## G. K. EIFLER, JR.-BARRILLA MOUNTAINS, TEXAS

Sam- ple No.	Anal- cime	Quartz	Alkali feldspar	Labra- dorite	Glass and opal	Augite	Soda pyribole	Microlites and/or alter. prod. of olivine and pyroxene undiffer- entiated	Biotite	Olivine	Mag- netite and/or ilmenite	Apa- tite	Fluorite	Zir- con
1	-	_	9	66	_	9			1	8	7	Tr		
2	-	-	Mo	Ch	-	Mo		-	Li	Li	Mo	Tr	-	-
3	Tr?	-	Li	Ch		Mo				Mo	Mo	Tr	_	-
4	Li	_	Mo	Ch		Mo	-	-		Mo	Mo	Tr		-
5	-	Mo	Ch*	-	Tr	_	Li				Li		Tr	-
6			Ch*	-	Li		Tr				Tr		Tr	-
7	-	Mo	Ch*	-	Tr		Mo	-		-	Li		Tr	-
8		Mo	Ch*		Tr		Li	-	-		Li	-	Tr	
9		Li	Ch*		Tr	-	Mo	-			Li	Tr	Tr	-
10	-	Li	Ch*		Tr	-	Mo			-	Li	Tr	Tr	-
11	-	11	74*		3	-	9	-	-	-	3	-	-	
12	_	Mo	Ch*		Tr		Mo			-	Mo	Tr	Tr	-
13	-		Mu*		Mu			-	Tr		Mo	-		
14	-	-	Mo	Ch	Li	Li	-			Mo	Mo	5		
15	-	Mo	Ch*	-	Li		Li	-	-	-	Mo	-		-
16	_	Li	Mu*	-	Ch		Li		-	-	Mo	-		
17	_	Mo	Mu*		Ch	_	Li	-	-		Mo	-		-
18 19		-	Mo	Ch	Li	Mo	-	Mo	-	Mo	Mu	Tr	-	
20	-	-	_	Ch	Mu	Mo	-	Mo	-	Mo	Mu	-	-	
20	_	-	-	Ch	Mu	Li	-	Li		-	Mu	-	-	
22	-	_	Mo	Ch	Li	Mo	-	Mu	-	Mo	Mu		-	-
23	-	-	Mo	Ch	Li	Mo	-	Mu		Mo	Mu		-	
23		_	Mu	Ch	Li	Mo	-	Mu	-	Mo	Mu	-		-
25		Mu	6 Ch*	70	Tr		75	20	-	-	4	-	-	-
26		Mo	Ch*	-	Li		Mo	-	-		Li	-	-	Tr
27		Mo	Ch*	-	Mo	-	Mo	-	-		Li	-	-	Tr
28		5	Ch*		Mo	_	Mo	-	-		Mo	-		Tr
29		Mo	Ch*	_	Mo Mo	-	Mo	-	-		Mo	-	-	Tr
30	_	Mo	Ch*		Mo	-	Mo	-	-	-	Mo	-		Tr
31		Mo	Ch*	_	Li	_	Mo	-	-	-	Mo	-	-	Tr
32		Mo	Ch*		Mo		Mo	-	-	-	Li	Tr		Tr
33		Tr	Ch*	_	Tr		Mo	-	Tr		Mo	_		Tr
34		Li	Ch*		Ir Li		Li	-	Tr		Li	Tr	-	-
35		Li	Ch*		Li	-	Mo	-	-	-	Li	Tr	-	-
36			Ch*		Li Mu	_	Mo	-	-	-	Li	Tr		-
37			Ch*	-	Mu		Mo Mo				Li Li	Tr	-	

TABLE 1.-PETROGRAPHY OF IGNEOUS ROCKS, BARRILLA MOUNTAINS

Hor

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Tr = trace; Li = little; Mo = moderate; Mu = much; Ch = chief. \* Includes anorthoclase phenocrysts.

Lenses in the upper Huelster formation:

1. Porphyritic olivine trachydolerite in tuffs of the Huelster formation, road cut in Wild Rose Pass.

2. Porphyritic olivine trachydolerite in tuffs of the Huelster formation, Wild Rose Pass.

3. Olivine trachydolerite in tuffs of the Huelster formation, western Barrilla Mountains.

4. Porphyritic olivine trachydolerite in tuffs of the Huelster formation, western Barrilla Mountains. Star Mountain rhyolite:

5. Riebeckite soda rhyolite porphyry from Star Mountain.

6. Riebeckite soda trachyte porphyry, lower contact from basal lava in road cut between Fort Davis and Toyahvale north of Seven Springs.

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