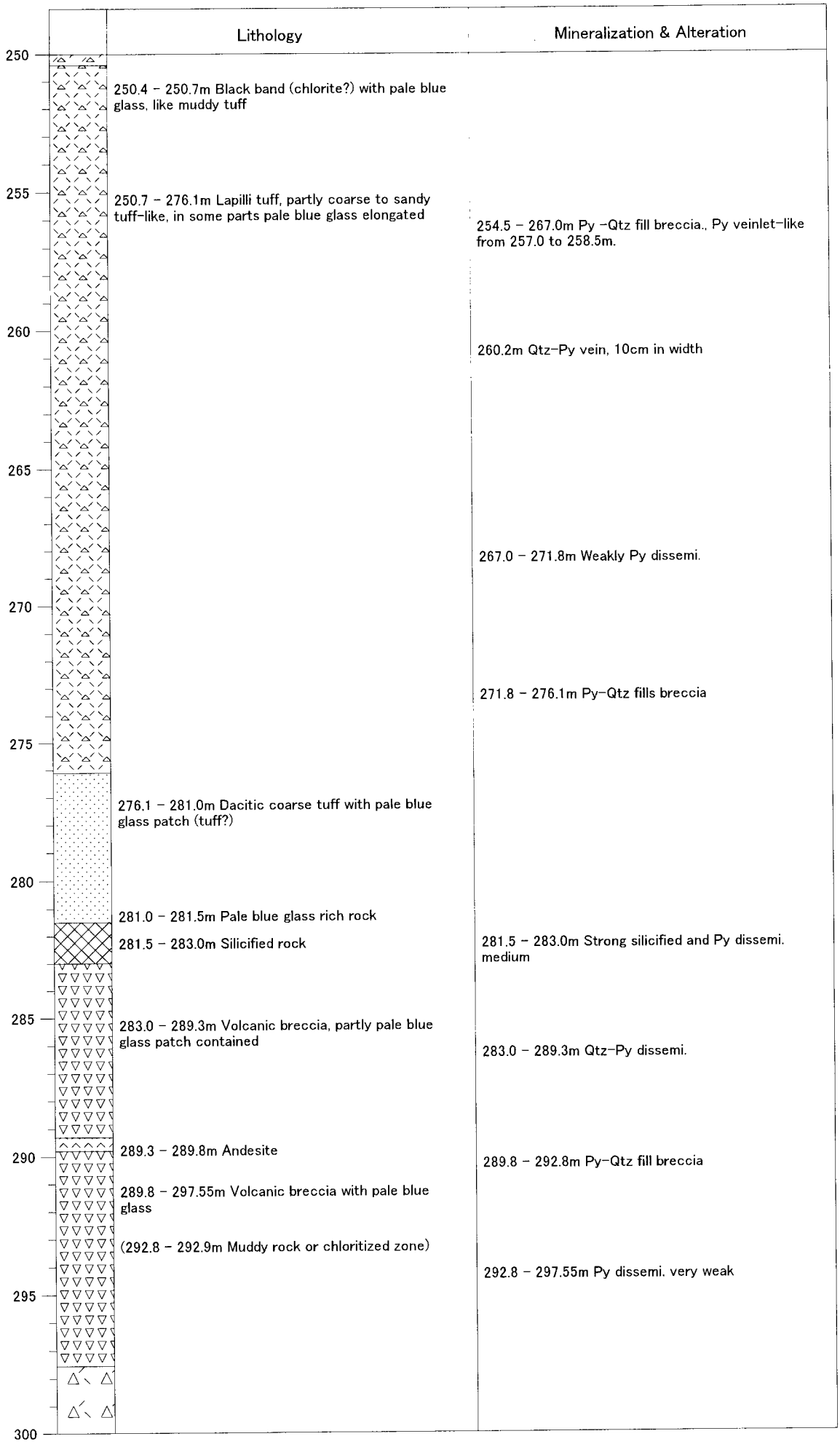
Azimuth : 155 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-9 Date Started Sep. 16, 2000 Date Completed : Oct. 8, 2000

Easting : E 707.184 Northing : N 2,620.785 Elevation (mSL) : 966

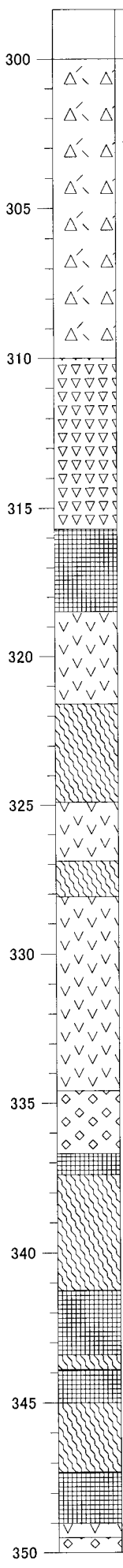
Azimuth : 155 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-9 Date Started Sep. 16, 2000 Date Completed : Oct. 8, 2000

Easting : E 707.184 Northing : N 2,620.785 Elevation (mSL) : 966

Azimuth : 155 Inclination : -55 Drilled by SGS/BRGM

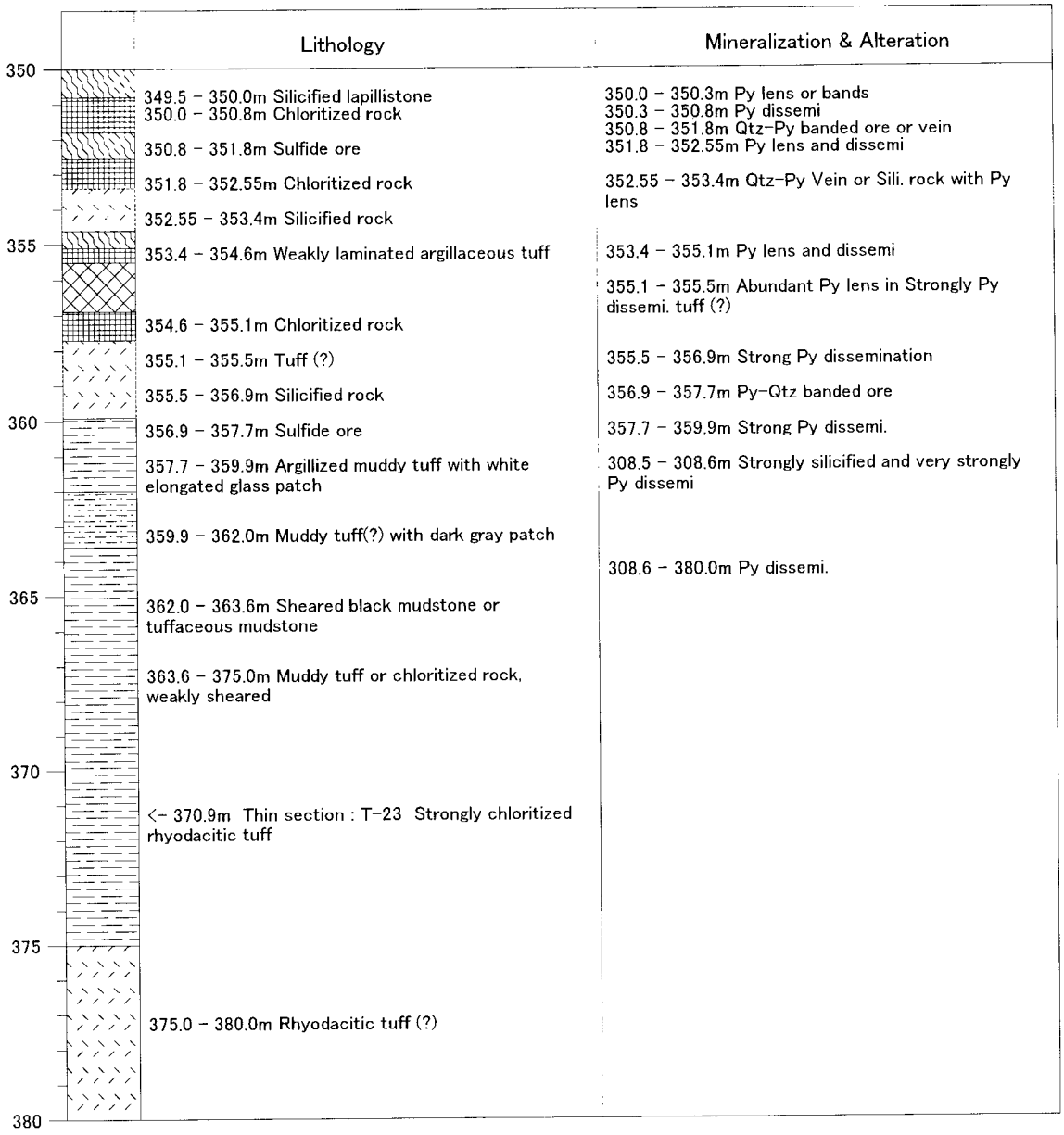


Lithology	Mineralization & Alteration
297.55 – 310.0m Volcanic breccia or tuff breccia with elongated glass patch. Frgaments are mainly angular.	297.55 – 310.0m Py fills breccia
	306.4 – 309.0m Strong silicified
310.0 – 315.7m Volcanic breccia with pale blue glass	310.0 – 315.7m Py lensy dissemination medium to strong
315.7 – 318.5m Mineralized zone, partly strongly chloritized and weakly epidotized	315.7 – 318.5m Py-Qtz veinlets and Py strong dissemi
318.5 – 321.6m Silicified dacite(?)	318.5 – 321.6m Qtz-Py veinlets 3 to 4/m, but Py dissemi. very weak
	321.6 – 324.9m Py veinlets or lens abundant
321.6 – 324.9m Chloritized tuff(?)	
324.9 – 326.9m Dacite with qtz and green patch (intrusive)	
326.9 – 328.1m Chloritized rock	326.9 – 328.1m Py lens abundant
328.1 – 334.6m Dacite (?, intrusive)	
	331.1m Qtz (-Py) vein 4cm wide
	334.6 – 336.7m Py-Qtz fill fine-sized breccia
334.6 – 337.4m Lapillistone	
337.4 – 339.7m Chloritized zone, a side of core consists of dacite	336.7 – 337.4m Py fills fine-sized breccia
	337.4 – 339.7m Abundant Py lens in chloritized zone
339.7 – 339.9m Silicified breccia	
339.9 – 341.25m Chloritized zone	339.7 – 341.25m Py-chlorite banded zone, partly cutted by Qtz-Py vein
341.25 – 343.4m Sulfide ore	341.25 – 343.4m Py-Qtz banded ore
343.4 – 343.9m Chloritized rock	343.4 – 343.9m Py banded dissemination
343.9 – 345.0m Sulfide ore	343.9 – 345.0m Py-Qtz banded ore, cutted by Qtz vein (2cm in width)
345.0 – 347.3m Chloritized rock	345.0 – 347.3m Py dissemi. strong
	347.3 – 349.0m Banded ore with Py (-Cp) – Qtz, cutted by Qtz-Py veinlets
347.3 – 349.0m Sulfide ore	
349.0 – 349.5m Dacite (?)	349.5 – 350.0m Py-Qtz fill fine-grained breccia, cutted by Qtz-Py vein

Drill Hole No. : MJSU-9 Date Started Sep. 16, 2000 Date Completed : Oct. 8, 2000

Easting : E 707.184 Northing : N 2,620.785 Elevation (mSL) : 966

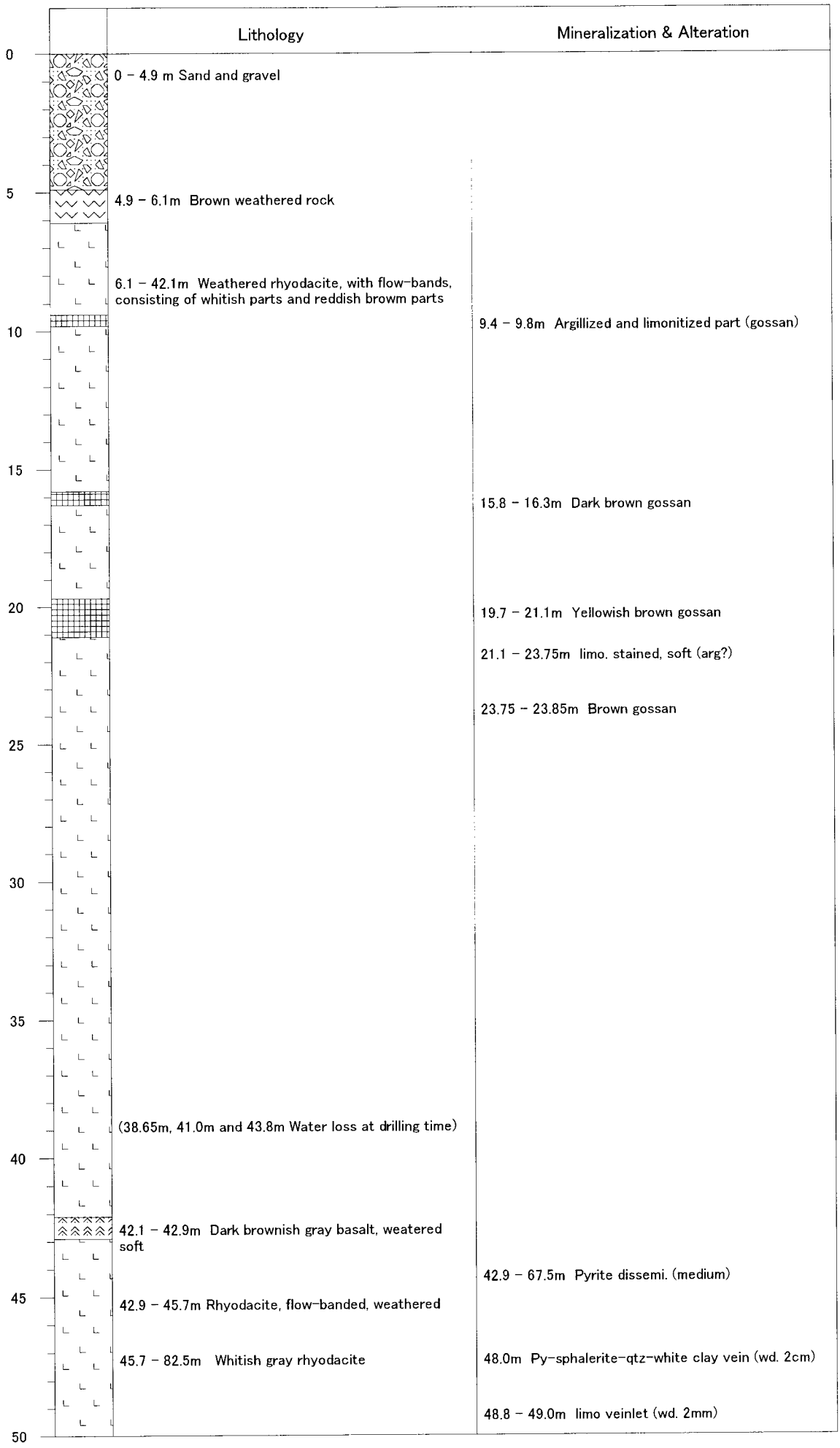
Azimuth : 155 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-10 Date Started Sep. 05, 2000 Date Completed : Sep. 22, 2000

Easting : E 709.028 Northing : N 2,618.808 Elevation (mSL) : 954

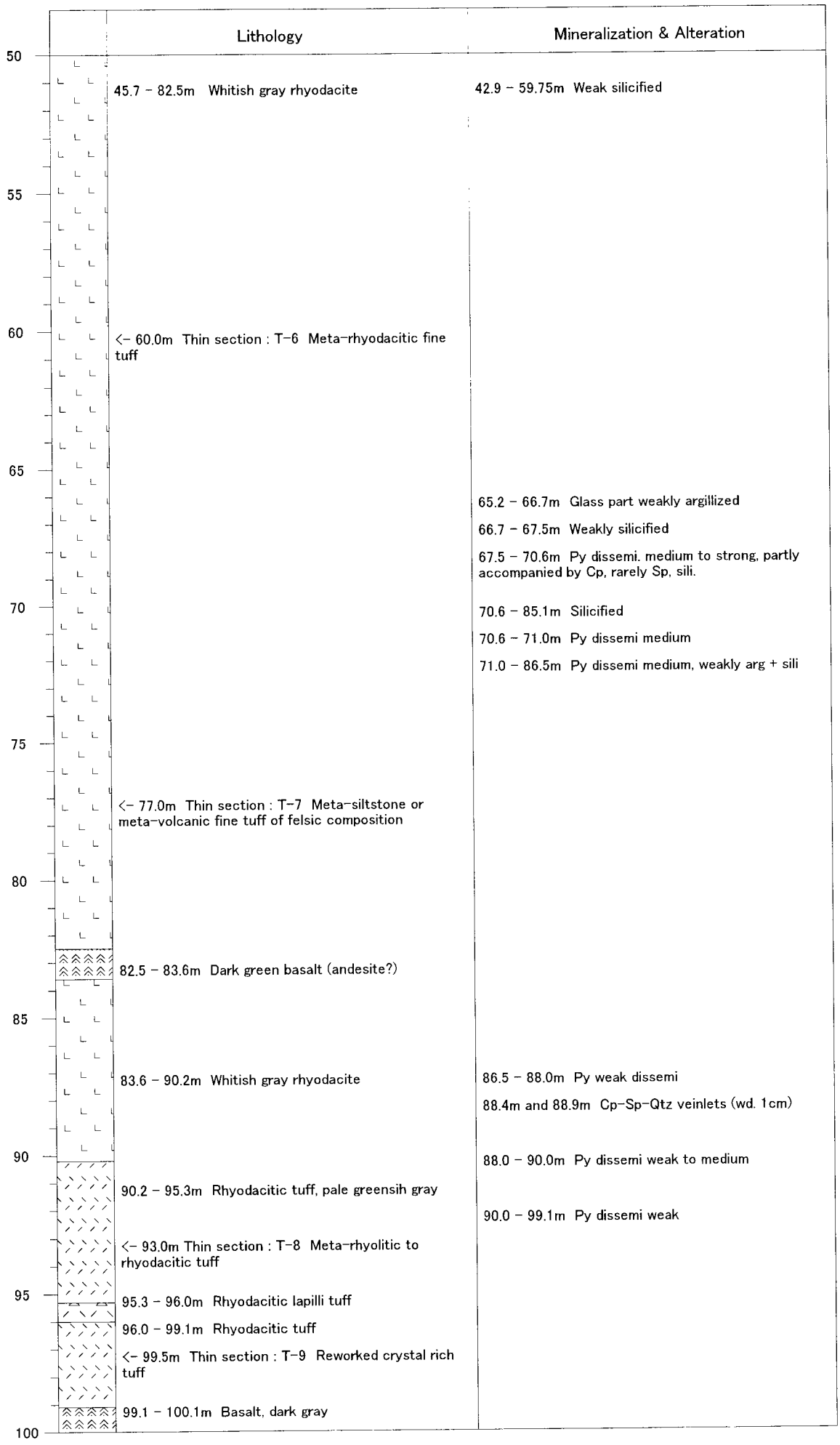
Azimuth : 300 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-10 Date Started Sep. 05, 2000 Date Completed : Sep. 22, 2000

Easting : E 709.028 Northing : N 2,618.808 Elevation (mSL) : 954

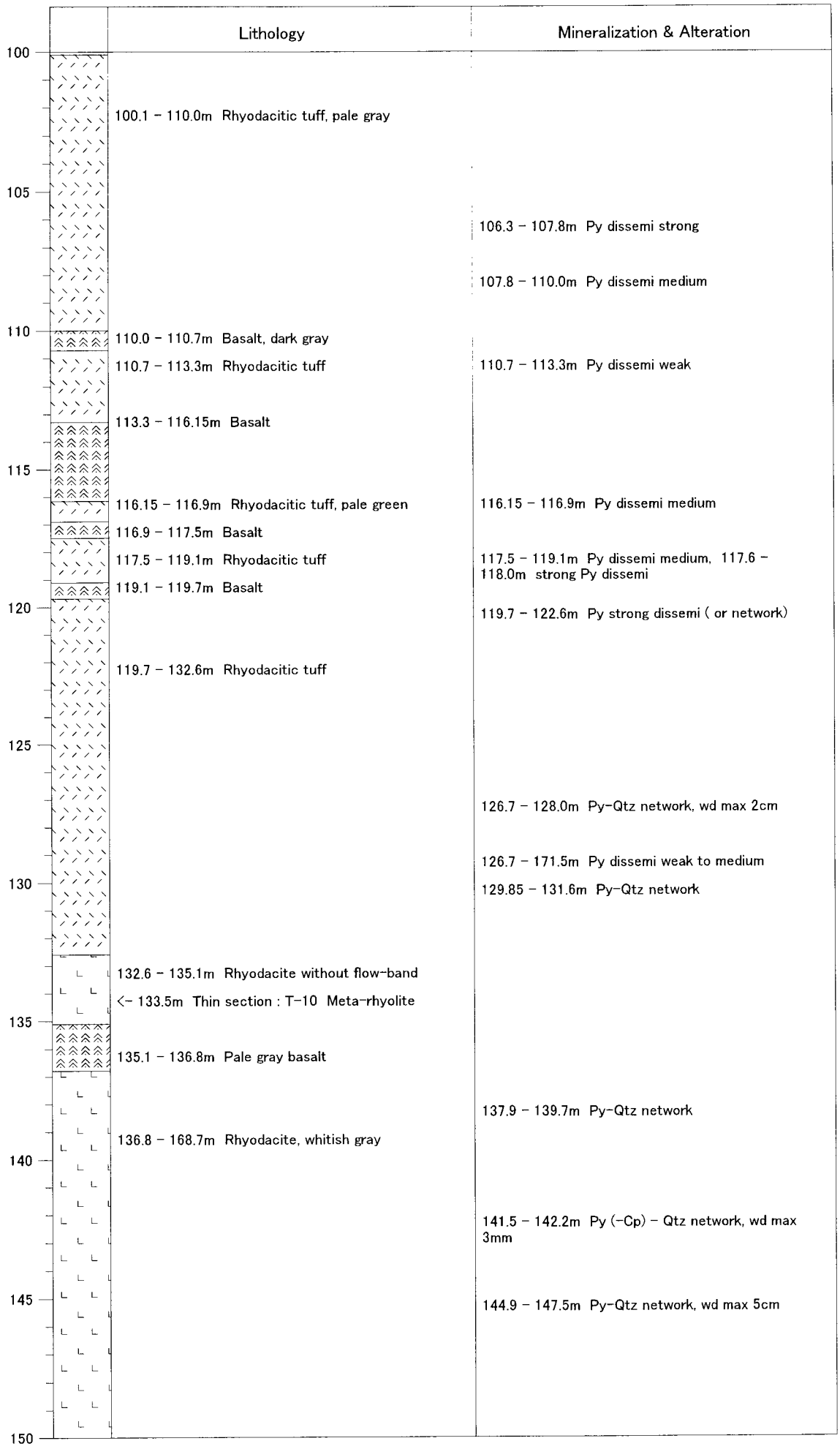
Azimuth : 300 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-10 Date Started Sep. 05, 2000 Date Completed : Sep. 22, 2000

Easting : E 709.028 Northing : N 2,618.808 Elevation (mSL) : 954

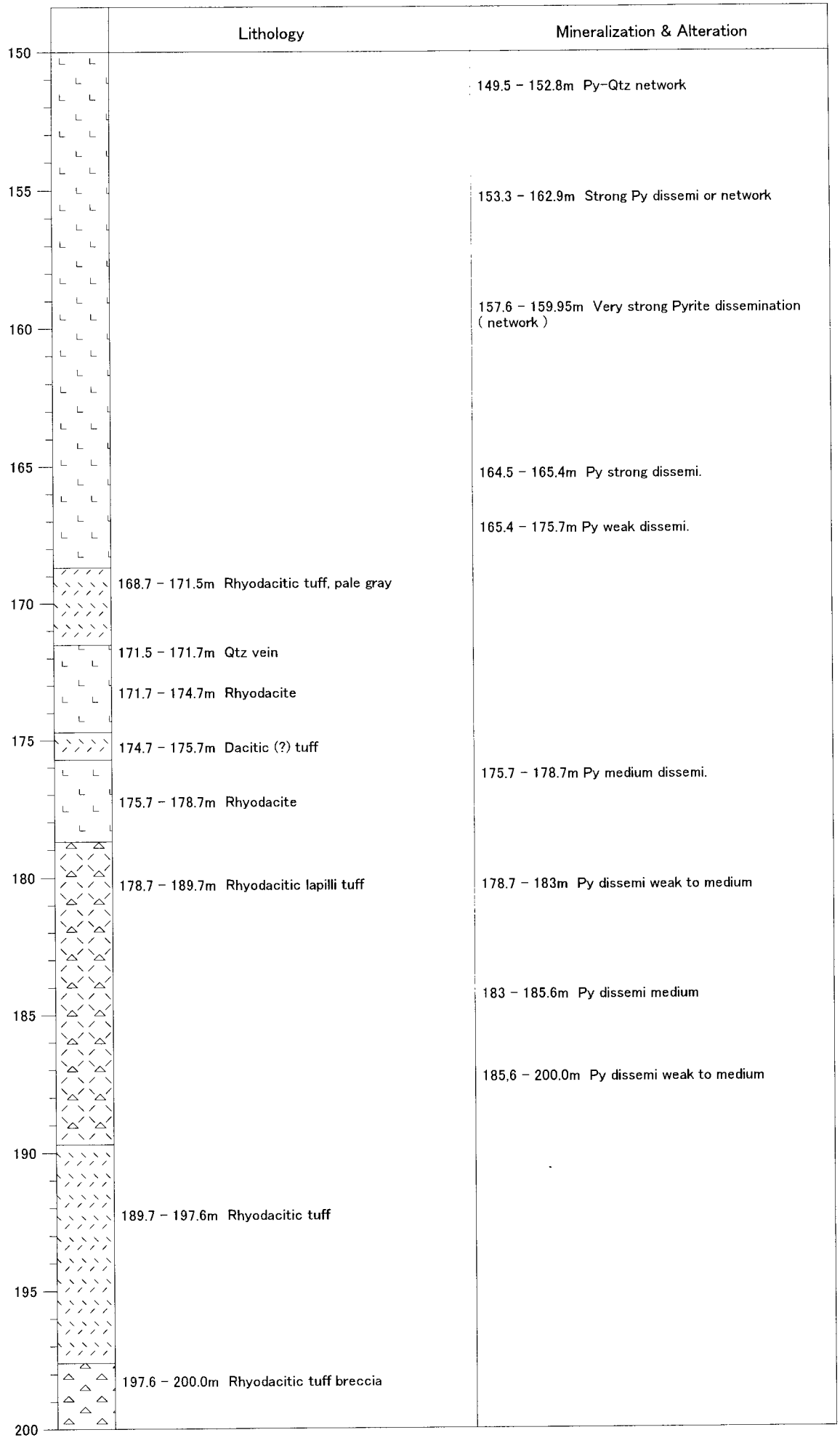
Azimuth : 300 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-10 Date Started Sep. 05, 2000 Date Completed : Sep. 22, 2000

Easting : E 709.028 Northing : N 2,618.808 Elevation (mSL) : 954

Azimuth : 300 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-10 Date Started Sep. 05, 2000 Date Completed : Sep. 22, 2000

Easting : E 709.028 Northing : N 2,618.808 Elevation (mSL) : 954

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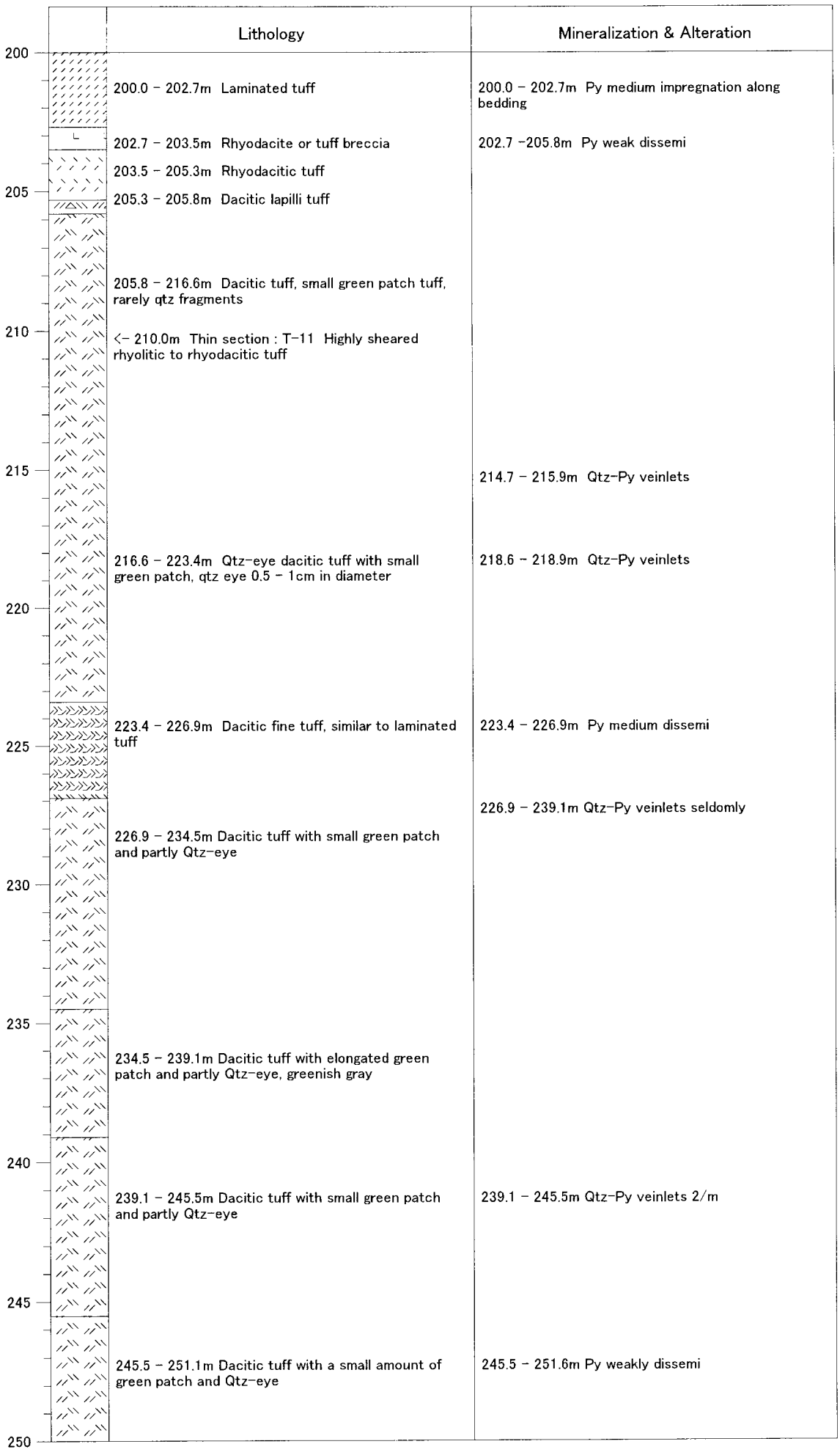
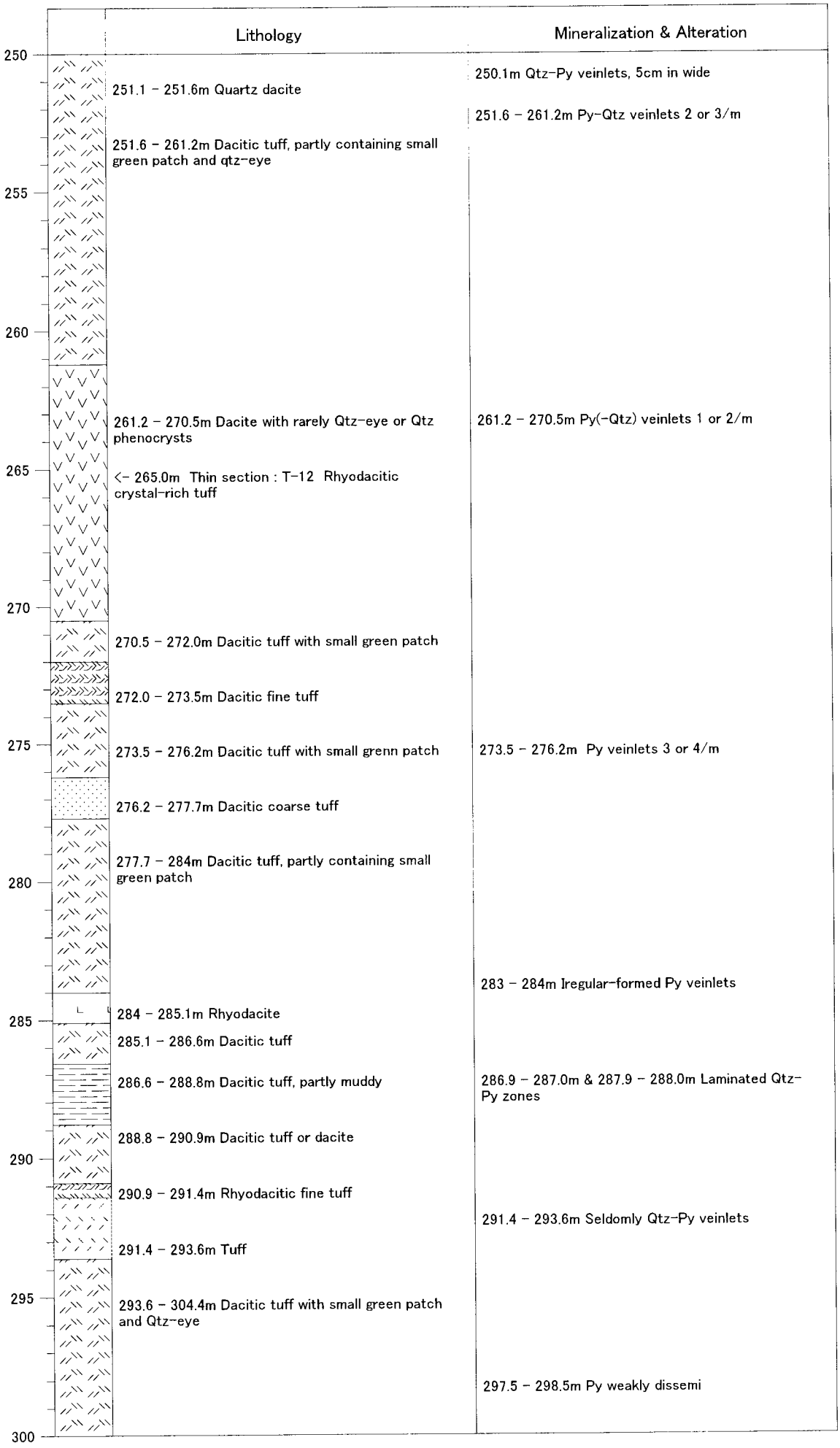


Lithology	Mineralization & Alteration
200.0 – 202.7m Laminated tuff	200.0 – 202.7m Py medium impregnation along bedding
202.7 – 203.5m Rhyodacite or tuff breccia	202.7 –205.8m Py weak dissemi
203.5 – 205.3m Rhyodacitic tuff	
205.3 – 205.8m Dacitic lapilli tuff	
205.8 – 216.6m Dacitic tuff, small green patch tuff, rarely qtz fragments	
<– 210.0m Thin section : T-11 Highly sheared rhyolitic to rhyodacitic tuff	
	214.7 – 215.9m Qtz-Py veinlets
216.6 – 223.4m Qtz-eye dacitic tuff with small green patch, qtz eye 0.5 – 1cm in diameter	218.6 – 218.9m Qtz-Py veinlets
223.4 – 226.9m Dacitic fine tuff, similar to laminated tuff	223.4 – 226.9m Py medium dissemi
	226.9 – 239.1m Qtz-Py veinlets seldomly
226.9 – 234.5m Dacitic tuff with small green patch and partly Qtz-eye	
234.5 – 239.1m Dacitic tuff with elongated green patch and partly Qtz-eye, greenish gray	
239.1 – 245.5m Dacitic tuff with small green patch and partly Qtz-eye	239.1 – 245.5m Qtz-Py veinlets 2/m
245.5 – 251.1m Dacitic tuff with a small amount of green patch and Qtz-eye	245.5 – 251.6m Py weakly dissemi

Drill Hole No. : MJSU-10 Date Started Sep. 05, 2000 Date Completed : Sep. 22, 2000

Easting : E 709.028 Northing : N 2,618.808 Elevation (mSL) : 954

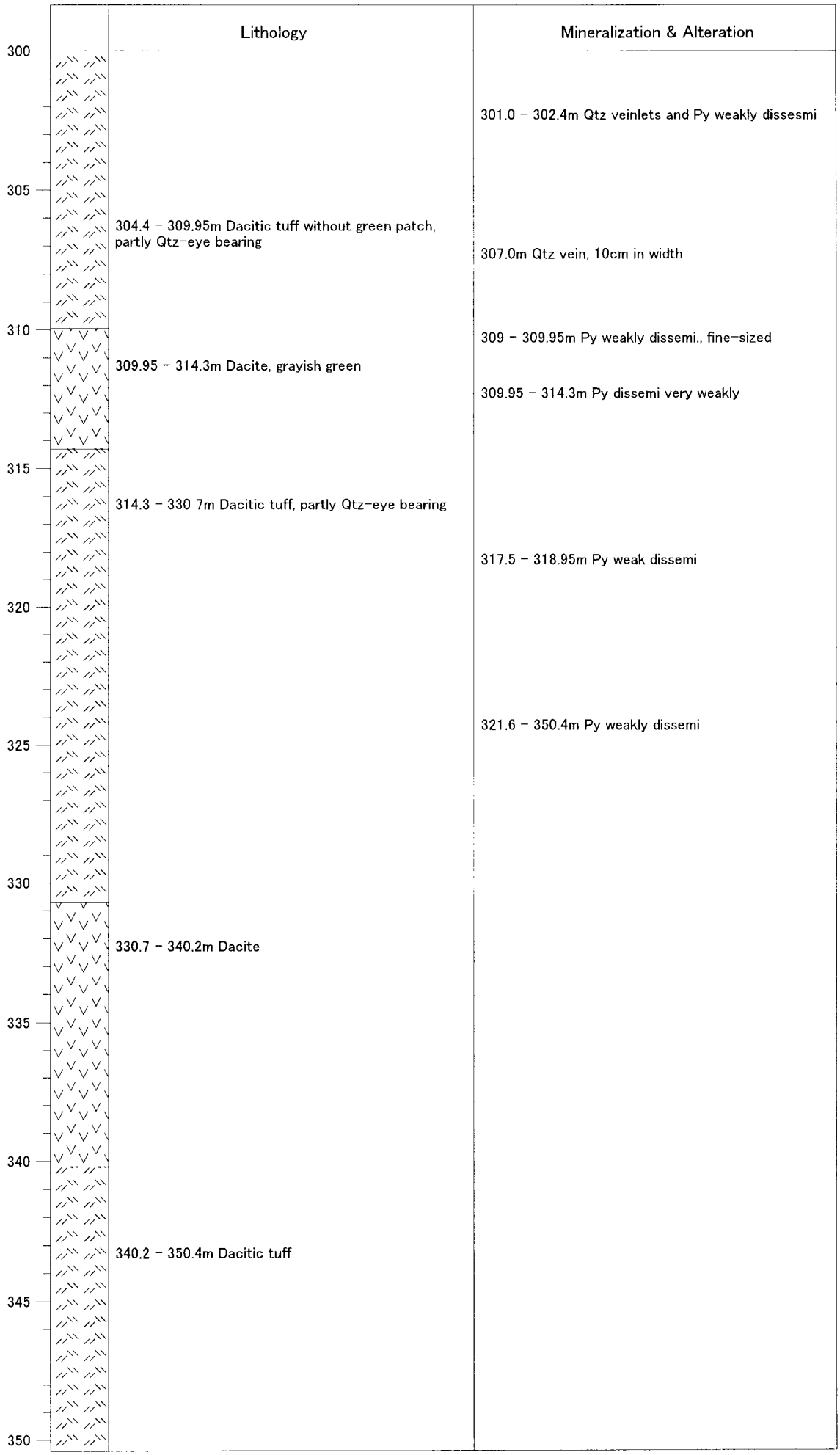
Azimuth : 300 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-10 Date Started Sep. 05, 2000 Date Completed : Sep. 22, 2000

Easting : E 709.028 Northing : N 2,618.808 Elevation (mSL) : 954

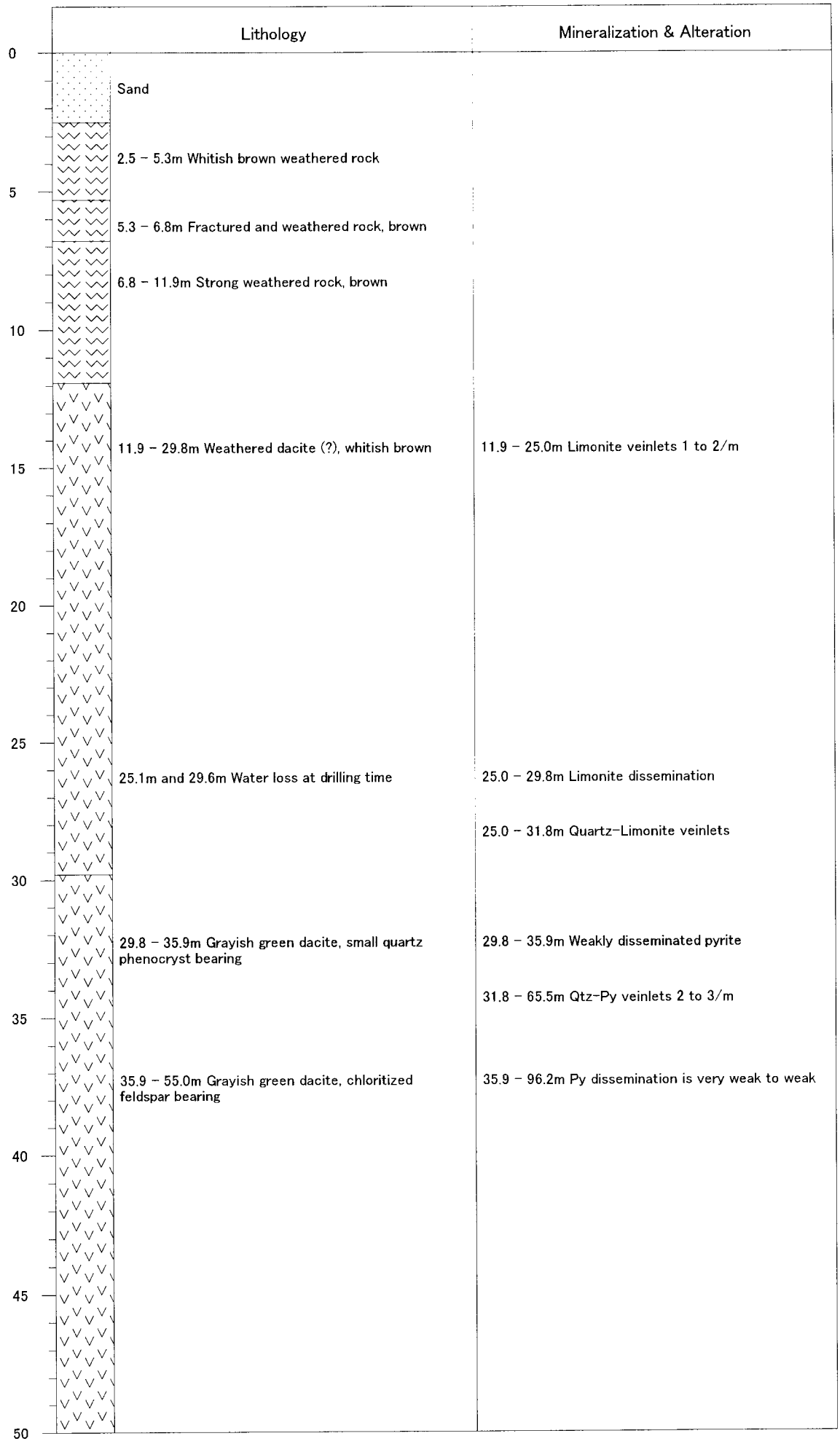
Azimuth : 300 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-11 Date Started Sep. 21, 2000 Date Completed : Oct. 2, 2000

Easting : E 710.023 Northing : N 2,618.581 Elevation (mSL) : 963

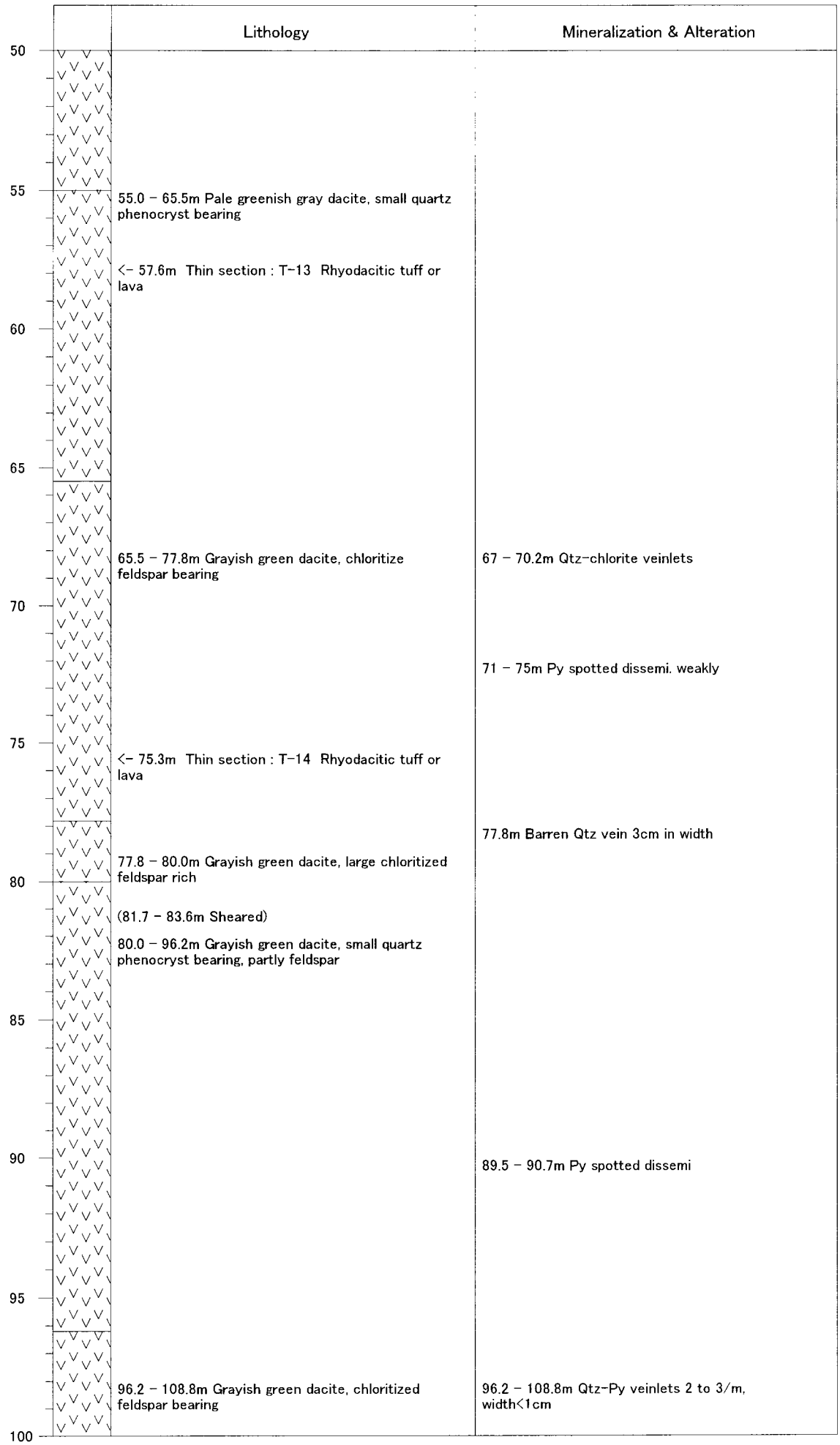
Azimuth : 150 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-11 Date Started Sep. 21, 2000 Date Completed : Oct. 2, 2000

Easting : E 710.023 Northing : N 2,618.581 Elevation (mSL) : 963

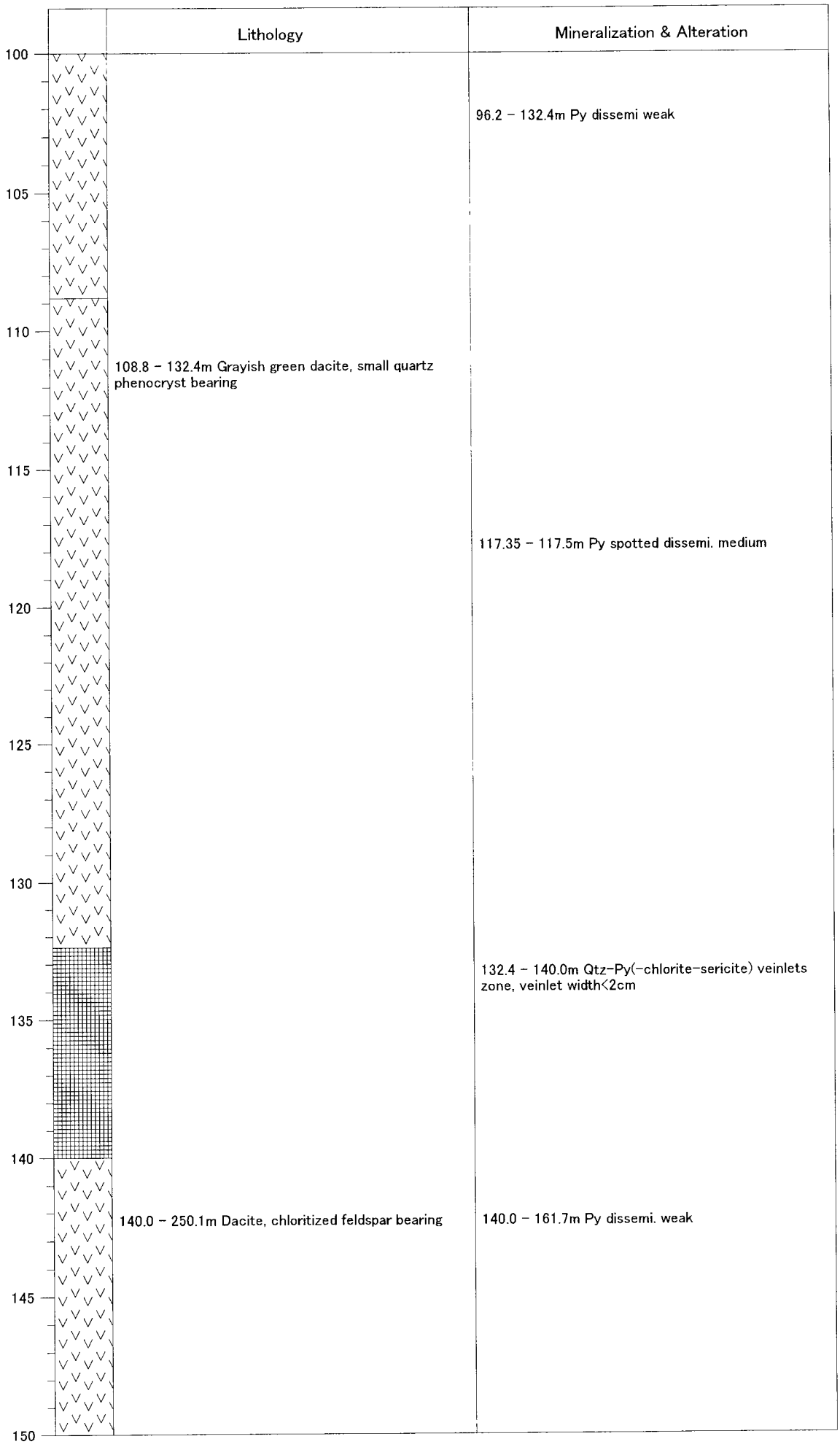
Azimuth : 150 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-11 Date Started Sep. 21, 2000 Date Completed : Oct. 2, 2000

Easting : E 710.023 Northing : N 2,618.581 Elevation (mSL) : 963

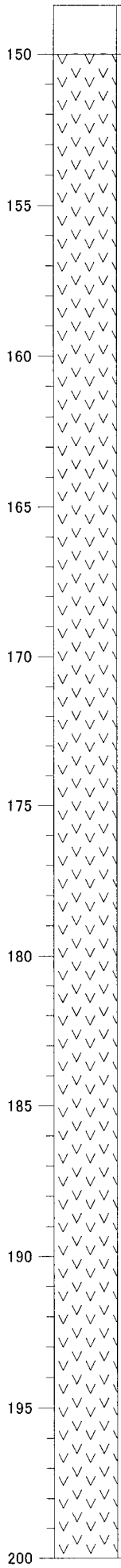
Azimuth : 150 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-11 Date Started Sep. 21, 2000 Date Completed : Oct. 2, 2000

Easting : E 710.023 Northing : N 2,618.581 Elevation (mSL) : 963

Azimuth : 150 Inclination : -55 Drilled by SGS/BRGM

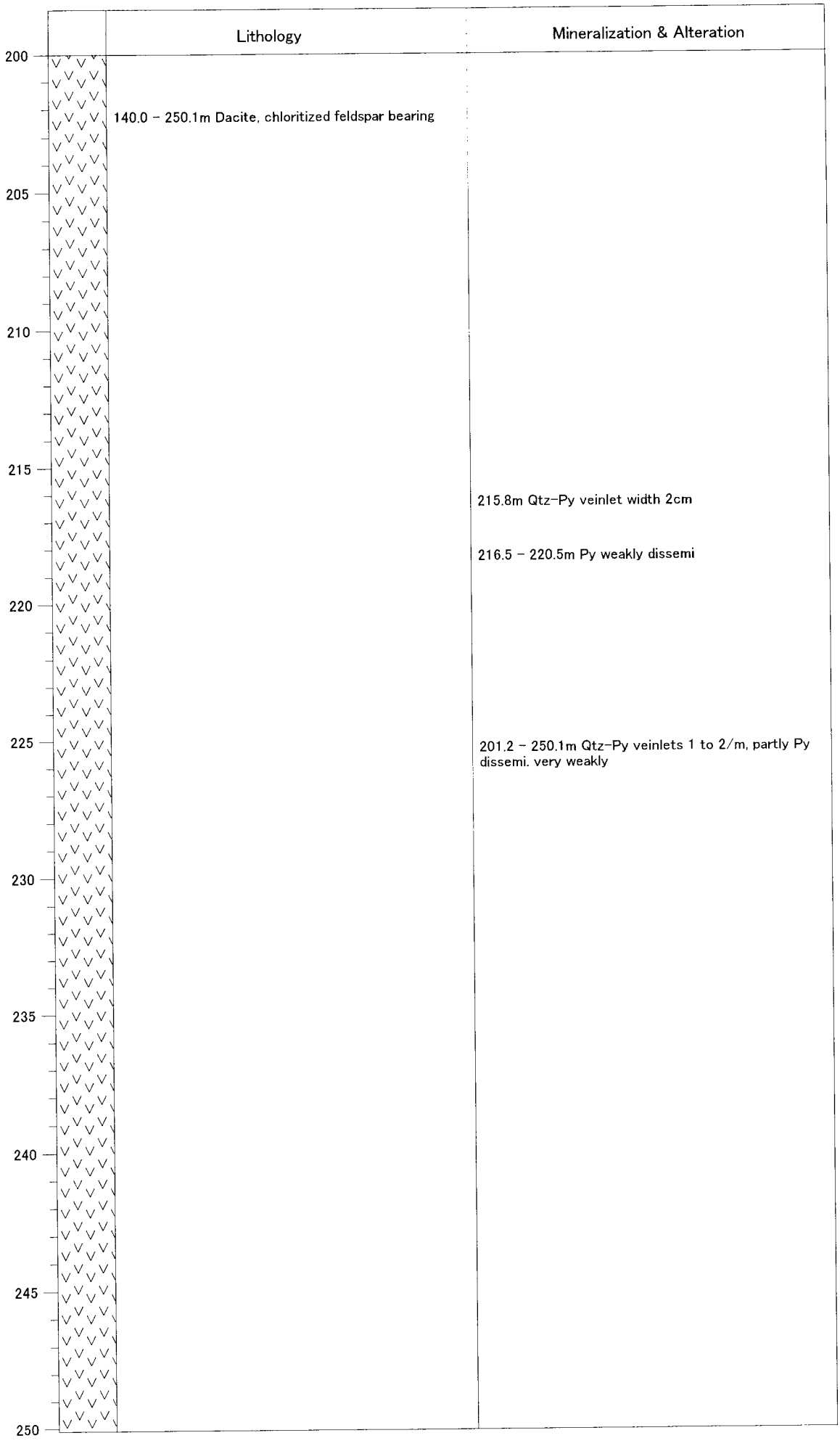


Lithology	Mineralization & Alteration
140.0 - 250.1m Dacite, chloritized feldspar bearing	152.4 - 155.7m Py-Qtz veinlets 5/m, partly accompanied with Cp? 155.7 - 169.5m Py weak to medium dissemi. 161.7 - 186.5m Py dissemi. medium 161.7 - 162.4m Qtz-Py veinlet zone 163.6 - 165.8m Py-Qtz veinlet zone 168.8 - 169.5m Qtz-Py veinlet zone 177.8m Py-Qtz vein, 20cm wide 182.0-182.4m Py-Qtz veinlets, high angle 169.5 - 186.5m Py spotted dissemi. weak to medium 186.5 - 201.2m Py spotted dissemi. weakly 182.4 - 201.2m Qtz-Py veinlets 1 to 2/m

Drill Hole No. : MJSU-11 Date Started Sep. 21, 2000 Date Completed : Oct. 2, 2000

Easting : E 710.023 Northing : N 2,618.581 Elevation (mSL) : 963

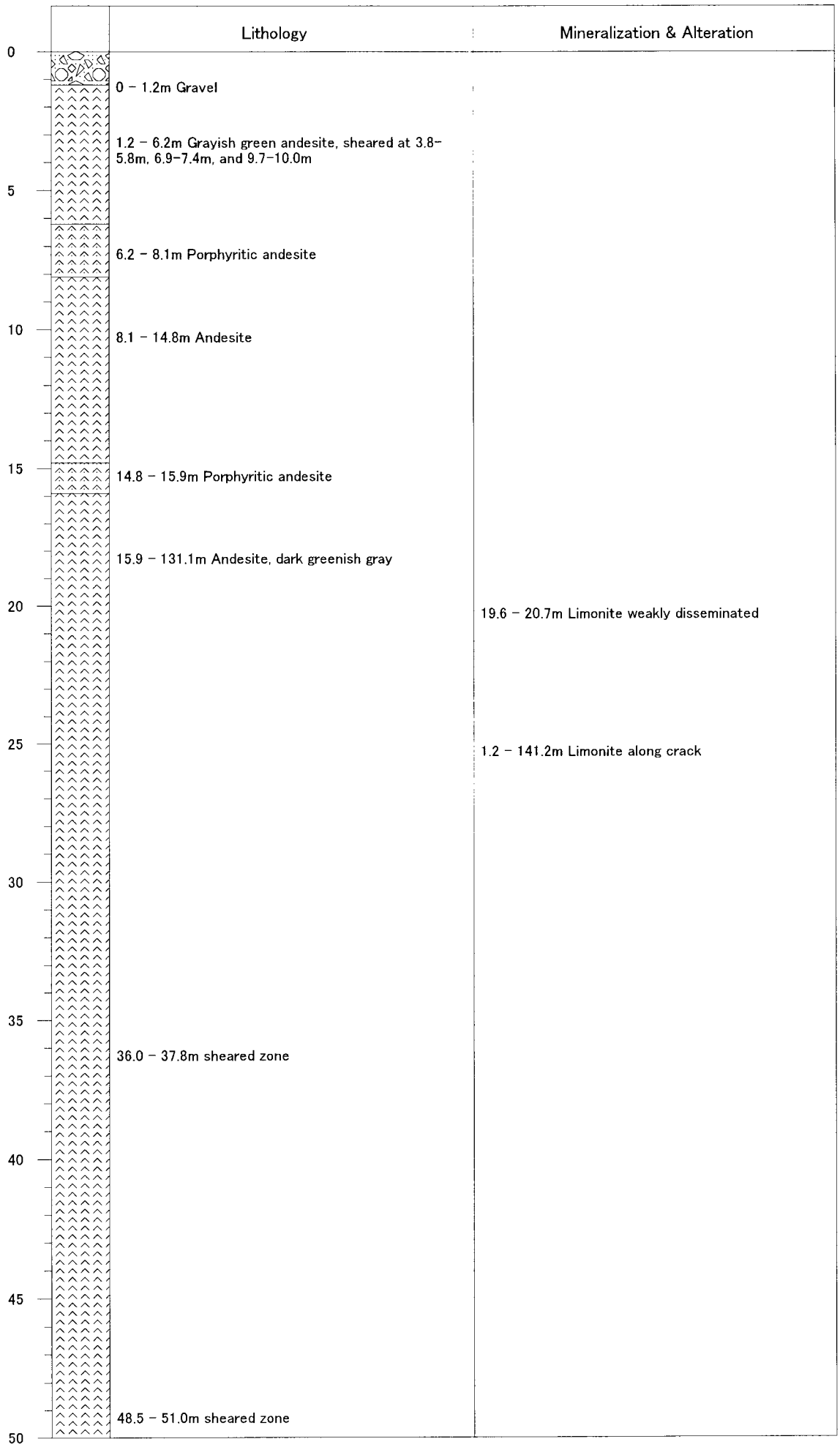
Azimuth : 150 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-12 Date Started Oct. 2, 2000 Date Completed : Oct. 11, 2000

Easting : E 709.939 Northing : N 2,617.550 Elevation (mSL) : 965

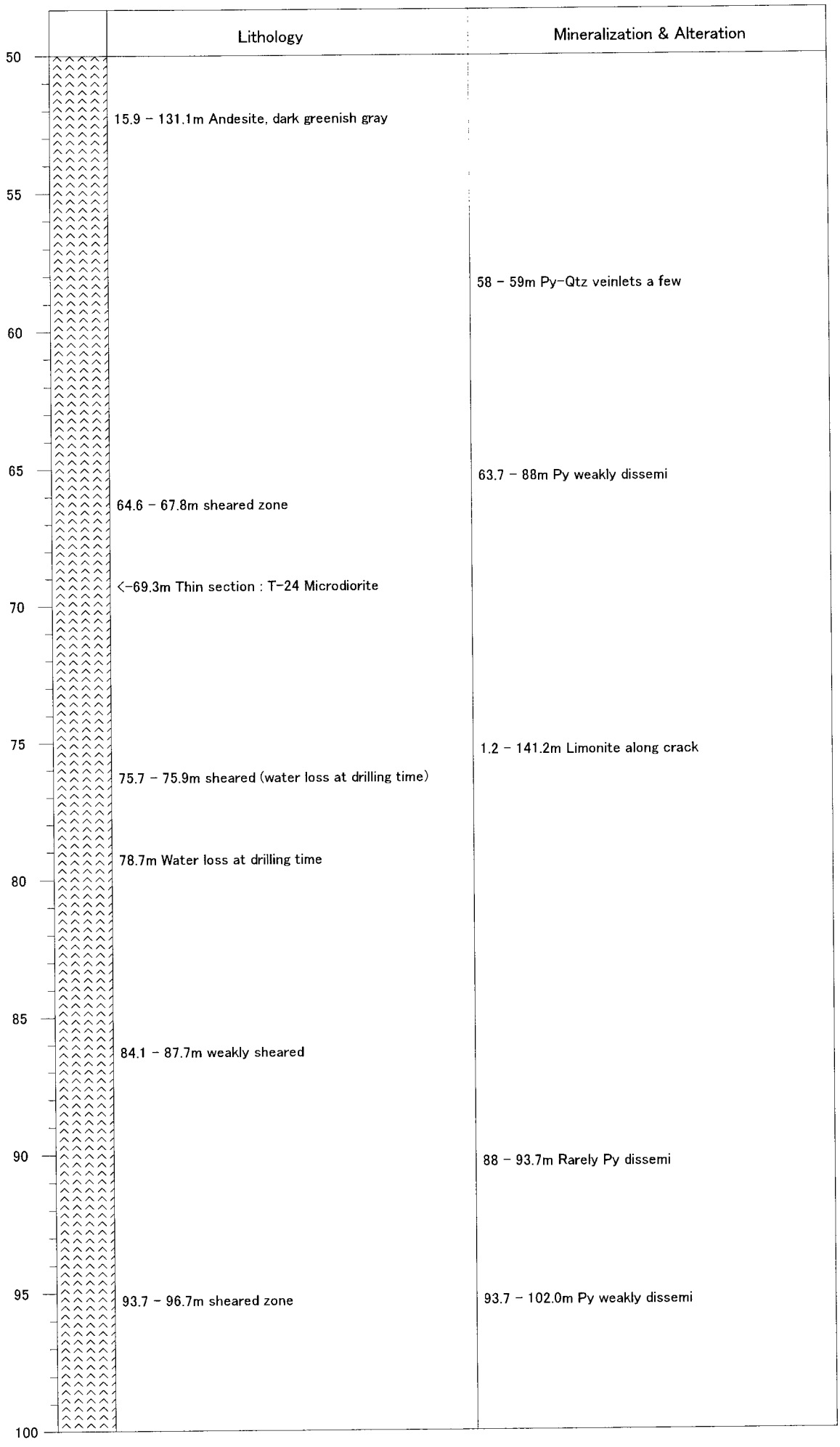
Azimuth : 270 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-12 Date Started Oct. 2, 2000 Date Completed : Oct. 11, 2000

Easting : E 709.939 Northing : N 2,617.550 Elevation (mSL) : 965

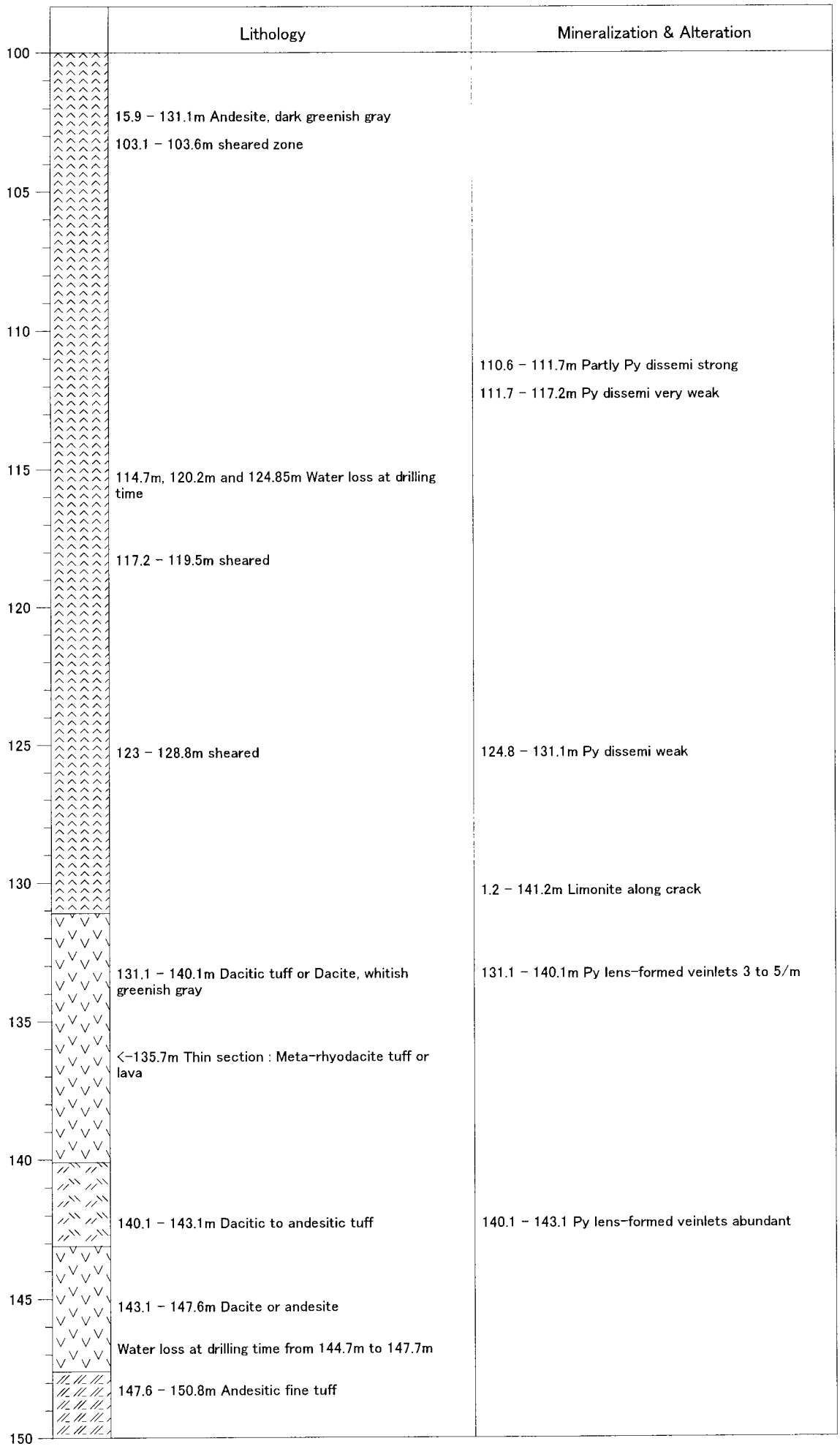
Azimuth : 270 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-12 Date Started Oct. 2, 2000 Date Completed : Oct. 11, 2000

Easting : E 709.939 Northing : N 2,617.550 Elevation (mSL) : 965

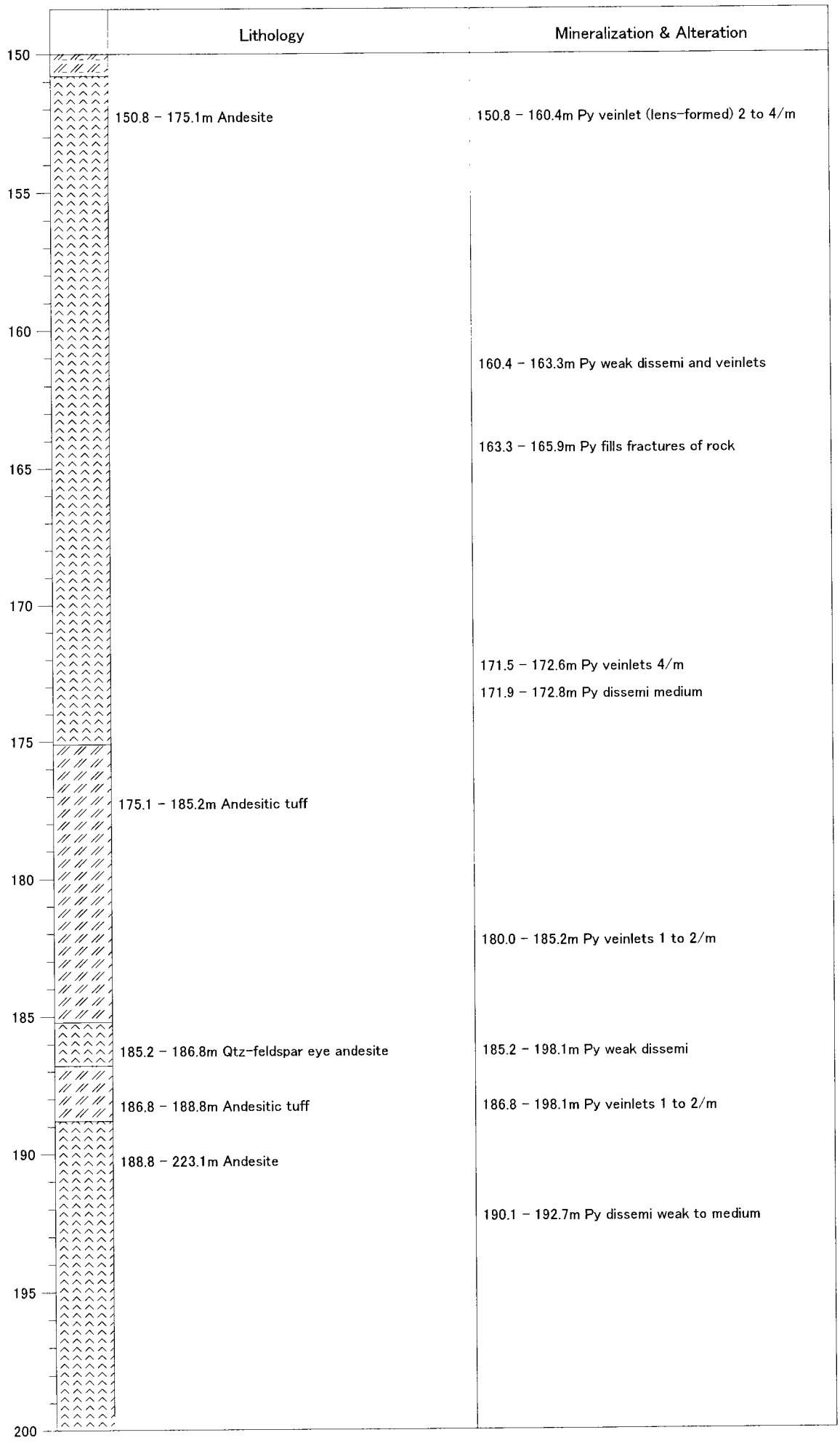
Azimuth : 270 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-12 Date Started Oct. 2, 2000 Date Completed : Oct. 11, 2000

Easting : E 709.939 Northing : N 2,617.550 Elevation (mSL) : 965

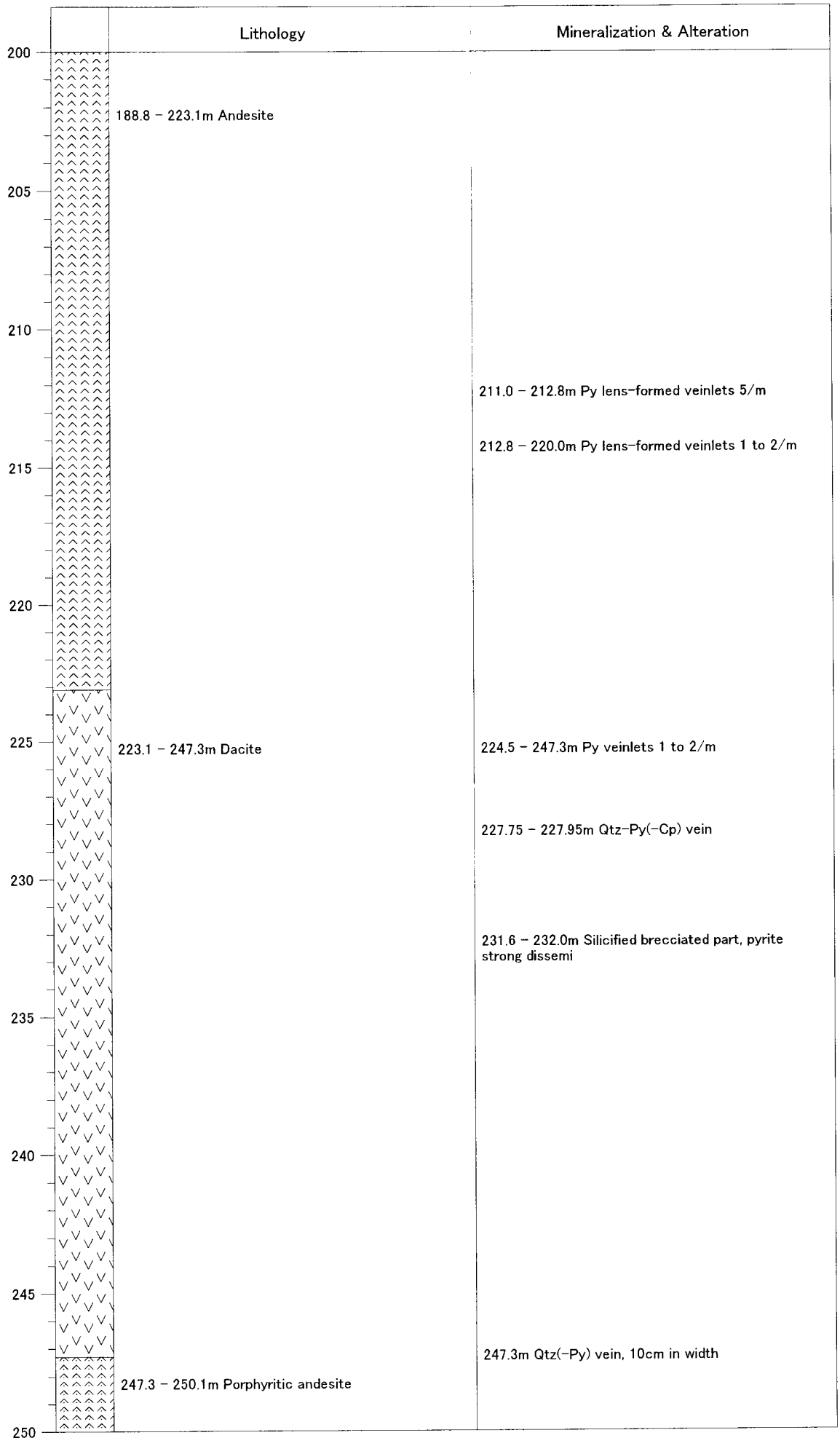
Azimuth : 270 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-12 Date Started Oct. 2, 2000 Date Completed : Oct. 11, 2000

Easting : E 709.939 Northing : N 2,617.550 Elevation (mSL) : 965

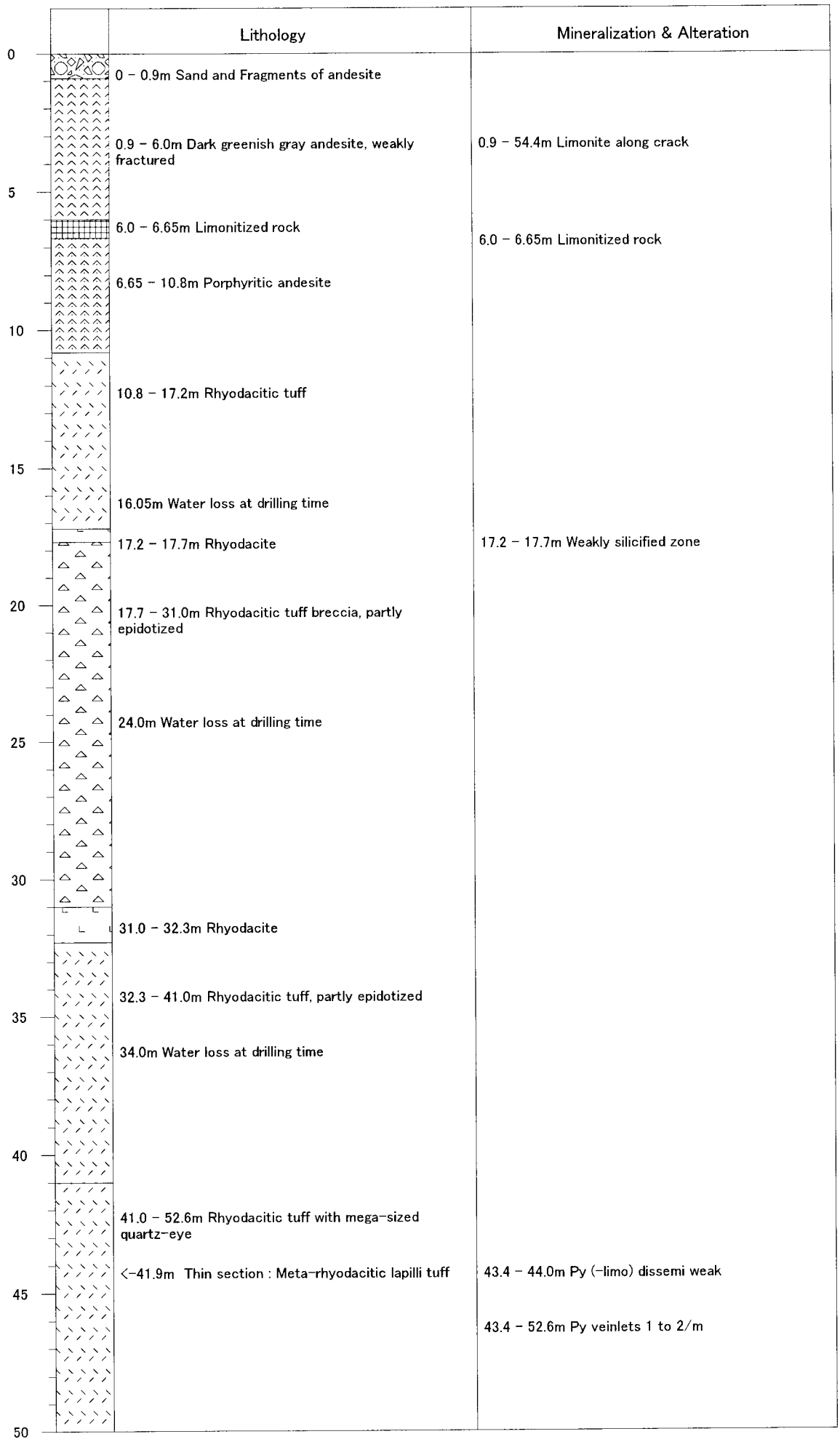
Azimuth : 270 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-13 Date Started Oct. 9, 2000 Date Completed : Oct. 23, 2000

Easting : E 709.835 Northing : N 2,617.120 Elevation (mSL) : 965

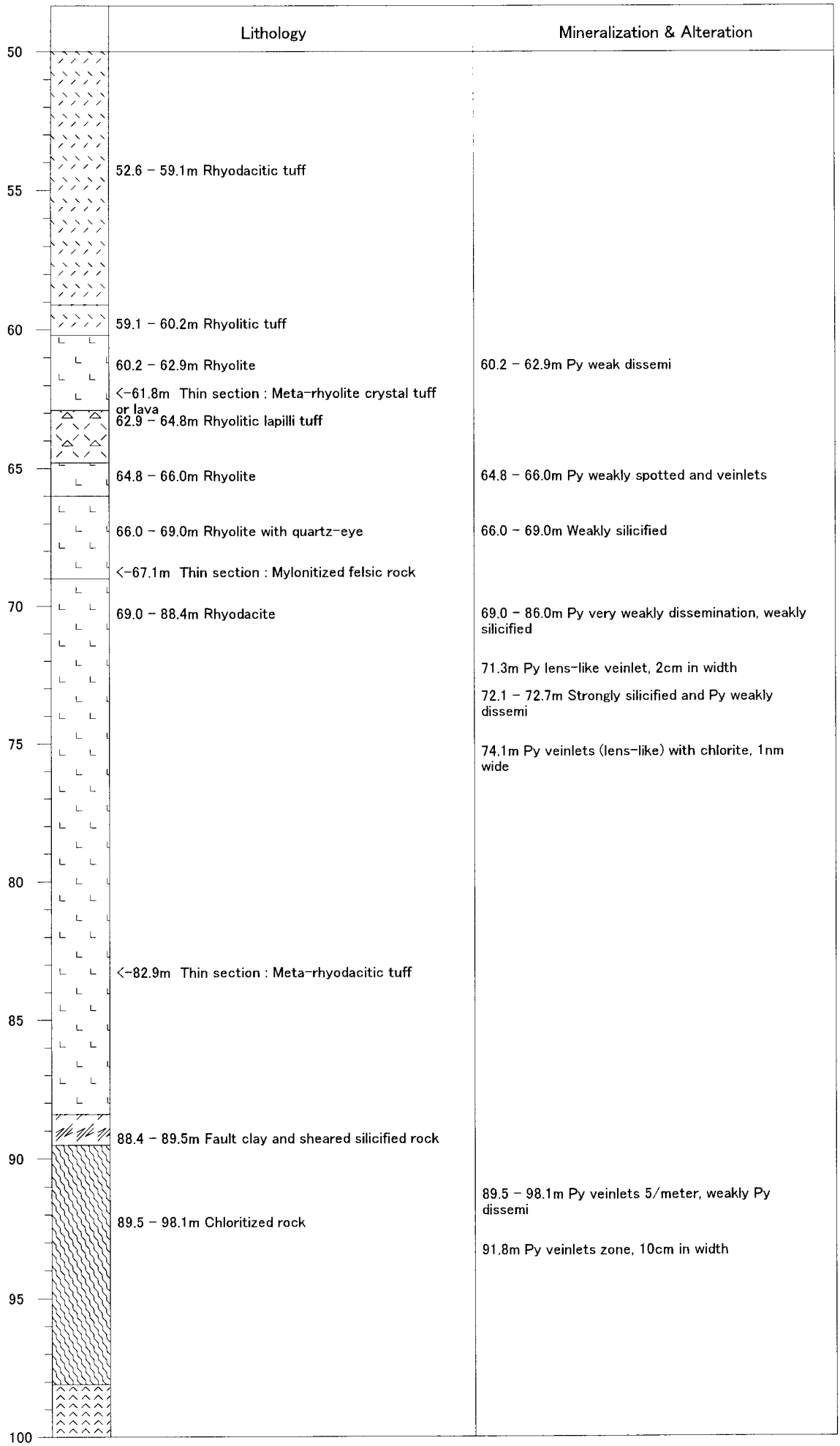
Azimuth : 330 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-13 Date Started Oct. 9, 2000 Date Completed : Oct. 23, 2000

Easting : E 709.835 Northing : N 2,617.120 Elevation (mSL) : 965

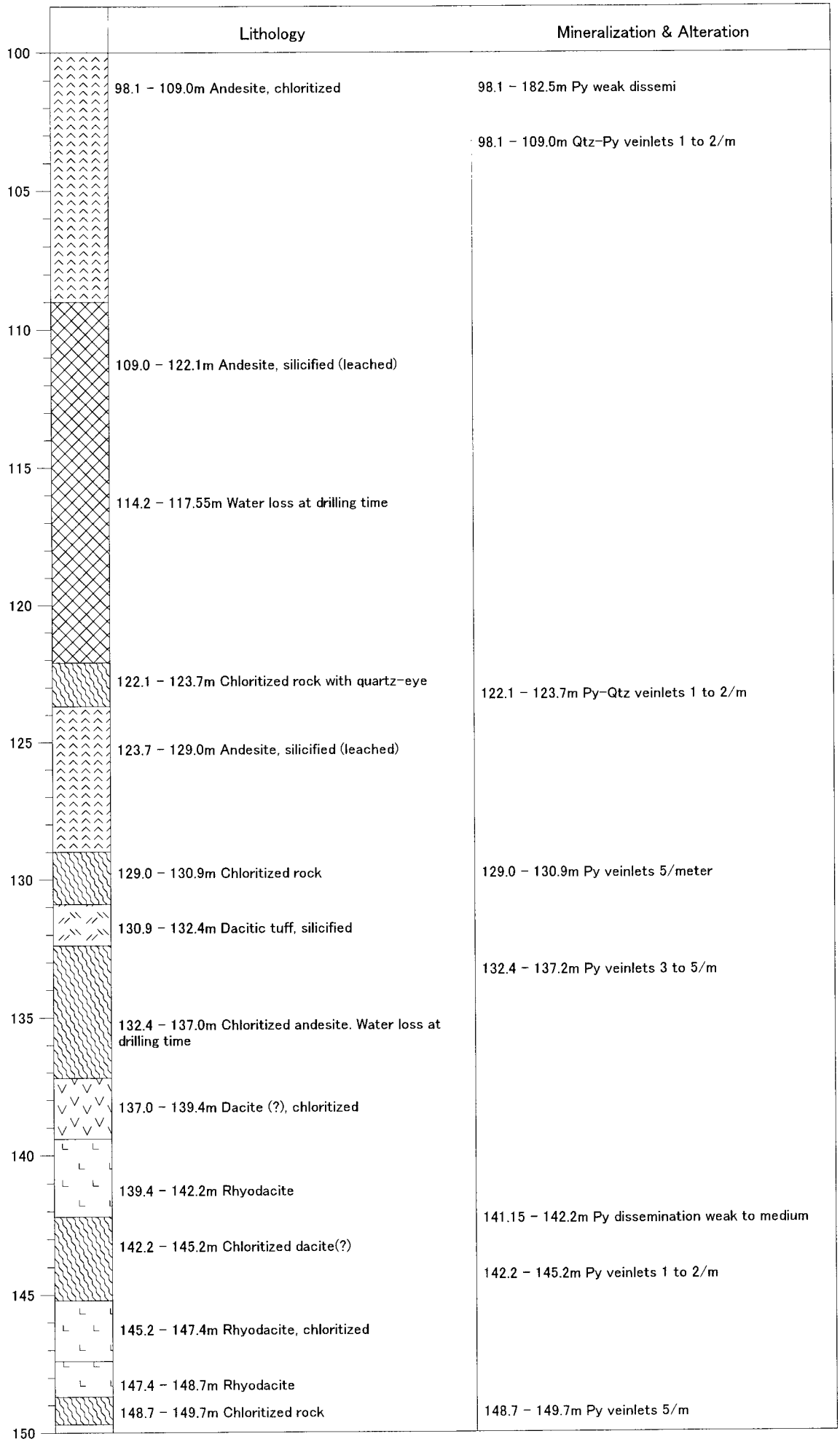
Azimuth : 330 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-13 Date Started Oct. 9, 2000 Date Completed : Oct. 23, 2000

Easting : E 709.835 Northing : N 2,617.120 Elevation (mSL) : 965

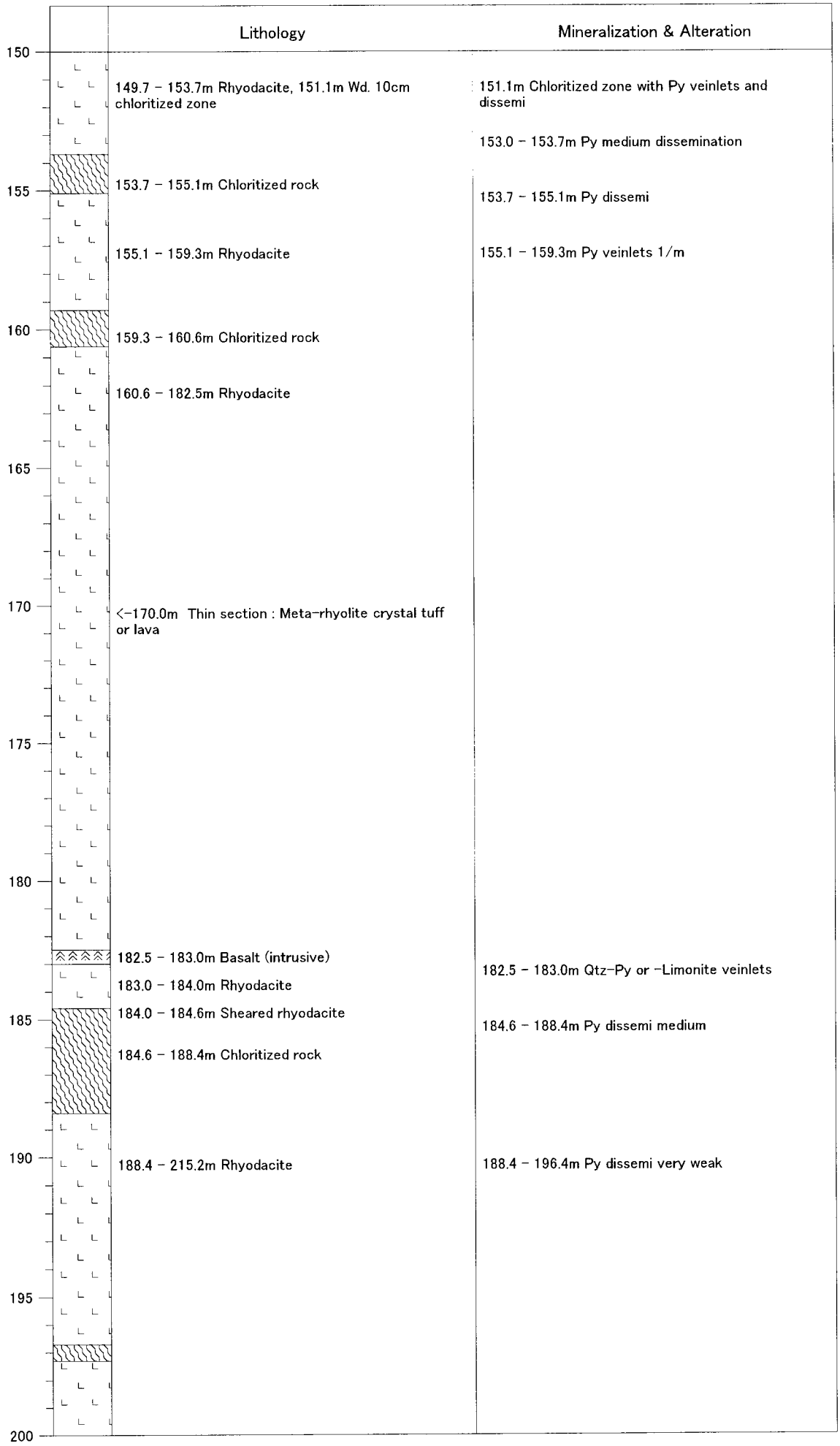
Azimuth : 330 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-13 Date Started Oct. 9, 2000 Date Completed : Oct. 23, 2000

Easting : E 709.835 Northing : N 2,617.120 Elevation (mSL) : 965

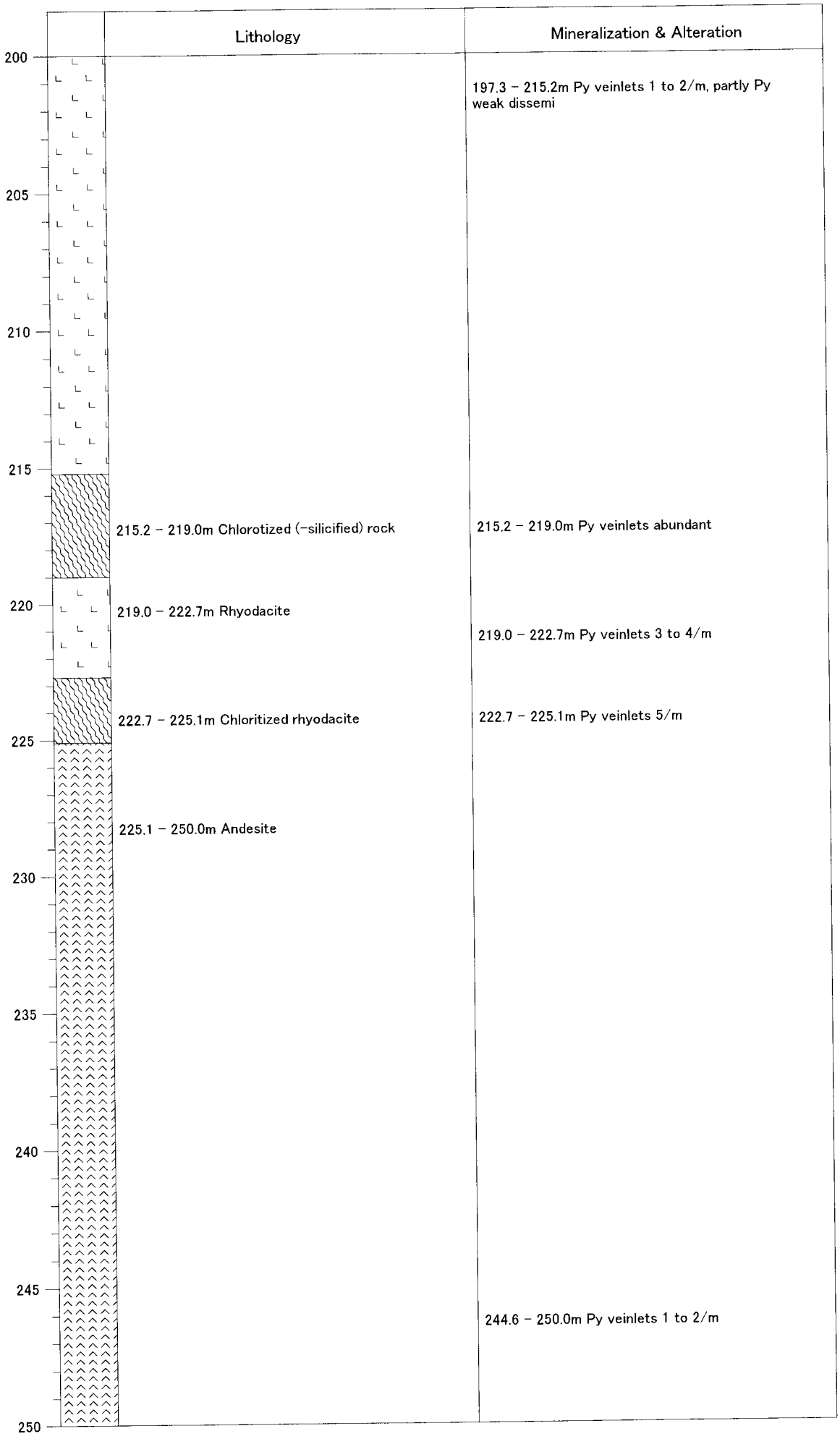
Azimuth : 330 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-13 Date Started Oct. 9, 2000 Date Completed : Oct. 23, 2000

Easting : E 709.835 Northing : N 2,617.120 Elevation (mSL) : 965

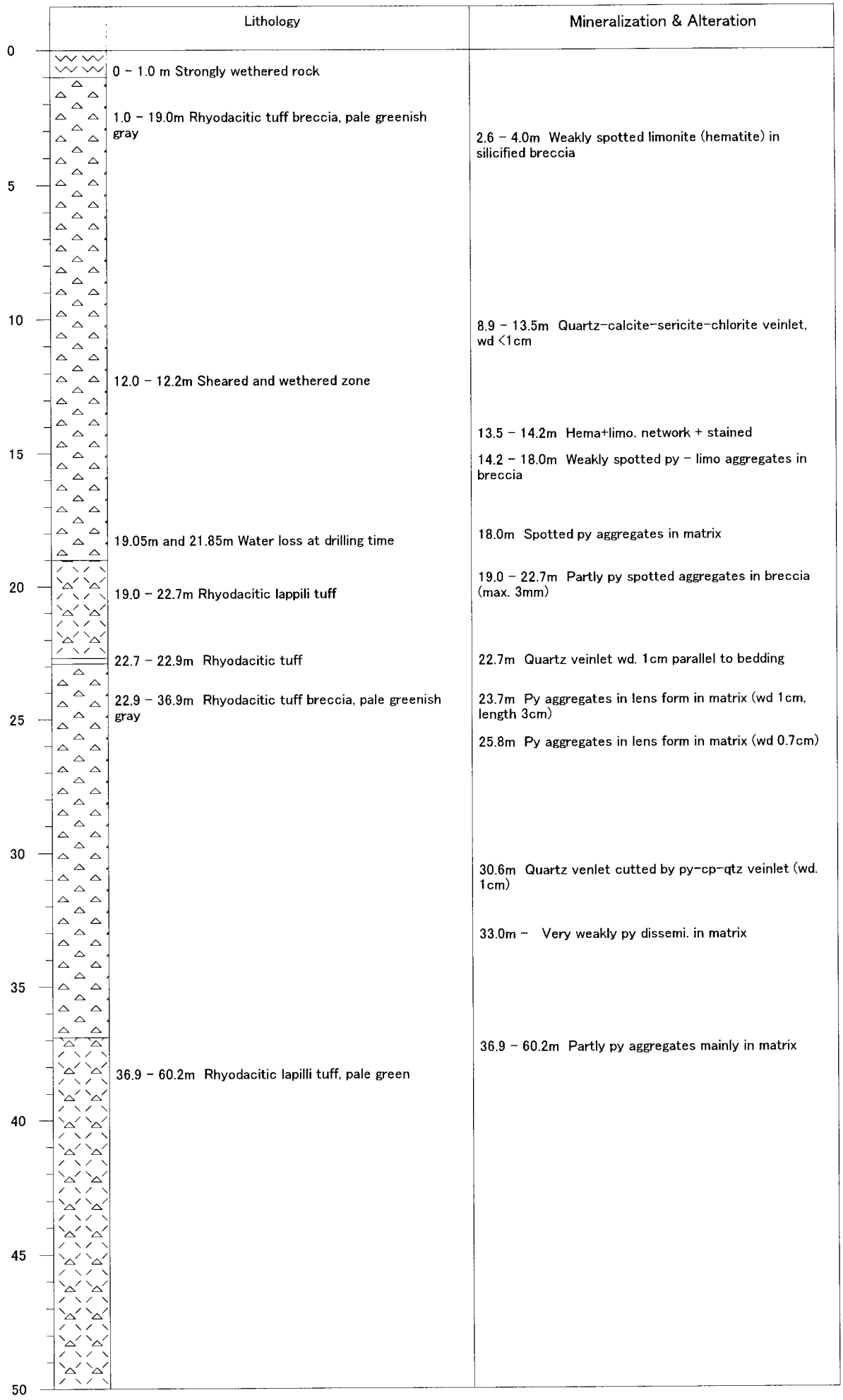
Azimuth : 330 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-14 Date Started Sep. 04, 2000 Date Completed : Sep. 14, 2000

Easting : E 708.595 Northing : N 2,617.720 Elevation (mSL) : 964

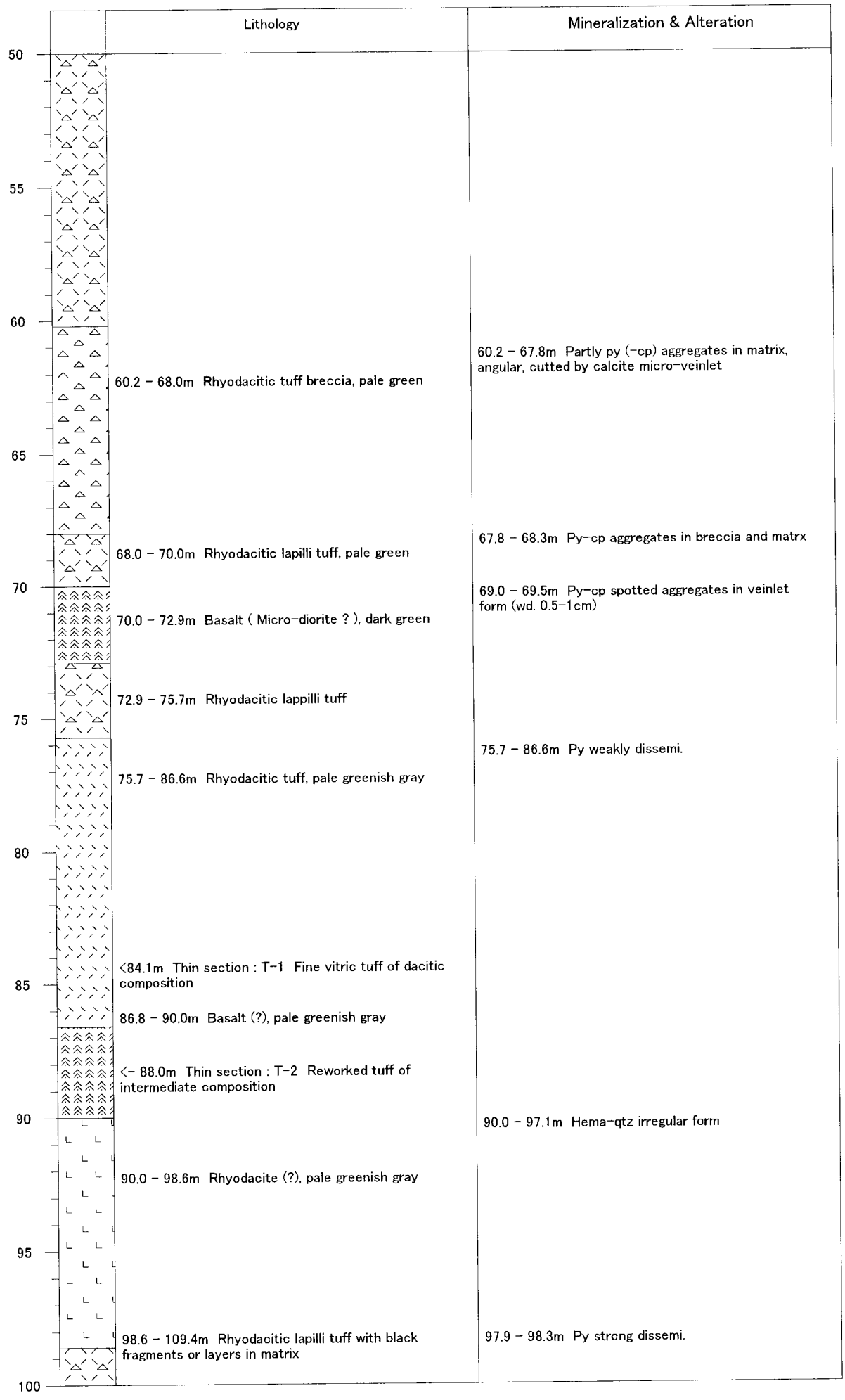
Azimuth : 245 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-14 Date Started Sep. 04, 2000 Date Completed : Sep. 14, 2000

Easting : E 708.595 Northing : N 2,617.720 Elevation (mSL) : 964

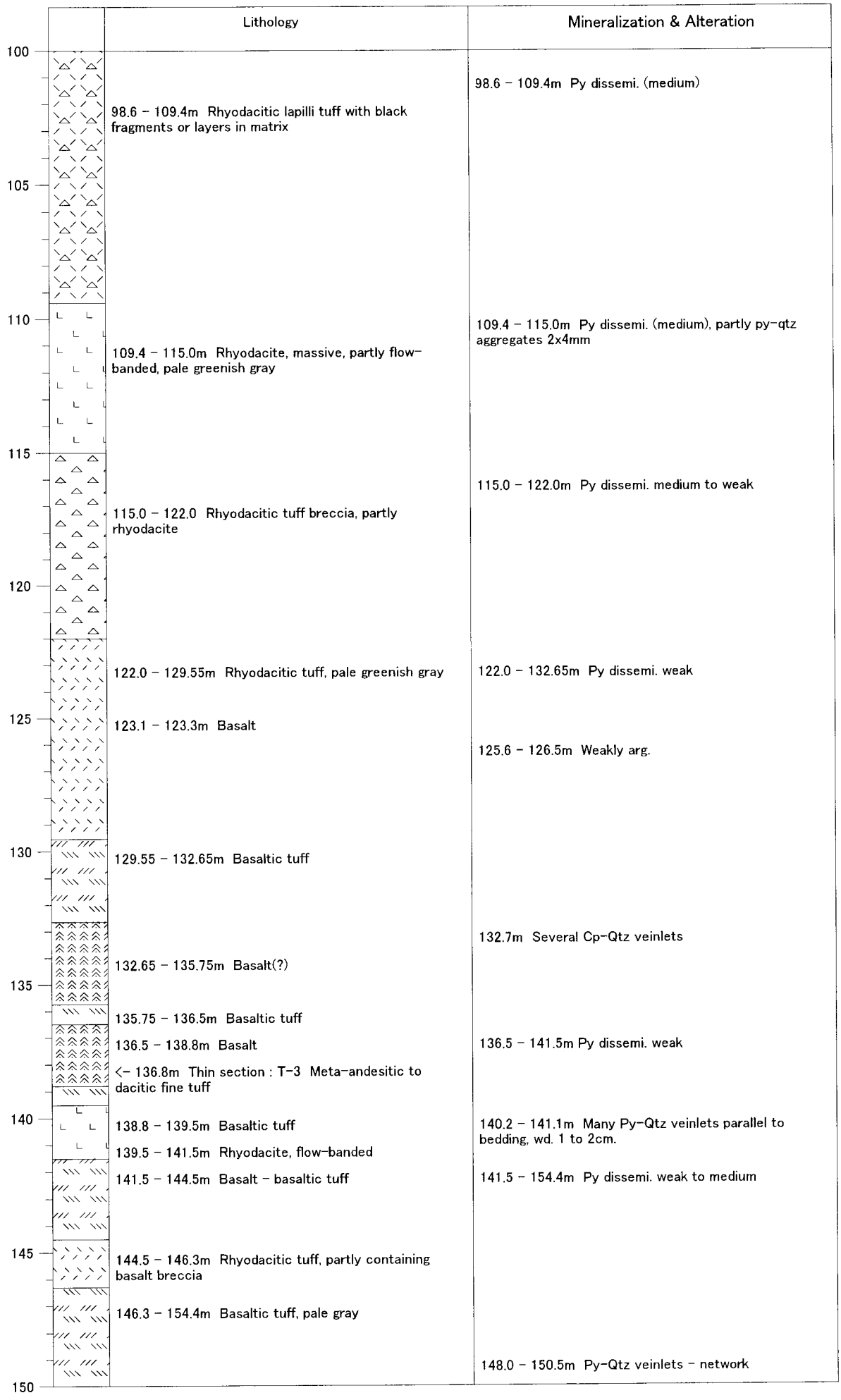
Azimuth : 245 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-14 Date Started Sep. 04, 2000 Date Completed : Sep. 14, 2000

Easting : E 708.595 Northing : N 2,617.720 Elevation (mSL) : 964

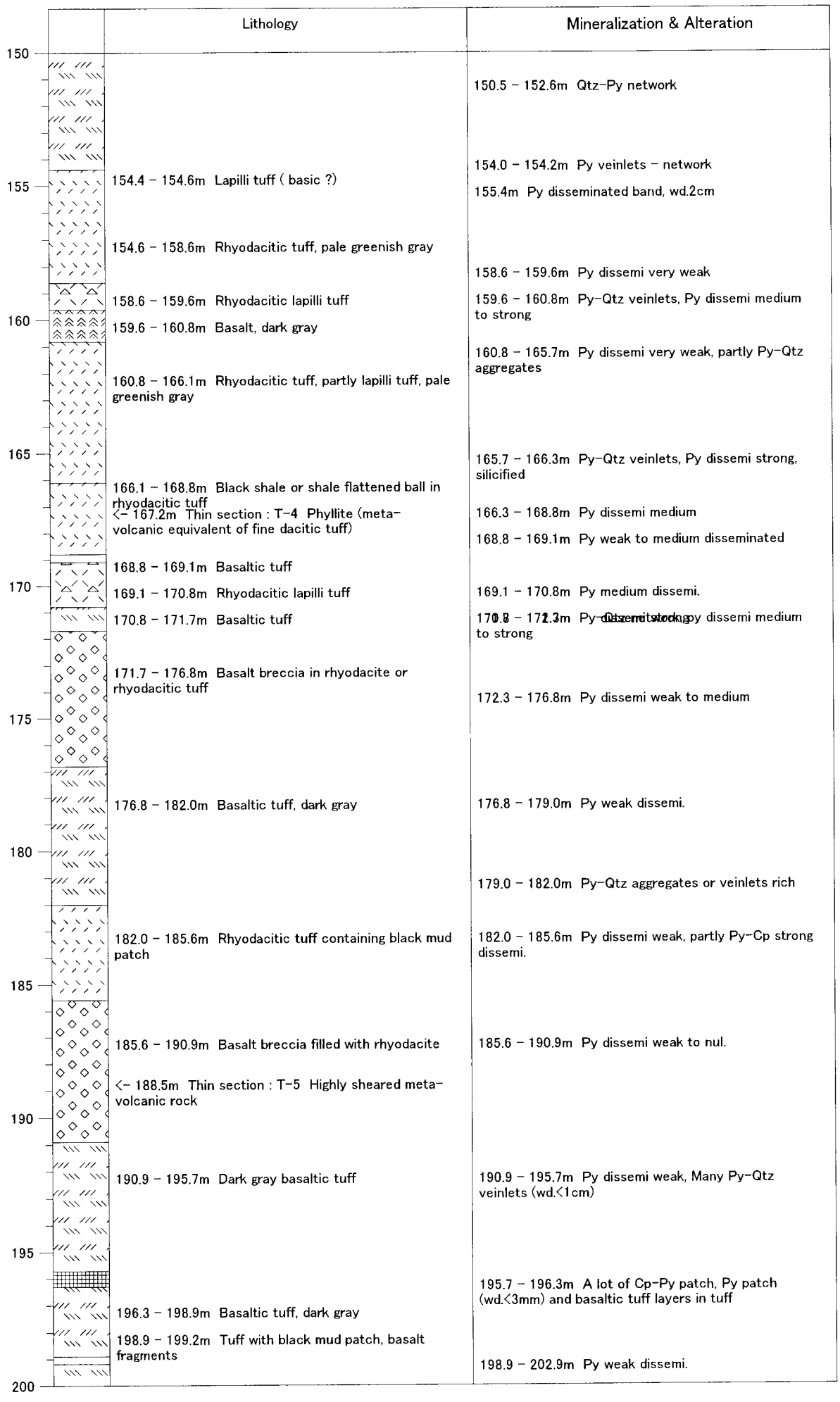
Azimuth : 245 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-14 Date Started Sep. 04, 2000 Date Completed : Sep. 14, 2000

Easting : E 708.595 Northing : N 2,617.720 Elevation (mSL) : 964

Azimuth : 245 Inclination : -55 Drilled by SGS/BRGM

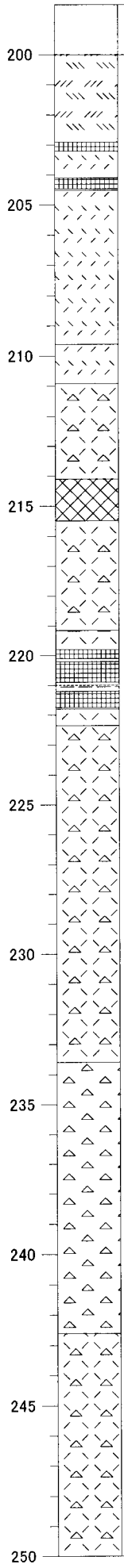


Lithology	Mineralization & Alteration
	150.5 – 152.6m Qtz-Py network
154.4 – 154.6m Lapilli tuff (basic ?)	154.0 – 154.2m Py veinlets – network 155.4m Py disseminated band, wd.2cm
154.6 – 158.6m Rhyodacitic tuff, pale greenish gray	158.6 – 159.6m Py dissemi very weak
158.6 – 159.6m Rhyodacitic lapilli tuff	159.6 – 160.8m Py-Qtz veinlets, Py dissemi medium to strong
159.6 – 160.8m Basalt, dark gray	
160.8 – 166.1m Rhyodacitic tuff, partly lapilli tuff, pale greenish gray	160.8 – 165.7m Py dissemi very weak, partly Py-Qtz aggregates
	165.7 – 166.3m Py-Qtz veinlets, Py dissemi strong, silicified
166.1 – 168.8m Black shale or shale flattened ball in rhyodacitic tuff <- 167.2m Thin section : T-4 Phyllite (meta-volcanic equivalent of fine dacitic tuff)	166.3 – 168.8m Py dissemi medium 168.8 – 169.1m Py weak to medium disseminated
168.8 – 169.1m Basaltic tuff	
169.1 – 170.8m Rhyodacitic lapilli tuff	169.1 – 170.8m Py medium dissemi.
170.8 – 171.7m Basaltic tuff	170.8 – 172.3m Py-Qtz stockwork, Py dissemi medium to strong
171.7 – 176.8m Basalt breccia in rhyodacite or rhyodacitic tuff	172.3 – 176.8m Py dissemi weak to medium
176.8 – 182.0m Basaltic tuff, dark gray	176.8 – 179.0m Py weak dissemi.
	179.0 – 182.0m Py-Qtz aggregates or veinlets rich
182.0 – 185.6m Rhyodacitic tuff containing black mud patch	182.0 – 185.6m Py dissemi weak, partly Py-Cp strong dissemi.
185.6 – 190.9m Basalt breccia filled with rhyodacite <- 188.5m Thin section : T-5 Highly sheared meta-volcanic rock	185.6 – 190.9m Py dissemi weak to nul.
190.9 – 195.7m Dark gray basaltic tuff	190.9 – 195.7m Py dissemi weak, Many Py-Qtz veinlets (wd.<1cm)
	195.7 – 196.3m A lot of Cp-Py patch, Py patch (wd.<3mm) and basaltic tuff layers in tuff
196.3 – 198.9m Basaltic tuff, dark gray	
198.9 – 199.2m Tuff with black mud patch, basalt fragments	198.9 – 202.9m Py weak dissemi.

Drill Hole No. : MJSU-14 Date Started Sep. 04, 2000 Date Completed : Sep. 14, 2000

Easting : E 708.595 Northing : N 2,617.720 Elevation (mSL) : 964

Azimuth : 245 Inclination : -55 Drilled by SGS/BRGM

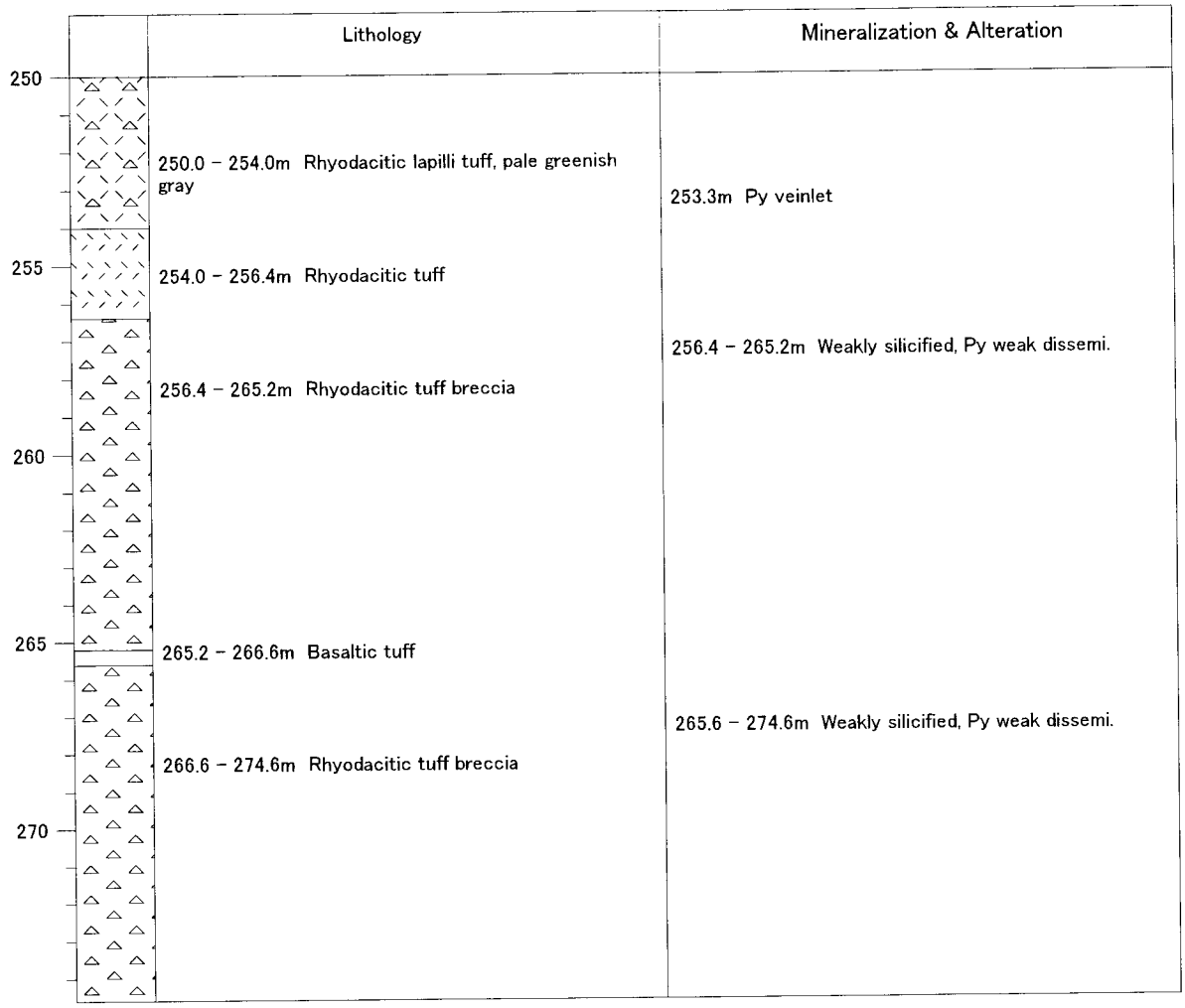


Lithology	Mineralization & Alteration
199.2 – 202.9m Dark gray basaltic tuff	
203.2 – 204.1m Rhyodacitic tuff with black mud patch, gray	202.9 – 203.2m Siliceous tuff with black mud patch, Qtz layers, Py-Qtz patch and Py impregnation
204.45 – 204.5m Gray muddy tuff	204.1 – 204.45m Gray tuffacous mud with Py-Cp-Sp-Qtz inpregnation and layers
204.5 – 209.6m Rhyodacitic tuff, partly with black mud patch, pale greenish gray	
209.6 – 210.9m Rhyodacitic lapilli tuff, pale greenish gray	209.6 – 210.9m Py weak dissemi
210.9 – 214.1m Rhyodacitic lapilli tuff with black mud patch	210.9 – 214.1m Py weak dissemi, weakly sili
214.1 – 215.5m Whitish gray strong silicified rock with mud patch	214.1 – 215.5m Strong silicified, Py weak dissemi
215.5 – 219.15m Lapilli tuff with mud patch	215.5 – 219.15m partly Py or Py-Cp veinlets and aggregats
219.15 – 219.8m Muddy lapilli tuff	219.15 – 219.8m Py-Cp patch, Py weak dissemi, partly Py-Cp aggregates
219.8 – 220.1m Black mud	219.8 – 220.1m Py-Cp strongly impregnated in mud
220.9 – 221.0m Black shale	220.1 – 220.2m Barren Qtz vein
221.0 – 221.2m Gray muddy tuff	220.2 – 220.9m Fine banded ore (Sp rich + Py-Cp or unknown mineral rich), wd of bands 1 to 15 mm
221.75 – 221.8m Black shale	
221.8 – 222.35m Muddy lapilli tuff	220.9 – 221.0 Py weak dissemi
222.35 – 233.6m Rhyodacitic lapilli tuff with mud patch, partly tuff breccia	221.0 – 221.2m Py or Cp patch, black shale patch, Py-Cp-Sp dissemi strong
	221.2 – 221.75m Massive sulfide ore, weakly banded with Sp rich + Py-Cp rich, Qtz-clay layers
	221.75 – 221.8m Silicified
	221.8 – 222.35m Py weak dissemi, partly Py(-Cp) aggregates
233.6 – 242.6m Rhyodacitic tuff breccia	234.5 – 234.9m weak sili, Py strongly spotted dissemi
242.6 – 250.0m Rhyodacitic lapilli tuff with black mud patch	244.1 – 245.7m Py-Cp-Qtz veinlets
242.6 – 250.0m Rhyodacitic lapilli tuff, pale greenish gray	

Drill Hole No. : MJSU-14 Date Started Sep. 04, 2000 Date Completed : Sep. 14, 2000

Easting : E 708.595 Northing : N 2,617.720 Elevation (mSL) : 964

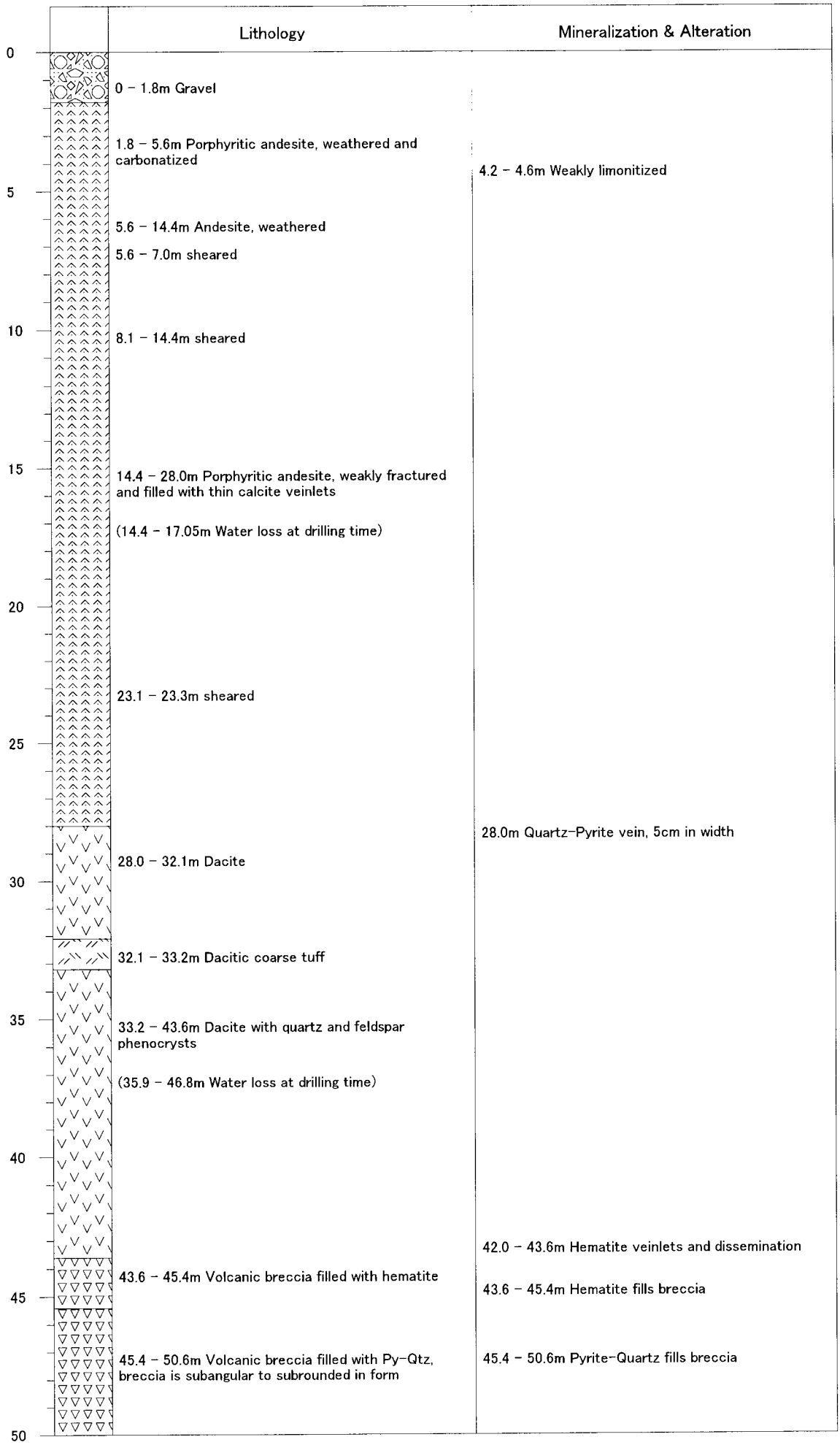
Azimuth : 245 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-15 Date Started Oct. 11, 2000 Date Completed : Nov. 8, 2000

Easting : E 707.367 Northing : N 2,620.625 Elevation (mSL) : 944

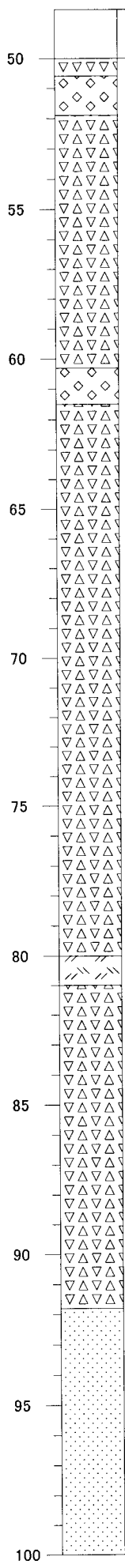
Azimuth : 335 Inclination : -70 Drilled by SGS/BRGM



Drill Hole No. : MJSU-15 Date Started Oct. 11, 2000 Date Completed :Nov. 8, 2000

Easting : E 707.367 Northing : N 2,620.625 Elevation (mSL) : 944

Azimuth : 335 Inclination : -70 Drilled by SGS/BRGM

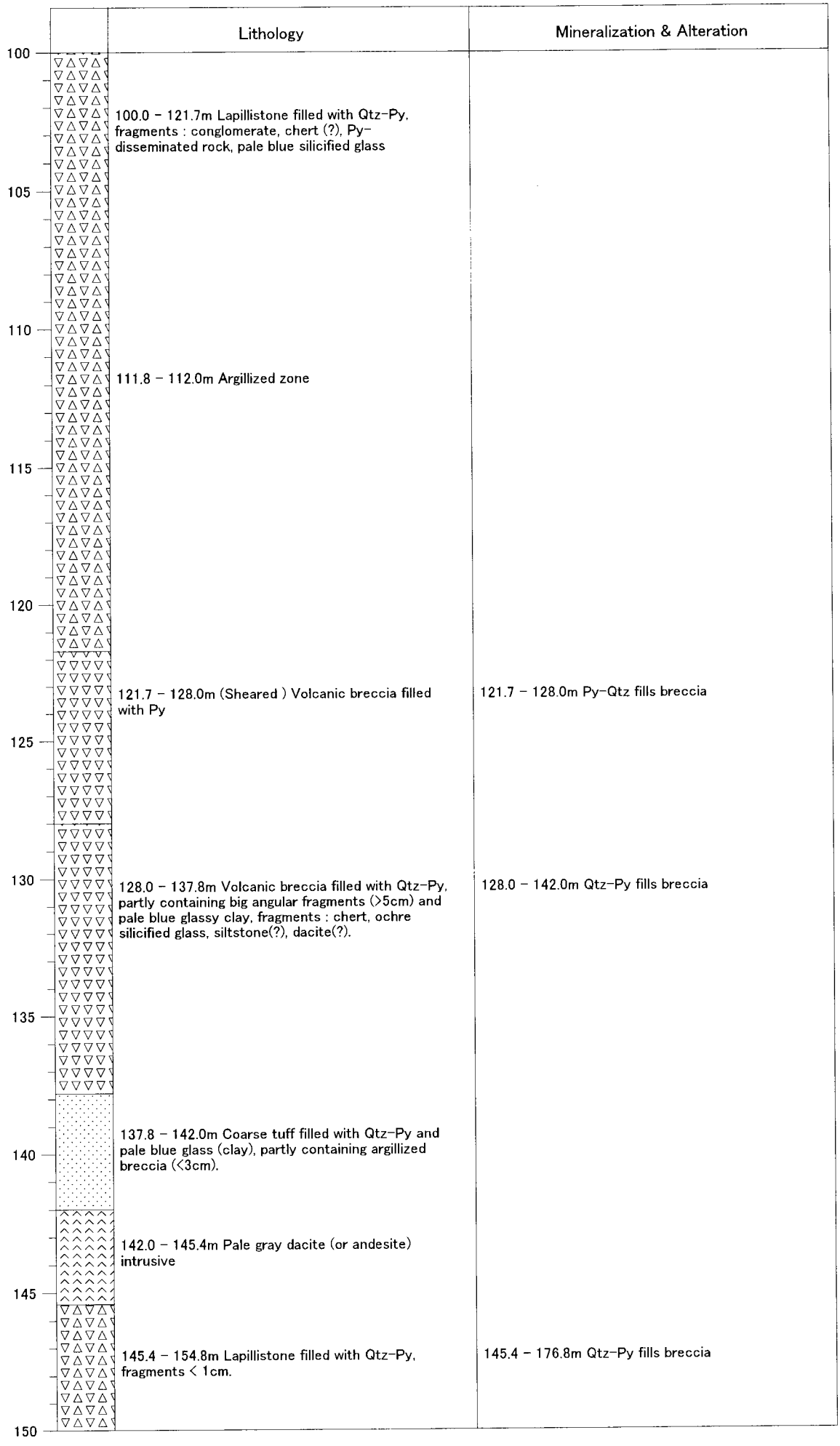


Lithology	Mineralization & Alteration
50.6 – 51.9m sheared – argillized breccia with Qtz–Py	
51.9 – 60.3m Lapillistone to lapilli tuff with Qtz–Py, with ochre colored silicified glass	50.6 – 60.3m Qtz–Py fills breccia
(55.4 – 56.2m Water loss at drilling time)	
60.3 – 61.5m Sheared and silicified dacite (?) filled with Py–Qtz	60.3 – 61.5m Py–Qtz fills breccia
	61.5 – 80.0m Qtz–Py fills breccia
61.5 – 80.0m Lapillistone filled with Qtz–Py, fragments are mainly subrouded silicified rock. Size of fragments is less than 1cm.	
80.0 – 81.0m Dacitic tuff (?)	80.0 – 81.0m Py dissemination very weak
81.0 – 91.8m Lapillistone with Qtz–Py, containing pale green glass abundantly	81.0 – 121.7m Qtz–Py fills breccia
(82.8 – 85.8m and 88.8 – 91.8m Water loss at drilling time)	
91.8 – 100.0m Coarse tuff filled or disseminate with Qtz–Py, containing plae blue or green argillized glass, partly with big rock fragments(maximum 3cm in length)	

Drill Hole No. : MJSU-15 Date Started Oct. 11, 2000 Date Completed : Nov. 8, 2000

Easting : E 707.367 Northing : N 2,620.625 Elevation (mSL) : 944

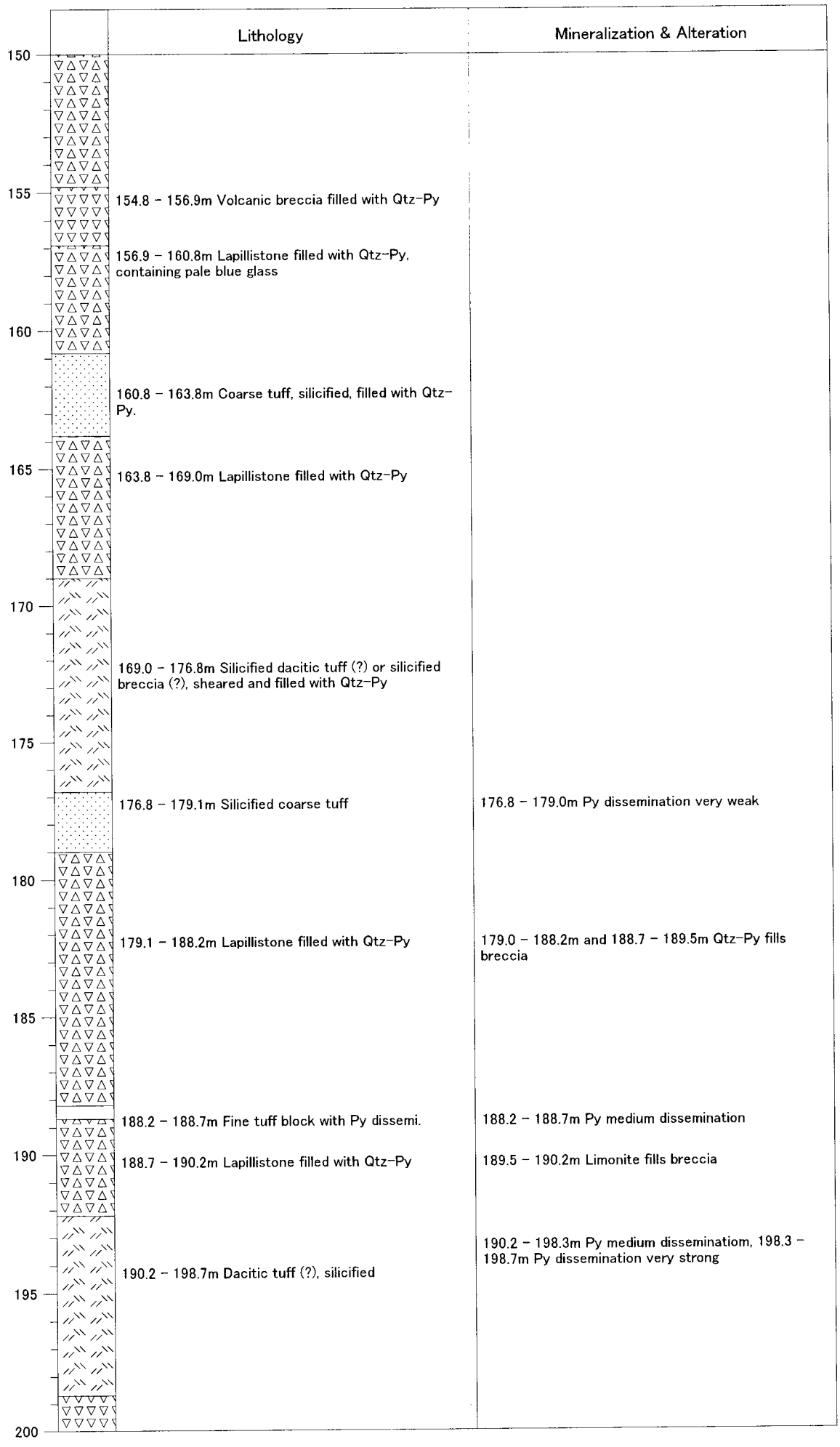
Azimuth : 335 Inclination : -70 Drilled by SGS/BRGM



Drill Hole No. : MJSU-15 Date Started Oct. 11, 2000 Date Completed : Nov. 8, 2000

Easting : E 707.367 Northing : N 2,620.625 Elevation (mSL) : 944

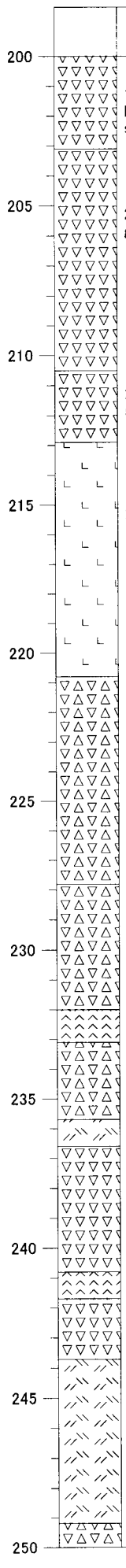
Azimuth : 335 Inclination : -70 Drilled by SGS/BRGM



Drill Hole No. : MJSU-15 Date Started Oct. 11, 2000 Date Completed : Nov. 8, 2000

Easting : E 707.367 Northing : N 2,620.625 Elevation (mSL) : 944

Azimuth : 335 Inclination : -70 Drilled by SGS/BRGM

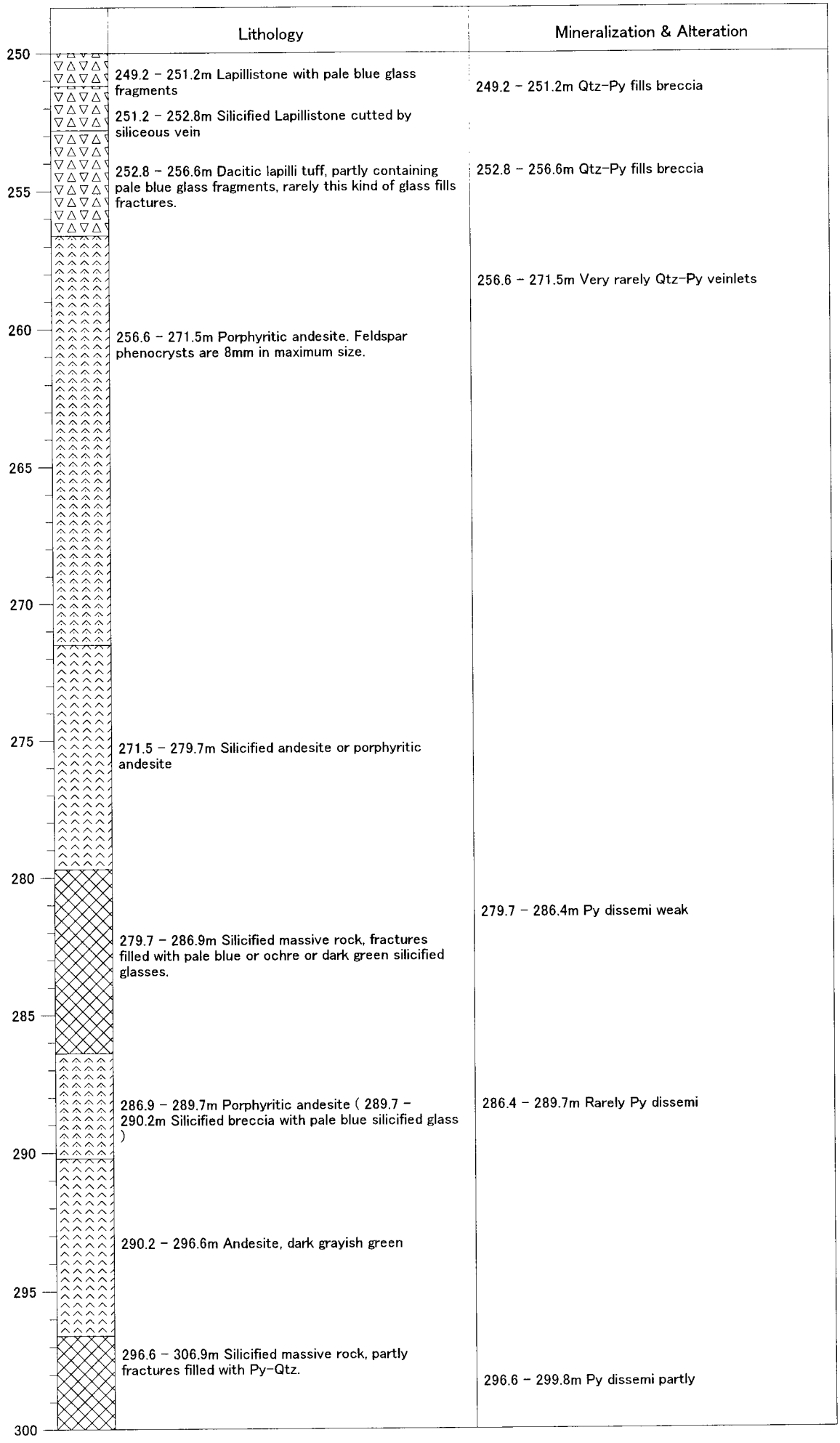


Lithology	Mineralization & Alteration
198.7 – 203.1m Breccia composed of mono-lithology (dacite ?) filled with Py-Qtz. Fragments size is variable.	198.7 – 203.1m Py-Qtz fills breccia
203.1 – 210.5m Volcanic breccia with pale blue glass, filled with Qtz-Py	203.1 – 210.5m Qtz-Py fills breccia
210.5 – 212.9m Silicified breccia , partly massive silicified rock, or filled with ochre-colored quartz	210.5 – 212.9m Py veinlets or Py fills fractures
212.9 – 220.8m Rhyodacite or dacite (?), silicified	212.9 – 220.8m Py strong dissemination
220.8 – 227.7m Lapillistone filled with Qtz-Py. partly composed of very fine-grained fragments (coarse sand size)	220.8 – 227.7m Qtz-Py fills breccia
227.7m Fault clay	227.7 – 227.8m Py strong dissemination
227.7 – 227.8m Dacite (?) intrusive	
227.8 – 232.0m Lapillistone. Abundant fragments filled with Py-Qtz	227.8 – 232.0m Py-Qtz fills breccia
232.0 – 233.1m Dacite (?) intrusive (?)	232.0 – 233.1m Py dissemination weak to medium
233.1 – 235.7m Lapillistone. Abundant fragments filled with Py-Qtz	233.1 – 235.7m Py-Qtz fills breccia
235.7 – 236.6m Dacitic tuff	235.7 – 236.6m Py dissemination strong
236.6 – 240.8m Volcanic breccia, partly containing dacitic tuff big fragments	236.6 – 240.8m and 241.7 – 243.7m Qtz-Py fills breccia
240.8 – 241.7m Andesite, intrusive	
241.7 – 243.7m Volcanic breccia, partly containing dacitic tuff big fragments	
243.7 – 249.2m Dacitic tuff (?) with pale blue glass patch, rarely arranged in bedding or shear plane.	243.7 – 249.2m Py dissemi medium

Drill Hole No. : MJSU-15 Date Started Oct. 11, 2000 Date Completed : Nov. 8, 2000

Easting : E 707.367 Northing : N 2,620.625 Elevation (mSL) : 944

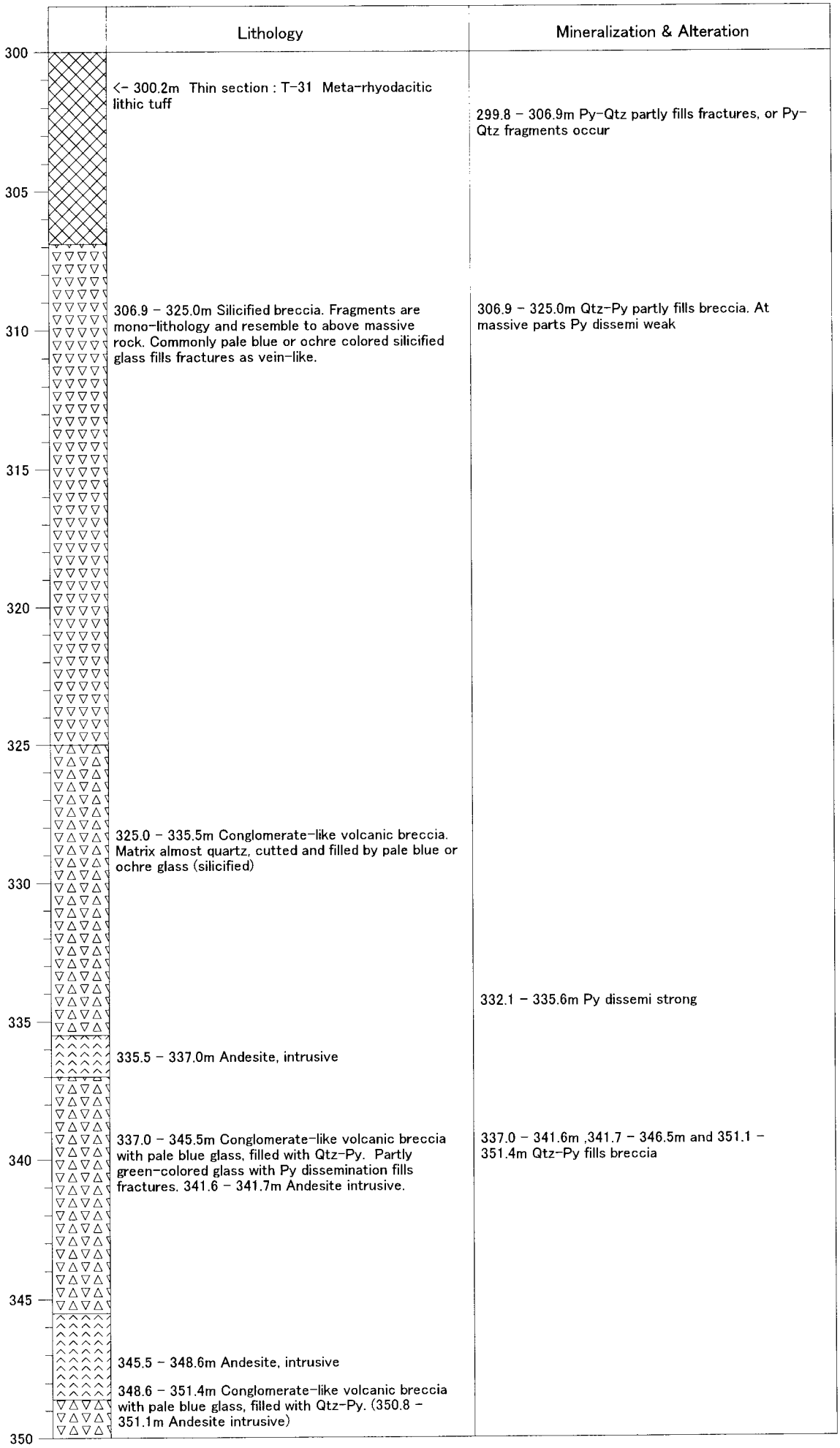
Azimuth : 335 Inclination : -70 Drilled by SGS/BRGM



Drill Hole No. : MJSU-15 Date Started Oct. 11, 2000 Date Completed : Nov. 8, 2000

Easting : E 707.367 Northing : N 2,620.625 Elevation (mSL) : 944

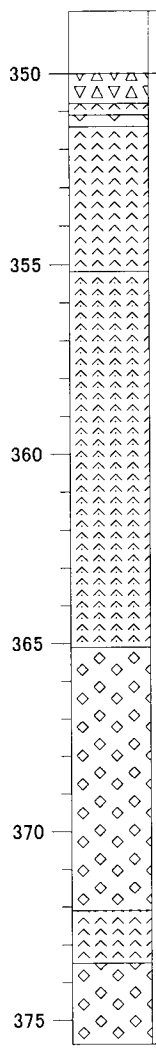
Azimuth : 335 Inclination : -70 Drilled by SGS/BRGM



Drill Hole No. : MJSU-15 Date Started Oct. 11, 2000 Date Completed : Nov. 8, 2000

Easting : E 707.367 Northing : N 2,620.625 Elevation (mSL) : 944

Azimuth : 335 Inclination : -70 Drilled by SGS/BRGM

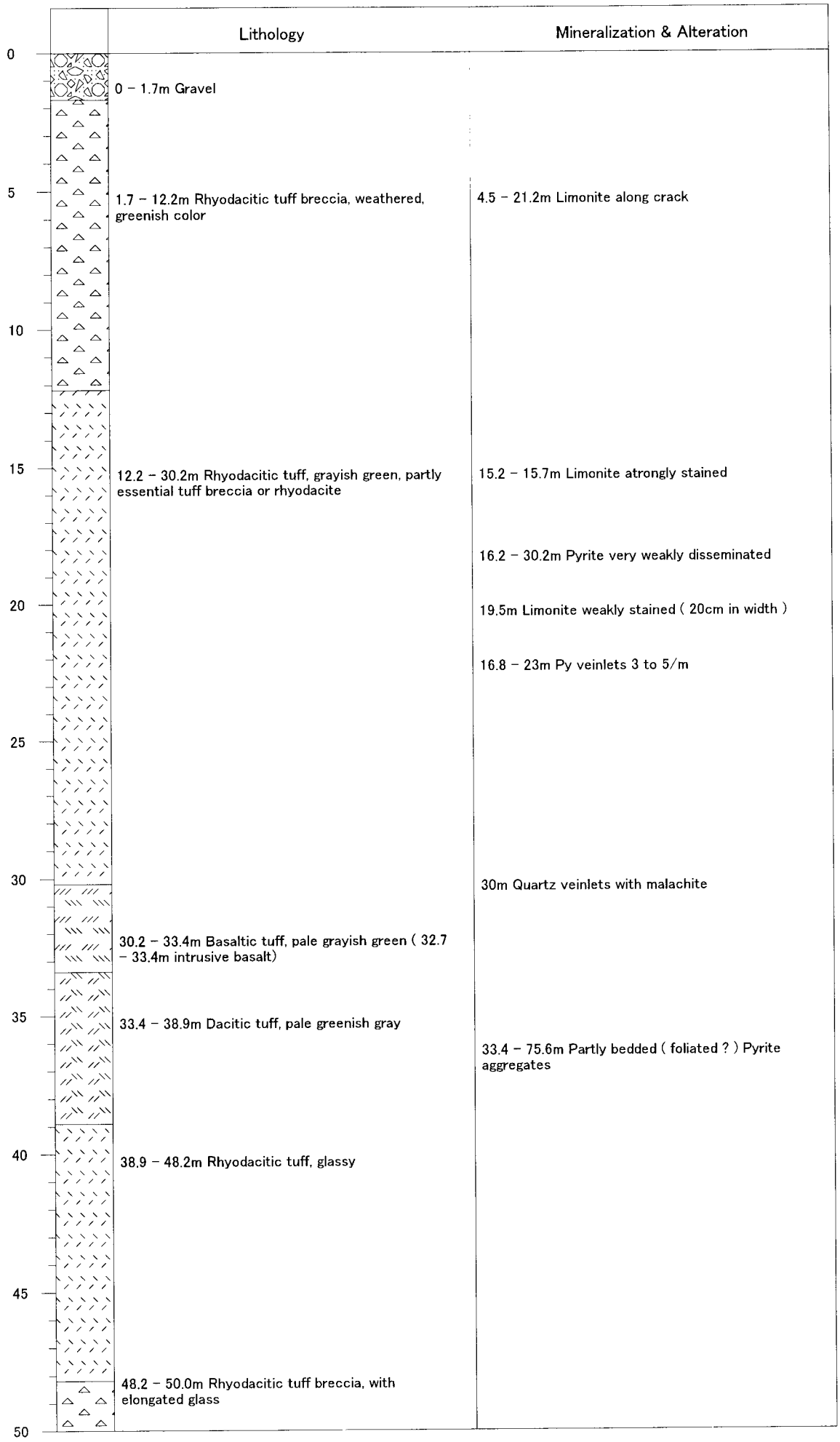


Lithology	Mineralization & Alteration
350.8 – 351.1m Andesite to porphyritic andesite 351.1 – 351.4m Mono-lithologic breccia, filled with Qtz(-Py) 351.4 – 355.2m Andesite intrusive 355.2 – 365.1m Porphyritic andesite	
365.1 – 367.05m Strongly silicified rock, partly breccia, cutted by green or ochre silicified glass	365.1 – 365.6m A few Py veinlets 365.6 – 366.55m Py fills spotedly some fractures
367.05 – 372.1m Siliceous sandstone or tuff, cutted or filled by ochre quartz, partly brecciated	367.15 – 372.1m Partly Py filling fractures or occurring spotedly, almost barren for sulfide
372.1 – 373.5m Andesite	
373.5 – 375.65m Brecciated tuff or silicified rock, filled with ochre quartz, again fractured and filled with green or ochre quartz	373.5 – 375.65m Py fills fractures with green or ochre quartz

Drill Hole No. : MJSU-16 Date Started Oct. 24, 2000 Date Completed : Oct. 31, 2000

Easting : E 708.566 Northing : N 2,617.598 Elevation (mSL) : 960

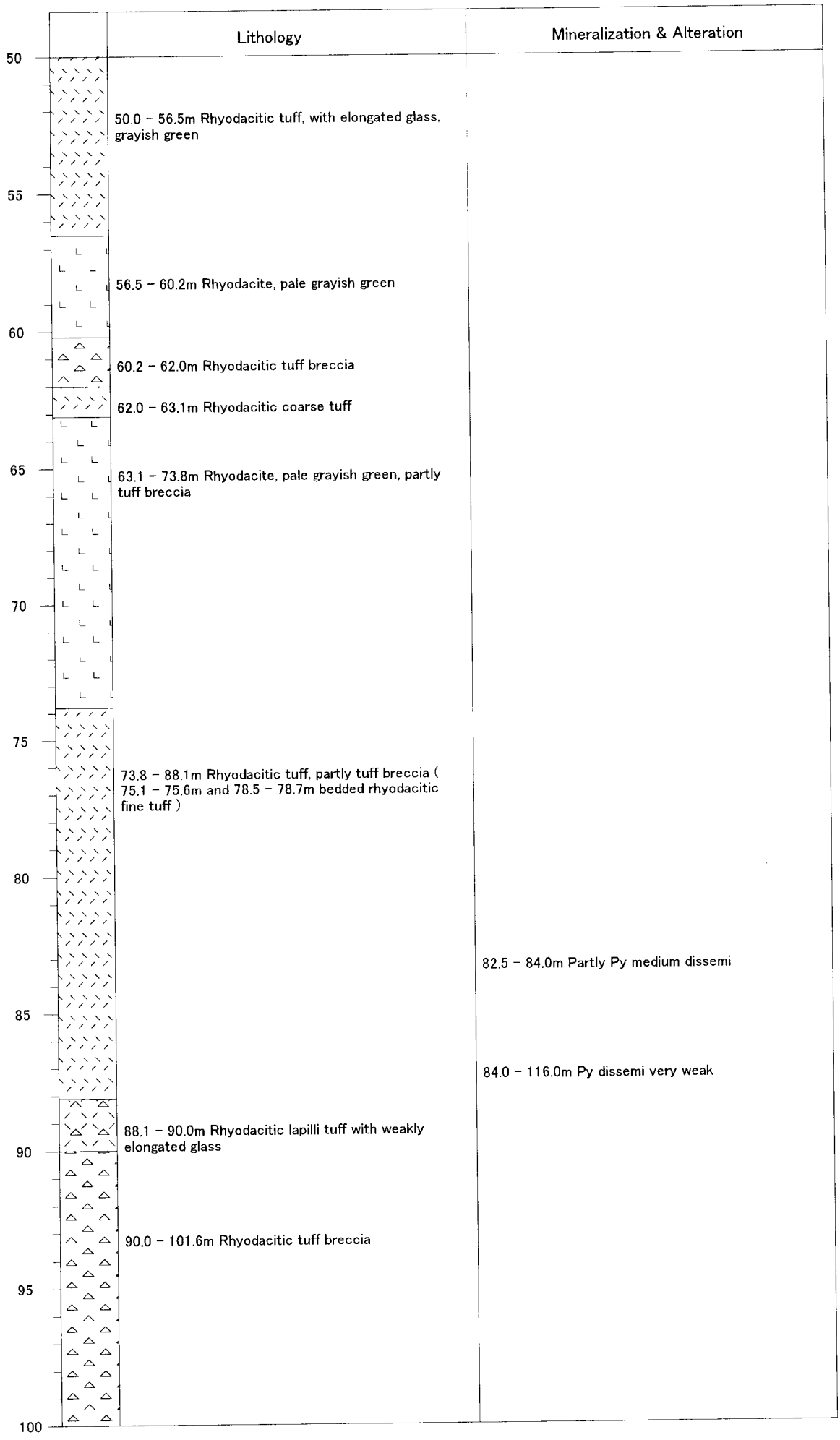
Azimuth : 245 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-16 Date Started Oct. 24, 2000 Date Completed : Oct. 31, 2000

Easting : E 708.566 Northing : N 2,617.598 Elevation (mSL) : 960

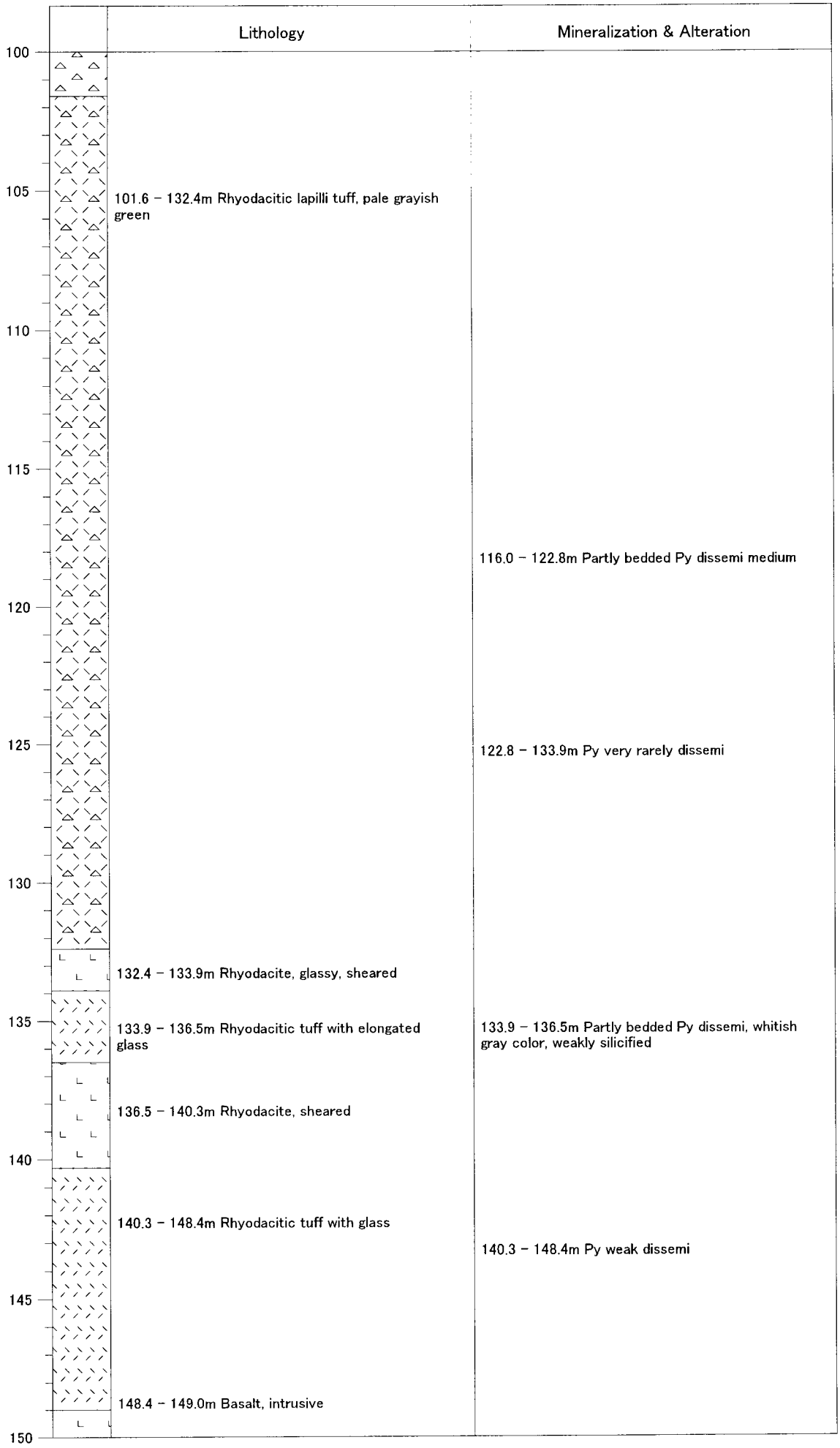
Azimuth : 245 Inclination : -55 Drilled by SGS/BRGM



Drill Hole No. : MJSU-16 Date Started Oct. 24, 2000 Date Completed : Oct. 31, 2000

Easting : E 708.566 Northing : N 2,617.598 Elevation (mSL) : 960

Azimuth : 245 Inclination : -55 Drilled by SGS/BRGM



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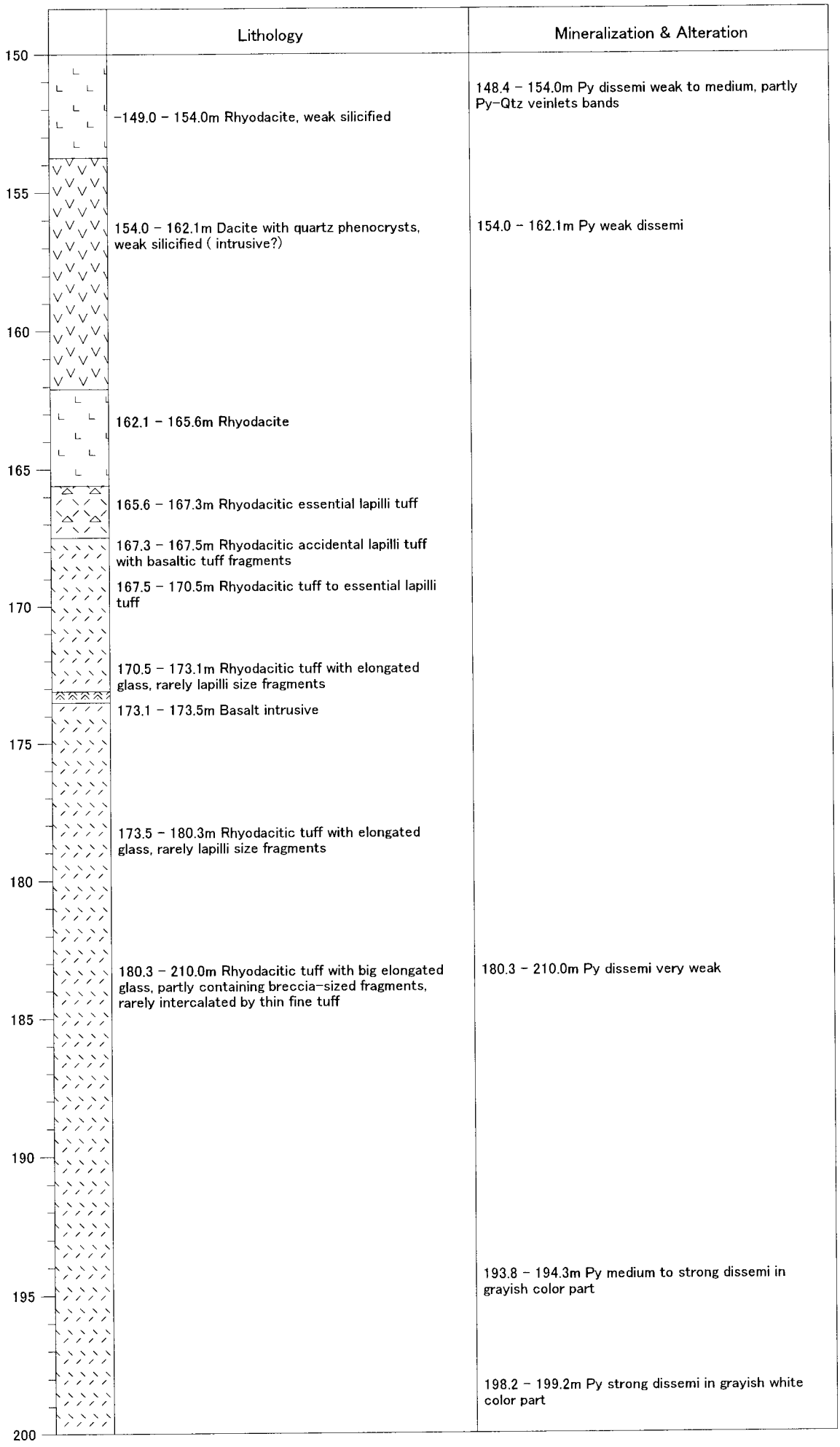

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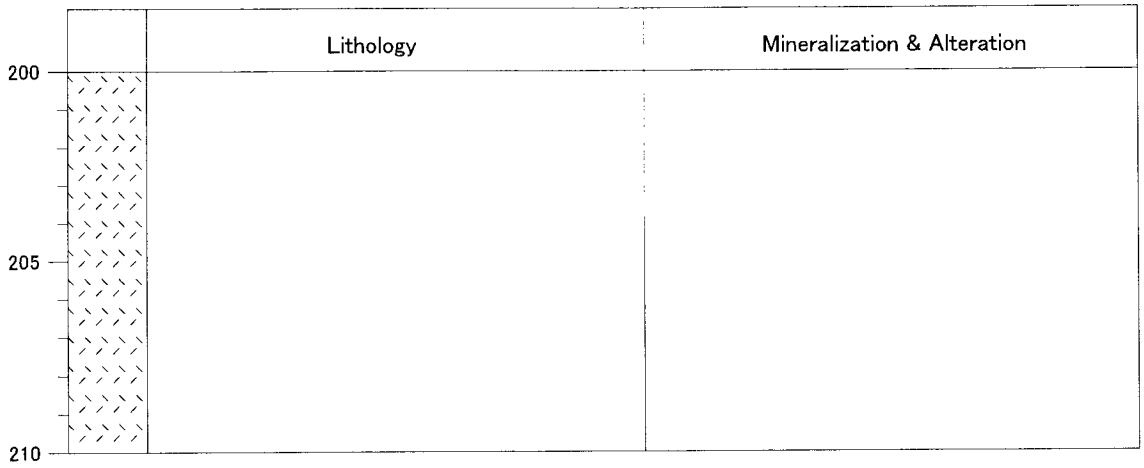

Appendix 28 Borehole Deviations of MJSU-9 to MJSU-16

Drill Hole No.	Depth (m)	Direction (degree)	Inclination (degree)
MJSU-9	0.0	155	-55
	100.0	157	-53
	200.0	161	-51
	379.5	163	-48
MJSU-10	0.0	300	-55
	100.0	300	-55
	200.0	300	-51
	300.0	300	-51
	350.0	300	-50
MJSU-11	0.0	150	-55
	100.0	154	-54
	250.0	158	-54
MJSU-12	0.0	270	-55
	100.0	278	-54
	200.0	278	-51
	250.0	279	-50
MJSU-13	0.0	330	55
	100.0	336	54
	249.5	337	53
MJSU-14	0.0	245	-55
	100.0	244	-54
	200.0	245	-52
	274.0	248	-50
MJSU-15	0.0	335	-70
	100.0	340	-68
	200.0	337	-67
	375.0	348	-64
MJSU-16	0.0	245	55
	100.0	250	53
	209.5	250	50

Appendix 29 Results of Ore Assay(1)

Drill Hole No.	Depth (m) from	Depth (m) to	Width (m)	Au (g/t)	Ag (g/t)	Cu ppm	Zn ppm	Pb ppm	S (%)
MJSU-9	2.70	4.20	1.50	<0.05	<1.0	192	77	13	<0.05
	5.70	7.20	1.50	<0.05	<1.0	113	14	11	<0.05
	8.70	10.20	1.50	<0.05	<1.0	100	66	17	0.25
	11.70	13.20	1.50	<0.05	<1.0	104	44	16	0.44
	14.70	16.20	1.50	<0.05	<1.0	34	12	7	<0.05
	17.70	19.20	1.50	<0.05	1.0	86	8	20	<0.05
	20.70	22.20	1.50	<0.05	5.5	140	23	67	<0.05
	23.70	25.20	1.50	<0.05	3.0	283	23	25	<0.05
	26.70	28.20	1.50	<0.05	1.7	132	60	18	<0.05
	29.70	31.20	1.50	<0.05	<1.0	92	12	11	<0.05
	32.40	33.90	1.50	0.07	1.4	114	7	27	0.90
	33.90	35.40	1.50	0.06	1.6	73	7	21	0.36
	35.40	36.90	1.50	<0.05	1.4	156	8	22	1.05
	36.90	38.40	1.50	<0.05	1.6	39	7	15	0.44
	38.40	39.90	1.50	<0.05	1.6	19	6	20	0.93
	39.90	41.50	1.60	<0.05	1.7	33	14	21	1.08
	41.50	43.00	1.50	<0.05	1.8	645	10	17	5.11
	43.00	44.50	1.50	<0.05	1.7	76	8	30	2.08
	44.50	46.00	1.50	<0.05	1.7	328	15	29	4.86
	46.00	47.50	1.50	<0.05	1.1	249	20	32	2.93
	47.50	49.00	1.50	<0.05	2.3	1,205	1,050	43	3.17
	49.00	50.50	1.50	<0.05	<1.0	83	44	8	2.94
	50.50	52.00	1.50	<0.05	<1.0	83	44	6	2.73
	52.00	53.50	1.50	<0.05	2.3	394	5,505	24	4.38
	53.50	55.00	1.50	<0.05	<1.0	153	64	12	3.26
	55.00	56.50	1.50	<0.05	<1.0	166	44	11	3.62
	56.50	58.00	1.50	<0.05	<1.0	393	60	16	5.22
	58.00	59.50	1.50	<0.05	<1.0	201	55	16	5.16
	59.50	61.00	1.50	<0.05	<1.0	317	83	13	4.75
	61.00	62.50	1.50	<0.05	1.2	459	42	15	5.26
	62.50	64.00	1.50	<0.05	1.0	194	44	16	4.65
	64.00	65.50	1.50	<0.05	<1.0	214	44	20	5.00
	65.50	67.00	1.50	<0.05	1.0	168	114	13	4.59
	67.00	68.50	1.50	<0.05	<1.0	124	72	12	3.76
	68.50	70.00	1.50	<0.05	<1.0	179	26	14	4.65
	70.00	71.50	1.50	0.06	1.0	456	149	14	3.90
	71.50	73.00	1.50	0.06	1.5	321	29	16	5.83
	73.00	74.50	1.50	0.08	<1.0	259	67	9	3.09
	74.50	76.00	1.50	0.06	1.0	249	29	12	3.53
	76.00	77.50	1.50	0.09	1.0	241	14	13	6.30
	77.50	79.00	1.50	0.07	<1.0	185	36	12	3.86
	79.00	80.50	1.50	0.05	<1.0	199	20	18	6.30
	80.50	82.00	1.50	0.05	1.0	189	26	13	5.38
	82.00	83.50	1.50	<0.05	<1.0	154	15	13	4.91
	83.50	85.00	1.50	<0.05	<1.0	109	22	9	3.55
	85.00	86.50	1.50	<0.05	<1.0	139	12	9	2.85
	86.50	88.00	1.50	<0.05	<1.0	114	14	10	4.28
	88.00	89.50	1.50	<0.05	<1.0	65	14	10	5.02
	89.50	91.00	1.50	0.06	<1.0	66	10	11	5.00
	91.00	92.50	1.50	<0.05	<1.0	62	9	9	4.13
	92.50	94.00	1.50	<0.05	<1.0	64	17	7	2.36
	94.00	95.50	1.50	<0.05	<1.0	72	17	10	2.68
	95.50	97.00	1.50	<0.05	<1.0	51	52	7	0.34
	97.00	98.50	1.50	<0.05	<1.0	55	158	10	1.14
	98.50	100.00	1.50	<0.05	<1.0	53	28	10	2.79
	100.00	101.50	1.50	<0.05	<1.0	62	28	10	4.49
	101.50	103.00	1.50	<0.05	<1.0	52	14	10	2.66
	103.00	103.70	0.70	<0.05	<1.0	72	21	13	4.60
	107.80	109.30	1.50	0.05	1.2	116	61	17	3.69
	109.30	109.90	0.60	<0.05	1.1	128	18	14	1.46
	109.90	111.00	1.10	<0.05	1.2	97	68	13	3.12
	127.40	128.90	1.50	<0.05	<1.0	115	36	7	1.96
	128.90	130.40	1.50	<0.05	<1.0	124	70	8	2.29

Appendix 29 Results of Ore Assay(2)

Drill Hole No.	Depth (m) from	Depth (m) to	Width (m)	Au (g/t)	Ag (g/t)	Cu ppm	Zn ppm	Pb ppm	S (%)
MJSU-9	130.40	131.30	0.90	<0.05	<1.0	91	49	7	3.04
	133.00	134.50	1.50	<0.05	1.1	73	43	12	5.23
	134.50	136.00	1.50	<0.05	1.6	76	26	10	5.35
	136.00	137.50	1.50	<0.05	1.0	193	44	9	4.44
	137.50	139.00	1.50	<0.05	1.6	233	69	27	7.27
	139.00	140.50	1.50	<0.05	1.3	232	45	16	7.36
	140.50	142.00	1.50	<0.05	<1.0	96	64	9	5.28
	142.00	143.50	1.50	<0.05	<1.0	99	32	13	6.55
	143.50	145.00	1.50	<0.05	<1.0	89	43	17	4.37
	145.00	146.50	1.50	<0.05	1.1	195	90	32	4.51
	146.50	148.00	1.50	<0.05	<1.0	83	20	10	4.06
	148.00	148.70	0.70	<0.05	<1.0	71	44	13	4.17
	166.00	167.50	1.50	<0.05	<1.0	72	42	16	4.71
	167.50	169.00	1.50	<0.05	1.0	128	81	23	6.73
	169.00	170.50	1.50	<0.05	<1.0	79	80	29	4.14
	170.50	172.00	1.50	<0.05	<1.0	57	304	16	2.92
	172.00	173.50	1.50	<0.05	<1.0	92	285	28	5.00
	173.50	175.00	1.50	<0.05	<1.0	81	134	35	5.15
	175.00	176.50	1.50	<0.05	<1.0	68	252	84	4.55
	176.50	178.00	1.50	<0.05	<1.0	62	409	71	4.56
	178.00	179.50	1.50	<0.05	1.6	217	410	85	8.66
	179.50	181.00	1.50	<0.05	1.5	189	511	78	5.56
	181.00	182.50	1.50	<0.05	1.8	377	533	118	9.91
	182.50	184.00	1.50	<0.05	1.8	401	532	128	10.62
	184.00	185.50	1.50	<0.05	1.2	250	297	70	7.65
	185.50	187.00	1.50	<0.05	1.3	395	257	99	13.68
	187.00	188.50	1.50	<0.05	1.0	295	189	62	9.18
	188.50	190.00	1.50	<0.05	1.0	427	98	75	12.43
	190.00	191.50	1.50	<0.05	1.1	468	68	68	14.04
	191.50	193.00	1.50	<0.05	1.4	376	289	81	11.90
	193.00	194.50	1.50	<0.05	<1.0	297	187	58	8.55
	194.50	196.00	1.50	<0.05	1.6	246	125	67	7.70
	196.00	197.50	1.50	<0.05	2.4	479	291	101	8.67
	197.50	199.00	1.50	<0.05	3.9	591	492	115	11.54
	199.00	200.50	1.50	<0.05	4.0	644	390	107	13.96
	200.50	202.00	1.50	<0.05	3.4	648	150	92	12.78
	202.00	203.50	1.50	<0.05	1.5	206	247	54	6.82
	203.50	205.00	1.50	<0.05	<1.0	66	92	31	6.90
	205.00	206.50	1.50	<0.05	<1.0	78	274	35	5.42
	206.50	208.00	1.50	<0.05	<1.0	164	960	49	7.94
	208.00	209.50	1.50	<0.05	1.6	266	616	76	9.59
	209.50	211.00	1.50	<0.05	1.0	425	79	62	13.82
	211.00	212.50	1.50	<0.05	<1.0	459	37	53	13.15
	212.50	214.00	1.50	<0.05	<1.0	451	42	48	12.98
	214.00	215.50	1.50	<0.05	<1.0	410	39	49	13.07
	215.50	217.00	1.50	<0.05	1.4	400	151	56	11.89
	217.00	218.50	1.50	<0.05	1.5	260	333	45	8.07
	218.50	220.00	1.50	<0.05	1.3	176	582	45	5.72
	220.00	221.50	1.50	<0.05	1.3	185	448	36	6.29
	221.50	223.00	1.50	<0.05	2.2	283	353	86	10.29
	223.00	224.50	1.50	<0.05	1.3	219	592	61	11.52
	224.50	226.00	1.50	<0.05	1.3	218	589	59	7.84
	226.00	228.00	2.00	<0.05	1.0	188	145	38	6.07
	228.00	230.00	2.00	<0.05	<1.0	215	78	40	6.23
	230.00	232.00	2.00	<0.05	<1.0	194	145	40	5.58
	232.00	234.00	2.00	<0.05	1.0	243	173	41	2.96
	234.00	236.00	2.00	<0.05	<1.0	100	346	21	6.34
	236.00	238.00	2.00	<0.05	<1.0	131	159	21	5.58
	238.00	240.00	2.00	<0.05	<1.0	111	550	19	3.92
	240.00	242.00	2.00	<0.05	<1.0	107	474	21	5.62
	242.00	244.00	2.00	<0.05	<1.0	77	140	19	4.10
	244.00	246.00	2.00	<0.05	<1.0	90	174	17	3.55
	246.00	248.00	2.00	<0.05	<1.0	103	56	18	3.43

Appendix 29 Results of Ore Assay(3)

Drill Hole No.	Depth (m) from	Depth (m) to	Width (m)	Au (g/t)	Ag (g/t)	Cu ppm	Zn ppm	Pb ppm	S (%)
MJSU-9	248.00	250.00	2.00	<0.05	1.0	148	60	22	4.30
	250.00	252.00	2.00	<0.05	1.4	224	115	31	6.64
	252.00	254.00	2.00	<0.05	<1.0	149	129	20	4.19
	254.00	256.00	2.00	0.06	<1.0	266	136	41	8.71
	256.00	258.00	2.00	0.06	2.0	212	218	39	11.94
	258.00	260.00	2.00	<0.05	2.2	266	197	53	11.69
	260.00	262.00	2.00	<0.05	1.4	338	276	52	12.00
	262.00	264.00	2.00	<0.05	1.5	302	138	48	9.94
	264.00	266.00	2.00	<0.05	2.1	330	343	56	11.07
	266.00	268.00	2.00	<0.05	2.1	305	212	45	8.50
	268.00	270.00	2.00	<0.05	1.9	143	248	38	6.71
	270.00	272.00	2.00	<0.05	2.2	175	278	107	6.07
	272.00	274.00	2.00	0.05	1.9	184	210	47	9.21
	274.00	276.00	2.00	<0.05	1.9	270	183	80	9.13
	276.00	278.00	2.00	<0.05	1.3	114	209	38	3.81
	278.00	280.00	2.00	<0.05	3.3	119	306	119	8.00
	280.00	282.00	2.00	<0.05	3.6	127	432	304	7.35
	282.00	284.00	2.00	<0.05	3.3	149	608	137	5.74
	284.00	286.00	2.00	<0.05	2.1	120	430	110	6.24
	286.00	288.00	2.00	<0.05	2.5	172	542	181	7.22
	288.00	290.00	2.00	<0.05	1.2	158	319	86	3.93
	290.00	292.00	2.00	<0.05	4.7	301	843	626	7.71
	292.00	294.00	2.00	<0.05	2.9	206	608	63	8.34
	294.00	296.00	2.00	<0.05	2.6	215	360	56	9.36
	296.00	297.55	1.55	<0.05	3.8	281	245	54	8.24
	297.55	299.55	2.00	<0.05	2.3	252	113	46	7.56
	299.55	301.55	2.00	<0.05	2.0	342	189	51	9.26
	301.55	303.55	2.00	<0.05	2.9	286	593	42	8.29
	303.55	305.55	2.00	<0.05	2.3	305	269	45	7.94
	305.55	307.55	2.00	0.25	3.8	300	315	46	9.79
	307.55	310.00	2.45	<0.05	2.3	179	184	40	9.10
	310.00	312.00	2.00	<0.05	1.8	144	163	27	8.42
	312.00	314.00	2.00	0.08	5.8	797	451	70	13.44
	314.00	315.70	1.70	0.05	14.5	3,260	582	148	16.93
	315.70	317.70	2.00	0.06	10.1	329	835	82	14.52
	317.70	318.50	0.80	<0.05	9.2	150	1,590	77	26.72
	321.60	323.60	2.00	0.07	8.2	516	724	161	18.16
	323.60	324.90	1.30	0.10	8.2	660	676	108	13.77
	326.90	328.10	1.20	0.22	10.6	347	471	106	16.00
	334.60	336.70	2.10	0.09	4.0	389	690	69	8.48
	336.70	337.40	0.70	<0.05	52.1	295	774	98	28.19
	337.50	339.90	2.40	0.06	42.5	238	649	111	16.02
	339.90	341.25	1.35	0.17	22.5	505	1,700	175	13.55
	341.25	343.40	2.15	0.33	86.6	885	4,540	490	23.67
	343.40	343.90	0.50	<0.05	17.5	192	1,280	166	7.70
	343.90	345.00	1.10	0.47	32.9	2,850	1,090	540	9.59
	345.00	347.30	2.30	0.23	34.1	1,630	1,120	218	16.73
	347.30	349.00	1.70	0.33	31.6	574	1,760	386	18.33
	349.50	350.30	0.80	0.07	16.0	354	1,480	125	14.08
	350.80	351.80	1.00	0.24	20.7	562	996	230	14.97
	351.80	352.55	0.75	<0.05	27.7	184	1,530	200	7.60
	352.55	353.40	0.85	0.25	19.6	746	2,200	450	10.02
	353.40	354.60	1.20	0.09	3.6	175	335	92	12.77
	354.60	355.10	0.50	0.12	5.8	239	309	106	14.88
	355.10	355.50	0.40	0.16	8.7	551	708	97	17.99
	355.50	356.90	1.40	0.12	7.5	397	216	95	13.53
	356.90	357.70	0.80	0.16	9.0	805	343	112	21.80
	357.70	359.70	2.00	0.08	3.8	211	437	50	12.33
	359.70	361.70	2.00	0.08	1.2	193	2,380	74	9.30
	361.70	363.70	2.00	0.15	2.9	93	2,910	144	9.73
	363.70	365.70	2.00	0.07	1.6	80	336	45	6.67
MJSU-10	5.10	6.10	1.00	<0.05	<1.0	35	20	<5	2.27
	8.40	9.40	1.00	<0.05	<1.0	15	15	<5	<0.05

Appendix 29 Results of Ore Assay(4)

Drill Hole No.	Depth (m)		Width (m)	Au (g/t)	Ag (g/t)	Cu ppm	Zn ppm	Pb ppm	S (%)
	from	to							
MJSU-10	9.40	9.80	0.40	<0.05	<1.0	50	50	<5	0.44
	9.80	10.80	1.00	<0.05	<1.0	30	50	<5	0.52
	12.80	13.80	1.00	<0.05	<1.0	30	60	<5	<0.05
	14.80	15.80	1.00	<0.05	<1.0	20	30	<5	0.36
	15.80	16.30	0.50	<0.05	<1.0	35	40	<5	0.52
	16.30	17.30	1.00	<0.05	<1.0	20	60	15	0.34
	18.70	19.70	1.00	<0.05	<1.0	15	40	60	0.54
	19.70	21.10	1.40	<0.05	<1.0	30	110	20	0.39
	21.10	22.10	1.00	<0.05	<1.0	25	140	<5	<0.05
	22.75	23.75	1.00	<0.05	<1.0	30	190	<5	<0.05
	23.75	23.85	0.10	<0.05	<1.0	50	620	20	0.28
	23.85	24.85	1.00	<0.05	<1.0	35	700	<5	<0.05
	67.50	69.50	2.00	<0.05	<1.0	700	300	<5	4.57
	69.50	71.50	2.00	<0.05	<1.0	470	1440	15	3.65
	71.50	73.50	2.00	<0.05	<1.0	175	370	<5	0.76
	73.50	75.50	2.00	<0.05	<1.0	360	440	<5	2.51
	75.50	77.50	2.00	<0.05	<1.0	170	820	<5	2.00
	77.50	79.50	2.00	<0.05	<1.0	65	490	<5	1.72
	79.50	81.50	2.00	0.12	<1.0	70	760	50	2.32
	81.50	82.50	1.00	<0.05	<1.0	65	1600	70	2.45
	83.60	85.10	1.50	<0.05	<1.0	225	4760	420	3.40
	136.60	137.60	1.00	<0.05	<1.0	45	140	<5	6.00
	137.60	138.60	1.00	<0.05	<1.0	20	80	<5	4.22
	138.60	139.60	1.00	<0.05	<1.0	15	40	<5	4.88
	139.60	140.60	1.00	<0.05	<1.0	25	60	<5	10.32
	140.60	141.60	1.00	<0.05	<1.0	10	60	<5	4.76
	141.60	142.60	1.00	<0.05	<1.0	20	70	<5	6.88
	142.60	143.60	1.00	<0.05	<1.0	25	70	<5	5.32
	143.60	144.60	1.00	<0.05	<1.0	15	70	<5	4.36
	144.60	145.60	1.00	<0.05	<1.0	15	60	<5	10.53
	145.60	146.60	1.00	<0.05	<1.0	15	60	<5	13.91
	146.60	147.60	1.00	<0.05	<1.0	10	40	<5	13.61
	147.60	148.60	1.00	<0.05	<1.0	10	40	<5	5.99
	148.60	149.60	1.00	<0.05	<1.0	10	40	<5	6.26
	149.60	150.60	1.00	<0.05	<1.0	15	40	<5	9.37
	150.60	151.60	1.00	<0.05	<1.0	25	20	<5	8.77
	151.60	152.60	1.00	<0.05	<1.0	45	15	<5	14.03
	152.60	153.60	1.00	<0.05	<1.0	20	15	<5	8.75
	153.60	154.60	1.00	<0.05	<1.0	75	60	<5	8.12
	154.60	155.60	1.00	<0.05	<1.0	75	300	<5	10.52
	155.60	156.60	1.00	<0.05	<1.0	35	30	<5	7.43
	156.60	157.60	1.00	<0.05	<1.0	25	20	<5	7.44
	157.60	158.60	1.00	<0.05	<1.0	25	20	<5	13.20
	158.60	159.60	1.00	<0.05	<1.0	150	110	<5	18.88
	159.60	160.90	1.30	<0.05	<1.0	40	20	25	15.23
	160.90	161.90	1.00	<0.05	<1.0	35	10	15	16.20
	161.90	162.90	1.00	<0.05	<1.0	70	15	15	18.48
	162.90	164.50	1.60	<0.05	<1.0	26	420	<5	5.15
	164.50	165.40	0.90	<0.05	<1.0	25	15	<5	13.80
	200.00	201.00	1.00	<0.05	<1.0	35	50	<5	4.47
	201.00	202.00	1.00	<0.05	<1.0	65	30	<5	4.97
	202.00	202.70	0.70	<0.05	<1.0	95	20	<5	4.94
MJSU-11	2.50	4.00	1.50	<0.05	<1.0	32	47	5	0.34
	5.50	7.00	1.50	<0.05	<1.0	26	40	3	0.36
	8.50	10.00	1.50	<0.05	<1.0	26	38	4	0.35
	11.50	13.00	1.50	<0.05	<1.0	6	26	4	0.22
	14.50	16.00	1.50	<0.05	<1.0	10	37	3	<0.05
	17.50	19.00	1.50	<0.05	<1.0	110	80	4	<0.05
	20.50	21.00	0.50	<0.05	<1.0	14	29	5	<0.05
	23.50	25.00	1.50	<0.05	<1.0	12	38	2	<0.05
	26.50	27.00	0.50	<0.05	<1.0	10	48	2	<0.05
	130.90	132.40	1.50	<0.05	<1.0	10	66	3	3.58
	132.40	133.90	1.50	<0.05	<1.0	106	20	4	11.77

Appendix 29 Results of Ore Assay(5)

Drill Hole No.	Depth (m)		Width (m)	Au (g/t)	Ag (g/t)	Cu ppm	Zn ppm	Pb ppm	S (%)
	from	to							
MJSU-12	133.90	135.40	1.50	<0.05	<1.0	48	16	2	8.52
	135.40	136.90	1.50	<0.05	<1.0	172	17	2	10.75
	136.90	138.40	1.50	<0.05	<1.0	20	35	5	8.55
	138.40	140.00	1.60	<0.05	<1.0	14	54	4	8.63
	140.00	141.50	1.50	<0.05	<1.0	12	50	3	4.53
	150.90	152.40	1.50	<0.05	<1.0	6	31	3	2.77
	152.40	155.70	3.30	<0.05	<1.0	8	28	3	4.82
	155.70	157.20	1.50	<0.05	<1.0	6	25	2	5.86
	157.20	158.70	1.50	<0.05	<1.0	10	26	2	3.60
	158.70	160.20	1.50	<0.05	<1.0	8	26	2	2.54
	160.20	161.70	1.50	<0.05	<1.0	8	23	3	7.62
	161.70	162.40	0.70	<0.05	<1.0	8	19	3	8.40
	162.40	163.60	1.20	<0.05	<1.0	8	24	3	7.80
	163.60	165.80	2.20	<0.05	<1.0	10	21	2	10.30
	165.80	167.30	1.50	<0.05	<1.0	10	24	2	4.50
	167.30	168.80	1.50	<0.05	<1.0	10	30	2	5.73
	168.80	169.50	0.70	<0.05	<1.0	16	46	3	8.74
	169.50	171.00	1.50	<0.05	<1.0	12	45	3	9.06
	182.00	182.40	0.40	<0.05	<1.0	14	91	2	4.73
	131.10	133.10	2.00	<0.05	<1.0	394	72	12	4.65
	133.10	135.10	2.00	<0.05	<1.0	125	63	13	3.29
	135.10	137.10	2.00	<0.05	<1.0	38	29	6	2.37
	137.10	139.10	2.00	<0.05	<1.0	197	41	6	2.92
	139.10	140.10	1.00	<0.05	<1.0	139	47	6	1.53
	140.10	142.10	2.00	<0.05	<1.0	931	114	8	6.31
	142.10	143.10	1.00	<0.05	<1.0	1,280	119	8	5.20
	163.30	165.90	2.60	<0.05	<1.0	63	41	8	7.68
	211.00	212.80	1.80	<0.05	<1.0	53	78	8	1.63
	227.75	227.95	0.20	<0.05	<1.0	223	39	18	28.34
	231.60	232.00	0.40	<0.05	<1.0	144	58	8	6.16
MJSU-13	89.50	91.00	1.50	<0.05	<1.0	161	117	7	3.77
	91.00	92.50	1.50	<0.05	<1.0	23	93	8	10.10
	92.50	94.00	1.50	<0.05	<1.0	37	142	8	1.90
	94.00	95.50	1.50	<0.05	<1.0	15	81	6	3.72
	95.50	97.00	1.50	<0.05	<1.0	24	95	10	12.87
	97.00	98.10	1.10	<0.05	<1.0	88	163	6	4.88
	122.10	123.70	1.60	<0.05	<1.0	335	462	8	4.05
	129.00	130.90	1.90	<0.05	<1.0	1112	334	5	4.78
	132.40	133.90	1.50	<0.05	<1.0	906	291	7	3.12
	133.90	135.40	1.50	<0.05	<1.0	540	472	7	4.13
	135.40	137.20	1.80	<0.05	<1.0	1486	244	8	5.27
	142.20	143.70	1.50	<0.05	<1.0	883	199	9	4.36
	143.70	145.20	1.50	<0.05	<1.0	1345	192	6	2.44
	148.70	149.70	1.00	<0.05	<1.0	193	230	8	5.99
	153.70	155.10	1.40	<0.05	<1.0	174	211	9	6.97
	159.30	160.60	1.30	<0.05	<1.0	215	191	5	6.10
	184.60	186.40	1.80	<0.05	<1.0	305	399	7	4.74
	186.40	188.40	2.00	<0.05	<1.0	139	659	10	2.70
MJSU-14	69.00	69.50	0.50	<0.05	<1.0	<5	80	<5	0.87
	97.90	98.30	0.40	0.09	<1.0	<5	30	<5	1.88
	109.40	111.40	2.00	0.10	<1.0	<5	80	<5	0.47
	111.40	113.40	2.00	<0.05	<1.0	<5	110	<5	0.75
	113.40	115.40	2.00	<0.05	<1.0	50	100	<5	0.63
	115.40	117.40	2.00	0.69	<1.0	<5	90	<5	0.56
	117.40	119.40	2.00	0.49	<1.0	110	35	<5	0.97
	119.40	121.40	2.00	<0.05	<1.0	40	30	<5	0.61
	140.20	141.10	0.90	<0.05	<1.0	90	250	<5	8.09
	150.50	152.50	2.00	<0.05	<1.0	50	300	<5	2.12
	152.50	154.50	2.00	<0.05	<1.0	160	190	<5	3.41
	165.70	166.30	0.60	<0.05	<1.0	<5	135	<5	3.95
	166.30	167.30	1.00	<0.05	<1.0	20	250	<5	2.22
	167.30	168.30	1.00	0.08	<1.0	530	250	<5	1.83
	170.80	171.70	0.90	<0.05	<1.0	40	300	<5	2.89

Appendix 29 Results of Ore Assay(6)

Drill Hole No.	Depth (m)		Width (m)	Au (g/t)	Ag (g/t)	Cu ppm	Zn ppm	Pb ppm	S (%)
	from	to							
MJSU-14	171.70	172.30	0.60	<0.05	4.0	40	250	<5	6.66
	194.70	195.70	1.00	<0.05	<1.0	40	350	<5	2.27
	195.70	196.30	0.60	0.08	5.0	5,300	410	<5	3.44
	196.30	197.30	1.00	<0.05	2.0	2,770	335	<5	3.43
	197.30	198.90	1.60	<0.05	<1.0	480	370	<5	1.43
	198.90	199.20	0.30	<0.05	3.5	300	465	<5	1.43
	201.90	202.90	1.00	<0.05	<1.0	260	3,600	<5	2.36
	202.90	203.20	0.30	<0.05	1.5	120	250	<5	17.60
	203.20	204.10	0.90	<0.05	2.5	500	1,300	<5	1.66
	204.10	204.45	0.35	0.19	12.5	31,000	750	<5	20.30
	204.45	205.45	1.00	<0.05	<1.0	80	75	<5	0.36
	219.15	219.80	0.65	0.16	3.0	2,130	475	<5	5.12
	219.80	220.10	0.30	0.27	7.5	890	500	<5	26.60
	220.10	220.20	0.10	<0.05	<1.0	340	205	<5	1.20
	220.20	220.90	0.70	0.24	34.0	11,300	350,000	<5	25.90
	220.90	221.00	0.10	0.25	25.0	5,100	150,000	<5	10.48
	221.00	221.20	0.20	<0.05	<1.0	80	2,760	<5	1.19
	221.20	221.75	0.55	0.17	51.0	22,800	110,000	<5	30.00
	221.75	222.35	0.60	<0.05	1.5	760	3,000	<5	4.78
	222.35	223.35	1.00	<0.05	<1.0	100	165	<5	1.41
	234.50	234.90	0.40	<0.05	<1.0	50	750	<5	0.48
MJSU-15	43.60	45.40	1.80	<0.05	<1.0	172	425	33	0.46
	45.40	47.40	2.00	<0.05	1.9	378	459	57	9.35
	47.40	49.40	2.00	0.06	2.0	431	123	42	11.60
	49.40	51.40	2.00	<0.05	1.5	653	106	63	13.89
	51.40	53.40	2.00	<0.05	1.6	345	105	28	7.43
	53.40	55.40	2.00	<0.05	1.3	156	65	27	5.01
	55.40	57.40	2.00	<0.05	1.3	133	84	28	6.54
	57.40	59.40	2.00	<0.05	<1.0	102	75	24	4.42
	59.40	61.40	2.00	<0.05	1.4	130	113	29	4.52
	61.40	63.40	2.00	<0.05	1.4	116	184	32	5.87
	63.40	65.40	2.00	<0.05	1.1	82	272	22	4.74
	65.40	67.40	2.00	<0.05	1.4	88	329	27	7.07
	67.40	69.40	2.00	<0.05	1.8	72	120	32	5.71
	69.40	71.40	2.00	<0.05	2.4	75	168	39	6.84
	71.40	73.40	2.00	<0.05	1.6	118	71	33	6.48
	73.40	75.40	2.00	<0.05	1.0	94	84	27	6.65
	75.40	77.40	2.00	<0.05	<1.0	213	331	30	6.35
	77.40	79.40	2.00	<0.05	1.5	334	165	32	7.88
	79.40	81.40	2.00	<0.05	<1.0	86	167	24	4.46
	81.40	83.40	2.00	<0.05	1.7	98	181	29	5.67
	83.40	85.40	2.00	<0.05	1.6	117	147	33	6.10
	85.40	87.40	2.00	<0.05	1.1	102	146	28	5.74
	87.40	89.40	2.00	<0.05	1.3	74	90	28	4.74
	89.40	91.40	2.00	<0.05	1.8	134	130	55	6.21
	91.40	93.40	2.00	<0.05	1.3	98	110	26	5.79
	93.40	95.40	2.00	<0.05	1.2	165	146	27	5.02
	95.40	97.40	2.00	<0.05	1.3	162	155	25	4.42
	97.40	99.40	2.00	<0.05	1.2	128	66	30	4.94
	99.40	101.40	2.00	<0.05	1.0	137	106	27	4.63
	101.40	103.40	2.00	<0.05	1.1	114	129	28	5.29
	103.40	105.40	2.00	<0.05	1.0	85	78	27	4.85
	105.40	107.40	2.00	<0.05	<1.0	66	52	26	5.13
	107.40	109.40	2.00	<0.05	<1.0	76	58	24	4.75
	109.40	111.40	2.00	<0.05	<1.0	71	283	36	5.30
	111.40	113.40	2.00	<0.05	<1.0	74	163	30	4.69
	113.40	115.40	2.00	<0.05	1.4	68	186	67	4.50
	115.40	117.40	2.00	<0.05	1.3	65	635	54	5.04
	117.40	119.40	2.00	<0.05	1.3	85	113	40	6.30
	119.40	121.40	2.00	<0.05	1.5	128	347	39	6.49
	121.40	123.40	2.00	<0.05	1.4	259	84	58	12.24
	123.40	125.40	2.00	<0.05	2.4	544	68	69	15.83
	125.40	127.40	2.00	<0.05	2.6	612	97	77	17.18

Appendix 29 Results of Ore Assay(7)

Drill Hole No.	Depth (m) from	Depth (m) to	Width (m)	Au (g/t)	Ag (g/t)	Cu ppm	Zn ppm	Pb ppm	S (%)
MJSU-15	127.40	129.40	2.00	<0.05	1.8	264	92	44	10.44
	129.40	131.40	2.00	<0.05	2.0	181	320	35	7.46
	131.40	133.40	2.00	<0.05	1.8	192	132	40	7.81
	133.40	135.40	2.00	0.08	2.8	141	205	53	9.21
	135.40	137.40	2.00	<0.05	1.8	210	143	57	9.00
	137.40	139.40	2.00	<0.05	2.2	291	292	82	10.22
	139.40	142.00	2.60	<0.05	1.3	146	319	50	8.21
	145.40	147.40	2.00	<0.05	1.4	217	212	55	5.78
	147.40	149.40	2.00	<0.05	1.4	128	1170	52	8.82
	149.40	151.40	2.00	<0.05	1.6	108	327	45	6.42
	151.40	153.40	2.00	<0.05	1.3	111	378	61	6.18
	153.40	155.40	2.00	<0.05	2.0	126	1300	105	9.17
	155.40	157.40	2.00	<0.05	1.5	98	409	30	5.97
	157.40	159.40	2.00	<0.05	1.0	144	407	53	6.79
	159.40	161.40	2.00	<0.05	1.3	80	253	35	6.22
	161.40	163.40	2.00	<0.05	2.3	75	511	40	5.21
	163.40	165.40	2.00	<0.05	1.4	106	484	57	7.83
	165.40	167.40	2.00	<0.05	2.1	144	319	70	8.45
	167.40	169.40	2.00	<0.05	1.5	177	199	43	5.17
	169.40	171.40	2.00	<0.05	1.1	139	199	32	5.18
	171.40	173.40	2.00	<0.05	1.7	261	203	42	7.94
	173.40	175.40	2.00	0.05	2.3	343	392	57	11.56
	175.40	177.40	2.00	0.08	2.3	312	353	45	12.06
	177.40	179.40	2.00	<0.05	1.9	302	238	31	7.11
	179.40	181.40	2.00	<0.05	1.5	210	317	33	5.20
	181.40	183.40	2.00	<0.05	1.2	83	239	40	6.92
	183.40	185.40	2.00	<0.05	1.3	71	419	41	8.04
	185.40	187.40	2.00	<0.05	2.0	98	418	51	9.47
	187.40	189.40	2.00	<0.05	1.1	107	237	32	6.41
	189.40	191.40	2.00	<0.05	2.5	84	592	37	3.74
	191.40	193.40	2.00	<0.05	1.2	61	69	21	3.18
	193.40	195.40	2.00	<0.05	1.2	63	58	19	3.34
	195.40	197.40	2.00	<0.05	1.3	82	140	25	4.08
	197.40	199.40	2.00	0.05	1.7	160	259	50	9.02
	199.40	201.40	2.00	<0.05	1.4	128	201	23	6.96
	201.40	203.40	2.00	<0.05	2.5	174	311	34	8.60
	203.40	205.40	2.00	<0.05	1.2	106	191	34	6.26
	205.40	207.40	2.00	0.06	1.3	124	393	34	5.98
	207.40	209.40	2.00	<0.05	1.6	94	254	35	5.24
	209.40	211.40	2.00	<0.05	1.5	81	251	48	5.21
	211.40	213.40	2.00	<0.05	1.4	68	102	17	2.61
	213.40	215.40	2.00	<0.05	1.4	79	159	39	5.71
	215.40	217.40	2.00	<0.05	2.0	111	253	48	7.18
	217.40	219.40	2.00	<0.05	1.2	68	417	31	3.64
	219.40	221.40	2.00	<0.05	1.4	78	172	33	4.81
	221.40	223.40	2.00	<0.05	1.0	61	48	22	2.65
	223.40	225.40	2.00	<0.05	1.7	70	437	28	5.93
	225.40	227.40	2.00	<0.05	1.5	79	466	29	5.48
	227.40	229.40	2.00	<0.05	2.8	110	273	35	5.54
	229.40	231.40	2.00	<0.05	3.1	176	216	39	6.11
	231.40	233.40	2.00	<0.05	1.2	100	209	20	2.31
	233.40	235.40	2.00	<0.05	1.9	330	92	43	7.53
	235.40	237.40	2.00	<0.05	1.6	230	125	37	4.97
	237.40	239.40	2.00	<0.05	2.1	113	115	22	4.18
	239.40	241.40	2.00	<0.05	<1.0	98	271	18	3.67
	241.40	243.40	2.00	<0.05	1.8	95	187	17	3.53
	243.40	245.40	2.00	<0.05	<1.0	47	49	8	2.70
	245.40	247.40	2.00	<0.05	<1.0	44	34	11	3.73
	247.40	249.40	2.00	<0.05	1.6	61	24	12	3.84
	249.40	251.40	2.00	<0.05	1.3	91	20	10	4.69
	251.40	253.40	2.00	<0.05	1.9	128	24	13	4.37
	253.40	255.40	2.00	<0.05	2.4	55	16	7	3.04
	255.40	256.60	1.20	<0.05	1.1	100	33	11	2.80

Appendix 29 Results of Ore Assay(8)

Drill Hole No.	Depth (m)		Width (m)	Au (g/t)	Ag (g/t)	Cu ppm	Zn ppm	Pb ppm	S (%)
	from	to							
MJSU-15	303.65	305.65	2.00	<0.05	1.9	95	29	13	6.98
	305.65	307.65	2.00	<0.05	1.0	84	107	5	2.36
	307.65	309.65	2.00	<0.05	1.9	137	1220	17	7.28
	309.65	311.65	2.00	<0.05	1.1	182	572	10	3.07
	311.65	313.80	2.15	<0.05	<1.0	87	485	8	3.03
	332.10	334.10	2.00	<0.05	<1.0	82	133	15	3.23
	334.10	336.10	2.00	<0.05	<1.0	76	194	16	4.65
	336.10	338.10	2.00	<0.05	<1.0	106	105	16	2.58
	348.60	350.40	1.80	<0.05	<1.0	191	31	15	4.74
	350.40	351.40	1.00	<0.05	<1.0	128	115	20	2.56
MJSU-16	133.90	135.90	2.00	<0.05	<1.0	<0.01	<0.01	<0.01	0.91
	135.90	137.90	2.00	<0.05	<1.0	<0.01	0.01	<0.01	1.13
	193.80	194.30	0.50	<0.05	3.2	0.02	<0.01	<0.01	9.76
	198.20	199.20	1.00	<0.05	1.1	<0.01	<0.01	<0.01	8.87

Appendix 30 Results of Microscopic Observation of Thin Section

Sample No.	Drill Hole No.	Depth (m)	Rock type	Texture	Phenocrysts or fragments								groundmass or matrix								metamorphic or alteration						
					MP	clp	hb	qz	pl	Kf	op	others	MP	clp	hb	qz	pl	gl	Kf	op	others	epi	chl	amp	ser	tit	cb	others
T-1	MJSU-14	84.1	dacitic fine tuff, weakly meta	porphyritic, weakly foliated					○	△	△					△		△	△				○				△	
			glassy shards and pumice fragments are devitrified and weakly to moderately chloritized.																									
T-2	MJSU-14	88.0	meta-dacitic to meta-andesitic	highly foliated and sheared												△	◎					△	◎				(*)	
			Highly sheared and foliated rock of felsic to intermediate composition.																									
T-3	MJSU-14	136.8	meta-andesitic to dacitic fine tuff	foliated & sub-porphyritic					(*)		(*)					(*)	◎			(*)		(*)	○		(*)		◎	
			Feldspars phenocrysts are mostly altered to carbonate and chlorite. Late fractures are filled by carbonate.																									
T-4	MJSU-14	167.2	fine tuff of meta-dacitic compo.	highly foliated and sheared				(*)	(*)		(*)					△	△					(*)	◎		△		○	
			highly sheared and schistosed rock of phyllitic composition.																									
T-5	MJSU-14	188.5	highly sheared metavolcanic r.	strongly foliated & cataclased				○			△					○							◎		△		◎	
			The rock has suffered both ductile and brittle deformation.																									
T-6	MJSU-10	60.0	meta-rhyodacitic fine tuff	porphyritic & foliated				△			△					◎						(*)	○		◎			
			Phyllosilicates comprised of sericte and chlorite are the main alteration products.																									
T-7	MJSU-10	77.0	meta-siltstone, very fine-grained	deformed & foliated				△			(*)					◎									◎			
			Metasiltstone or metavolcanic fine (ash) tuff of felsic composition.																									
T-8	MJSU-10	93.0	meta-rhyodacitic fine tuff	porphyritic & highly foliated				○	(*)		(*)					◎	(*)		(*)				○		◎		△	
			Deformation is marked by flattening, stretching, and fragmentation of quartz grains.																									
T-9	MJSU-10	99.5	reworked crystal-rich tuff	highly sheared & mylonitized				○	△							○	○					(*)	○		◎		△	
			Poorly sorted and crystal rich.																									
T-10	MJSU-10	133.5	meta-rhyolite	porphyritic & foliated				○	△		(*)					○	○			(*)		(*)	○		○		(*)	
			Matrix recrystallized, granular and foliated.																									
T-11	MJSU-10	210.0	meta-rhyodacitic fine tuff	highly sheared & mylonitized				△	○							○	○					(*)	○		○			
			very strongly deformed and sheared rock.																									
T-12	MJSU-10	265.0	meta-rhyodacitic fine crystal tuff	highly sheared & foliated				○	△							○	○			(*)		(*)	○		○			
			Crystal-rich rhyodacitic fine tuff																									
T-13	MJSU-11	57.6	meta-rhyodacitic tuff or lava	porphyritic, weakly foliated				○	△		△					○	○						○		△		△	
			Rock is affected by chlorite-sericite-carbonate and silica alteration.																									
T-14	MJSU-11	75.3	meta-rhyodacitic tuff or lava	porphyritic, sheared & foliated				○	△		△					○	△					△	○		△		(*)	
			Strikingly similar to sample no. T-13 in texture and mineral composition.																									
T-15	MJSU-9	58.8	meta-rhyodacitic fine lithic tuff	fine-grained sub-porphyritic				○								○				(*)					◎			
			Effect of recrystallization is locally noticed on phenocrysts crystal margins.																									
T-16	MJSU-9	90.0	meta-rhyodacitic fine (ash) tuff	moderatly foliated and sheared				△			(*)					○									◎			
			Locally augen-shaped quartz-eye noticed.																									
T-17	MJSU-9	122.0	reworked meta-rhyodacitic tuff	groundmass fine to medi.-grained			△									○						△	(*)		◎		(*)	
			Epidote-chlorite has completely replaced former amphibole phenocrysts.																									
T-18	MJSU-9	138.1	phyllite or meta-siltstone	fine-grained & highly foliated							△										◎	(*)			◎			
			Locally zoisite occurs as gangue mineral to opaques.																									
T-19	MJSU-9	193.5	meta-rhyodacite tuff or lava	highly sheared & protomylonitic				○			△					◎	△								◎			
			Strong shearing has produced protomylonitic occelleur fabric.																									

Appendix 30 Results of Microscopic Observation of Thin Section

Sample No.	Drill Hole No.	Depth (m)	Rock type	Texture	Phenocrysts or fragments								groundmass or matrix								metamorphic or alteration						
					MP	clp	hb	qz	pl	Kf	op	others	MP	clp	hb	qz	pl	gl	Kf	op	others	epi	chl	amp	ser	tit	cb	others
T-20	MJSU-9	206.4	meta-rhyodacitic fine tuff	porphyritic & weakly foliated				○			(*)					◎						(*)			◎		△	
			Feldspars are completely replaced by sericite.																									
T-21	MJSU-9	219.0	meta-fine (ash) tuff	weakly foliated				○			△					○						(*)			◎		(*)	
			Meta fine (ash) tuff of felsic composition.																									
T-22	MJSU-9	228.0	white-mica schist	extremely fine and foliated							○														◎			
			The rock is affected by pervasive white mica alteration.																									
T-23	MJSU-9	370.9	pervasively chloritized rock	very fine-grained and foliated												○				△			◎		△			
			Primary texture and mineral composition is obliterated by strong chlorite and patchy sericite alteration.																									
T-24	MJSU-12	69.3	microdiorite	fine intersertal and sheared													◎			○			◎				△	
			The rock shows intersertal fabric, where plagioclase grains are randomly oriented and their inter grain spaces are filled by secondary alteration minerals.																									
T-25	MJSU-12	135.7	meta-rhyodacite tuff or lava	porphyritic and deformed				○	△							◎				△			◎		○			
			The felsic rock matrix accompanies phenocrysts and broken fragments of quartz and plagioclase.																									
T-26	MJSU-13	41.9	meta-rhyodacitic lapilli tuff	porphyritic weakly deformed				○								○						△	◎		○		(*)	
T-27	MJSU-13	61.8	meta-rhyolite crystal tuff or lava	porphyritic weakly foliated				◎	△							○	○			(*)			○		△		(*)	
			Meta-rhyolitic-rhyodacitic crystal rich tuff, moderately deformed, sheared and granulated.																									
T-28	MJSU-13	67.1	mylonitized felsic rock	highly deformed and sheared				◎	○																◎			
			Coarse-grained fabric of quartz and plagioclase phenoclasts suggests that probably the former rock was plutonic and of granitic composition. That was strongly sheared and mylonitized.																									
T-29	MJSU-13	82.9	meta-rhyodacitic tuff	porphyritic, weakly deformed & sheared				○			(*)					○				(*)					◎		(*)	
T-30	MJSU-13	170.0	meta-rhyolite crystal tuff or lava	porphyritic weakly foliated				◎	○		△					○	△								○			
			Strikingly similar to sample no. T-27 in texture and mineral composition except locally graphic intergrowth of quartz over plagioclase is noticed.																									
T-31	MJSU-15	300.2	meta-rhyodacitic lithic tuff	porphyritic weakly foliated				○			(*)					○						△	△		◎			
			The foliations are marked by suborientation of sericite patches.																									
T-32	MJSU-15	304.6	meta-rhyodacitic lithic tuff	porphyritic weakly foliated				○			○					○						△	○	△				
			Amphibole occurs in extremely fine-grained acicular form and in places forms disseminated rosettes.																									

Abbrev. MP=pseudomorphs of mafic minerals, cpx=clinopyroxene, pl=plagioclase, op=opaque minerals, qz=quartz, hb=hornblend, Kf=K-feldspar, epi=epidote, gl=glass or microcrystalline aggreagte, amp=green amphibole, cb=carbonate, ser=sericite, tit=titanite, apa=apatite, cly=clay minerals.

◇ shows totally decomposed

◎ abundant　　△ small

○ common　　(*) rare

Appendix 31 Results of Microscopic Observation of Polished Section

Sample No.	Drill Hole No.	Depth (m)	Mineralization type	py	cp	co	cc	te	sp	ga	pr	ma	ru
P-1	MJSU-14	203.1	sub-massive and foliated	◎	△		△		△	△	△	△	
P-2	MJSU-14	204.2	sub-massive	◎	○				△				
P-3	MJSU-14	219.9	sub-massive pyritic	◎	△				△				
P-4	MJSU-14	220.3	laminated massive sulfide	○	○	△		△	◎				
P-5	MJSU-14	220.8	laminated massive sulfide	○	○	△			◎				
P-6	MJSU-14	221.5	laminated massive sulfide	◎	○	△			◎				
P-7	MJSU-10	139.8	sub-massive and foliated	◎	△				△				
P-8	MJSU-10	159.5	weakly foliated massive sulfide	◎	△				△				△
P-9	MJSU-11	135.7	sub-massive	◎	△				△				
P-10	MJSU-11	153.4	sub-massive and strongly foliated	◎					△				
P-11	MJSU-9	66.6	disseminated & aggregations	◎	△				△				
P-12	MJSU-9	138.1	deformed & densely aggregated	◎	△				△				
P-13	MJSU-9	197.6	sub-massive	◎	△				△				△
P-14	MJSU-9	342.0	massive to submassive	◎	△				△				△
P-15	MJSU-9	344.0	submassive & foliated	◎	△				△				△
P-16	MJSU-9	348.0	massive	◎	△				△	△			
P-17	MJSU-9	357.1	massive, recrystallized & foliated	◎	△				△				
P-18	MJSU-12	164.7	fracture fillings	◎	△				△				△
P-19	MJSU-13	91.8	submassive and foliated	◎	△								△
P-20	MJSU-13	188.5	submassive & foliated	○	△								△

abbrev. cc:Chalcocite, co:Covellite, cp:chalcopyrite, ga:Galena, ma:Magnetite, pr:Pyrrhotite, py:Pyrite, ru:Rutile, sp:Sphalerite, te:Tetrahedrite-Tennentite

◎abundant, ○common, △small

Appendix 32 Results of X-ray Diffraction Analysis

Sample No.	Drill Hole	Depth (m)	qt	pl	kf	ch	se	mi	cl	py
X-01	MJSU-2	30.40	◎	△		○	△			
X-02	MJSU-2	51.20	◎	△		○	△	?	△	
X-03	MJSU-2	83.70	◎	△		△	△			
X-04	MJSU-2	167.60	◎	△		△	△			
X-05	MJSU-2	181.50	◎	△		△	△			
X-06	MJSU-2	200.00	◎	△		△	○			
X-07	MJSU-2	220.50	◎	△		△	△			
X-08	MJSU-2	236.40	◎	△		△	△		△	
X-09	MJSU-2	249.40	◎	△		△	△			
X-10	MJSU-14	19.80	◎	△		○	?	△		
X-11	MJSU-14	45.10	◎	△		○	?	△		
X-12	MJSU-14	64.50	◎	△		△	△	△	△	
X-13	MJSU-14	85.30	○	○		○	△		?	
X-14	MJSU-14	104.70	◎	△		○	?	△	△	
X-15	MJSU-14	125.10	○	△		○	△	△	△	
X-16	MJSU-14	136.80	○	△		○	△	△～?	△	
X-17	MJSU-14	151.00				◎	△		△	
X-18	MJSU-14	170.10	◎	△		△	△	△	△	△
X-19	MJSU-14	193.10	○	△		○	△		?	?
X-20	MJSU-14	200.10	○～△	△		△			△	
X-21	MJSU-14	203.60	◎			△	△			?
X-22	MJSU-14	207.00	◎	△		△	△			
X-23	MJSU-14	210.20	◎	△		△	△			
X-24	MJSU-14	212.00	◎			△	△		△	△
X-25	MJSU-14	214.50	◎	△		△	△			△
X-26	MJSU-14	219.50	◎	△		△	△			
X-27	MJSU-14	221.10	◎			○	△			
X-28	MJSU-14	222.10	◎			◎	△			
X-29	MJSU-14	230.20	◎	△		△	△			
X-30	MJSU-14	240.10	◎	△		△	○			
X-31	MJSU-14	260.10	◎	△		△	△	?		
X-32	MJSU-14	274.00	◎	○		△	○			
X-33	MJSU-10	36.00	◎			△	△			
X-34	MJSU-10	55.00	◎			△	△			
X-35	MJSU-10	74.00	◎			△	△			△
X-36	MJSU-10	140.00	◎			△	△	?		△
X-37	MJSU-10	159.00	○	?	△	△	△			△
X-38	MJSU-10	172.20	◎			△	△			
X-39	MJSU-11	47.80	◎	△		△	△			
X-40	MJSU-11	135.70	◎			△	△			△
X-41	MJSU-11	233.00	◎	△		△	△			
X-42	MJSU-9	50.90	◎				△			△
X-43	MJSU-9	70.10	◎							△
X-44	MJSU-9	85.00	◎				△			△
X-45	MJSU-9	130.80	◎			△	△			△
X-46	MJSU-9	174.60	◎			△	△			△
X-47	MJSU-9	228.00	◎				△			△
X-48	MJSU-9	295.00	◎			△	△			△
X-49	MJSU-9	350.50				◎				△
X-50	MJSU-9	358.20	○			△	△			△
X-51	MJSU-9	366.60	◎			△	△			△
X-52	MJSU-12	107.60	△			◎	○		△	△
X-53	MJSU-12	142.00	○	△		◎	△		△	△
X-54	MJSU-12	164.70	○	○		○			△	△
X-55	MJSU-12	191.70	○	○		○			△	△
X-56	MJSU-13	82.20	◎	△		△	△	△	△	△
X-57	MJSU-13	92.50	◎	△		◎	△		△	△
X-58	MJSU-13	117.80	◎	△		△	△		△	
X-59	MJSU-13	185.20	○			◎			△	△
X-60	MJSU-13	200.50	◎			△	△	△	△	△

Abbrev. ab:Albite, al:Alunite, ch:Chlorite, cl:Calcite, cp:Chalcopyrite, ep:Epidote,kf:Potash feldspar, mi:Minesotaite, py:Pyrite, qt:Quartz, se:Sericite

◎:Abundant, ○:Common, △:Small amount, ?:Probable