

Well Name GMF 17A-6 Earth Science Laboratory
 Latitude 4605580.15 University of Utah Research Inst.
 Longitude 620117.92 1988
 TVD ft 9620

depth_ft	mineralogy		Bulk XRD		Apx. Wt%	
	Quartz	Plagioclase	K-Spar	Calcite	Clinopyroxn.	Actinolite *
7690-7700	14	51		Tr	3	2
7160-7170	42	30	22			
6820-6830	45	21	16		Tr	2
5710-5720	4	50	3	2	7	3
5260-5270	11	45	11		3	2
4620-4630	11	42	9		1?	3
4910-4920	19	38	10	Tr	1?	2
8230-8240	32	40	17	Tr		1

depth_ft	mineralogy		Bulk XRD		Apx. Wt%	
	Hematite	Hornblend	Epidote	Prehnite	Anhydrite	Ilmenite/ Magnetite
7690-7700	Tr	3	1		Tr	2
7160-7170			Tr			Tr
6820-6830	Tr		1		Tr	Tr
5710-5720	Tr		6			5
5260-5270	Tr		7			1
4620-4630			7	1		1
4910-4920			5	2		1
8230-8240	Tr		1			1

depth_ft	mineralogy		Bulk XRD		Apx. Wt%	
	Pyrite	Sphene/ Leucoxene	Wairakite	Smectite	Mixed Layer Chl.-Smec.	Illite & Phengite **
7690-7700	2	Tr		1		2
7160-7170		Tr				4
6820-6830	Tr	1		Tr		11
5710-5720	Tr	8		Tr		1
5260-5270	Tr	8				
4620-4630	1	9		2		
4910-4920	1	8				Tr
8230-8240	Tr	Tr		1	Tr	1

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depth_ft	mineralogy				Bulk XRD				Apx. Wt%			
	Biotite	Chlorite	Talc	Other #								
7690-7700	16	3	Tr									
7160-7170	Tr?	2										
6820-6830	Tr?	3										
5710-5720		11										
5260-5270		12										
4620-4630		13										
4910-4920		13										
8230-8240	3	1										

* Replaces original mafics

** Phengite = brown to green, iron-rich illite analogue

*** includes minor mixed-layer chlor/ smec

Amorphous, below detection limit; may include metastable glass

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depth_ft	mineralogy					
	Clay Fraction XRD				Apx. Wt%	
	Smectite	Illite & Pheng. Undivided	Chlorite	Mixed Layer Chl.-Smec.	Biotite	Talc
7690-7700	5		8		*83	2
7160-7170	Tr?	70	30			
6820-6830	2	93	5			
5710-5720	3	5	92			
5260-5270			100			
4620-4630	13		87			
4910-4920	1	2	97			
8230-8240	15		10	5	*70	

* includes minor phngite