Mariana Islands
TT192
Polished Sections
Descriptions

#8C

DATE: 1/31/90

FILM TYPE: 64 Kodachrome

	SAMPLE NO.	POLARIZED	DARK FIELD	TRANS. OR REF.	OBJECTIVE	MAGNIFICATION	EXPOSURE TIME	PHOTO DESCRIPTION
1	33-2-3	N	Y	T	2.5		1/15 sec	Cemented Sandstone
2	"	Y	Y	R	20		1 min	Colloform isotropic 2 colores of MICROSC
3	"	N	"	"	"		1/30 sec	" " " "
4	"	Y	Y	R	20		1.5 min	Mn Oxide Colores
5	"	N	Y	R	20		1/15 sec	" " "
6	"	Y	Y	R	20		1 min	mozaic of Mn Oxides
7	"	"	"	R	50		<1 min	" " "
8	"	N	"	R	20		1/15 sec	Replaced grains in breccia f
9	"	Y	"	R	20		45 sec	Disrupted Mn, by Fe
10	"	Y		R	20		1 min	
11	"	N		R	20		1/15 sec	
12	"	Y		R	20		2 min	—
13	"	N		R	20		1/30 sec	
14	"	Y	"	R	20		1.5 min	Several Mn Colors
15	52-4	Y	Y	T	2.5		4 sec +	Agglutinating foram.
16	"	"	"	"	"		"	
17	52-4	X	Y	R	5		8 s +	Agglutinating foram
18	"	Y	Y	R	20		4 min	"Microcole" around plag.
19							2 min	
20	D28-6	Y	Y	R	20		2 min	fibrous isotropic w/ aligned crysto
21	D28-6	Y	Y	R	20		1.5 min	Colloform w/ fading microcrystals
22	~~D73-1D~~ D28-6	"	"	"	"		2 "	"
23	D73-1D	X	Y	R	10			Colloform
24	3-3	Y	Y	R	10			Aligned Ceystal fibres crosscutting fractu
25	D33-2-3	Y	Y	R	20		30 sec	Replaced grain in brec
26	"	N	"	"	"		1/4 sec	" "
27	D33-2-3	N	Y	R	20		2 min	Intergrowth of hematite
28	"	Y	Y	R	20		2 min	
29	"	Y	Y	R	20		4 min	
30	D33-2-3	Y	Y	R	20		8 min	
31					6.3			
32								
33								
34	D8-73							
35								
36								

DATE: 7-29-89

FILM TYPE: Type 40A ASA 40

	SAMPLE NO.	POLARIZED	DARK FIELD	TRANS. OR REF.	OBJECTIVE	MAGNIFICATION	EXPOSURE TIME	PHOTO DESCRIPTION
1	D28-2	No	Yes	T-9 Volts	2.5	2.5x10x.32	1/15 - 1/8	Hydrogentic over Hydrothermal
2	D28-2	"	"	"	"	"	1/30 - 1/15 underexpose	
3		"	"	"	"	"	1/8 overexpose	
4	D28-2	"	"	T -9 volts	2.5	"	1/30 s	V.R.F w/ polagitization on side
5		"	"	"	"	"	1/60 s underexpose	
6	D28-2	yes	yes	T - 10 volts	6.3	6.3x10x.32	1 s	Barite?
7		"	"	"	"	"	1/2 s underexposed	
8	Camera Malfunc went off after xenon lamp turned on.							
9	D28-2	yes-partial	yes	R	5.	5x10x.32	30s / 1 min	Barite (?) in reflected light
10	"	"	"	"	"	"	1 min	overexpose
11	D28-2	yes Partial	yes	T - 9 volts	6.3		1/15 sec	quartz detrital grai
12	"	yes Partial	yes	T - 9 volts	6.3		1/30 sec	underposed
13	"	"	"	"	"		1/15 / 1/8	overexposed
14	D28-2	yes	yes	T - 9V	6.3		1/2 - 1 sec	Recrystallized duff (zeol
15	"	"	"	T - 9V	6.3		1/2 s	" underex
16	"	"	"	"	"		1 sec	" overex
17	D28-2	yes	"	T - 9V	6.3		1/15 - 1/8 s	quartz
18	"	"	"	"	"		1/15	" underex
19	D28-2							
20	D33-2-3	Partial	yes	Reflected	10		15 sec	Mn botryoid w/ Hematite
21	D33-2-3	"	yes	"	"		30 sec	" overex.
22	D33-2-3	partial	yes	T-9V	6.3		8 sec	same as above view
23	"	"	yes	T-9V	"		4 sec	" overex
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								

		DATE:	1-27-90					
		FILM TYPE:	TYPE NO A					
	SAMPLE NO.	POLARIZED	DARK FIELD	TRANS. OR REF.	OBJECTIVE	MAGNIFICATION	EXPOSURE TIME	PHOTO DESCRIPTION
1	D8-5	Yes	Yes	Reflected	10		4 min	Replaced Foram
2	D8-5	no	"	"	"		—	" "
3	D8-5	yes	"	"	20		—	" "
4	D8-5	"	"	"	50		1.5 min	discontinuity in colloform layer
5	D8-5	yes	"	"	20			" " "
6	D8-5	yes	"	Refl & Trans	10			large dense layer colloform & align xtl
7	D8-5	No	"	Refl. & Trans	5		1/2 sec	large dense layer
8	D73-10	no	"	Trans	2.5		1/15 sec	1 of 2 alteratic n near Mn lay
9	D73-10	no	"	Trans	2.5		1/15	2 of 2
10	D3-3	yes	yes	Refle	20			radial aligned xtl lites
11	D8-12	No	yes	Trans	25		6 sec	Fe-rich foram sand
12	D8-12	yes	yes	R	20		10 min	Microprobe tracks
13	D8-4			T	10 Ref		3/4 sec	—
14	D11-1			R	20		4 min	isotropic bots. in open spaces
15	D20-1			R & T	20 ref		2 min +	isotropic bot core
16	D20-1			R & T	10 Ref		4 min +	isotropic & microcrystalline
17	D20-1			R	50 Ref		1 min	perpendicular to fibrous porous
18	D20-1			R	20		2 min	aligned crystallites
19	D20-1			R	10		4 min	alternating fibrous porous & de
20	D28-2			T	25		1/2 sec	Barite
21	D28-2			R	20		2 min	Colloform Cement
22	D28-2			R	10		2 min	Detrital Mn Grains ?
23	D28-2			R	10		4 min	Scalloped Texture
24	D28-2			R	10		4 min	Broken off & mineraliz
25	D28-2	NO		R	5		1/2 sec	" " "
26	D28-4	No		R	20		1/8 sec	Hydrothermal w/ FM Crus
27	D28-4	Yes		R & T	20		5 min	" " " "
28	28-4	yes		R & T	5		3 mn	Fibrous porous w/ sedim
29	28-4	No		R & T	5		1/4 sec	disrupted fibrous layer in fold
30	28-4	yes		R	20		6 min	fiber w/ colloform layers
31	28-4	No		R	20		1/4 sec	isotropic bots.
32	~~28-4~~	yes		R	20		6 min	" "
33	33-2-3	yes		R	20		6 min	Fe Rinds w/ Mn infilled
34	33-2-3	no		T	5		1/4 sec	
35	"			T	0.3		1 sec	Agglutinating foram
36	"	yes		T	2.5		1 sec	contact between breccia and sand

DATE: 12-11-89
FILM TYPE: Type 40A

	SAMPLE NO.	POLARIZED	DARK FIELD	TRANS. OR REF.	OBJECTIVE	MAGNIFICATION	EXPOSURE TIME	PHOTO DESCRIPTION
1	D11-1	yes	yes	Trans.	25		30s - 1min	Nummulitized Foram w/ Mn layers
2	"	no	yes	Trans	25		½ s	same
3	D11-1	no	yes	Reflect	20		¼ - ½ s	same
4	"	no	yes	T & R	20		8 sec	Colloform over Dense layer w/
5	D20-1	no	yes	Refl.	50		>8 sec	" same "
6	D73-1A	no	yes	Trans	6.3		8 sec	Replaced Foram
7	"	"	"	"		(<9 volts	⅛	2 tone glass frags
8	"					9 volts)	⅕	" "
9	D73-1A	no	yes	Trans (11 volts)	6.3		1/15	altered vesicular glass
10	D73-1A	no	yes	Trans 6.9 volts	6.3		¼ - ⅛	Flow banded glass
11	"	"	"	Trans 9.5	6.3		1/30	" " "
12	D73-1A	yes	yes	Trans 2?9v	2.5		8s - 15s	Mineral Layering
13	D73-1A	no	yes	Refl	20		15 sec	Colloform in Dense Mn
14	D28-4	no	yes	Pol & Trans	10 ref		30s - 1min	recoded hydrothermal w/ Crust
15	D40-1	yes	yes	9V Trans	6.3		8 sec	zoned plagioclase
16	"	"	"	11V Trans	25		30 sec	" "
17	D8-27	no	yes	6V T	2.5		½	Mineralized vs non-mineral
18	"	"	"	9V T	"		1/30	" " "
19	"	yes	"	11V T	2.5		1s	" " "
20	"	yes	"	11V T	6.3		4s	Dissolved Foram ; None Dis
21	"	no	"	9V T	6.3		½	" " "
22	"	no	yes	9V T	25		½ - 1	Dissolved Foram
23	D28-4	yes	yes	7V T;R	10 Ref		4 - 8m	Transition from porous to dense
24	"	"	"	"	"		8	"
25	"	NO	"	"	"		¼s	"
26	D28-2	Yes	"	Refl	10 X	slightly increased	4m	transition layers
27	"	"	"	"	"	"	"	scallope texture
28	2-44-6936	no	no		50 X			mottled dolomite
29	"	yes	no		50 X			mottled dolomite
30	"	yes	no		40 X			
31	"	yes	no	"	50 X			bouncary of mottled stg
32	"	no	"		6X			dolomitized red algal
33	"	yes	"		25 X			boundary of mottled
34	"	yes	"		50 X			"
35	"	no	"		50 X	"		"
36								

Redo less time overexp.