Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
73	2-d	Tacaza	Trachyte	○								
74	"	"	Trachybasalt	○		○		○				
75	"	"	"	○		○						
76	"	"	Olivine basalt	○								
77	"	"	Basalt									
78	"	"	Trachybasalt									
79	2-e	"	Trachyte	○		○			○			
80	"	"	"									
81	"	"	Trachyte									
82	"	"	Trachyandesite									
83	"	"	Trachyte	○		○						
84	2-f	"	Basalt									
85	"	"	Tuff breccia									
86	2-g	Sencca	Lapilli tuff									
87	"	Tacaza	Porphyritic trachyte	○		○			○			
88	"	Sencca	Trachyte (tuff breccia)									
89	"	"	Trachytic tuff breccia									
90	"	Tacaza	Porphyritic trachyte									
91	"	"	"	○								
92	"	"	"					○				
93	"	"	Basalt									
94	"	"	Trachytic tuff breccia									
95	"	"	Andesite	○								
96	"	Descanso	Rhyolitic pumice-tuff									

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
97	3-a	Intrusives	Altered microgranite	○								
98	"	Tacaza	Altered dacite									
99	3-b	Senecca	Dacitic tuff breccia									
100	"	Barroso	Basaltic andeiste									
101	3-c	Tacaza	Trachyandesite	○		○						
102	"	Senecca	Rhyolitic pitchstone	○								
103	"	"	Dacitic lapilli tuff									
104	"	Barroso	Andesite	○								
105	3-d	"	Basaltic andesite									
106	3-e	Tacaza	Andesite									
107	"	"	Basalt	○								
108	"	"	Trachybasalt									
109	"	"	Porphyritic trachyte									
110	"	"	Trachybasalt									
111	3-f	"	Porphyritic trachyte									
112	4-a	Senecca	Tuff breccia									
113	"	Tacaza	Altered basalt	○								
114	4-b	Senecca	Rhyolitic tuff	○								
115	"	"	"	○								
116	"	Tacaza	Altered basalt									
117	4-c	Ferrobamba	Recrystallized limestone									
118	"	"	Sandstone									
119	"	Tacaza	Trachybasalt	○								
120	"	Senecca ?	Trachyte	○								

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
121	4-c	Tacaza	Basaltic andesite									
122	"	Barroso	"									
123	"	Tacaza	Trachybasalt									
124	4-d	"	Pumice-tuff									
125	"	"	Trachy andesite	O		O		O				
126	"	Tacaza ?	Rhyolite (welded tuff ?)	O								
127	"	Tacaza	Porphyritic basalt									
128	"	"	Altered olivine basalt	O								
129	"	"	Porphyritic basalt									
130	4-e	Descanso	Tuff breccia									
131	"	Tacaza	Basaltic andesite									
132	"	Descanso	Pumice-tuff									
133	"	"	"									
134	4-f	Tacaza	Basaltic andesite									
135	"	"	Basalt									
136	"	Coporaque	Sandstone	O								
137	4-g	Sencca	Rhyolite (tuff ?)									
138	5-a	Barroso	Basaltic andesite									
139	"	Sencca	Porphyritic trachyte									
140	"	"	Dacite									
141	"	"	Andesitic tuff breccia									
142	"	"	Rhyolite	O		O						
143	5-b	"	Tuff									
144	"	"	"									

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
145	5-b	Senecca	Welded tuff									
146	"	"	Porphyritic trachyte									
147	"	"	"									
148	"	"	Trachyandesite			O						
149	"	Barroso	Basaltic andesite									
150	5-c	Senecca	Porphyritic trachyte									
151	"	"	Trachyandesite									
152	"	"	"									
153	"	"	Lapilli tuff									
154	"	Tacaza	Andesitic tuff breccia									
155	"	Barroso	Basalt	O								
156	"	Senecca	Porphyritic trachyte									
157	5-d	Tacaza	Agglomerate									
158	"	Barroso ?	Tuff breccia									
159	"	Barroso	Andesite	O								
160	"	Senecca	Altered trachyandesite	O								
161	"	Tacaza	Porphyritic andesite									
162	"	Senecca	Altered olivine basalt									
163	5-e	Tacaza	Altered basalt	O								
164	"	Senecca	Rhyolitic tuff									
165	"	"	Olivine basalt	O								
166	"	"	Liparite									

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
167	5-e	Tacaza	Trachybasalt									
168	"	Seneca	Rhyolitic tuff	○								
169	5-f	Tacaza	Altered andesite									
170	"	Seneca	Dacitic tuff breccia	○								
171	"	Intrusives	Granite									
172	"	"	Granodiorite	○								
173	"	Coporaque	Sandstone									
174	"	"	"	○								
175	"	"	"									
176	"	"	Mineralized sandstone				○					Copper-ore
177	5-g	Descanso	Volcanic ash									
178	"	"	Sandy tuff									
179	"	Tacaza	Prophylitized volcanics									
180	"	"	Trachybasalt									
181	"	"	Propyritized volcanics									
182	"	Intrusives	Granodiorite	○								
183	"	"	Calcite-quartz vein in granodiorite									
184	"	Descanso	Dacitic tuff									
185	6-a	Barroso	Basaltic andesite									
186	"	Seneca	Tuff									
187	"	Tacaza	Tuff breccia									
188	"	Seneca	Lapilli tuff									
189	"	"	Porphyritic trachyte									
190	"	"	"									

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
191	6-a	Barroso	Andesite									
192	6-b	Tacaza	"									
193	"	Barroso	Basaltic andesite									
194	"	Tacaza	Andesite agglomerate									
195	"	"	Trachyandesite									
196	"	"	"									
197	"	"	Basaltic andesite									
198	"	"	"									
199	"	Barroso	"									
200	"	"	Andesite	○								
201	"	Senecca	Basaltic andesite									
202	"	Tacaza	Porphyritic andesite									
203	"	"	Trachy andesite	○		○						
204	"	Senecca	Tuff breccia									
205	"	"	Tuff									
206	6-c	"	Dacite									
207	"	Tacaza	Trachybasalt									
208	"	"	Andesite									
209	"	"	Basaltic tuff									
210	"	"	Tuffaceous siltstone									
211	"	Senecca	Rhyolite									
212	"	Tacaza	Andesite									
213	"	"	"									
214	6-d	Senecca	Trachyandesite									

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
215	6-d	Barroso	Andesite	○								
216	"	"	"									
217	"	Tacaza	Altered andesite	○								
218	"	Senecca	Altered rhyolite	○								
219	"	Tacaza	Porphyritic basalt									
220	"	"	Trachybasalt									
221	"	"	Tuff breccia	○								
222	"	Senecca	Rhyolitic welded tuff	○								
223	6-e	Tacaza	Trachybasalt									
224	"	Senecca	Porphyritic liparite									
225	"	"	Jasper vein in propyritized volcanics									
226	"	"	Basalt dyke									
227	"	"	Rhyolite (welded tuff ?)									
228	6-f	Tacaza	Altered basalt									
229	"	Senecca	Lapilli tuff									
230	"	Tacaza	Porphyritic basalt									
231	"	"	Altered basalt				○					
232	7-a	Barroso	Basaltic andesite									
233	"	Tacaza	Basalt									
234	"	Barroso	"									
235	"	"	"									
236	"	Tacaza	Trachyandesite									
237	"	"	Liparite dyke									
238	"	Barroso	Basaltic andesite									

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
239	7-b	Senecca	Trachyandesite	O								
240	"	"	Dacite	O								
241	7-b	Tacaza	Basalt									
242	"	"	"									
243	"	"	Trachyandesite	O		O						
244	"	Senecca	Porphyritic trachyte									
245	"	Tacaza	Basalt									
246	"	Senecca	Porphyritic trachyte	O		O		O				
247	"	"	Dacitic tuff									
248	"	"	"	O								
249	"	"	Tuff	O								
250	7-c	Tacaza	Andesitic tuff									
251	"	"	Tuffaceous sandstone									
252	"	"	Siltstone									
253	"	Senecca	Dacite	O		O			O			
254	"	"	Pumice-tuff									
255	"	"	Andesite ?									
256	"	"	Dacitic tuff									
257	"	"	Dacite	O								
258	"	Barroso	Andesite									
259	"	"	Altered andesite									
260	"	Senecca	Porphyritic trachyte									
261	"	Tacaza	White tuff									
262	7-d	"	Lapilli tuff									

Sampel No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
263	7-d	Tacaza	Basalt									
264	"	Senecca	Pumice-tuff									
265	"	"	Trachyandesite									
266	"	Tacaza	Basalt									
267	"	"	Altered basalt									
268	"	Senecca	Tuff breccia	○								
269	"	Tacaza	Trachybasalt									
270	"	"	"									
271	"	"	Trachyandesite									
272	7-e	Barroso	Olivine basalt	○								
273	"	"	Olivine basalt	○								
274	"	"	Pumice-tuff	○								
275	"	"	Andesite	○								
276	7-f	Tacaza	Basalt	○								
277	7-g	Senecca ?	Rhyolite with Ag-quartz vein				○					
278	"	Senecca	Tuff	○								
279	"	"	Rhyolitic tuff									
280	"	Descanso	Massive tuff	○		○			○			
281	"	Tacaza	Basalt	○								
282	"	"	"									
283	"	"	Scoriatic basalt	○								
284	"	"	Olivine basalt	○								
285	"	"	Altered basalt	○								
286	"	Brroso	Andesite	○								

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
287	1-g	Tacaza	Trachy andesite	○		○		○				
288	1-h	"	Altered scoria									
289	"	"	Trachyte			○						
290	"	"	Lapilli tuff									
291	"	"	Trachyte									
292	"	"	Lapilli tuff									
293	"	"	Trachy andesite			○						
294	"	"	Porphyritic trachyte									
295	"	"	"									
296	"	"	Altered basalt	○		○						
297	"	"	Andesitic tuff									
298	"	"	Trachyte									
299	"	"	Porphyritic trachyte									
300	"	"	Andesite									
301	"	"	Porphyritic trachyte									
302	"	"	"	○		○						
303	1-i	Yauri	Lignite									
304	"	"	Calcarenite									
305	"	Puno	Calcereous sandstone									
306	"	Descanso	Calcarenite			○						
307	"	Puno	Shale									
308	"	"	Obsidian									
309	1-j	"	Sandstone									
310	"	"	Lapilli tuff									

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
311	1-j	Puno	Sandstone									
312	"	"	Tuffaceous sandstone									
313	"	"	Conglomerate					O				
314	"	"	Sandstone									
315	"	"	"									
316	1-k	"	Sandstone	O								
317	"	"	Tuffaceous sandstone	O								
318	1-m	Ayabacas	Limestone							O		
319	"	"	"							O		
320	"	"	"							O		
321	"	"	"							O		
322	"	"	"									
323	"	Intrusives	Granite									
324	"	"	Granite porphyry									
325	1-n	Munani ?	Hornfels									
326	"	Intrusives	Granite porphyry									
327	"	"	"									
328	2-b	Tacaza	Trachy andesite	O		O	O					
329	"	"	Scoria									
330	"	"	Altered basalt									
331	"	Seneca	Dacite									
332	"	"	Tuff breccia	O								
333	"	Descanso	Tuffaceous sandstone									
334	"	"	Lapilli tuff									

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
335	2-i	Tacaza	Sandstone									
336	"	"	Basalt									
337	"	Descanso	Sandy tuff									
338	"	Puno	Sandstone	O								
339	"	Descanso	"							O		
340	2-k	Puno	Conglomerate									
341	2-l	Tacaza	Olivine basalt	O		O		O	O			
342	"	"	Trachy andesite	O								
343	2-m	Puno	Conglomerate									
344	3-h	Tacaza	Basalt	O		O						
345	"	Seneca	Tuff									
346	"	Tacaza	Lapilli tuff									
347	"	"	Trachyte									
348	"	Intrusives	Monzonite				O					Pyritization
349	"	"	Diorite	O		O			O			
350	"	"	Granodiorite	O								
351	"	"	Microdiorite		O	O						
352	"	"	Porphyrite				O					Pyritization
353	"	"	Microdiorite				O					Pyritization
354	"	"	Diorite porphyrite	O		O						
355	"	"	Granodiorite	O								
356	"	"	Diorite				O					Pyritization
357	"	"	Meta-diorite porphyrite									
358	"	"	"	O			O					Pyrite vein

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
359	3-h	Intrusives	Meta porphyrite									
360	"	"	Porphyrite with evaporite									
361	"	"	Diorite with magnetite		○		○					
362	"	"	Meta diorite porphyrite									
363	3-i	"	Biotite monzonite	○								
364	"	Descanso	Pumice-tuff	○								
365	"	"	Andesitic tuff									
366	"	"	Lapilli tuff									
367	"	"	Sandstone									
368	"	"	Tuff									
369	"	"	White tuff									
370	3-j	"	Sandstone									
371	"	Puno	Tuffaceous and silty sandstone									
372	"	Yauri	Tuff									
373	3-m	Tacaza	Basalt									
374	"	Puno	Tuffaceous sandstone	○								
375	"	Tacaza	Volcanic breccia	○								
376	4-h	Intrusives	Granodiorite	○		○			○			
377	"	Sencca	Dacite	○								
378	"	Tacaza	Olivine basalt				○					
379	"	Tacaza ?	Dacitic lapilli tuff									
380	"	Descanso	White tuff									
381	"	"	Conglomerale									
382	4-i	Yauri	Lapilli tuff									

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
383	4-i	Descanso	Lapilli tuff									
384	"	Yauri	Calcarenite									
385	"	Descanso	Tuffacious sandstone									
386	4-j	Yauri	Calcarenite									
387	"	"	"							○		
388	"	"	Pumice-tuff									
389	4-k	Descanso	Dacitic tuff	○								
390	4-l	Ayabacas	Limestone	○								
391	"	Tacaza	Andesitic tuff breccia									
392	"	"	Lapilli tuff									
393	4-m	"	Porphyritic andesite									
394	"	"	Trachy andesite	○								
395	5-i	Descanso	Sandy tuff	○		○					○	
396	5-m	Puno	Liparite									
397	"	Ayabacas	Limestone							○		
398	"	"	"							○		
399	"	"	"	○		○				○		
400	"	Tacaza	Andesite	○								
401	"	Puno	Conglomerate									
402	"	Ayabacas	Dolomitic limestone	○								
403	"	Puno	Sandstone									
404	5-n	Tacaza	Altered andesite									
405	"	"	Andesite breccia									
406	"	Ayabacas	Dolomitic limestone	○								

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
407	6-h	Ferrobamba	Limestone									
408	"	Tacaza	Tuff breccia									
409	"	"	Pumice tuff									
410	"	"	Olivine basalt									
411	"	Yura	Quartzite									
412	"	"	"									
413	"	Ferrobamba	Altered limestone									
414	6-i	"	Limestone			O						
415	"	"	"			O						
416	"	Intrusives	Granodiorite	O	O							
417	"	"	Gabbroic diorite									
418	"	"	Quartz monzonite porphyry	O								
419	"	"	Granodiorite									
420	"	"	"	O								
421	6-j	Ferrobamba	Magnetite skarn		O							
422	"	Intrusives	Quartz monzonite porphyry	O								
423	"	"	Monzonite porphyry	O								
424	"	"	Quartz monzonite									
425	"	Ferrobamba	Garnet skarn	O								
426	"	Intrusives	Granodiorite	O								
427	"	Yura	Quartzite									
428	"	"	Black shall									
429	"	Intrusives	Porphyritic diorite									
430	"	"	Monzonite porphyry	O	O							

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
431	6-j	Intrusives	Granodiorite	O				O				
432	6-k	Yauri	Lapilli tuff									
433	"	"	Siltstone							O	O	
434	"	Ferrobamba	Limestone									
435	"	Yauri	Sandstone							O		
436	6-m	Tacaza	Lapilli tuff	O								
437	"	Puno	Liparite									
438	7-h	Tacaza	Dacite	O								
439	"	"	Tuff braccia									
440	"	"	Basalt									
441	"	"	Olivine basalt	O								
442	"	"	Basalt	O		O		O				
443	"	Seneca	Dacite	O								
444	"	Barroso	Altered andesite									
445	7-i	Intrusives	Porphyry									
446	"	Tacaza	Basalt	O		O						
447	"	"	Olivine basalt									
448	"	"	Basalt	O								
449	"	Yauri	Calcarenite			O						
450	"	Ferrobamba	Limestone			O						
451	7-j	Intrusives	Quartz monzonite porphyry									
452	"	"	Granite porphyry	O								Drill hole of Quechua
453	"	"	Quartz monzonite porphyry with ore		O							No. 1-hole 73.00 m
"	"	"	Monzonite with copper ore		O							No. 2-hole 76.25 m

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
453	7-j	Intrusives	Quartz monzonite porphyry with ore		O							No. 3-hole 37.80 m
"	"	"	Copper ore		O							No. 5-hole 74.00 m
" 1	"	"	Quartz monzonite porphyry	O								No. 3-hole 138.80 m
" 2	"	"	Porhyritic monzonite	O								No. 1-hole 251.58 m
" 3	"	"	Quartz monzonite porphyry	O								No. 1-hole 56.62 m
" 4	"	"	Monzonite porphyry	O								No. 2-hole 78.55 m
" 5	"	"	Quartz monzonite porphyry	O								No. 2-hlle 78.55 m
" 6	"	"	Monzonite	O		O			O			No. 1-hole 10m-30m
" 7	"	"	Porphyritic monzonite	O		O			O			No. 1-hole 161m-176m
454	"	"	Monzonite ? with copper ore				O					
455	7-k	"	Gabbro	O		O		O	O			
456	"	Yauri	Rholitic tuff									
457	"	Ferrobamba	Limestone									
458	"	Intrusives	Gabbroic diorite									
459	"	"	Monzonite porphyry	O								
460	"	"	Diorite									
461	"	"	Granodiorite	O								
462	"	Ferrobamba	Limestone									
463	7-l	Yura	Quartzite									
464	7-n	Puno	Rhyolite	O								
465	"	"	Sandstone									
466	"	"	Taffaceous sandstone	O								
467	"	Tacaza	Volcanic breccia									
468	7-k	Intrusives	Porphyritic monzonite	O	O							

Sample No.	Location	Formation	Rock	Thin section	Polished section	Chemical analysis		X-ray analysis	Dating	Fossil	Pollen	Remarks
						Rock	Ore					
469	7-1	Intrusives	Monzonite porphyry	○								
"	"	"	Quartz monzonite porphyry	○								
"	"	Ferrobamba	Copper ore in limestone	○	○							

Table I-8 Microscopic Observations

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
1	1-a	Intrusives	Hornblende-biotite granodiorite	The rock is hypidiomorphic and composed of plagioclase, quartz, potash feldspar, biotite and hornblende (partly altered to chlorite) with accessory iron ore, apatite and sphene.	
4	1-b	Intrusives	Granodiorite	The rock is hypidiomorphic and composed mainly of plagioclase, potash feldspar, quartz and hornblende with accessory iron ore and apatite. Feldspars are partly altered to sericite, carbonates and chlorite. Veinlets of carbonates filling the fine cracks are observed.	See Table I-10
5	1-b	Intrusives	Altered hornblende granite	The rock is hypidiomorphic and mainly composed of plagioclase, potash feldspar, quartz and hornblende with accessory iron ore, apatite and sphene. Plagioclase and potash feldspar are partly altered to sericite and/or carbonates. Some crystals of plagioclase are replaced by epidote.	
6	1-b	Seneca	Dacitic and welded tuff breccia	Crystal fragments (up to 3mm in size) of biotite and plagioclase and lithic fragments (up to 5mm) of basalt are in a argillaceous and partly spherulitic matrix. Crystal fragments are corroded.	
9	1-b	Intrusives	Hornblende-biotite quartz diorite	The rock shows a medium-grained and hypidiomorphic texture. The main constituent minerals are plagioclase (subhedral, up to 3mm, zoned, mainly andesite but having the core of labradorite or bytownite in the comparatively large crystals), quartz (anhedral, up to 2mm, often showing the wavy extinction), hornblende (subhedral columnar, up to 2mm, with a pleochroism of Z=yellowish brown, Y=yellowish green, X=pale brownish green) and biotite (subhedral to anhedral, up to 1.5mm, with a pleochroism of Z and Y= dark brown, X=brown to pale brown). The minor or accessory minerals are potash feldspar (anhedral, occurring as the interstices), clinopyroxene (observed in the core of hornblende crystals without exception), apatite, iron ore (magnetite and hematite), sphene, chlorite, epidote and sericite.	See Table I-10
12	1-c	Murco	Slaty shale	The rock shows the phyllitic texture and is composed of sericite, quartz, plagioclase (albite to oligoclase), potash feldspar, altered augite (relicts) and opaque minerals. The grain size is less than 0.2mm in diameter. The rock is considered to be affected by some weak metamorphism.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
14	1-c	Intrusives	Augite-hornblende granodiorite	The rock is equigranular and composed of plagioclase (andesine), potash feldspar, green hornblende and augite with accessory epidote, sphene and apatite. Feldspars are partly altered to sericite.	
15	1-c	Murco	Shale	Angular to subangular crystal grains (up to 0.2mm in size) of quartz, feldspar, sericite and iron ore are cemented by argillaceous matters. The rock is well sorted.	
22	1-d	Tacaza	Biotite-hornblende trachyte	Phenocrysts of biotite, hornblende (both are replaced by opaque minerals), plagioclase (andesine, up to 2mm) and sanidine are in a fine-grained and intersertal groundmass of plagioclase (andesine, lath-shaped), anorthoclase, augite, iron ore, apatite and glass. The groundmass shows the flow structure. Plagioclase laths are thinly mantled by anorthoclase. Cristobalite is formed in the drusy cavities.	See Table I-10
23	1-d	Tacaza	Rhyolitic tuff breccia	Corroded crystals of biotite, quartz and plagioclase are in a spherulitic and argillized matrix.	
24	1-d	Tacaza	Biotite trachyte	Phenocrysts of biotite (euhedral prismatic, up to 0.5mm, with a pleochroism of pale greenish brown to dark brown), plagioclase (euhedral columnar, up to 3mm long, distinctly zoned, twinned after albite and Carlsbad law) and sanidine (up to 5mm long) are in a fine-grained, argillaceous and partly spherulic groundmass.	
25	1-d	Tacaza	Biotite trachyte	Phenocrysts of brown biotite (corroded, up to 3mm, including apatite and magnetite), plagioclase (up to 4mm, andesine, zoned, twinned after albite and Carlsbad law, mantled by anorthoclase) and sanidine are in a medium-grained and trachytic groundmass of plagioclase laths (oligoclase), anorthoclase, K-rich plagioclase and iron ore with subordinate augite, apatite and brown glass. Phenocrystic crystals of opaque minerals and apatite are present.	See Table I-10
26	1-d	Tacaza	Tuff breccia	Corroded crystals of quartz and plagioclase are in a fine grained and altered matrix of albitized plagioclase, quartz, iron ore and clay minerals.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
27	1-d	Tacaza	Biotite trachyte	Phenocrysts of biotite (prismatic, up to 1 mm, with a pleochroism of pale brown to reddish brown, corroded and replaced by opaque minerals), plagioclase (prismatic, up to 2mm, andesine zoned, twinned after albite and Carlsbad law) and sanidine are in a fine-grained and almost holocrystalline groundmass of plagioclase (oligoclase to albite), anorthoclase, iron ore and mafic microlites with subordinate apatite and rare brown glass.	
28	1-d	Tacaza	Biotite trachyte (or alkalic dacite)	Phenocrysts of brown biotite (columnar to short prismatic, up to 1 mm, rimmed by opaque minerals and also including opaque minerals and apatite) and plagioclase (prismatic, up to 3mm, andesine, corroded, twinned after albite and Carlsbad law) are in a fine-grained and almost holocrystalline groundmass of plagioclase (oligoclase to andesine), iron ore, subordinate mafic microlite and augite.	
29	1-d	Tacaza	Biotite trachyte	Phenocrysts of brown biotite (subhedral ragged, up to 1 mm, replaced by opaque minerals) and plagioclase (prismatic, up to 3mm, andesine but changed marginally to albite due to the zonning, twinned after albite and Carlsbad law) are in a fine grained and almost holocrystalline groundmass of plagioclase (andesine to oligoclase), iron ore, mafic microlites, apatite and glass. Glass is altered to chlorite.	
30	1-d	Tacaza	Augite-biotite-hornblende trachy andesite	Phenocrysts of augite (subhedral prismatic, corroded, zoned up to 1 mm), biotite (subhedral columnar, up to 1 mm, marginally opacitized, with a pleochroism of pale yellowish brown to brown) hornblende (acicular to prismatic, up to 1 mm, mostly replaced by opaque minerals and/or sericite, with a pleochroism of pale brown to greenish brown), plagioclase (columnar, up to 2mm, corroded, zoned, twinned after albite and Carlsbad law) and sanidine (columnar, up to 3mm) are in a fine-grained and intergranular groundmass of plagioclase lath, hypersthene, augite, iron ore and anorthoclase mesostasis with subordinate apatite (microphenocrystic) and brown glass. Xenocrysts of plagioclase showing honeycomb texture, up to 3 mm long, are present. The rock shows distinct flow structure.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
31	1-f	Tacaza	Biotite trachyte	Phenocrysts of biotite (columnar, up to 3mm, corroded and thinly mantled by opacite, with a pleochroism of pale greenish brown to dark brown), plagioclase (subhedral columnar, up to 5mm, corroded, weakly zoned, twinned after albite anc Carlsbad law), and sanidine (subhedral columnar, up to 5mm) are in a fine-grained and intersertal groundmass of plagioclase, potash feldspar, pyroxene, iron ore, apatite (microphenocrystic) and glass. Tridymite and cristobalite are formed in drusy cavities.	
35	1-g	Tacaza	Biotite-pyroxene-hornblende (alkalic) andesite	Phenocrysts of hornblende (prismatic to acicular, up to 5mm, fairly opacitized, with a pleochroism of pale yellowish green to greenish brown), biotite (columnar or prismatic, up to 1 mm, marginally opacitized, with a pleochroism of brown to dark brown), augite (prismatic to short prismatic, up to 0.5mm, zoned), hypersthene (prismatic, up to 0.5mm, with a pleochroism of pale green to pale brown), sanidine (columnar, up to 2mm) and plagioclase (columnar, up to 2mm, marginally embayed by opacite, with distinct polysynthetic twining) are in a medium-grained and intersertal groundmass of plagioclase, potash feldspar, augite, hypersthene, iron ore, apatite and brown glass. Flow structure is distinct. A euhedral microphenocryst of sphene is present.	
40	1-g	Tacaza	Biotite trachyte (or alkalic dacite)	Phenocrysts of sanidine (subhedral, up to 3mm), plagioclase (andesine to oligoclase, subhedral, up to 3mm, zoned), quartz (anhedral, up to 1 mm) and brown biotite (subhedral, up to 2 mm) are in a percrystalline and intersertal groundmass of plagioclase, iron ore (magnetite and hematite), silica minerals and brown glass.	See Table I-10
41	2-a	Tacaza	Tuff breccia	Fragments of andesite and crystal fragments of plagioclase, augite, hornblende, biotite, quartz, apatite, opaque minerals and carbonates are in a fine grained and andesitic ash.	
42	2-a	Tacaza	Tuff breccia	Fragments of plagioclase, hypersthene, biotite, apatite, carbonates after pyroxene, epidote after plagioclase and opaque minerals, and lithic fragments of andesite are in a fine grained matrix of andesitic ash.	
43	2-a	Tacaza	Alkalic dacite	Phenocrysts of plagioclase, biotite, hornblende and potash feldspar are in a holocrystalline and intergranular groundmass of potash feldspar, plagioclase, quartz, iron ore and apatite. Apatite and iron ore occur as the microphenocrysts	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
49	2-b	Ferrobamba	Limestone	The rock is mainly composed of equigranular and euhedral to subhedral calcite with a little opaque minerals and quartz.	
51	2-b	Tacaza	Altered olivine bearing trachy andesite	The rock may be thermally metamorphosed and originally presumed to be andesite. It is divided into two parts from the different facies; one is fine-grained and the other is coarse-grained. The fine-grained part shows flow texture and is composed of lathshaped plagioclase, potash feldspar, iron ore and apatite with pseudomorphic phenocrysts after olivine and plagioclase. It has prismatic biotite and cristobalite in the drusy cavities. The coarse-grained part is composed of columnar plagioclase (probably recrystallized), potash feldspar, iron ore and apatite with pseudomorphic phenocrysts after plagioclase and olivine.	See Table I-10
53	2-b	Tacaza	Sandstone	The rock is mainly composed of crystal grains of quartz and altered feldspar, and fragments of volcanics, up to 1 mm in size. The grains of quartz and fledspar are rounded and irregularly cracked.	
56	2-c	Intrusives	Hornblende-biotite granodiorite	The rock is equigranular and composed mainly of plagioclase (oligoclase), potash feldspar, quartz, biotite and hornblende with accessory iron ore, sphene and apatite. Quartz and potash feldspar show the graphic texture.	
58	2-d	Tacaza	Olivine (alkali) basalt	Phenocrysts of olivine (euhedral tabular, up to 1 mm, altered wholly to iddingsite, occasionally embayed by magmatic corrosion, commonly including octabedral magnetite), titanaugite (euhedral prismatic but rarely rounded, up to 1 mm, distinctly zoned and occasionally showing the hour-glass structure, with a indistinct pleochloism of colourless to very pale brown, commonly including magnetite) and zeolites (euhedral to subhedral columnar, occuring as the aggregates of crystals filling the drusy cavities) are in a coarse grained, almost holocrystalline and subophitic to intergranular groundmass of plagioclase laths (bytownite to labradorite, mantled by anorthoclase), olivine (altered wholly to iddingsite), titanaugite and iron ore with subordinate anorthoclase, zeolites (occurring as the interstitices), k-rich plagioclase and brown glass.	See Table I-10

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
60	2-d	Tacaza	Aphiric basalt	The rock is aphiric and rare phenocrysts of augite (euhedral to subhedral, up to 0.5mm, showing parallel intergrowth with hypersthene) are in a medium grained and intergranular groundmass with distinct flow structure composed of plagioclase laths (labradorite to bytownite), augite, anorthoclase interstices and iron ore with subordinate olivine (altered to iddingsite, with the reaction rim of augite), apatite, biotite, cristobalite (rare, occurring as the mesostasis) and brown glass.	
61	2-d	Tacaza	Oxyhornblende-biotite trachyte (or alkalic andesite)	Phenocrysts of oxyhornblende (euhedral prismatic, up to 1 mm, with a pleochroism of pale green to reddish brown), biotite (euhedral, up to 2mm, with the similar pleochroism as oxyhornblende), sanidine and plagioclase (prismatic, up to 3mm, oligoclase, twinned after albite and Carlsbad law) are in a fine grained and intersertal groundmass of plagioclase laths, potash feldspar, iron ore, apatite and chloritized glass. Plagioclase of the groundmass is also oligoclase.	See Table I-10
62	2-d	Tacaza	Hypersthene bearing augite-biotite trachy andesite	Phenocrysts of brown biotite (prismatic to short prismatic, up to 1 mm, replaced largely by opaque minerals), augite (prismatic to granular, up to 1 mm, distinctly zoned), hypersthene (less abundant than augite, prismatic, up to 0.5mm) and pseudomorph after horn-blende (aggregates of opaque minerals and augite) are in a medium grained and intersertal groundmass of plagioclase laths (andesine), augite, hypersthene, iron ore with subordinate apatite and brown glass. Zeolites and cristobalite are formed in the drusy cavities.	See Table I-10
63	2-d	Tacaza	Aegirine-augite-olivine trachybasalt	Phenocrysts of olivine (subhedral tabular, up to 0.5mm, altered to iddingsite and rimmed by opacite), augite (subhedral prismatic to granular, up to 0.5mm, distinctly zoned) and aegirine (euhedral prismatic to bladed, up to 0.5mm, with a pleochroism of brown to greenish colour) are in a coarse grained, almost holocrystalline and intergranular groundmass of lath-shaped plagioclase (labradorite to andesine), anorthoclase interstices, olivine, augite, aegirine and iron ore with subordinate apatite, K-rich plagioclase and a little brown glass. Phenocrystic aggregates of magnetite and augite are probably pseudomorph after phenocrysts of augite.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
64	2-d	Tacaza	Aegirine bearing augite-olivine trachybasalt	Phenocrysts of augite (subhedral, up to 0.5mm, including magnetite, distinctly zoned) and olivine (euhedral tabular to subhedral, up to 0.5mm, altered wholly to iddingsite) are in a coarse grained, percrystalline and intergranular groundmass of lass-shaped plagio-clase (labradorite), olivine, augite, anorthoclase, iron ore, aegirine, biotite and a little brown glass. Olivine and aegirine are altered to iddingsite. Analcite is formed in the drusy cavities. Phenocrystic aggregates of magnetite and augite are present. Flow structure is distinctly marked.	
65	2-d	Tacaza	Altered olivine bearing andesitic rock	The rock is wholly altered but phenocrysts of mafic minerals such as olivine, hornblende and biotite (now perfectly replaced by opaque minerals) and plagioclase (altered to clay minerals and adularia) are estimated from their pseudomorphic crystal forms. The groundmass is also entirely altered to clay minerals.	
66	2-d	Tacaza	Olivine-augite trachy andesite	Phenocrysts of augite (subhedral, up to 0.5mm, distinctly zoned) and olivine (euhedral to subhedral tabular, up to 0.5mm, wholly altered to iddingsite) are in a coarse to medium grained, almost holocrystalline and intergranular to intersertal groundmass of plagioclase (labradorite to andesine), olivine, augite, aegirine, iron ore and anorthoclase with subordinate K-rich plagioclase, apatite, analcite mesostasis and brown glass. Analcite is also formed in the drusy cavities.	See Table I-10
67	2-d	Tacaza	Olivine-titanaugite trachy andesite	Phenocrysts of olivine (euhedral tabular, up to 3mm, altered to iddingsite) and titanaugite (subhedral prismatic, up to 1 mm, includ-ind magnetite and apatite, commonly twinned) are in a medium grained and intergranular to intersertal groundmass of plagio-clase laths (andesine), olivine, augite, iron ore, anorthoclase interstices, apatite, analcite and a little brown glass. Apatite occurs occasionally as a phenocryst. Olivine of the groundmass is also altered to iddingsite. The flow structure is marked.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
68	2-d	Tacaza	Biotite-olivine bearing hypersthene-augite trachy andesite	Phenocrysts of augite (euhedral prismatic to subhedral granular, up to 0.5mm), olivine (subhedral tabular, up to 1 mm), slightly altered to iddingsite, surrounded by minute grains of augite, biotite and plagioclase), hypersthene (euhedral prismatic, up to 1 mm), plagioclase (euhedral columnar, up to 2mm, zoned from Ab_{50} An_{50} to $Ab_{65}An_{35}$, twinned after albite and Carlsbad law, including brown glass) and biotite (columnar, up to 0.5mm, with a pleochroism of pale brown to dark reddish brown, commonly rimmed by opacite) are in a medium grained and intersertal groundmass of plagioclase laths (andesine), hypersthene, augite and iron ore with subordinate apatite and brown glass. Xenocrysts of plagioclase (rounded due to the corrosion, up to 2mm) are present.	
69	2-d	Tacaza	Hypersthene-augite-biotite trachyte	Phenocrysts of augite (subhedral, up to 1.5mm but commonly finer than 0.5mm, zoned, marginally chloritized), hypersthene (subhedral, up to 0.5mm, marginally chloritized), biotite (subhedral, up to 0.5mm, corroded and marginally opacitized) and plagioclase (columnar, up to 3mm, from $Ab_{40}An_{60}$ to $Ab_{70}An_{30}$, twinned after albite and Carlsbad law) are in a fine to medium grained and intersertal groundmass of plagioclase (andesine to oligoclase), iron ore, hypersthene and augite with subordinate apatite (often microphenocrystic) and brown glass. Tridymite and/or cristobalite are formed in the drusy cavities.	See Table I-10
70	2-d	Tacaza	Hornblende-hypersthene-augite bearing biotite trachyte	Phenocrysts of biotite (subhedral rounded to columnar, up to 2mm, thinly mantled by opacite), hornblende (subhedral acicular, up to 0.5mm, thinly rimmed by opacite), augite (subhedral prismatic, up to 2mm, including magnetite and apatite), hypersthene (subhedral columnar to prismatic, up to 2mm) and plagioclase (columnar to prismatic, up to 2mm, about $Ab_{50}An_{50}$, twinned after albite and Carlsbad law) are in a medium grained and intersertal groundmass of plagioclase (andesine), hypersthene, augite and iron ore with subordinate anorthoclase interstices, apatite (microphenocrystic) and brown glass. Cristobalite occurs in the drusy cavities. Xenocrysts of plagioclase (corroded, up to 3mm, with many dusty dark inclusions) are present.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
71	2-d	Tacaza	Hypersthene-augite trachy andesite	Phenocrysts of augite (subhadral, up to 2mm, zoned and corroded), hypersthene (subhedral, up to 1 mm) and pseudomorphic augite (aggregates of magnetite and augite) are in a medium grained and inter-granular groundmass of plagioclase ($Ab_{50}An_{50}$ to $Ab_{70}An_{30}$), augite, olivine, anorthoclase and iron ore with subordinate apatite, analcite mesostasis and a little brown glass. Xenocrysts of plagioclase (corroded and with many inclusions) are present. The groundmass shows the distinct flow structure.	
72	2-d	Tacaza	Hypersthene bearing augite trachy andesite	Phenocrysts of augite (subhedral, up to 0.5mm, distinctly zoned and showing hour-glass structure in some crystals) and aggregates of augite and magnetite after augite phenocrysts are in a medium-grained and intersertal groundmass of plagioclase, augite, hypersthene, anorthoclase, iron ore, apatite and a little brown glass.	See Table I-10
73	2-d	Tacaza	Hypersthene-augite-biotite trachy andesite	Penocrysts of augite (subhedral, corroded, up to 1 mm, zoned), biotite (subhedral, up to 1 mm, with a pleochroism of pale yellowish brown to dark brown, surrounded by hypersthene, plagioclase and magnetite), hypersthene (subhedral, up to 1 mm, with a pleochroism of pale green to pale brown, slightly altered to sericite), plagioclase (columnar, up to 2mm, twinned after albite and Carlsbad law) and potash feldspar (subhedral columnar, up to 2 mm) are in a medium-grained and intersertal groundmass of plagioclase, potash feldspar, augite, hypersthene, iron ore, apatite and glass.	
74	2-d	Tacaza	Olivine trachybasalt	Phenocrysts of olivine (subhedral tabular, elongated paralled to c-crystallographic axis, up to 1 mm long, partly altered to iddingsite, occasionally embayed by magmatic corrosion) are in a coarse-grained and intergranular groundmass of lath-shaped plagioclase, olivine, augite, anorthoclase intersticis, iron ore with subordinate K-rich plagioclase, biotite, apatite and brown glass. Olivine and augite of the groundmass are fairly altered to iddingsite. Biotite may be titanbiotite. Flow structure is distinctly marked.	See Table I-10
75	2-d	Tacaza	Olivine trachybasalt	Phenocrysts of olivine (euhedral tabular, up to 1 mm, almost wholly replaced by opaque minerals) are in a medium-grained and inter-granular groundmass of plagioclase, anorthoclase, olivine, augite, iron ore with subordinate zeolites and brown glass. Zeolites are secondary products and also occur in drusy cavities.	See Table I-10

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
76	2-d	Tacaza	Olivine (alkali) basalt	Phenocrysts of olivine (subhedral tabular, elongated paralled to c-crystallographic axis, somewhat corroded, fairly altered to iddingsite) and plagioclase (euhedral prismatic, up to 0.5mm, zoned, twinned after albite and Carlsbad law) are in a coarse-grained and intergranular groundmass of plagioclase laths, anorthclase, olivine, augite, iron ore, apatite and brown glass. Plagioclase laths are thinly mantled by anorthoclase and their compositions are estimated as $Ab_{40}An_{60}$ to $Ab_{30}An_{70}$.	
79	2-c	Tacaza	Hypersthene bearing augite-biotite trachyte	Phenocrysts of plagioclase (andesine, subhedral to euhedral, up to 4mm, zoned), augite (subhedral to euhedral, up to 4 mm) and biotite (subhedral to anhedral, up to 2mm, opacitized and replaced by iron ore) are in a intersertal groundmass of plagioclase, augite, hypersthene, iron ore (magnetite and hematite), brown glass, apatite and silica minerals including quartz.	See Table I-10 and I-18
83	2-c	Tacaza	Olivine-biotite bearing hypersthene-augite trachyte	Phenocrysts of olivine (euhedral, up to 1 mm, entirely altered to iddingsite and chlorite, surrounded by anorthoclase), augite (subhedral, up to 1.5 mm, partly chloritized), hypersthene (subhedral, up to 1.5mm, with a pleochroism of pale green to pale brown, partly chloritized) plagioclase (columnar, up to 2mm, distinctly zoned from andesite to albite, twinned after albite and Carlsbad law), sanidine (columnar, up to 2 mm) and acicular biotite are in a medium-grained and intersertal groundmass of plagioclase, potash feldspar, augite, hypersthene, iron ore, apatite and brown glass. Plagioclase of the groundmass is $Ab_{60}An_{40}$ or more acidic. Brown glass is commonly altered to chlorite. Xenocrysts of plagioclase (rounded by corrosion and showing honeycomb texture) are present.	See Table I-10
91	2-g	Tacaza	Augite bearing hornblende-biotite trachyte	Phenocrysts of augite (subhedral, up to 2mm, distinctly zoned), hornblende (acicular to short prismatic, up to 0.5mm, marginally opacitized, with a pleochroism of pale yellowish green to brownish green), biotite (columnar, up to 2mm, marginally opacitized, with a pleochroism of yellowish brown to reddish brown), plagioclase (columnar but slightly rounded, up to 2mm, distinctly zoned, twinned after albite and Carlsbad law) and sanidine (subhedral columnar, up to 2 mm) are in a fine-grained and intersertal groundmass of plagioclase, potash feldspar, augite, biotite, iron ore, apatite and brown glass. A rounded xenolith, about 5mm in diameter, is contained. The xenolith is a coarse-grained and equigranular rock showing recrystallized texture by thermal effect and is composed of plagioclase, augite, biotite, iron ore and apatite. The original rock may be basic tuff. Further, the compositions of plagioclase are andesine to labradorite in the phenocrysts and andesine in the groundmass.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
95	2-g	Tacaza	Bronzite-augite andesite	Phenocrysts of augite (subhedral prismatic, up to 0.5mm, distinctly zoned) and bronzite (subhedral prismatic, up to 0.5 mm, with a pleochroism of colourless to pale brown, having the dispersion of $\gamma > \nu$, often surrounded by augite) are in a medium-grained and intersertal groundmass of plagioclase lath, crystobalite? mesostasis, anorthoclase interstice, augite, bronzite, iron ore with subordinate apatite and brown glass. The rock is fairly aphiric and similar to Sanukite. The flow structure is distinct.	
97	3-a	Intrusive	Altered microgranite	Phenocrysts of plagioclase, potash feldspar and pseudomorphic hornblende (altered to the aggregates of iron ore and carbonates) are in a holocrystalline and microgranular groundmass of plagioclase, quartz and iron ore. Some microphenocrysts of apatite are present. Plagioclase are partly replaced by cabonates and epidote.	
101	3-c	Tacaza	Olivine bearing hornblende-biotite trachy andesite	Phenocrysts of biotite (euhedral, up to 1 mm, intensely opacitized), hornblende (euhedral, up to 1 mm, marginally opacitized and also wholly replaced by opaque minerals), olivine (entirely altered to iddingsite) and plagioclase (less abundant than the former three minerals, unhedral, twinned after albite and Carlsbad law, andesine) are in a medium grained and intersertal groundmass of plagioclase laths (andesine), olivine, pyroxene and iron ore with subordinate brown glass.	See Table I-10
102	3-c	Sencca	Biotite-hornblende rhyolitic pitchstone	Phenocrysts of biotite (euhedral prismatic, up to 1 mm), hornblende (euhedral prismatic, up to 1 mm) and plagioclase (oligoclase, euhedral columnar, up to 2mm, partly corroded and containing brown glass) are in a vitric groundmass composed mainly of brown glass with subordinate hornblende needles, plagioclase microlites, iron ore and apatite. The groundmass shows the flow structure and also the perlitic texture.	
104	3-c	Barroso	Augite bearing hornblende andesite	Phenocrysts of hornblende (euhedral acicular to prismatic, up to 1 mm, wholly replaced by opaque minerals and augite) and augite (subhedral prismatic, up to 0.3mm) are in a medium grained and percrystalline groundmass of plagioclase, hyperstbene, augite, cristobalite mesostasis and iron ore with subordinate apatite and brown glass. Tridymite is formed in the drusy cavities.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
107	3-c	Tacaza	Olivine (alkali) basalt	Phenocrysts of olivine (euhedral to subhedral tabular, up to 0.5 mm, marginally and along fine fractures of crystals altered to iddingsite, often deeply embayed by magmatic corrosion), augite (less abundant than olivine, subhedral, up to 1 mm, distinctly zoned) and plagioclase (columnar, up to 1 mm, twinned after albite and Carlsbad law but rare polysinthetic twin, zoned from $Ab_{30}An_{70}$ to $Ab_{40}An_{60}$) are in a coarse-grained and intergranular groundmass of plagioclase lath ($Ab_{30}An_{70}$ to $Ab_{50}An_{50}$), olivine, augite, iron ore, anorthoclase, K-rich plagioclase, analcite, apatite and brown glass. Analcite also occurs in fine amygdaloidal cavities.	
113	4-a	Tacaza	Altered olivine (alkali) basalt	Phenocrysts of olivine-pseudomorph (euhedral, up to 1 mm, entirely altered to iddingsite and carbonates) are in a coarse-grained, almost holocrystalline and intergranular groundmass of lath-shaped plagioclase, olivine, augite and iron ore with subordinate apatite, anorthoclase and a little brown glass. The alteration in the groundmass is also very advanced. Olivine and augite are altered to iddingsite and chlorite. Plagioclase and anorthoclase are albitized and sericitized.	
114	4-b	Sencca	Rhyolitic tuff	Fragments of quartz and altered plagioclase (up to 0.5mm in size) and altered lithic fragments are in a very fine grained and partly spherulitic groundmass of volcanic ash.	
115	4-b	Sencca	Rhyolitic tuff	Fragments of quartz, plagioclase and biotite and lithic fragments of dacite are in a fine-grained and vitric groundmass with altered plagioclase, quartz, iron ore and apatite. Biotite and plagioclase are partly replaced by carbonates.	
119	4-c	Tacaza	Olivine-augite trachy basalt	Phenocrysts of olivine (euhedral tabular, up to 1 mm, altered wholly to iddingsite), titanaugite (euhedral prismatic to short prismatic, distinctly zoned, including magnetite and occasionally olivine, up to 2mm in size) and plagioclase (labradorite to bytownite, euhedral, up to 2mm, twinned after albite and Carlsbad law, thinly mantled by anorthoclase) are in a coarse-grained, almost holocrystalline and intergranular groundmass of lath-shaped plagioclase (labradorite), olivine, titanaugite and iron ore with subordinate anorthoclase, apatite and brown glass. Analcite occurs in the amygdaloidal cavities.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
120	4-c	Senecca	Hornblende-augite trachyte (or alkalic dacite)	Phenocrysts of augite (corroded, including magnetite, showing slightly purplish tint, distinctly zoned), plagioclase (subhedral columnar, up to 3mm, andesine in composition, zoned) and pseudo-morphic hornblende (elongated aggregates of augite and magnetite, up to 1.5mm) are in a medium-grained and almost holocrystalline groundmass of plagioclase laths, augite, crystobalite mesostasis, iron ore with subordinate anorthoclase, apatite and brown glass. Cristobalite also occurs in the drusy cavities.	
125	4-d	Tacaza	Augite-olivine trachy andesite	Phenocrysts of olivine (ragged in shape, up to 1 mm, altered entirely to iddingsite) and augite (subhedral, up to 0.5mm, partly altered) are in a medium-grained, holocrystalline and intergranular groundmass with distinct flow structure which is composed of plagioclase laths (labradorite to andesine), anorthoclase interstices, olivine, augite and iron ore with subordinate analcite and rare brown glass. Olivine of the groundmass is also altered to iddingsite or replaced by magnetite. Analcite and other zeolites occur in the drusy cavities.	See Table I-10
126	4-d	Tacaza	Rhyolite	Phenocrysts (up to 3mm in size) of corroded quartz, plagioclase and sanidine are in a very fine-grained and spherulitic groundmass. Cristobalite and tridymite are formed in the drusy cavities.	
128	4-d	Tacaza	Altered olivine basalt	Phenocrysts of olivine (eubedral, wholly altered to iddingsite) and augite (subhedral, up to 1 mm, zoned) are in a coarse-grained and hyalophitic groundmass of plagioclase lath, augite, iron ore anortho-clase and a little glass. Zeolites occur in drusy cavities. Secondary cristobalite is formed in the groundmass.	
136	4-f	Coporaque	Sandstone	Crystal grains of plagioclase, potash feldspar, quartz and iron ore, and fragments of volcanic rocks are in a fine-grained matrix (quartz, plagioclase, chlorite, sericite and clay minerals.	
142	5-a	Senecca	Biotite rhyolite	Phenocrysts of brown biotite (subhedral columnar, up to 1 mm, marginally opacitized), quartz (angular, corroded, up to 2mm) and plagioclase (andesine to albite, corroded, always mantled by albite) are in a fine-grained groundmass of abundant spherules and feldspars altered wholly to albite and clay minerals.	See Table I-10

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
155	5-c	Barroso	Augite-olivine basalt	The rock is aphiric. A little phenocrysts of olivine (surrounded by reaction rim of hypersthene, altered wholly to iddingsite) and augite (short prismatic, up to 0.3mm, generally embayed by magmatic corrosion) are in a medium grained and intergranular groundmass of lath-shaped plagioclase (about $Ab_{40}An_{60}$, thinly mantled by anorthoclase), augite, hypersthene, iron ore, anorthoclase, apatite and brown glass. The granular hypersthene of the groundmass occasionally contains minute olivine (altered to iddingsite).	
160	5-d	Seneca (Tacaza ?)	Altered olivine-pyroxene trachy andesite	Phenocrysts of mafic minerals are wholly altered to sericite and chlorite but are estimated to be olivine and pyroxene from their pseudomorphic crystal forms. Plagioclase phenocrysts are euhedral prismatic in shape, up to 2mm in size, twinned after albite and Carlsbad law, zoned and labradorite in composition. The groundmass is medium-grained and intersertal, and consists of plagioclase laths (andesine), iron ore, chloritized pyroxene, apatite and chloritized glass.	
163	5-c	Tacaza	Olivine (alkali) basalt	Phenocrysts of olivine (euhedral tabular, up to 1 mm, wholly altered to iddingsite) are in a coarse-grained, almost holocrystalline and intergranular groundmass of plagioclase (lath-shaped, labradorite), olivine, titanaugite, iron ore analcite and little brown glass. Analcite and other zeolites are formed in drusy cavities.	
165	5-c	Tacaza	Olivine (alkali) basalt	Phenocrysts of olivine (euhedral tabular, up to 0.5mm, marginally chloritized), plagioclase (labradorite, up to 0.5mm, zoned and twinned after albite and Carlsbad law) are in a coarse-grained, almost holocrystalline and intergranular groundmass of plagioclase laths (labradorite, mantled by anorthoclase), olivine, augite, iron ore, anorthoclase, apatite, biotite (titanbiotite?) and chloritized glass.	
168	5-c	Senеca	Rhyolitic tuff	Crystals of quartz and plagioclase, aggregates of opaque minerals and chlorite after mafic minerals and lithic fragments of volcanics (up to 1.5mm in size) are in a fine-grained and albitized groundmass. The groundmass partly shows spherulitic texture.	
170	5-f	Senеca	Dacitic tuff breccia	Crystal fragments (up to 3mm in size) of plagioclase (andesine to oligoclase) and sanidine and lithic fragments of altered volcanic rocks are in a fine-grained matrix of dusts and spherules.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
172	5-f	Intrusive	Granodiorite	The rock is hypidiomorphic and the main constituent minerals are plagioclase (oligoclase to acidic andesine), potash feldspar, microcline and hornblende. Accessory minerals are apatite, sphene and iron ore Hornblende is ragged in shape and includes magnetite and apatite. Plagioclase is partly replaced by sericite or epidote and hornblende is altered to chlorite.	
174	5-f	Coporaque	Sandstone	Subangular to rounded crystals (up to 2mm in size) of quartz, potash feldspar and plagioclase, and lithic fragments are in a fine grained and carbonatized matrix. The soating is bad.	
182	5-g	Intrusives	Granodiorite	The rock shows hypidiomorphic texture and is composed of subhedral and green hornblende, brown biotite, euhedral to subhedral plagioclase (andesine to oligoclase), anhedral microcline, orthoclase and quartz with accessory iron ore and apatite. Orthoclase is slightly altered to kaolinite.	
200	6-b	Barroso	Hypersthene-augite-olivine andesite	Phenocrysts of olivine (euhedral tabular, up to 1 mm, partly altered to iddingsite, occasionally embayed by magmatic corrosion and surrounded by reaction rim of hypersthene), augite (subhedral prismatic, up to 1 mm, zoned and twinned) and hypersthene (prismatic, up to 0.5mm), and xenocrysts of plagioclase (anhedral, up to 2mm, containing arranged dusty-inclusions along the crystal margin, about $Ab_{70}An_{30}$) are in a medium-grained and intergranular groundmass with flow structure, which is composed of lath-shaped plagioclase (about $Ab_{50}An_{50}$), hypersthene, olivine, anorthoclase interstices, iron ore, apatite, biotite and a little brown glass.	
203	6-b	Tacaza	Olivine-augite trachy andesite	Phenocrysts of olivine (euhedral tabular, up to 0.5mm, wholly replaced by iddingsite and/or magnetite), augite (euhedral prismatic, up to 1 mm, slightly chloritized) and plagioclase (euhedral prismatic, up to 2mm, twinned after albite and Carlsbad law, zoned from labradorite to andesine) are in a medium-grained and intersertal groundmass of plagioclase (lath-shaped, andesine), olivine, augite and iron ore with subordinate anorthoclase, apatite, analcite and brown glass. Olivine and augite in the groundmass are almost altered to chlorite. Plagioclase laths are thinly mantled by anorthoclase.	See Table I-10

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
215	6-d	Barroso	Hornblende-hypersthene-augite andesite	Phenocrysts of augite (euhedral prismatic, up to 0.5 mm, twinned and zoned), hypersthene (prismatic, up to 0.5mm, with a pleochroism of colourless to pale brown) and altered hornblende (wholly replaced by opaque minerals) are in a fine-grained and intersertal groundmass with flow structure, which is composed of plagioclase laths (andesine), cristobalite mesostasis, hypersthene, iron ore, apatite, and brown glass. Phenocrysts of plagioclase are absent.	
217	6-d	Tacaza	Altered andesitic rock	Phenocrysts are wholly altered to carbonates, but the original minerals are considered to be olivine, pyroxene and plagioclase from their pseudomorphic crystal forms. The groundmass shows a medium-grained and intersertal texture, and is composed of plagioclase laths (albitized), augite (altered to iddingsite and/or carbonates), iron ore, anorthoclase, apatite and glass. Cristobalite occurs in drusy cavities.	
218	6-d	Senca	Altered rhyolite	Phenocrysts (up to 3mm in size) of subhedral quartz and plagioclase (oligoclase) are in a fine grained and altered groundmass of quartz, albitized plagioclase, potash feldspar altered intensively to clay minerals, apatite, iron ore and altered glass.	
221	6-d	Tacaza	Tuff breccia	Crystals of quartz, albitized plagioclase, altered mafic minerals and opaque minerals, and lithic fragments of volcanics are in a vitric matrix.	
222	6-d	Senca	Rhyolitic welded tuff	Crystals of angular and corroded quartz, Na-rich plagioclase and sanidine (up to 2mm in size) are in a vitric matrix partly showing spherulitic texture.	
240	7-b	Senca	Hypersthene-augite bearing biotite dacite	Phenocrysts of biotite (prismatic but marginally opacitized and ragged, up to 1 mm, with a pleochroism of colourless to brown), augite (subhedral, up to 1.2mm, distinctly zoned), hypersthene (subhedral, up to 0.5mm, with a pleochroism of colourless to pale brown), plagioclase (euhedral prismatic to short prismatic, up to 2mm, twinned after albite and Carlsbad law, distinctly zoned, corroded in large ones) and quartz (anhedral rounded and cracked, up to 2mm) are in a fine grained and hyalopilitic groundmass with flow structure, which is composed of plagioclase laths, cristobalite mesostasis, iron ore, apatite, microlites and brown glass.	

Sample No	Location	Formation	Rock	Microscopic observations	Remarks
243	7-b	Tacaza	Pyroxene bearing hyalopilitic trachy andesite	Plagioclase (euhedral prismatic, up to 2mm, twinned after albite and Carlsbad law, distinctly zoned from $Ab_{60}An_{40}$ to $Ab_{75}An_{25}$) are in a fine-grained and hyalopilitic groundmass with flow structure which is composed of plagiocise laths, anorthoclase, iron ore, apatite, pyroxene and chloritized glass.	See Table I-10
246	7-b	Senecca	Pyroxene bearing hornblende trachyte	Phenocrysts of plagioclase (euhedral prismatic, up to 3mm, twinned after albite and Carlsbad law, distinctly zoned from $Ab_{40}An_{60}$ to $Ab_{70}An_{30}$), hypersthene (subhedral rounded, up to 0.3mm, with pleochroism of colourless to pale brown), augite (subhedral rounded, up to 0.3mm, less abundant than hypersthene) and hornblende (anhedral ragged, up to 1 mm, with pleochroism of pale yellowish green to brownish green, marginally opacitized) are in a fine grained and hyalopilitic groundmass of plagioclase laths, anorthoclase, iron ore, apatite and brown glass. Cristobalite occurs in drusy cavities.	See Table I-10
248	7-b	Senecca	Augite-biotite bearing dacite	The rock is aphiric. A little phenocrysts of plagioclase, augite and biotite are in a medium grained and almost holocrystalline groundmass with flow structure, which is composed of plagioclase laths, cristobalite interstices, iron ore, biotite, apatite and a little brown glass. Cristobalite and apatite are occasionally phenocrystic. Plagioclase laths are about $Ab_{65}An_{35}$ in the composition.	
249	7-b	Senecca	Dacite	Plagioclase (albitized and recrystallized) is in a argillaceous and partly spherulic matrix of albitized plagioclase, silica minerals, clay minerals and iron ore.	
257	7-c	Senecca	Augite bearing biotite dacite	Phenocrysts of brown biotite (up to 1 mm, replaced by opaque minerals and other alteration products), plagioclase (prismatic, up to 4mm, twinned after albite and Carlsbad law, zoned from $Ab_{60}An_{40}$ to $Ab_{70}An_{30}$) and augite (euhedral prismatic, up to 0.5mm, less abundant than biotite and plagioclase) are in a fine-grained and intersertal groundmass of plagioclase, cristobalite-tridymite, augite, iron ore, apatite and brown glass. Large xenocrysts of plagioclase (2mm in size, corroded, with many inclusions of dark dusts) are present. Apatite and cristobalite occur as microphenocrysts.	
268	7-d	Senecca	Tuff breccia	Lithic fragments of volcanic rocks (up to 5mm in size, andesite and a little basalt) and crystal fragments of altered plagioclase and mafic minerals are in a fine-grained and strongly chloritized matrix.	

Sample No.	Location	Formation	Rock	Micro-scopic observations	Remarks
272	7-c	Barroso	Olivine (alkali) basalt	Phenocrysts of olivine (euhedral tabular, up to 1 mm, elongated parallel to c-crystallografic axis, occasionally embayed by magmatic corrosion) are in a coarse-grained, almost holocrystalline and intergranular groundmass of plagioclase laths (basic labradorite), olivine, augite, anorthoclase interstices, analcite mesostasis and a little brown glass. Plagioclase laths are mantled by anothoclase. Analcite occurs in drusy cavities.	
273	7-c	Barroso	Olivine basalt	Phenocrysts of olivine (tabular or granular, up to 3mm, marginally altered to iddingsite, occasionally embayed by magmatic corrosion, commonly including magnetite) and plagioclase (prismatic, up to 0.5mm, distinctly zoned) are in a coarse-grained and intergranular to intersertal groundmass of plagioclase, olivine, augite, iron ore, anorthoclase, apatite, analcite and brown glass.	
274	7-c	Barroso	Pumice-tuff	Crystals of quartz, biotite, opaque minerals and plagioclase, and lithic fragments of andesite (up to 3mm in size) are in a vitric welded and partly porous matrix.	
275	7-c	Barroso	Biotite-hornblende andesite	Phenocrysts of biotite (long prismatic to prismatic, up to 2mm, thinly rimmed by opacite), hornblende (long prismatic, up to 6mm, commonly containing apatite, biotite and magnetite, thinly mantled by opacite) and plagioclase (prismatic to columnar, up to 3mm, oligoclase in composition, zoned and twinned after albite and Carlsbad law) are in a medium-grained and intersertal groundmass of plagioclase laths, iron ore, wholly opacitized hornblende needles, cristobalite mesostasis, hypersthene, apatite and brown glass.	
276	7-f	Tacaza	Hypersthene-augite-olivine basalt	Phenocrysts of olivine (granular, up to 0.5mm, rimmed by augite, altered to iddingsite), augite (euhedral prismatic, up to 0.7mm, distinctly zoned and occasionally showing hour-glass structure), hypersthene (up to 1 mm, deeply embayed by magmatic corrosion, zoned) and plagioclase (less abundant than other phenocrysts, distinctly zoned) are in a coarse grained, percrystalline and intergranular to intersertal groundmass of plagioclase laths (labradorite), olivine, augite, iron ore, apatite and brown glass. Zeolites are formed in drusy cavities.	
278	7-g	Senca	Tuff	The rock is composed of very fine volcanic ash including powderly feldspar.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
281	7-g	Tacaza	Olivine (alkali) basalt	Phenocrysts of augite (granular or ragged by magmatic corrosion, up to 2mm but generally less than 1 mm, partly altered to carbonate, distinctly zoned) are in a coarse grained and intergranular groundmass of plagioclase laths (labradorite to basic andesine), olivine (pseudomoph), augite, anorthoclase interstices, iron ore, apatite (microphenocrystic), biotite and brown glass. Xenocrysts of granular quartz (up to 3mm) are surrounded by augite and secondary carbonates.	
283	7-g	Tacaza	Olivine basalt	The rock shows the vitrophyric texture, and euhedral crystals (up to 2mm in size) of olivine, augite, plagioclase and iron ore are scattered in the brown glass. Olivine is slightly altered to iddingsite.	
284	7-g	Tacaza	Olivine bearing bronzite-augite andesite	Phenocrysts of olivine (euhedral tabular, altered to iddingsite, bronzite (euhedral prismatic, with pleochroism of colourless to pale green, with dispersion of $\gamma > \nu$) and augite (euhedral, often rimmed by hypersthene) are in a medium-grained, intergranular and percrystalline groundmass with distinct flow structure, composed of lath-shaped plagioclase ($Ab_{40}An_{60}$ to $Ab_{30}An_{70}$), augite, hypersthene and iron ore with subordinate anorthoclase, K-rich plagioclase and a little brown glass.	
285	7-g	Tacaza	Olivine bearing basalt	Phenocrysts of olivine (deeply embayed by magmatic corrosion and reacting with augite) and plagioclase (euhedral, up to 1 cm, including olivine, magnetite and dusty substance, distinctly zoned and commonly twinned after albite and Carlsbad law) are in a coarse grained and holocrystalline groundmass of plagioclase, olivine, augite and iron ore with subordinate hypersthene, apatite and a little cristobalite. Augite is formed by the reaction of olivine and liquid, and hypersthene occurs as the intergrowth to augite. The compositions of plagioclase are about $Ab_{25}An_{75}$ in the phenocrysts and $Ab_{45}An_{55}$ in the groundmass.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
286	7-g	Barroso	Olivine bearing augite-hypersthene andesite	Phenocrysts of olivine (euhedral, up to 0.5mm, occasionally embayed by magmatic corrosion, intensely altered to iddingsite), augite (euhedral prismatic, up to 1 mm), hypersthene (euhedral prismatic, up to 1 mm, with pleochroism of colourless to pale green) and plagioclase (euhedral, up to 2mm, distinctly zoned, about $Ab_{30}An_{70}$ in crystal core, twinned after albite and Carlsbad law) are in a fine grained and intersertal groundmass of lath-shaped plagioclase, augite, hypersthene and iron ore with subordinate cristobalite, apatite and brown glass. Cristobalite and mica are also formed in drusy cavities. The composition of plagioclase in the groundmass is estimated at about $Ab_{50}An_{50}$.	
287	1-g	Tacaza	Olivine bearing biotite trachy andesite	Phenocrysts of biotite (euhedral, up to 1 mm, with pleochroism of pale brown to brown, marginally opacitized), plagioclase (euhedral but slightly rounded, up to 5mm, twinned after albite and Carlsbad law, distinctly zoned from $Ab_{60}An_{40}$ to more acidic) and olivine (microphenocrystic, euhedral, perfectly altered to opaque minerals and/or adularia) are in a intersertal groundmass of plagioclase, analcite, iron ore and apatite with a little augite and pseudomorphic olivine. The composition of plagioclase in the groundmass is about $Ab_{75}An_{25}$.	See Table I-10
296	1-h	Tacaza	Altered olivine basalt	Phenocrysts of pseudomorphic olivine (altered to carbonates and/or magnetite) and carbonatized plagioclase are in a intersertal groundmass of carbonates after mafic minerals, plagioclase (rimmed by anorthoclase, albitized), anorthoclase and microphenocrystic apatite.	See Table I-10
302	1-h	Tacaza	Olivine bearing biotite trachyte	Phenocrysts of altered olivine, biotite (euhedral, up to 1 mm, with pleochroism of pale green to reddish brown, marginally opacitized) and plagioclase (euhedral, up to 1 cm, twinned after albite and Carlsbad law, distinctly zoned from $Ab_{60}An_{40}$ to $Ab_{80}An_{20}$, generally but weakly replaced by analcite) are in a fine grained and intersertal groundmass of plagioclase (about $Ab_{80}An_{20}$), pyroxene, iron ore, analicite, microphenocrystic apatite and brown glass. Cristobalite, tridymite and zeolites are fromed in drusy cavities.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
316	1-k	Puno	Sandstone	Fine fragments (up to 0.5mm in size) of augite, hornblende, plagioclase, quartz, iron ore, apatite and crushed pumice are in a fine grained and argillaceous matrix composed mainly of minute powders of same substances as above-mentioned fragments.	
317	1-k	Puno	Tuffaceous sandstone	Crystal fragments (up to 0.5mm in size) of biotite, hornblende, augite, plagioclase, hypersthene, iron ore and apatite, fragments of glass, pumice and lithic fragments of andesite to dacite are in a fine grained and essential matrix. Recrystallized cristobalite occurs in the matrix.	
328	2-h	Tacaza	Olivine-augite-hypersthene trachy andesite	Phenocrysts of olivine (euhedral, rimmed by vermicular magnetite and hypersthene, partly opacitized), augite (euhedral prismatic, up to 1 mm, distinctly zoned and occasionally showing hour glass structure), hypersthene (euhedral prismatic, up to 1 mm, with pleochroism of pale green to pale brown) and plagioclase ($Ab_{30}An_{70}$ or more basic, euhedral columnar, twinned after albite and Carlsbad law) are in a medium-grained and intersertal groundmass showing distinct flow structure and composed of lath-shaped plagioclase, augite, hypersthene and iron ore with subordinate anorthoclase, biotite and apatite.	See Table I-10
332	2-h	Sencca	Tuff breccia	Crystal fragments of quartz (rounded and corroded, up to 2mm) and a little plagioclase (entirely altered to clay minerals) are in a fine grained and argillaceous groudmass of minute silica minerals, clay minerals and dusty substances. Flow structure is marked.	
338	2-j	Puno	Sandstone	Fine fragments (under 0.5mm in size) of quartz, augite, hypersthene, hornblende, apatite and iron ore are in a argillaceous matrix which is sericitized and/or carbonatized.	
341	2-l	Tacaza	Altered olivine basalt	Phenocrysts of olivine (euhedral, up to 1 mm, entirely altered to chlorite and adularia, marginally replaced by magnetite) and plagioclase (euhedral, up to 1.5mm, twinned after albite and Carlsbad law, including minute olivine and/or magnetite, slightly altered to kaolinite) are in a medium grained, intersertal to intergranular and devitrified groundmass of lath-shaped plagioclase, pseudomorphic olivine, zoned augite and apatite with subordinate anorthoclase and brown glass.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
342	2-1	Tacaza	Olivine-augite trachy andesite	Phenocrysts of olivine (altered to iddingsite), plagioclase (altered to chlorite or epidote) and partly chloritized augite are in a intersertal to intergranular groundmass of lath-shaped plagioclase, augite, olivine and iron ore with anorthoclase, apatite and weakly chloritized brown glass.	
344	3-h	Tacaza	Augite-olivine trachybasalt	Penocrysts of augite (subhedral, up to 0.5mm, less abundant than olivine) olivine (euhedral tabular, up to 0.5mm, wholly altered to iddingsite) and plagioclase (euhedral, up to 0.5mm, distinctly zoned, a little in amount) are in a coarse grained, intergranular and per-crystalline groundmass of lath-shaped plagioclase (about $Ab_{40}An_{60}$), olivine, augite and iron ore with subordinate anorthoclase, K-rich plagioclase, apatite and a little brown glass. Plagioclase laths are always mantled by thin film of anorthoclase.	See Table I-10
349	3-h	Intrusives	Cummingtonite bearing biotite-hornblende-clinopyroxene diorite	The rock shows a medium-grained and hypidiomorphic texture. The main constituent minerals are plagioclase (subhedral, up to 4mm, occasionally showing weak zonning), clinopyroxene (subhedral, up to 3mm, with exsolution lamellae, occasionally forming symplektite with iron ore), hornblende (isolated and anhedral crystals up to 0.8mm and columnar crystals with clinopyroxene core up to 2mm, with a pleochroism of Z=green, Y=yellowish green, X=pale green) and biotite (anhedral, with a pleochroism of Z=Y=reddish brown, X=pale brown). The minor constituent minerals are potash feldspar interstice, cummingtonite, quartz, iron ore (magnetite and hematite), apatite and sphene. Cummingnite is anhedral and often occurs at the junction of clinopyroxene and hornblende. Euhedral crystals of apatite are remarkable.	See Table I-10 and I-18
350	3-h	Intrusives	Granodiorite	The rock shows a coarse-grained and hypidiomorphic texture, and consists of hornblende (euhedral to subhedral, commonly including minute magnetite and apatite, with a pleochroism of brownish green to dark green), plagioclase (euhedral to subhedral, distinctly zoned and about $Ab_{50}An_{50}$ in crystal core, twinned after albite and Carlsbad law), potash feldspar (anhedral) and perthite (anhedral) with accessory iron ore and apatite.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
354	3-h	Intrusives	Biotite-hornblende porphyrite	The rock shows a porphyritic texture. The main constituent minerals are plagioclase (phenocrystic, about $Ab_{50}An_{50}$ to $Ab_{70}An_{30}$, twinned after albite and Carlsbad law), potash feldspar (less abundant than plagioclase), hornblende and biotite. A little relics of augite are present. By the breakdown of hornblende, biotite is formed. Apatite and iron ore present as the accessory minerals.	See Table I-10
355	3-h	Intrusives	Hornblende-biotite granodiorite	Hornblende, biotite, potash feldspar, plagioclase and quartz are the main constituent minerals, and apatite and iron ore occur as the accessory minerals. The texture is hypidiomorphic but crystals of plagioclase are somewhat larger than those of other minerals. Plagioclase is marginally zoned and changes its composition from $Ab_{60}An_{40}$ to $Ab_{90}An_{10}$.	
358	3-h	Intrusives	Biotite bearing augite-hornblende diorite porphyrite	The rock shows a porphyritic texture. The main constituent minerals are plagioclase, augite, hornblende and biotite, and apatite and iron ore are present as the accessory minerals. Plagioclase is phenocrystic and distinctly zoned from andesite to oligoclase. Sericitization is fairly advanced and augite remains only as relict. Some of plagioclase are entirely replaced by epidote.	
363	3-i	Intrusives	Biotite monzonite	The rock shows hypidiomorphic texture and is mainly made up of biotite (euhedral but ragged by opacitization, with pleochroism of yellowish brown to brown), plagioclase (twinned after albite and Carlsbad law, distinctly zoned from $Ab_{45}An_{55}$ to $Ab_{80}An_{20}$) and potash feldspar with accessory apatite, sphene and iron ore.	
364	3-i	Descanso	Pumice-tuff	Fine fragments (up to 1 mm in size) of biotite, plagioclase, iron ore, apatite and altered minerals are in a argillaceous matrix.	
374	3-m	Puno	Tuffaceous sandstone	Fragments (up to 1.5mm in size) of plagioclase, hornblende, biotite, iron ore, sphene and augite are in a fine-grained matrix composed of albitized plagioclase, dark dusty substances and crushed pumice.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
376	4-b	Intrusives	Clinopyroxene-cummingtonite bearing biotite-hornblende granodiorite	The rock shows a medium-grained and hypidiomorphic texture. The main constituent minerals are plagioclase (subhedral, up to 4mm, weakly zoned but rarely having the core of calcic plagioclase), quartz (anhedral, up to 2mm, with wavy extinction), potash feldspar (anhedral, up to 2mm, occurring as interstices), hornblende (subhedral, up to 2mm, including poikilitically crynopyroxene and cummingtonite, with a pleochroism of green to pale greenish yellow) and biotite (anhedral to subhedral, with a pleochroism of dark brown to yellowish brown). The minor constituent minerals are cummingtonite, clinopyroxene, iron ore (magnetite and hematite), apatite, sphene, tourmaline, chlorite, epidote and zircon. Cummingtonite occurs at the junction of hornblende and clinopyroxene in hornblende crystals, and also is occasionally formed as sole inclusions without clinopyroxene.	See Table I-10
377	4-h	Senca	Dacite	Phenocrysts of quartz (anhedral rounded, up to 5mm, including dark dusty substances and rarely muscovite) and albite (less abundant than quartz) are in a hyalopilitic groundmass with subordinate plagioclase, cristobalite and iron ore.	
389	4-k	Descanso	Dacitic tuff	Crystal fragments (up to 0.5mm in size) of quartz, sericitized biotite, plagioclase, apatite, hornblende and iron ore are in a argillaceous matrix partly showing perlitic texture.	
390	4-l	Ayabacas	Schistosed limestone	The rock is composed of calcite. Crystals of calcite are elongated and arranged with orientation. The rock seems to be affected by dynamical stress.	
394	4-m	Tacaza	Hypersthene bearing olivine-augite trachy andesite	Phenocrysts of olivine (euhedral, up to 0.5mm, entirely altered to chlorite), augite (euhedral, up to 1 mm, including magnetite, distinctly zoned), hypersthene (less abundant than augite, with pleochroism of colourless to pale green), hornblende (euhedral, up to 2mm, with pleochroism of pale greenish brown to greenish brown, zoned, thickly mantled by opacite), plagioclase ($Ab_{30}An_{70}$ to $Ab_{40}An_{60}$, euhedral, up to 1.5mm, twinned after albite and Carlsbad law, distinctly zoned) are in a intergranular to intersertal groundmass of lath-shaped plagioclase (about $Ab_{60}An_{40}$), augite and iron ore with subordinate anorthoclase, apatite and a little brown glass.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
400	5-m	Tacaza	Altered hypersthene-augite andesitic rock	Phenocrysts of augite (euhedral, up to 1 mm, including magnetite), hypersthene (euhedral to subhedral, up to 1 mm, with pleochroism of colourless to pale brown), plagioclase (about $Ab_{70}An_{30}$, subhedral, up to 1.5mm, intensely sericitized and/or albitized) and phenocrystic grains of magnetite (up to 2mm) are in a fine-grained and intersertal groundmass of lath-shaped plagioclase, pyroxene (wholly altered to sericite and carbonates), iron ore and microlites.	
406	5-n	Ayabacas	Dolomitic limestone	The rock is mainly composed of fine-grained and irregularly shaped dolomite and calcite.	
416	6-i	Intrusives	Hornblende granodiorite	The texture is hypidiomorphic and hornblende (with pale yellowish green to green, including magnetite, apatite and rare plagioclase), potash feldspar (orthoclase, partly sericitized), plagioclase (albite to acidic oligoclase, distinctly twinned after albite and Carlsbad law, partly sericitized) and microcline are the main constituent minerals. Iron ore, apatite and sphene are observed as the accessory minerals.	
418	6-i	Intrusives	Quartz monzonite porphyry	The texture is porphyritic. Phenocrysts of hornblende (euhedral, up to 2mm, with pleochroism of pale green to green, rimmed by colourless amphibole), plagioclase (generally euhedral, up to 5mm, twinned after albite and Carlsbad law, slightly altered to sericite or epidote), and potash feldspar (subhedral, up to 5mm, partly sericitized) are in a microgranitic groundmass of quartz, potash feldspar and plagioclase with accessory apatite and iron ore.	
420	6-i	Intrusives	Augite-hornblende granodiorite	The texture is hypidiomorphic and it is mainly composed of augite, green hornblende fairly sericitized, plagioclase (sericitized, oligoclase to andesine) and potash feldspar. Apatite and sphene occur as accessory minerals.	
422	6-j	Intrusives	Quartz monzonite porphyry	The rock is porphyritic and phenocrysts of psedomorphic hornblende (entirely altered to chlorite and/or sericite), potash feldspar (euhedral to subhedral, up to 5mm, partly sericitized), plagioclase (euhedral, up to 5mm, albite to acidic oligoclase, partly sericitized) and quartz (anhedral rounded, up to 1 mm) are in a micrograniitic groundmass of quartz, potash feldspar and plagioclase with accessory opaque minerals and apatite. Quartz veinlets fill the cracks.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
423	6-j	Intrusives	Monzonite porphyry	The rock shows a porphyritic texture. Phenocrysts of green hornblende (forming secondary biotite), potash feldspar (euhedral, up to 3mm), plagioclase (much less than orthoclase, euhedral up to 3mm) and a little quartz (anhedral, up to 2mm) are in a micrograniitic groundmass of quartz, potash feldspar, plagioclase and iron ore with accessory apatite and sphene. Apatite and sphene are generally euhedral and occasionally occur as the microphenocryst. Quartz veinlets fill the fine cracks of the rock. Feldspars are slightly sericitized.	
425	6-j	Ferrobomba	Garnet skarn	The major constituent mineral is granular garnet and a little actinolitic green-hornblende, sericite and opaque minerals are accompanied with garnet.	
430	6-j	Intrusives	Biotite monzonite porphyry	The rock shows porphyritic texture. Phenocrysts of biotite (euhedral, with pleochroism of pale yellowish brown to dark brown, partly opacitized and/or chloritized), potash feldspar and plagioclase (less abundant than potash feldspar, albite and a little oligoclase) are in a micrograniitic groundmass of quartz, potash feldspar and plagioclase with subordinate and microphenocrystic apatite. Feldspers are affected by albitization. Pyrite and chalcopyrite are disseminated.	
431	6-j	Intrusives	Biotite-hornblende granodiorite	The texture is hypidiomorphic. It consists of hornblende (rather ragged, forming secondary biotite due to break down, with pleochroism of pale green to green), biotite (with pleochroism of greenish brown to dark brown), potash feldspar and plagioclase (zoned and albitized, acidic oligoclase to albite) with accessory apatite, sphene and iron ore.	
436	6-m	Tacaza	Lapilli tuff	Crystal fragments (up to 0.5mm) of quartz, plagioclase, opaque minerals and mafic minerals (almost altered to chlorite and/or sericite) and lithic fragments (up to 3mm, andesite and rhyolite) are cemented by argillaceous matrix.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
438	7-h	Tacaza	Olivine bearing biotite dacite	Phenocrysts of biotite (euhedral columnar, up to1.5mm, thickly surrounded by opacite), plagioclase (euhedral columnar, up to 3mm, distinctly zoned, twinned after albite and Carlsbad law) and a little olivine (subhedral, up to 0.3mm, rimmed by opacite) are in a fine-grained and intersertal groundmass of lath-shaped and albitized plagioclase, cristobalite, microlite, iron ore and brown glass. Phenocrysts of plagioclase have many inclusions such as apatite and dark dusty substances. Clay minerals and adularia are often formed in drusy cavities. The alteration is advanced.	
441	7-h	Tacaza	Olivine trachybasalt	Phenocrysts of olivine (euhedral tabular or elongated parallel to c-crystallographic axis, up to 4mm, often ragged by magmatic corrosion and commonly including octahedral magnetite) are in a medium-grained, intergranular and percrystalline groundmass of lath-shaped plagioclase, olivine, augite, hypersthene and iron ore with subordinate anorthoclase and apatite. Large xenocryst of plagioclase (up to 4mm in size), surrounded by minute grains of augite, is recognized. The rock may be mugearite. The composition of plagioclase of the groundmass is about $Ab_{60}An_{40}$.	
442	7-h	Tacaza	Olivine trachybasalt	Phenocrysts of olivine (euhedral, up to 1 mm, almost wholly altered to iddingsite) are in a coarse-grained and intergranular groundmass of lath-shaped plagioclase (about $Ab_{40}An_{60}$), olivine (almost altered to iddingsite), augite and anorthoclase with subordinate iron ore, apatite and little brown glass. The reaction between olivine and augite is not recognized. Adularia is formed in the drusy cavities.	See Table I-10
443	7-h	Senecca	Biotite dacite	Phenocrysts of biotite (euhedral prismatic, up to 1 mm, with pleocrosim of pale brown to dark brown) and plagioclase (euhedral, up to 0.7mm, $Ab_{55}An_{45}$ to $Ab_{65}An_{35}$) are in a fine-grained and hyalopilitic groundmass of plagioclase (about $Ab_{70}An_{30}$), brown glass, cristobalite, iron ore and microlite. Cristobalite also occur in drusy cavities.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
446	7-i	Tacaza	Olivine-augite (alkali) basalt	Phenocrysts of olivine (euhedral tabular or elongated parallel to c-crystallographic axis, up to 4mm, slightly altered to chlorite), augite (euhedral prismatic, up to 0.7mm, distinctly zoned and occasionally showing hour-glass structure) and plagioclase (not abundant, euhedral, zoned, twinned after albite and Carlsbad law) are in a medium-grained, intergranular and holocrystalline groundmass of lath-shaped plagioclase ($Ab_{40}An_{60}$), augite, olivine and iron ore with subordinate anorthoclase, K-rich plagioclase, apatite and biotite.	See Table I-10
448	7-i	Tacaza	Olivine-analcite (alkali) basalt	Phenocrysts of pseudomorphic olivine (entirely altered to carbonates and opacite but remaining euhedral crystal form), plagioclase (euhedral, up to 6mm, about $Ab_{40}An_{60}$) and granular analcite are in a almost holocrystalline and intergranular groundmass of lath-shaped plagioclase (about $Ab_{60}An_{40}$), carbonates after olivine, intensely carbonatized augite and iron ore with subordinate anorthoclase, K-rich plagioclase and brown glass. Analcite and other zeolites occur in drusy cavities.	
452	7-j	Intrusives	Granite porphyry	The rock shows porphyritic texture, and phenocrysts of potash feldspar (euhedral, up to 2mm, sericitized), plagioclase (euhedral, up to 2mm, sericitized) are in a microgranitic matrix composed of potash feldspar, (altered to clay minerals), quartz, plagioclase (albitized and also altered to clay minerals) and iron ore. Apatite and iron ore occur as accessory minerals of phenocrysts. Mafic minerals are not recognized in the observed section.	
453-(1)	7-j	Intrusives	Quartz monzonite porphyry	Abundant phenocrysts of potash feldspar and a little phenocrysts of plagioclase and quartz are in a microgranitic groundmass of potash feldspar, plagioclase, quartz and iron ore with accessory apatite and sphene. Phenocrysts of feldspar are euhedral columnar and up to 3mm in size, and are altered partly to sericite and/or carbonates. Phenocrysts of quartz are generally rounded.	
453-(2)	7-j	Intrusives	Porphyritic monzonite	The rock shows a porphyritic texture. Phenocrysts of potash feldspar (columnar, up to 5mm), plagioclase (columnar, up to 5mm, distinctly zoned, twinned albite and Carlsbad law characterized especially by polysynthetic twinning) and biotite (subhedral columnar, up to 0.5mm) are in a fine-grained and microgranitic groundmass of plagioclase, iron ore and apatite.	

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
453-(3)	7-j	Intrusives	Quartz monzonite porphyry	The rock shows a porphyritic texture. Phenocrysts of biotite (columnar to prismatic, up to 0.5mm), potash feldspar (euhedral columnar, up to 2mm), plagioclase (euhedral, up to 2mm, distinctly zoned) and anhedral quartz are in a microgranitic groundmass of potash feldspar, quartz, plagioclase and opaque minerals with accessory apatite. Feldspar are intensively altered to sericite and/or carbonates, and the groundmass also slightly carbonatized.	
453-(4)	7-j	Intrusives	Monzonite porphyry	Phenocrystic crystals of potash feldspar and a little plagioclase are in a microgranular groundmass of potash feldspar, quartz, plagioclase and opaque minerals with accessory sphene and apatite. The alteration is rather advanced; feldspars are sericitized and/or carbonatized, and secondary carbonates fill the cracks.	
453-(5)	7-j	Intrusives	Quartz monzonite porphyry	The rock shows a porphyritic texture. Phenocrysts of potash feldspar, plagioclase (much less than potash feldspar) and a little quartz are in a microgranitic groundmass of potash feldspar, quartz, plagioclase and opaque minerals with accessory apatite. Feldspars are strongly altered to sericite and/or carbonates. Opaque minerals are often present as the phenocrysts.	
453-(6)	7-j	Intrusives	Altered porphyritic monzonite	Phenocrysts of feldspars (wholly altered to sericite and carbonates) hornblende (with opacite margin, perfectly altered to sericite and carbonates) and biotite (perfectly altered to sericite and opacite) are in a microgranitic and altered groundmass.	See Table I-10 and I-18
453-(7)	7-j	Intrusives	Porphyritic monzonite	Phenocrysts of potash feldspar (weakly altered to carbonate), plagioclase (rarely altered to carbonate), biotite (fairly altered to chlorite) and hornblende (perfectly altered to carbonate and marginally opacitized) are in a microgranitic groundmass of plagioclase, potash feldspar, quartz and opaque minerals.	See Table I-10 and I-18
455	7-k	Intrusives	Biotite-olivine-cummingtonite bearing hornblende gabbro	The rock shows a medium-grained, and hypidiomorphic texture. The main constituent minerals are plagioclase (subhedral, up to 3mm but usually 1.5 mm, zoned especially in the comparatively large crystals), hornblende (subhedral columnar, poikilitically including fine crystals of olivine, clinopyroxene and cummingtonite, with a pleochroism of Z=brown, Y=yellowish brown, X=pale brown) and clinopyroxene (anhedral, always occurring as a inclusion of hornblende). The minor or accessory minerals are cummingtonite, olivine, biotite, sphene, apatite, iron ore (magnetite and hematite) and chlorite.	See Table I-10 and I-18

Sample No.	Location	Formation	Rock	Microscopic observations	Remarks
459	7-k	Intrusives	Hornblende-biotite monzonite porphyry	The rock is somewhat porphyritic. Phenocrysts of potash feldspar (euhedral, up to 4mm), plagioclase (less abundant than potash feldspar, euhedral, up to 4mm), brown biotite (columnar, up to 1 mm) and green hornblende (subhedral ragged, up to 1 mm) are in a micro-granitic groundmass of quartz, potash feldspar, plagioclase and iron ore with accessory apatite and sphene.	
461	7-k	Intrusives	Biotite granodiorite	The rock is composed of plagioclase (basic oligoclase), potash feldspar, interstitial quartz, biotite and a little hornblende with accessory apatite and opaque minerals.	
464	7-n	Puno	Rhyolite	Phenocrysts are quartz and plagioclase. Groundmass is composed of feldsper spherulites.	
466	7-n	Puno	Tuffaceous sandstone	The rock is made up of crystal fragments (up to 0.3 mm in size) of quartz, biotite, carbonate, sericite, chlorite, hornblende and opaque minerals. Hornblende and some of feldsper show euhedral crystal form but the others are rounded.	
468	7-k	Intrusives	Biotite-hornblende porphyritic monzonite	The rock shows a porphyritic texture. Phenocrysts of green horn-blende (subhedral prismatic, up to 3mm, including magnetite), potash feldspar (euhedral columnar, up to 3mm), plagioclase (oligoclase, euhedral columnar, up to 3mm) and quartz (a little in amount, anhedral, 1 mm) are in a micrograniatic groundmass of quartz, potash feldspar, plagioclase, biotite (formed due to the breakdown of hornblende) and opaque minerals with accessory apatite and sphene. Some crystals of apatite and sphene are microphenocrystic.	
469-(1)	7-i	Intrusives	Biotite-hornblende monzonite porphyry	The texture is porphyritic. Phenocrysts of potash feldspar, plagioclase, biotite and hornblende are in a microgranitic groundmass of quartz, plagioclase and potash feldsper with accessory apatite and opaque minerals. Plagioclase and hornblende are fairly altered to sericite and/or epidote. A little secondary biotite are formed due to the bearkdown of hornblende.	
469-(2)	7-i	Intrusives	Hornblende-biotite quartz monzonite porphyry	The texture is porphyritic. Phenocrysts of potash feldspar, green hornblende, green biotite, plagioclase and quartz are in a micro-granitic groundmass composed mainly of plagioclase, potash feldspar and quartz. Feldspars are rather strongly altered to sericite and/or epidote, and mafic minerals are also altered to chlorite and epidote. Microphenocrystic opaque minerals and apatite are present.	

Table I-9 Microphotographs

Thin section

	Sample No.	Rock name	Location
(1)	1	Granodiorite	1-a
(2)	9	Quartz diorite	1-b
(3)	27	Trachyte	1-d
(4)	40	Dacite	1-g
(5)	43	Dacite	2-a
(6)	49	Limestone	2-b
(7)	58	Basalt	2-d
(8)	79	Trachyte	2-e
(9)	142	Rhyolite	5-a
(10)	275	Andesite	7-e
(11)	280	Massive tuff	7-g
(12)	316	Sandstone	1-k
(13)	349	Granodiorite	3-h
(14)	350	Monzonite	3-h
(15)	376	Granodiorite	4-h
(16)	394	Andesite	4-m
(17)	430	Granite porphyry	6-j
(18)	442	Basalt	7-h
(19)	453	Monzonite	7-j
(20)	455	Gabbro	7-k

Polished section

(21)	20	Sandstone	1-d
(22)	361	Magnetite ore	3-h
(23)	361	Magnetite ore	3-h
(24)	430	Granite porphyry	6-j
(25)	453	Monzonite	7-j
(26)	469	Garnet skarn	7-i

(1)

Sample No. 1.
Granodiorite
Location 1-a

Pl : plagioclase
Bi : biotite
Q : quartz

Scale 0 — 0.5 mm

Crossed nicols

(2)

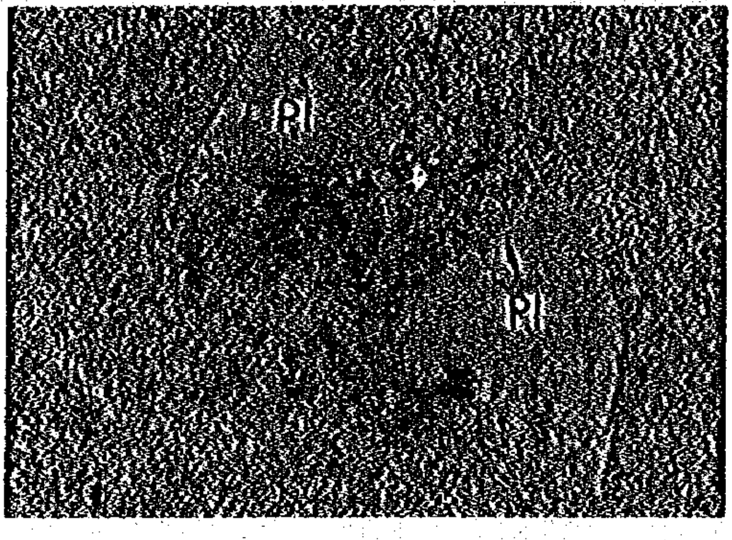
Sample No. 9.
Quartz diorite
Location 1-b

Hb : hornblende
Bi : biotite
Ep : epidote
Pl : plagioclase
Q : quartz

Scale 0 — 1 mm

Crossed nicols

(3)



Sample No. 27.
Trachyte
Location 1-d

Pl : plagioclase

Scale 0 0.5 mm

Open nicol

(4)

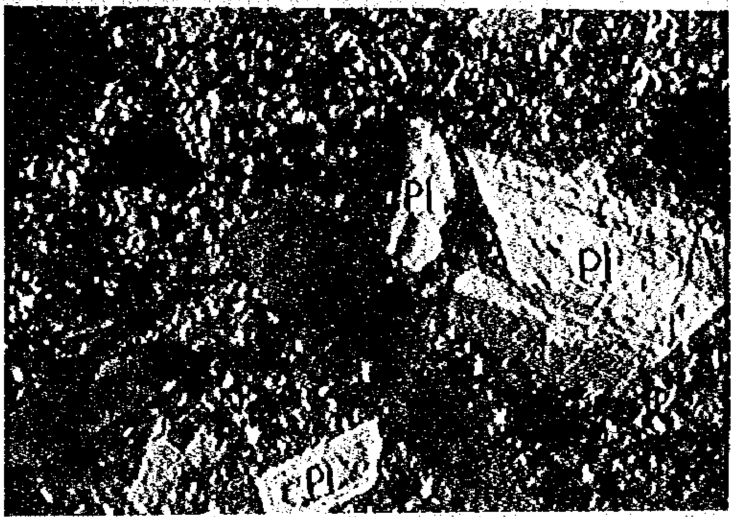
Sample No. 40.
Dacite
Location 1-g

Pl : plagioclase
Bi : biotite
Mt : magnetite

Scale 0 1 mm

Crossed nicols

(5)



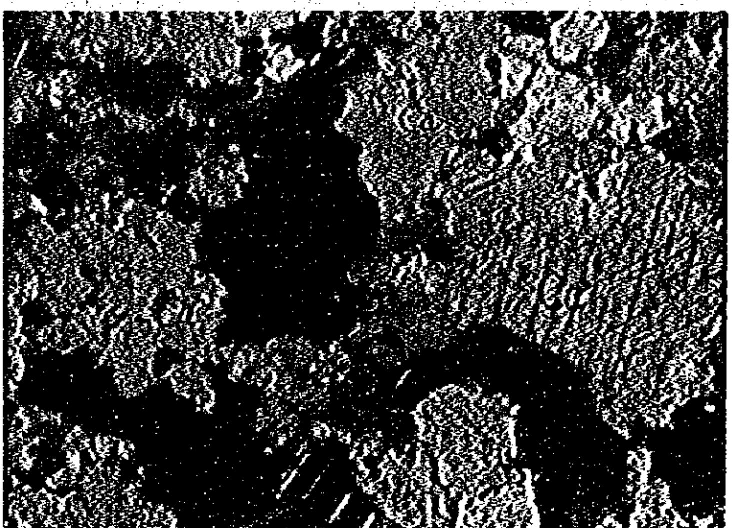
Sample No. 43.
Dacite
Location 2-a

Pl : plagioclase
Bi : biotite

Scale 0 0.5 mm

Crossed nicols

(6)



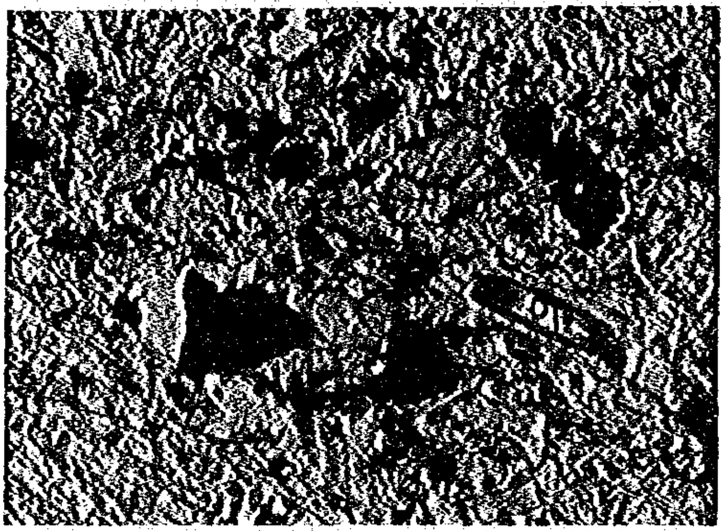
Sample No. 49.
Limestone
Location 2-b

Ca : calcite

Scale 0 0.5 mm

Crossed nicols

(7)



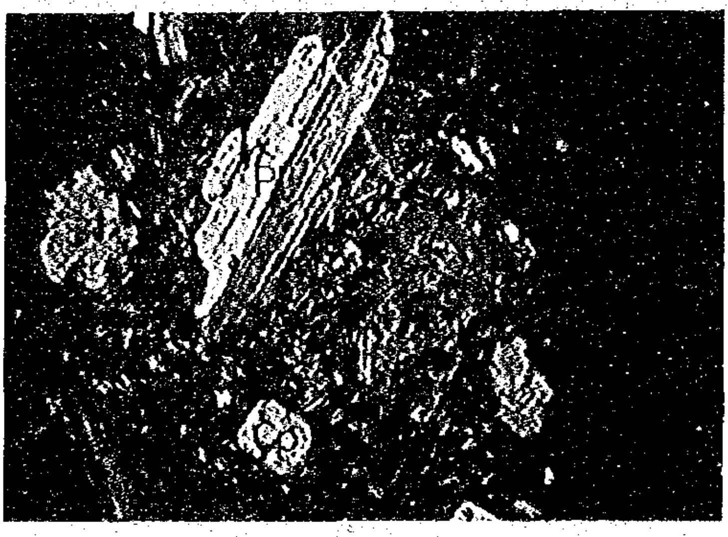
Sample No. 58.
Basalt
Location 2-d

Ol : olivine
Cp : clinopyroxene
Pl : plagioclase

Scale 0 0.5 mm

Open nicol

(8)



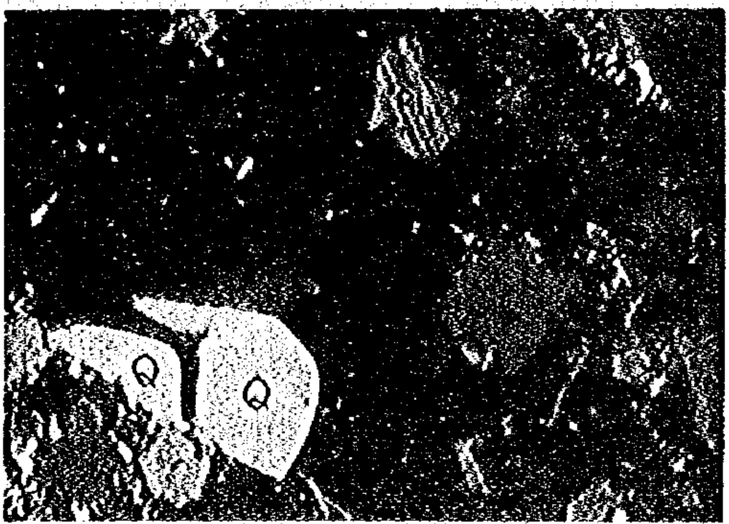
Sample No. 79.
Trachyte
Location 2-e

Cp : clinopyroxene
Bi : biotite
Pl : plagioclase

Scale 0 1 mm

Crossed nicols

(9)



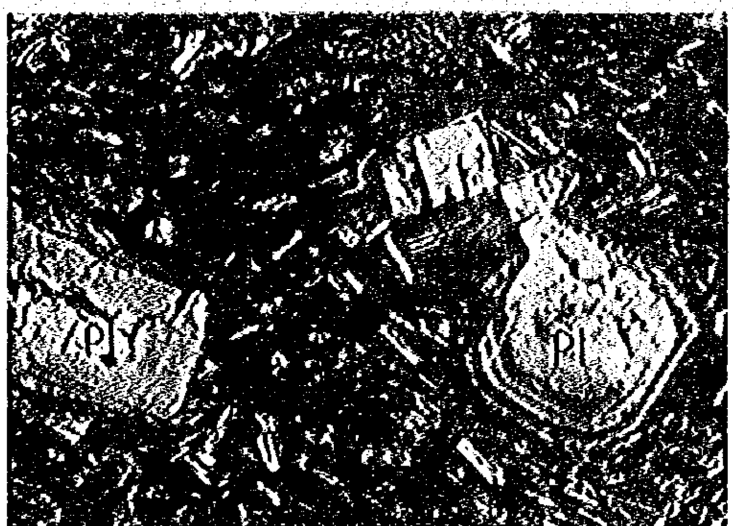
Sample No. 142.
Rhyolite
Location 5-a

Bi : biotite
Pl : plagioclase
Q : quartz

Scale 0 ——— 0.5 mm

Crossed nicols

(10)



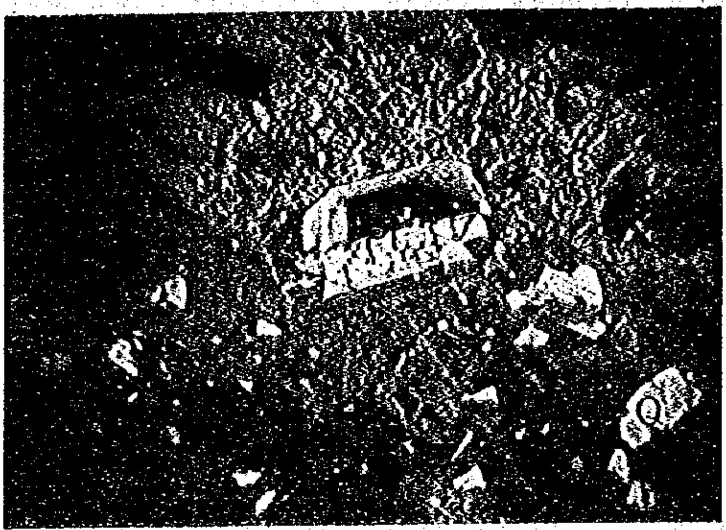
Sample No. 275.
Andesite
Location 7-e

Hb : hornblende
Pl : plagioclase

Scale 0 ——— 0.5 mm

Crossed nicols

(11)



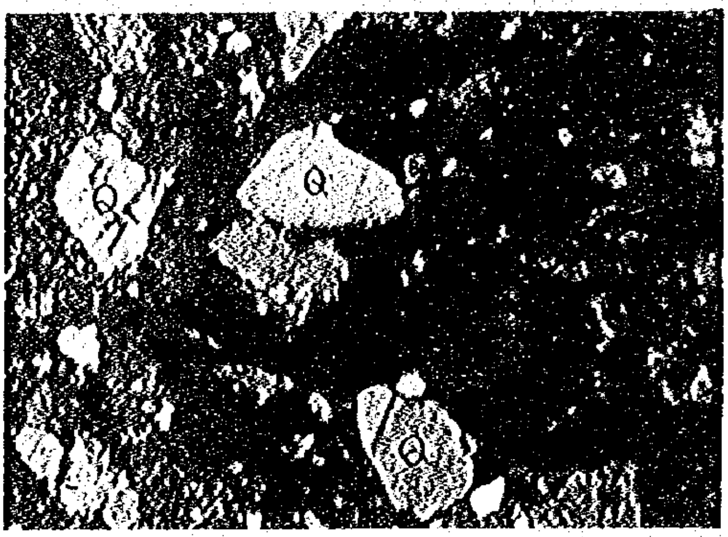
Sample No. 280.
Massive tuff
Location 7-g

Pl : plagioclase
Bi : biotite
Q : quartz

Scale 0 1 mm

Crossed nicols

(12)



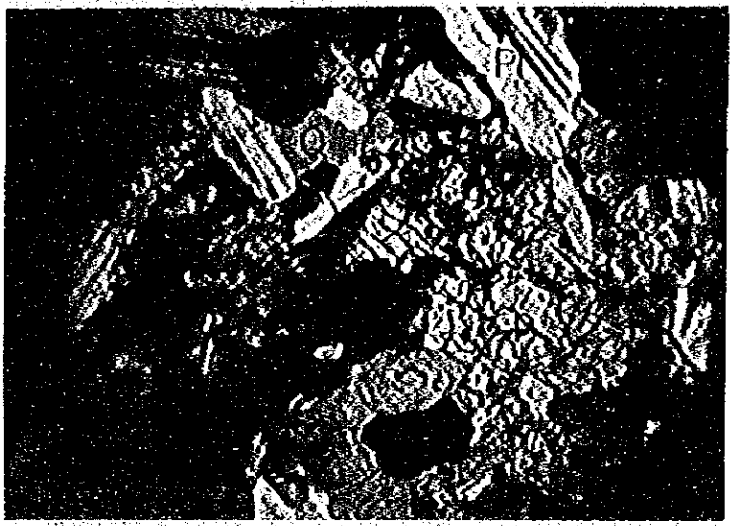
Sample No. 316.
Sandstone
Location 1-k

Pl : plagioclase
Bi : biotite
Q : quartz

Scale 0 0.5 mm

Crossed nicols

(13)



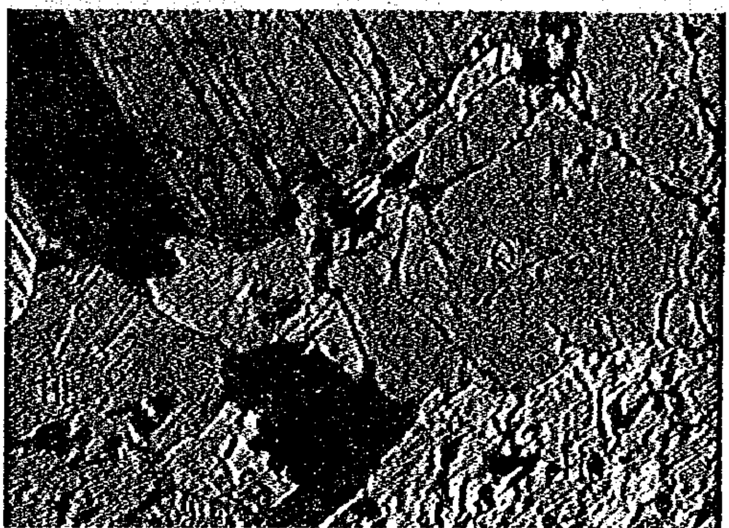
Sample No. 349.
Granodiorite
Location 3-h

Cp : clinopyroxene
Hb : hornblende
Bi : biotite
Pl : plagioclase
Q : quartz
Mt : magnetite

Scale 0 ——— 1 mm

Crossed nicols

(14)



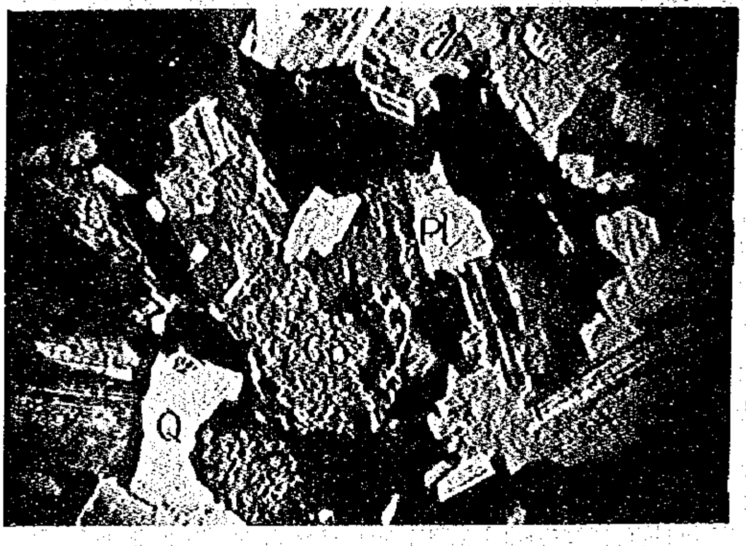
Sample No. 350.
Monzonite
Location 3-h

Hb : hornblende
Pl : plagioclase
Q : quartz

Scale 0 ——— 0.5 mm

Crossed nicols

(15)



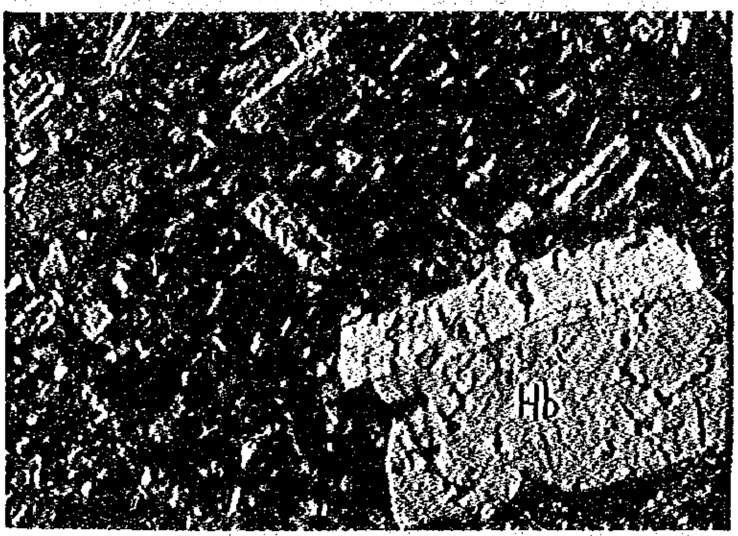
Sample No. 376.
Granodiorite
Location 4-h

Hb : hornblende
Cp : clinopyroxene
Ct : cummingtonite
Bi : biotite
Pl : plagioclase
Q : quartz

Scale 0 1 mm

Crossed nicols

(16)



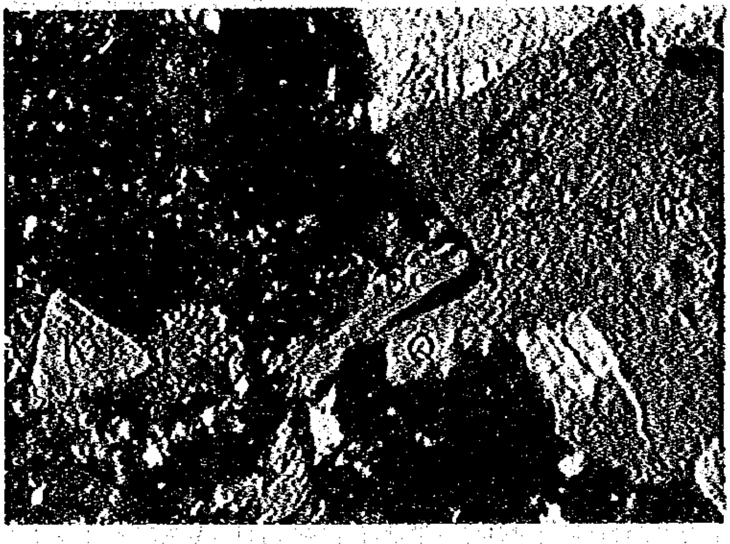
Sample No. 394.
Andesite
Location 4-m

Hb : hornblende
Pl : plagioclase

Scale 0 0.5 mm

Crossed nicols

(17)



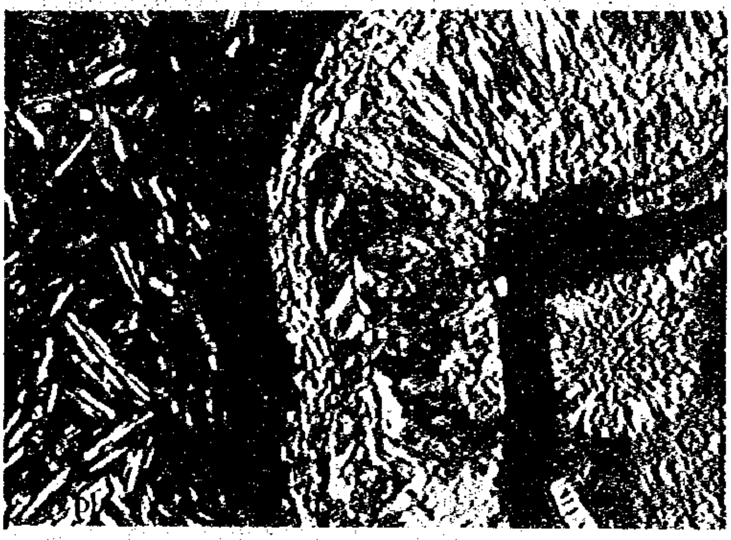
Sample No. 430.
Granite porphyry
Location 6-j

X : K-feldspar
Bi : biotite
Q : quartz

Scale 0 ——— 0.5 mm

Crossed nicols

(18)



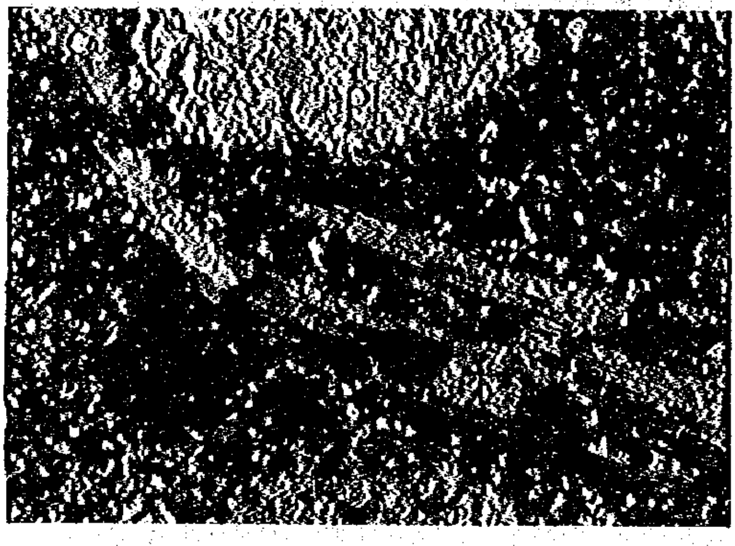
Sample No. 442.
Basalt
Location 7-h

Z : zeolite
Ol : olivine
Pl : plagioclase

Scale 0 ——— 0.5 mm

Crossed nicols

(19)



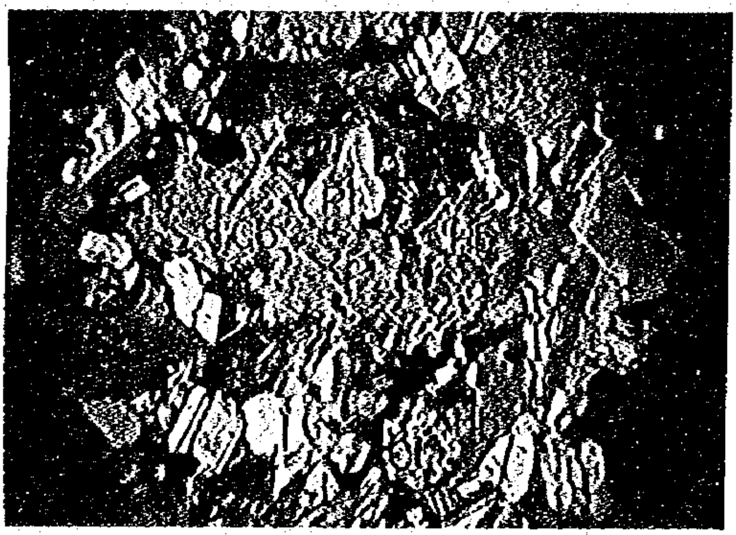
Sample No. 453.
Monzonite
Location 7-j

Wm : white mica
Pl : plagioclase
Ca : calcite

Scale 0 0.5 mm

Crossed nicols

(20)



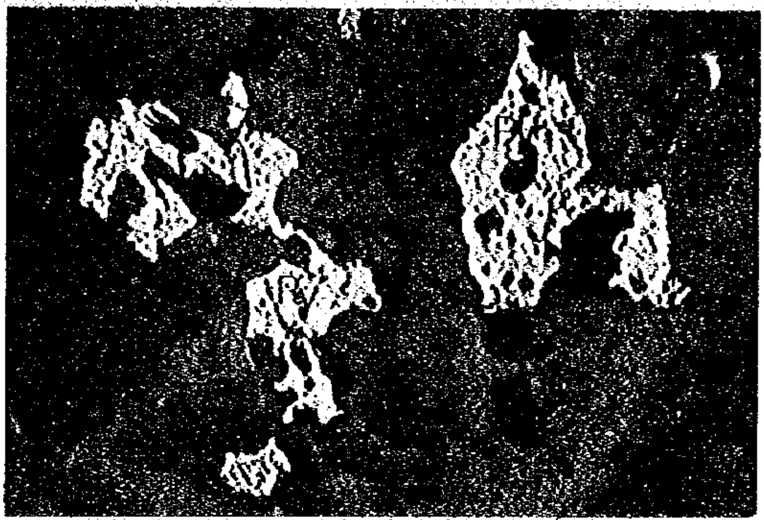
Sample No. 455.
Gabbro
Location 7-k

Hb : hornblende
Cp : clinopyroxene
Ct : cummingtonite
Pl : plagioclase

Scale 0 1 mm

Crossed nicols

(21)



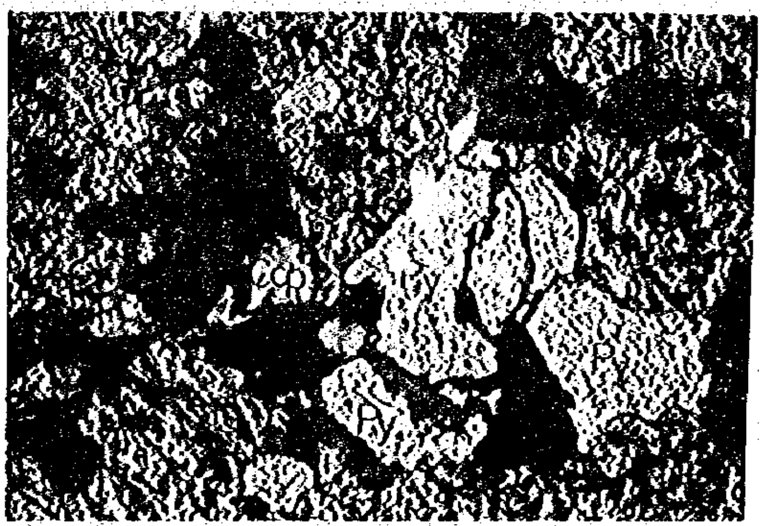
Sample No. : 20.
Disseminated pyrite
Country rock : Sandstone
Location : 1-d

Py : pyrite

Scale 0 0.5 mm

Open nicol

(22)



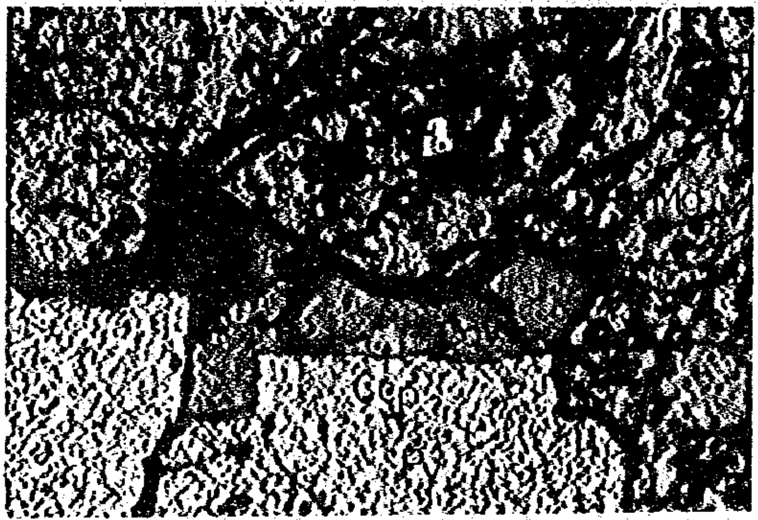
Sample No. : 361.
Pyrite chalcopyrite
bearing magnetite ore
Location : 3-h

Ccp : chalcopyrite
Py : pyrite
Mg : magnetite

Scale 0 0.5 mm

Open nicol

(23)



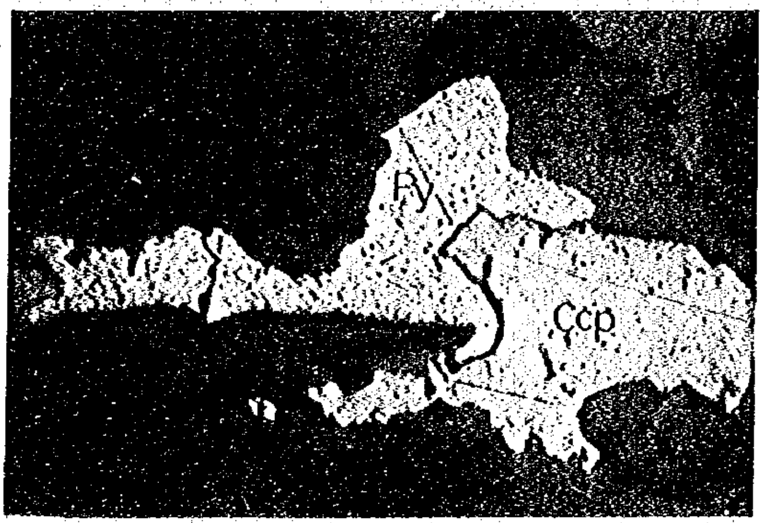
Sample No. : 361.
Pyrite chalcopyrite bearing magnetite ore
Location : 3-h

Py : pyrite
Ccp : chalcopyrite
Cov : covellite
Mg : magnetite

Scale 0 0.2 mm

Open nicol

(24)



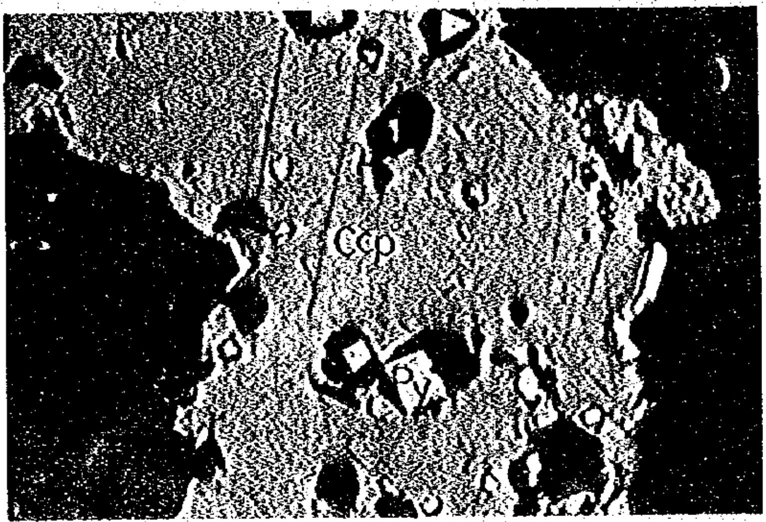
Sample No. : 430.
Disseminated pyrite and chalcopyrite
Country rock : Granite porphyry
Location : 6-j

Py : pyrite
Ccp : chalcopyrite

Scale 0 0.5 mm

Open nicol

(25)



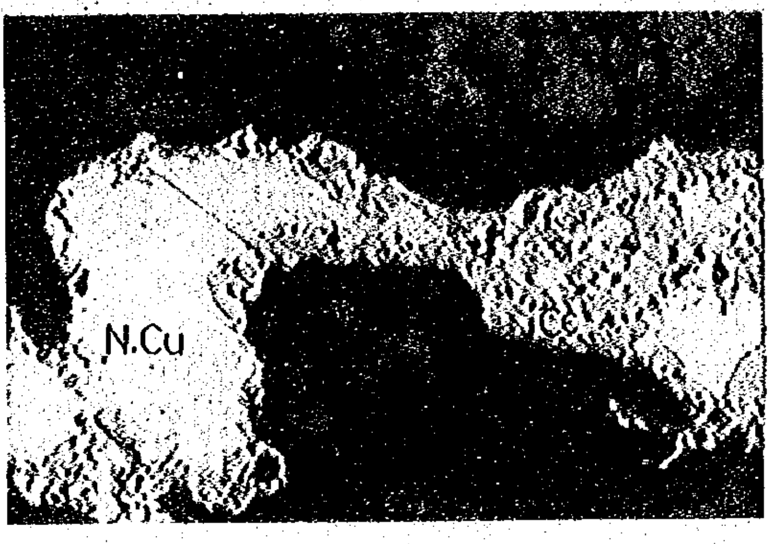
Sample No. : 453.
Disseminated copper ore
Country rock : Monzonite
Location : 7-j

Ccp : chalcopyrite
Py : pyrite

Scale 0 0.2 mm

Open nicol

(26)



Sample No. : 469.
Secondary enrichment ore
Country rock : Garnet skarn
Location : 7-i

N.Cu : Native copper
Cc : chalcocite

Scale 0 0.2 mm

Open nicol

Table 1-10 Chemical Analysis of Rocks

No.	142	280	21	453-(7)	246	40	25
Rock Name	Rhyolite	Massive tuff	Trachyte	Porphyritic monzonite	Porphyritic trachyte	Trachyte	Trachyte
Locality	5-a	7-g	1-d	7-j	7-b	1-g	1-d
SiO_2	78.06	68.96	67.02	65.12	64.90	64.81	64.74
TiO_2	0.21	0.40	0.64	0.17	0.72	0.88	0.73
Al_2O_3	12.49	16.02	16.76	18.16	16.82	16.36	16.24
Fe_2O_3	0.77	2.01	2.59	0.43	3.10	2.17	2.91
FeO	0.09	0.25	0.37	0.77	0.49	0.65	0.43
MnO	0.06	0.07	0.03	0.04	0.04	0.02	0.06
MgO	0.08	0.40	0.36	0.36	0.40	0.72	0.82
CaO	0.18	2.01	1.16	2.56	2.90	2.06	2.04
Na_2O	3.03	4.12	5.84	5.82	4.38	3.49	5.62
K_2O	3.79	4.84	4.62	2.83	3.83	4.20	4.24
P_2O_5	0.01	0.08	0.07	2.16	0.27	0.29	0.19
H_2O (+)	0.92	0.97	0.54	1.03	1.78	3.19	0.89
H_2O (-)	0.41	0.08	0.50	0.22	0.53	0.74	0.39
Total	100.10	100.21	100.50	99.67	100.16	99.58	99.30
MgO	1.0	3.5	2.7	3.5	3.4	6.5	6.0
FeO	10.2	18.0	20.0	11.4	27.6	23.6	22.2
$(Na,K)_2O$	88.8	78.5	77.3	85.1	69.0	69.9	71.8
Q	45.60	22.32	12.66	14.58	18.66	23.88	11.16
C	3.16	0.82	0.31	1.43	0.92	3.16	
or	22.24	28.36	27.24	16.68	22.80	25.02	25.02
ab	25.68	34.58	49.26	49.27	37.20	29.34	47.68
an	0.56	8.90	5.00	11.12	12.23	7.78	6.39
lc							
ne							
Sal. total	(97.24)	(94.98)	(94.47)	(93.08)	(91.81)	(89.18)	(90.25)
ac							
wo							0.93
en	0.20	1.00	0.90	0.90	1.00	1.80	2.10
fs				0.92			
fo							
fa							
mt				0.70			
hm	0.80	2.08	2.56		3.04	2.24	2.88
il	0.30	0.61	0.76	0.30	1.22	1.37	1.06
ap		0.34		0.67	0.67	0.67	0.34
tl	0.20	0.20	0.59		0.20	0.39	0.39
Fem. total	(1.50)	(4.23)	(4.81)	(3.49)	(6.13)	(6.47)	(7.70)
Or	45.9	39.5	33.4	21.6	31.6	40.3	31.6
Ab	53.0	48.1	60.5	63.9	51.5	47.2	60.3
An	1.1	12.4	6.1	14.5	16.9	12.5	8.1
D. I.	93.52	85.26	89.16	80.53	78.66	78.24	83.86

No.	302	453-(6)	101	62	69	395	289
Rock Name	Porphyritic trachyte	Monzonite	Trachy-andesite	Trachy andesite	Trachyte	Sandy tuff	Trachyte
Locality	1-h	7-j	3-c	2-d	2-d	5-i	1-h
SiO_2	63.82	62.23	62.16	62.14	61.91	61.81	61.74
TiO_2	0.96	0.56	1.24	0.79	0.97	0.17	1.01
Al_2O_3	14.96	17.72	15.61	16.68	15.55	14.84	16.76
Fe_2O_3	5.56	0.98	6.06	3.90	4.61	1.31	3.76
FeO	0.16	0.85	0.22	0.67	0.56	0.10	0.26
MnO	0.03	0.08	0.03	0.01	0.05	0.01	0.03
MgO	1.00	0.49	0.30	2.15	1.87	0.21	0.38
CaO	2.49	2.71	3.10	3.57	4.58	0.90	4.01
Na_2O	3.78	2.94	5.16	5.61	5.58	3.28	5.71
K_2O	3.89	5.38	3.27	3.30	3.42	6.15	3.96
P_2O_5	0.20	3.79	0.09	0.13	0.18	0.01	0.10
$H_2O(+)$	1.90	1.74	1.19	0.92	0.80	3.26	0.98
$H_2O(-)$	0.55	0.13	0.77	0.68	0.06	8.05	0.51
Total	99.30	99.60	99.23	100.58	100.17	100.13	99.24
MgO	7.2	4.7	2.1	14.1	12.0	1.9	2.8
FeO	37.3	16.4	39.4	27.4	30.4	11.7	26.6
$(Na,K)_2O$	55.5	78.9	58.5	58.5	57.6	86.4	70.6
Q	21.30	18.66	13.98	7.92	7.44	17.10	6.96
C	1.43	2.55				1.12	
or	22.80	31.69	19.46	19.46	20.02	36.14	23.35
ab	31.96	24.63	43.49	47.16	47.16	27.77	48.21
an	8.62	12.51	9.73	10.84	7.23	4.45	8.34
lc							
ne							
Sal. total	(86.11)	(90.01)	(86.66)	(85.38)	(81.85)	(86.58)	(86.86)
ac							
wo			0.46	2.55	5.80		3.48
en	2.50	1.20	0.80	5.40	4.70	0.50	1.00
fs							
fo							
fa							
mt		1.32					
hm	5.60		6.08	3.84	4.61	1.28	3.84
il	0.30	1.06	0.46	1.52	1.37	0.30	0.61
ap	0.34	0.34	0.34	0.34	0.34		0.34
ti	1.96		2.55		0.59		1.76
Fem. total	(10.70)	(3.92)	(10.69)	(13.65)	(17.44)	(2.08)	(11.03)
Or	36.0	46.0	26.8	25.1	26.9	52.9	29.2
Ab	50.4	35.8	59.8	60.9	63.4	40.6	60.3
An	13.6	18.2	13.4	14.0	9.7	6.5	10.5
D.I.	76.06	74.98	76.93	74.54	74.62	81.01	78.52

No.	125	61	83	79	148	7	243
Rock Name	Trachy andesite	Porphyritic trachyte	Trachyte	Trachyte	Trachy andesite	Granodiorite	Trachy andesite
Locality	4-d	2-d	2-e	2-e	5-b	1-b	7-b
SiO_2	61.28	61.17	61.03	60.97	60.78	60.76	60.34
TiO_2	1.15	1.22	1.18	1.04	1.13	1.11	0.77
Al_2O_3	14.53	14.93	16.07	16.42	15.50	14.50	17.93
Fe_2O_3	7.87	5.62	5.11	2.84	5.95	2.32	6.07
FeO	0.25	0.46	1.03	2.05	0.57	2.56	0.05
MnO	0.08	0.06	0.06	0.10	0.08	0.07	0.65
MgO	0.75	2.13	1.52	2.61	1.63	1.43	0.49
CaO	5.38	2.95	3.74	4.13	4.57	7.84	4.20
Na_2O	4.20	4.05	4.63	4.18	4.76	5.01	4.67
K_2O	2.19	3.05	3.44	4.36	2.92	3.22	3.03
P_2O_5	0.55	0.08	0.44	0.35	0.19	0.54	0.20
H_2O (+)	1.01	2.89	1.26	0.79	1.17	0.72	1.48
H_2O (-)	0.33	0.52	0.32	0.42	0.19	0.36	0.30
Total	99.57	99.13	99.83	100.26	99.44	100.44	100.18
MgO	5.2	14.5	10.0	16.6	10.7	10.0	3.6
FeO	50.7	37.4	37.0	29.2	38.9	32.5	40.2
$(Na,K)_2O$	44.1	48.1	53.0	54.2	50.4	57.5	56.2
Q	19.32	17.58	12.24	9.48	12.06	7.50	12.66
C		0.71					
or	12.79	17.79	20.57	25.58	17.24	18.90	17.79
ab	35.63	34.06	39.30	35.11	40.35	42.44	39.30
an	14.18	11.68	12.79	13.34	12.23	7.51	19.18
lc							
ne							
Sal. total	(81.92)	(81.82)	(84.90)	(83.51)	(81.88)	(76.35)	(88.93)
ac							
wo	2.55		1.28	2.24	3.48	11.60	0.35
en	1.90	5.30	3.80	6.50	4.10	3.60	1.20
fs						1.06	
fo							
fa							
mt				3.71		3.48	
hm	7.84	5.60	5.12	0.32	5.92		6.08
il	0.61	1.06	2.28	1.98	1.37	2.13	1.52
ap	1.34	0.34	1.01	0.67	0.34	1.34	0.34
ti	1.96	1.57			0.98		
Fem. total	(16.20)	(13.87)	(13.49)	(15.42)	(16.19)	(23.21)	(9.49)
Or	20.4	28.0	28.3	34.6	24.7	27.5	23.3
Ab	56.9	53.6	54.1	47.4	57.8	61.6	51.5
An	22.7	18.4	17.6	18.0	17.5	10.9	25.2
D.I.	67.74	69.43	72.11	70.17	69.65	68.84	69.75

No.	22	376	19	51	87	9	203
Rock Name	Trachyte	Granodiorite	Quartz diorite	Trachy andesite	Porphyritic trachyte	Quartz diorite	Trachy andesite
Locality	1-d	4-h	1-d	2-b	2-g	1-b	6-b
SiO_2	59.97	59.87	59.48	59.28	59.08	58.46	58.40
TiO_2	1.02	0.86	0.81	0.99	0.94	0.63	0.96
Al_2O_3	14.58	16.25	16.02	17.83	17.43	17.81	16.32
Fe_2O_3	7.02	2.35	4.14	6.16	5.06	2.56	6.63
FeO	0.52	4.63	3.43	0.29	1.20	4.30	0.65
MnO	0.10	0.13	0.16	0.03	0.06	0.14	0.05
MgO	1.31	2.74	2.44	0.50	1.19	2.73	0.78
CaO	3.55	5.74	7.48	1.56	3.26	5.95	6.06
Na_2O	5.86	3.64	3.99	4.91	4.06	3.32	4.53
K_2O	3.58	2.26	1.31	4.66	3.71	1.73	2.72
P_2O_5	0.42	0.11	0.14	0.15	0.21	0.21	0.28
$H_2O(+)$	0.82	1.55	0.44	2.02	1.47	1.29	1.51
$H_2O(-)$	1.24	0.02	0.13	0.80	1.93	0.39	0.41
Total	99.99	100.15	99.97	99.18	99.60	99.52	99.30
MgO	7.4	17.8	16.4	3.1	8.1	19.0	5.3
FeO	38.9	43.9	48.0	36.7	39.1	45.9	45.2
$(Na.K)_2O$	53.7	38.3	35.6	60.2	52.8	35.1	49.5
Q	6.36	12.90	14.28	9.54	13.26	13.80	10.92
C				2.96	1.22		
or	21.13	13.34	7.78	27.80	21.68	10.01	16.12
ab	49.78	30.92	33.54	41.40	34.06	28.30	38.25
an	2.78	21.13	21.96	4.73	15.29	28.63	16.12
lc							
ne							
Sal. total	(80.05)	(78.29)	(77.56)	(86.43)	(85.51)	(80.74)	(81.41)
ac							
wo	4.41	2.74	6.03				4.76
en	3.30	6.90	6.10	1.30	3.00	6.80	2.00
fs		5.28	1.85			5.02	
fo							
fa							
mt		3.48	6.03		1.39	3.71	
hm	7.04			6.24	4.16		6.56
il	1.22	1.67	1.52	0.61	1.82	1.23	1.52
ap	1.01	0.34	0.34	0.34	0.34	0.34	0.67
ti	0.98			1.57			0.39
Fem. total	(17.96)	(20.41)	(21.87)	(10.06)	(10.71)	(17.10)	(15.90)
Or	28.7	20.4	12.3	37.6	30.5	15.0	22.9
Ab	67.5	47.3	53.0	56.0	48.0	42.3	54.3
An	3.8	32.3	34.7	6.4	21.5	42.7	22.8
D.I.	77.27	57.16	55.60	78.74	69.00	52.11	65.29

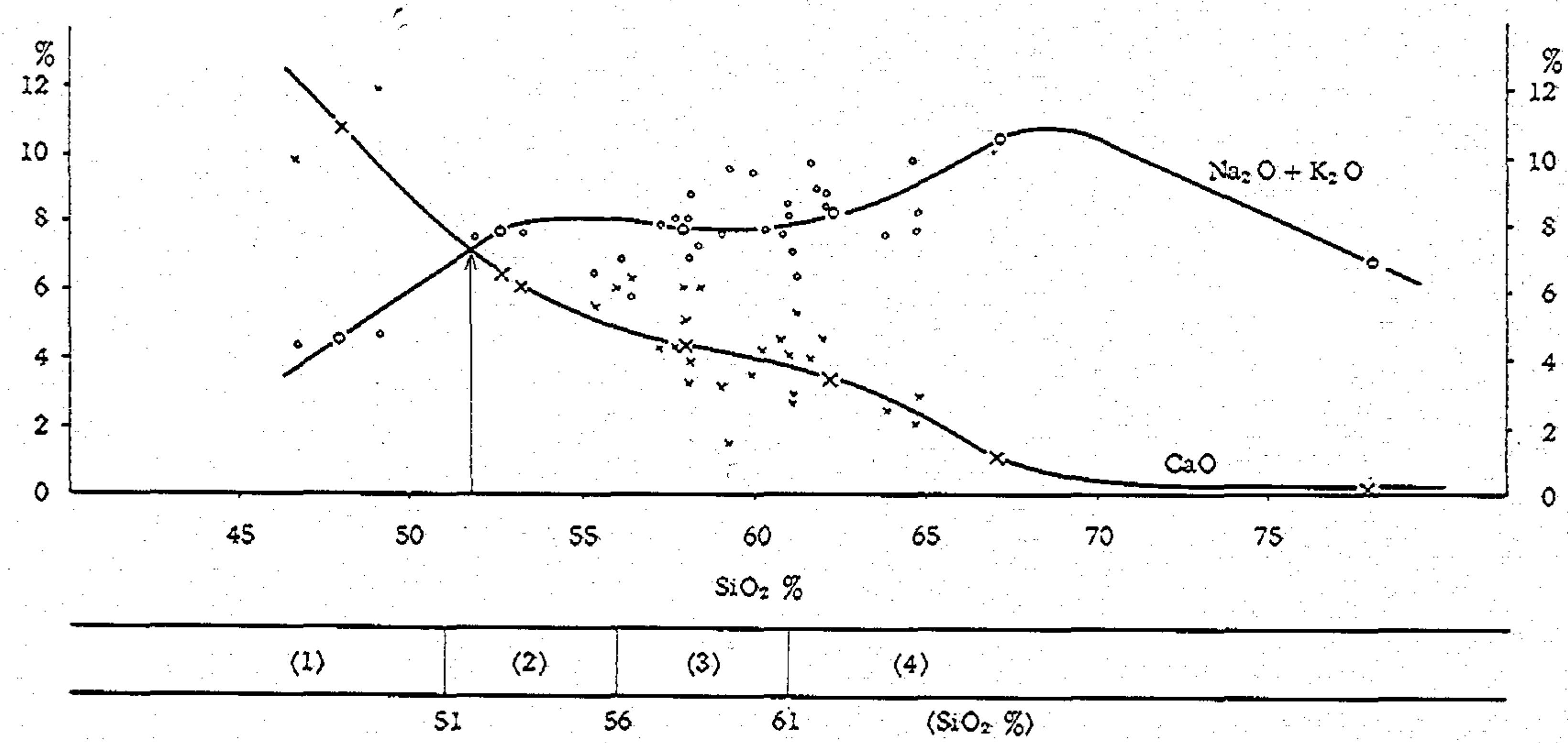
No.	253	287	72	66	293	328	351
Rock Name	Dacite	Trachy andesite	Trachy andesite	Trachy andesite	Trachy andesite	Trachy andesite	Microdiorite
Locality	7-c	1-g	2-d	2-d	1-h	2-h	3-h
SiO_2	58.14	58.11	58.05	57.92	57.75	57.34	56.66
TiO_2	1.03	1.08	1.20	1.30	1.25	1.10	0.70
Al_2O_3	18.07	17.66	15.97	14.99	16.82	18.77	16.06
Fe_2O_3	4.23	7.12	5.12	6.15	6.98	5.53	5.02
FeO	1.15	0.29	1.41	0.69	1.04	0.87	3.83
MnO	0.07	0.03	0.09	0.06	0.09	0.06	0.14
MgO	1.43	0.61	2.54	2.40	1.57	2.00	3.10
CaO	3.22	3.83	5.19	6.11	4.39	4.42	8.18
Na_2O	3.29	5.04	4.98	5.14	4.99	5.01	3.94
K_2O	3.59	3.79	3.10	2.54	3.05	2.91	0.90
P_2O_5	0.20	0.17	0.61	0.68	0.49	0.50	0.15
H_2O (+)	3.68	1.28	0.72	1.10	1.00	0.96	0.41
H_2O (-)	1.51	1.12	0.72	0.63	0.11	0.64	0.11
Total	99.61	100.13	99.70	99.71	99.53	100.11	99.20
MgO	10.8	3.8	15.3	14.7	9.3	12.7	19.0
FeO	37.4	41.5	36.2	38.2	43.2	37.1	51.3
$(Na,K)_2O$	51.8	54.7	48.5	47.1	47.5	50.2	29.7
Q	16.62	6.66	6.12	6.96	7.86	6.18	10.86
C	3.16					0.71	
or	21.13	22.24	18.35	15.01	17.79	17.24	5.56
ab	27.77	42.44	41.92	43.49	41.92	42.44	33.54
an	15.29	14.46	12.23	10.29	14.73	18.07	23.07
lc							
ne							
Sal. total	(83.97)	(85.80)	(78.62)	(75.75)	(82.30)	(84.64)	(73.03)
ac							
wo		0.35	4.18	5.80	1.62		6.96
en	3.60	1.50	6.40	6.00	3.90	5.00	7.80
fs							1.98
fo							
fa							
mt	0.93		1.39				7.19
hm	3.52	7.20	4.16	6.08	7.04	5.60	
il	1.98	0.61	2.28	1.67	2.28	1.98	1.37
ap	0.34	0.34	1.34	1.68	1.01	1.34	0.34
ti		1.96		0.98	0.20	0.20	
Fem. total	(10.37)	(11.96)	(19.75)	(22.21)	(16.05)	(14.12)	(25.64)
Or	32.9	28.1	25.3	21.8	23.9	22.2	8.9
Ab	43.3	53.6	57.8	63.2	56.3	54.6	54.0
An	23.8	18.3	16.9	15.0	19.8	23.2	37.1
D.I.	65.52	71.34	66.39	65.46	67.57	65.86	49.96

No.	4	442	344	296	34	75	354
Rock Name	Granodiorite	Basalt	Basalt	Altered basalt	Basalt	Trachy-basalt	Diorite porphyrite
Locality	1-b	7-h	3-h	1-h	2-1	2-d	3-h
SiO_2	56.59	56.44	56.16	55.45	53.45	53.22	52.69
TiO_2	0.75	1.30	1.69	1.33	1.56	1.71	0.91
Al_2O_3	17.26	15.30	13.99	17.85	17.18	17.34	18.70
Fe_2O_3	4.72	7.96	9.59	5.99	9.50	8.74	5.25
FeO	2.20	0.71	0.97	0.55	1.33	0.05	4.17
MnO	0.07	0.04	0.04	0.21	0.22	0.17	0.09
MgO	2.73	2.23	1.05	0.32	2.44	4.74	3.69
CaO	7.05	6.35	6.02	5.51	5.16	6.05	5.90
Na_2O	4.78	3.98	4.69	5.28	3.97	5.00	3.65
K_2O	0.45	1.74	2.15	1.20	1.82	2.72	2.10
P_2O_5	0.12	0.16	0.14	0.75	1.80	0.45	0.11
H_2O (+)	2.20	1.77	1.29	5.05	1.03	1.93	1.24
H_2O (-)	0.24	1.22	1.50	0.46	0.22	0.45	0.35
Total	99.16	99.20	99.28	99.95	99.71	99.57	99.25
MgO	18.9	14.1	6.0	2.5	13.5	10.0	19.9
FeO	44.8	49.7	54.9	46.6	54.6	45.6	48.0
$(Na,K)_2O$	36.3	36.2	39.1	50.9	31.9	44.4	32.1
Q	10.38	12.60	10.38	10.32	9.66	1.50	4.20
C				0.20			
or	2.78	10.56	12.79	7.23	10.56	16.12	12.23
ab	40.35	33.54	39.82	44.54	33.54	42.44	32.49
an	24.19	18.63	10.56	20.85	23.63	16.68	27.52
lc							
ne							
Sal. total	(77.70)	(75.33)	(73.55)	(83.14)	(77.39)	(76.74)	(76.44)
ac							
wo	4.18	4.41	6.96		0.12	2.32	0.35
en	6.80	5.60	2.60	0.80	6.10	4.40	9.20
fs							1.98
fo							
fa							
mt	5.34				0.23		
hm	1.12	8.00	9.60	5.92	9.28	8.80	7.66
il	1.37	1.67	2.13	1.67	3.04	0.46	1.67
ap	0.34	0.34	0.34	1.68	0.67	1.01	0.34
ti		0.98	1.37	1.18		3.53	
Fem. total	(19.15)	(21.00)	(23.00)	(11.25)	(19.44)	(20.52)	(21.02)
Or	4.1	16.8	20.3	10.0	15.6	21.4	16.9
Ab	60.0	53.5	63.0	61.3	49.5	56.4	45.0
An	35.9	29.7	16.7	28.7	34.9	22.2	38.1
D.I.	53.51	56.70	62.99	62.09	53.76	60.06	48.92

No.	319	74	446	455	58		
Rock Name	Diorite	Trachy-basalt	Basalt	Gabbro	Basalt		
Locality	3-h	2-d	7-i	7-k	2-d		
SiO_2	52.11	51.90	49.04	46.76	46.61		
TiO_2	1.40	1.81	1.01	1.18	1.39		
Al_2O_3	17.17	17.39	13.59	19.56	15.68		
Fe_2O_3	2.83	7.15	2.25	5.18	9.74		
FeO	8.06	2.25	6.51	6.73	1.86		
MnO	0.19	0.12	0.17	0.16	0.19		
MgO	3.74	3.68	8.41	5.47	3.97		
CaO	7.69	6.83	11.92	10.42	9.90		
Na_2O	3.23	5.28	2.93	2.20	1.88		
K_2O	2.75	2.30	1.72	0.53	2.51		
P_2O_5	0.31	0.37	0.14	0.22	0.19		
$H_2O(+)$	0.99	0.87	1.28	1.28	4.50		
$H_2O(-)$	0.02	0.36	0.22	0.39	2.30		
Total	100.49	100.31	99.19	99.88	100.72		
MgO	18.4	18.4	38.9	27.9	20.9		
FeO	52.2	43.6	39.6	58.2	56.0		
$(Na,K)_2O$	29.4	38.0	21.5	13.9	23.1		
Q				1.08	3.90		
C							
or	16.12	13.34	10.01	3.34	15.01		
ab	27.25	43.49	24.63	18.34	15.72		
an	23.84	16.96	18.90	41.98	26.97		
lc							
ne		0.57					
Sal. total	(67.21)	(74.36)	(53.54)	(64.74)	(61.60)		
ac							
wo	4.99	5.92	16.47	3.25	8.93		
en	8.60		2.20	13.70	9.90		
fs	9.50			6.34			
fo	0.56	6.49	13.25				
fa	0.82		6.73				
mt	4.18	2.32	3.25	7.42	2.78		
hm		5.60			7.84		
il	2.74	3.50	1.98	2.28	2.58		
ap	0.67	1.01	0.34	0.67	0.34		
ti							
Fem. total	(32.06)	(24.84)	(44.22)	(33.66)	(32.37)		
Or	24.0	18.1	18.7	5.3	26.0		
Ab	40.5	58.9	46.0	28.8	27.3		
An	35.5	23.0	35.3	65.9	46.7		
D.I.	43.37	57.40	34.64	22.76	34.63		

No.	414	415	450	Average of Ferrobamba limestone	399	419	306
Rock Name	Limestone	Limestone	Limestone		Limestone	Calcarenite	Calcarenite
Locality	6-1	6-1	7-1		5-m	7-1	1-1
SiO_2	4.04	1.13	2.25	2.47	1.11	4.22	26.62
TiO_2	0.02	0.01	0.02	0.02	0.03	0.07	0.00_4
Al_2O_3	0.32	0.14	0.45	0.30	0.21	1.76	0.21
Fe_2O_3	0.14	0.18	0.82	0.38	0.19	0.49	0.13
MnO	0.01	0.01	0.01	0.01	0.02	0.03	0.01
MgO	0.03	0.09	0.04	0.05	0.02	0.04	0.01
CaO	0.05	0.10	0.01	0.05	0.05	0.06	0.09
Na_2O	0.14	0.00_4	0.00_4	0.05	0.01	0.12	0.01
K_2O	0.08	0.03	0.03	0.05	0.19	0.12	0.02
P_2O_5	0.07	0.08	0.01	0.05	0.00_9	0.04	0.00_5
H_2O (-)	0.04	0.00	0.18	0.07	0.08	0.11	0.10
$MnCO_3$	0.00	0.00	0.00	0.00	0.00	0.00	1.45
$MgCO_3$	0.51	1.79	4.09	2.13	1.29	0.20	0.85
$CaCO_3$	94.62	96.52	92.10	94.41	96.80	92.78	70.80
Total	100.07	100.08	100.01	100.04	100.00	100.04	100.00

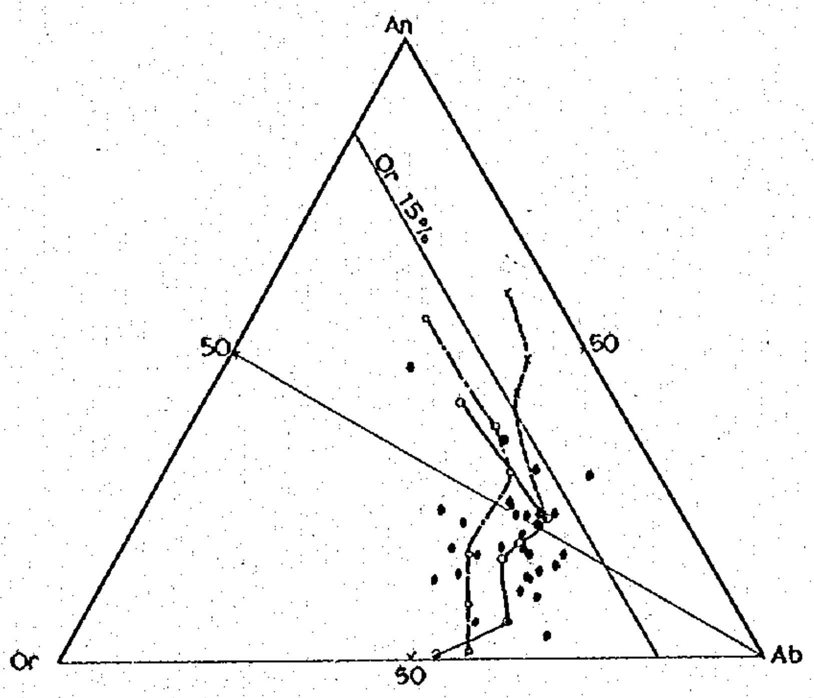
Table I-11 Alkali-Lime Index of Volcanic Rocks from the Yauri Area



Rock Series (after M. A. PEACOCK 1931)

(1) Alkalic (2) Alkali-Calcic (3) Calc-Alkalic (4) Calcic

Table I-12 Triangular Diagram Showing the Ratio Normative Orthoclase (Or), Albite (Ab) and Anorthite (An) of Volcanic Rocks from the Yauri Area



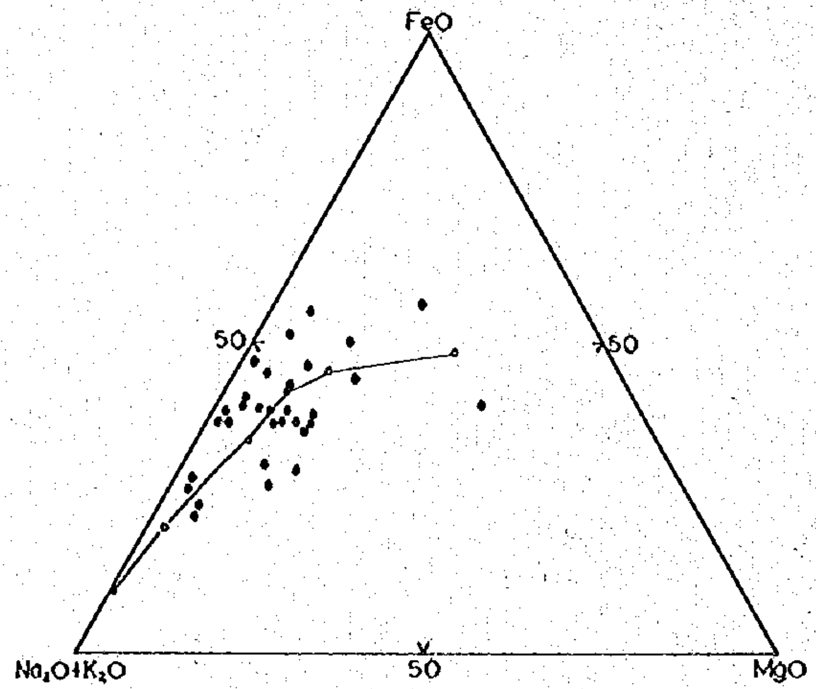
LEGEND

—o— Average ratio of Yauri area

---x--- Izu・Hakone hypersthenic rock series (Japan)

-·-□-·- Circum-Japan Sea alkali rock series (Japan)

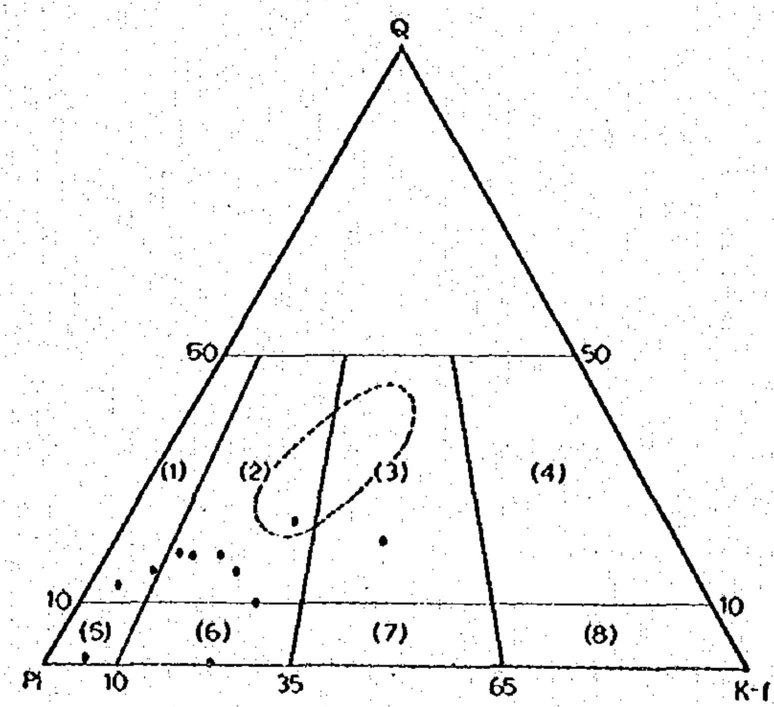
Table I-13 AFM Diagram of Volcanic Rocks from the Yauri Area



LEGEND

—o— Average ratio of Yauri area

Table 1-14 Classification of Intrusive Rocks by Normative Quartz and Feldspars



LEGEND

(1) Quartz diorite

(2) Granodiorite

(3) Quartz monzonite

(4) Granite

(5) Gabbro

(6) Diorite

(7) Monzonite

(8) Syenite

(dashed ellipse) Monzonitic rock of Southwestern U. S. A.

• Intrusives of Yauri Area

Table I-15 (1) Geochemical Analysis of Stream Sediments from the Yauri Quadrangle

Cu: ppm
Mo: ppm
N: Nil

Sample No.	Cu	Mo	Sample No.	Cu	Mo	Sample No.	Cu	Mo
1	20	N	39	25	N	77	5	N
2	25	N	40	35	N	78	10	N
3	30	N	41	20	N	79	8	N
4	30	N	42	20	N	80	-5	N
5	20	N	43	10	N	81	10	N
6	15	N	44	30	N	82	5	N
7	30	N	45	45	N	83	-5	N
8	20	N	46	30	N	84	40	N
9	15	N	47	20	N	85	30	N
10	15	N	48	15	N	86	30	N
11	20	N	49	25	N	87	25	N
12	20	N	50	35	N	88	20	N
13	20	N	51	10	N	89	50	N
14	30	N	52	20	N	90	30	N
15	20	N	53	20	N	91	10	N
16	25	N	54	10	N	92	5	N
17	10	N	55	20	N	93	30	N
18	15	N	56	30	N	94	80	N
19	30	N	57	30	N	95	20	N
20	20	N	58	30	N	96	20	N
21	15	N	59	30	N	97	20	N
22	30	N	60	8	N	98	20	N
23	20	N	61	20	N	99	10	N
24	15	N	62	20	N	100	10	N
25	20	N	63	20	N	101	75	N
26	20	N	64	10	N	102	60	N
27	30	N	65	10	N	103	30	N
28	20	N	66	10	N	104	30	N
29	40	N	67	15	N	105	30	N
30	40	N	68	20	N	106	30	N
31	30	N	69	30	N	107	20	N
32	30	N	70	30	N	108	15	N
33	30	N	71	-5	N	109	30	N
34	10	N	72	15	N	110	10	N
35	25	N	73	10	N	111	20	N
36	15	N	74	10	N	112	20	N
37	25	N	75	30	N	113	90	N
38	30	N	76	15	N	114	20	N

Sample No.	Cu	Mo	Sample No.	Cu	Mo	Sample No.	Cu	Mo
115	30	N	161	5	N	207	10	N
116	30	N	162	35	N	208	20	N
117	45	N	163	20	N	209	10	N
118	40	N	164	35	N	210	10	N
119	40	N	165	10	N	211	30	N
120	70	N	166	15	N	212	45	N
121	30	N	167	30	N	213	90	N
122	35	N	168	10	N	214	20	N
123	30	N	169	10	N	215	50	N
124	30	N	170	5	N	216	250	N
125	5	N	171	5	N	217	100	N
126	30	N	172	N	N	218	50	N
127	30	N	173	5	N	219	300	N
128	30	N	174	10	N	220	20	N
129	20	N	175	10	N	221	90	N
130	10	N	176	10	N	222	80	N
131	20	N	177	5	N	223	40	N
132	20	N	178	N	N	224	40	N
133	20	N	179	5	N	225	35	N
134	15	N	180	5	N	226	50	N
135	20	N	181	40	N	227	-5	N
136	15	N	182	30	N	228	45	N
137	20	N	183	30	N	229	45	N
138	40	N	184	8	N	230	600	N
139	30	N	185	30	N	231	60	N
140	40	N	186	45	N	232	45	N
141	25	N	187	45	N	233	15	N
142	40	N	188	15	N	234	20	N
143	15	N	189	35	N	235	600	N
144	35	N	190	20	N	236	200	N
145	30	N	191	30	N	237	30	N
146	10	N	192	40	N	238	45	N
147	15	N	193	20	N	239	50	N
148	20	N	194	10	N	240	95	N
149	30	N	195	20	N	241	150	N
150	25	N	196	25	N	242	250	N
151	30	N	197	30	N	243	50	N
152	10	N	198	20	N	244	30	N
153	30	N	199	5	N	245	75	N
154	30	N	200	5	N	246	60	N
155	30	N	201	15	N	247	180	N
156	35	N	202	35	N	248	550	N
157	30	N	203	25	N	249	35	N
158	30	N	204	5	N	250	30	N
159	30	N	205	15	N	251	30	N
160	30	N	206	20	N	252	20	N

Sample No.	Cu	Mo
253	30	N
254	15	N
255	20	N
256	30	N
257	30	N
258	20	N
259	25	N
260	25	N
261	20	N
262	35	N
263	15	N
264	150	N
265	110	N
266	80	N
267	100	N
268	30	N
269	30	N
270	20	N
271	30	N
272	20	N
273	15	N
274	45	N
275	40	N
276	10	N
277	30	N
278	30	N
279	30	N
280	15	N
281	15	N
282	10	N
283	20	N
284	30	N
285	20	N
286	20	N
287	30	N
288	35	N
289	25	N
290	20	N
291	20	N
292	10	N
293	40	N
294	40	N
295	20	N
296	20	N
297	8	N
298	20	N
299	20	N
300	25	N
301	20	N
302	35	N
303	25	N
304	30	N
305	8	N
306	5	N
307	20	N
308	20	N
309	20	N
310	8	N
311	10	N
312	20	N
313	20	N
314	15	N
315	20	N
316	30	N
317	35	N
318	30	N
319	40	N

Table I-15 (2) Geochemical Analysis of Stream Sediments from the Velille Quadrangle

Sample No.	Cu	Mo	Sample No.	Cu	Mo	Sample No.	Cu	Mo
1	30	N	39	35	N	77	30	N
2	10	N	40	25	N	78	15	N
3	30	N	41	20	N	79	30	N
4	35	N	42	30	N	80	85	N
5	15	N	43	30	N	81	-5	N
6	20	N	44	20	N	82	-5	N
7	20	N	45	40	N	83	-5	N
8	30	N	46	10	N	84	20	N
9	40	N	47	20	N	85	8	N
10	45	N	48	30	N	86	-5	N
11	20	N	49	5	N	87	N	N
12	15	N	50	5	N	88	45	N
13	15	N	51	8	N	89	10	N
14	-5	N	52	8	N	90	15	N
15	45	N	53	5	N	91	5	N
16	30	N	54	30	N	92	10	N
17	25	N	55	20	N	93	-5	N
18	30	N	56	10	N	94	-5	N
19	20	N	57	10	N	95	10	N
20	50	N	58	10	N	96	25	N
21	20	N	59	25	N	97	20	N
22	10	N	60	30	N	98	5	N
23	10	N	61	40	N	99	8	N
24	30	N	62	N	N	100	5	N
25	20	N	63	5	N	101	8	N
26	20	N	64	50	N	102	15	N
27	20	N	65	20	N	103	10	N
28	30	N	66	25	N	104	15	N
29	15	N	67	25	N	105	5	N
30	30	N(+)	68	120	N	106	15	N
31	5	N	69	30	N	107	15	N
32	30	N(+)	70	30	N	108	10	N
33	10	N	71	40	N	109	25	N
34	20	N	72	30	N	110	25	N
35	30	N	73	100	N	111	15	N
36	30	N	74	35	N	112	15	N
37	10	N	75	80	N	113	10	N
38	10	N	76	5	N	114	15	N

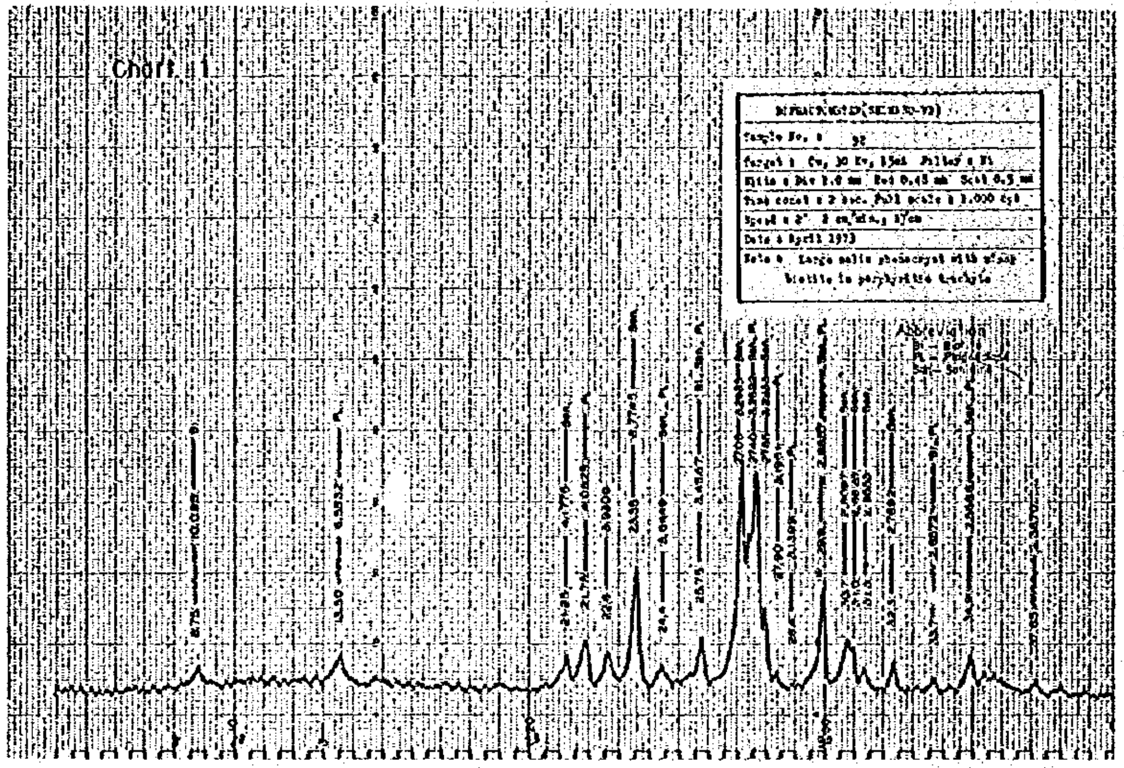
Sample No.	Cu	Mo	Sample No.	Cu	Mo	Sample No.	Cu	Mo
115	10	N	161	10	N	207	25	N(+)
116	5	N	162	15	N	208	20	N(+)
117	10	N	163	10	N	209	10	N(+)
118	25	N	164	20	N	210	20	N(+)
119	10	N	165	10	N	211	20	N(+)
120	15	N	166	10	N	212	50	N(+)
121	10	N	167	30	N	213	20	N(+)
122	15	N	168	20	N	214	15	N(+)
123	20	N	169	40	N	215	25	N(+)
124	10	N	170	25	N	216	20	N
125	20	N	171	20	N	217	40	N(+)
126	30	N	172	20	N	218	25	N(+)
127	30	N	173	5	N	219	20	N(+)
128	20	N	174	15	N	220	10	N(+)
129	30	N	175	N	N	221	15	N(+)
130	20	N	176	15	N	222	10	N(+)
131	5	N	177	20	N	223	20	N(+)
132	20	N	178	15	N	224	10	N(+)
133	35	N	179	15	N	225	14	N
134	30	N	180	10	N	226	20	N
135	40	N	181	15	N	227	20	N(+)
136	20	N	182	25	N	228	15	N
137	40	N	183	25	N	229	15	N
138	40	N	184	20	N	230	15	N
139	-5	N	185	30	N	231	15	N
140	8	N	186	15	N	232	15	N
141	-5	N	187	10	N	233	10	N
142	10	N	188	15	N	234	5	N
143	20	N	189	25	N	235	5	N
144	20	N	190	-5	N	236	15	N(+)
145	30	N	191	-5	N	237	5	N
146	10	N	192	10	N	238	15	N
147	20	N	193	1000	N	239	20	N
148	20	N	194	20	N	240	15	N
149	15	N	195	10	N	241	5	N
150	10	N	196	25	N	242	5	N
151	10	N	197	5	N	243	15	N
152	20	N	198	25	N	244	15	N
153	15	N	199	10	N	245	20	N
154	15	N	200	15	N	246	15	N
155	25	N	201	20	N(+)	247	10	N
156	30	N	202	15	N(+)	248	15	N
157	15	N	203	8	N(+)	249	15	N
158	20	N	204	20	N(+)	250	100	N
159	15	N	205	15	N(+)	251	10	N
160	10	N	206	25	N(+)	252	10	N

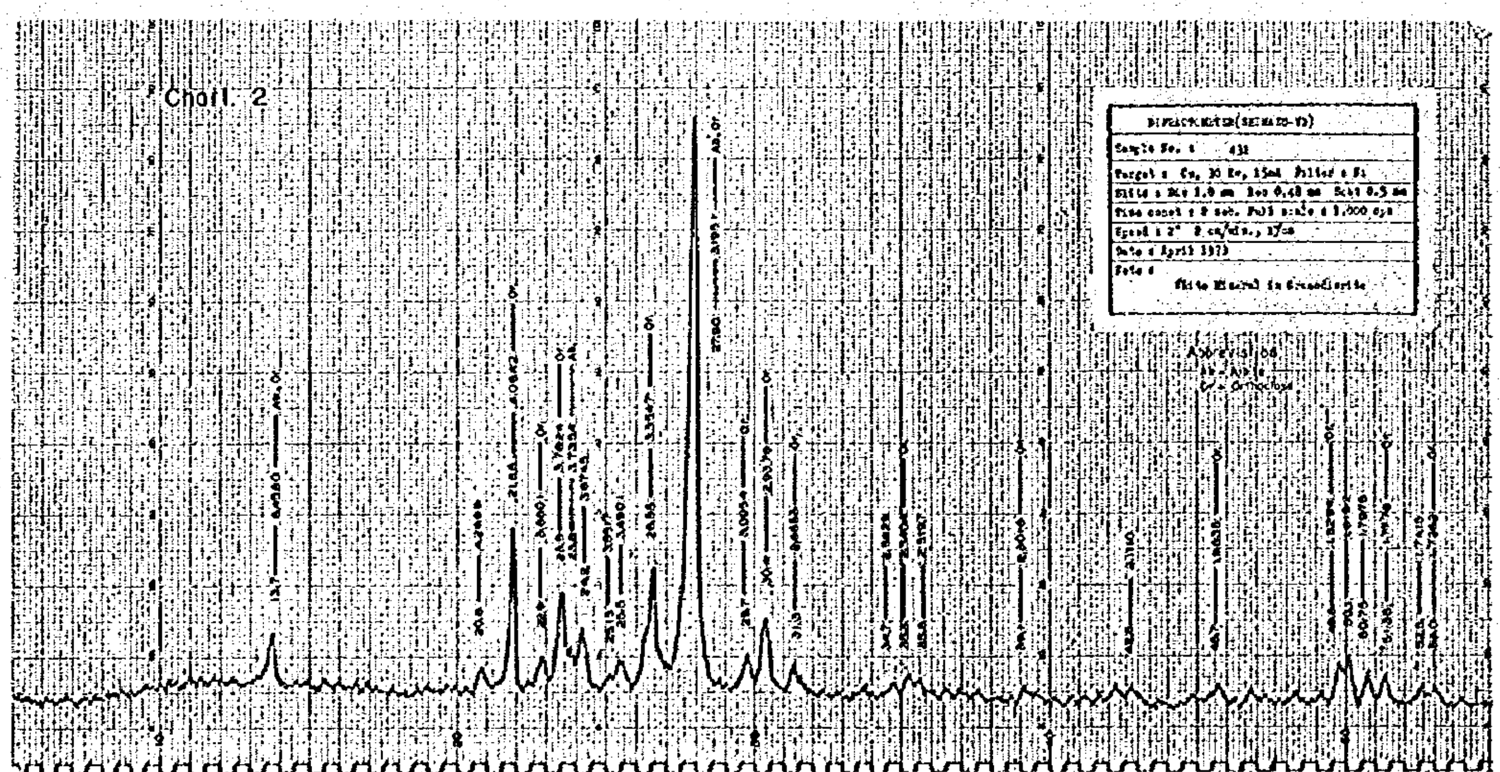
Sample No.	Cu	Mo
253	5	N
254	20	N(+)
255	20	N(+)
256	10	N
257	100	N
258	5	N
259	10	N
260	45	N
261	10	N
262	N	N
263	15	N
264	-5	N
265	15	N
266	20	N
267	15	N(+)
268	15	N(+)
269	15	N
270	20	N(+)
271	5	N(+)
272	10	N(+)
273	10	N(+)
274	25	N(+)
275	15	N
276	10	N
277	15	N
278	50	N
279	25	N
280	10	N
281	5	N
282	N	N
283	35	N
284	15	N
285	-5	N
286	15	N
287	10	N
288	30	N
289	10	N

Table I-16 Chemical Analysis of Ores

Sample No.	Location	Total-Cu %	Soluble Cu %	Mo %	Au g/t	Ag g/t	S %	Pb %	Zn %	Sb %	Fe %
176	5 - f	2.62									
231	6 - f									Nil	
277	7 - g				Nil	342					
328	2 - h	0.02		0.004			14.2				
336	2 - i	0.11					4.40	tr	tr		57.4
338	2 - j	0.02		0.004			3.09				
356	3 - h	0.09	0.07	0.004							
378	4 - h	0.02		0.004	Nil						
388	4 - j	0.18	0.18	0.005							
454	7 - j	0.18		0.007							

Table I-17 Chart of X-ray Diffractive Analysis





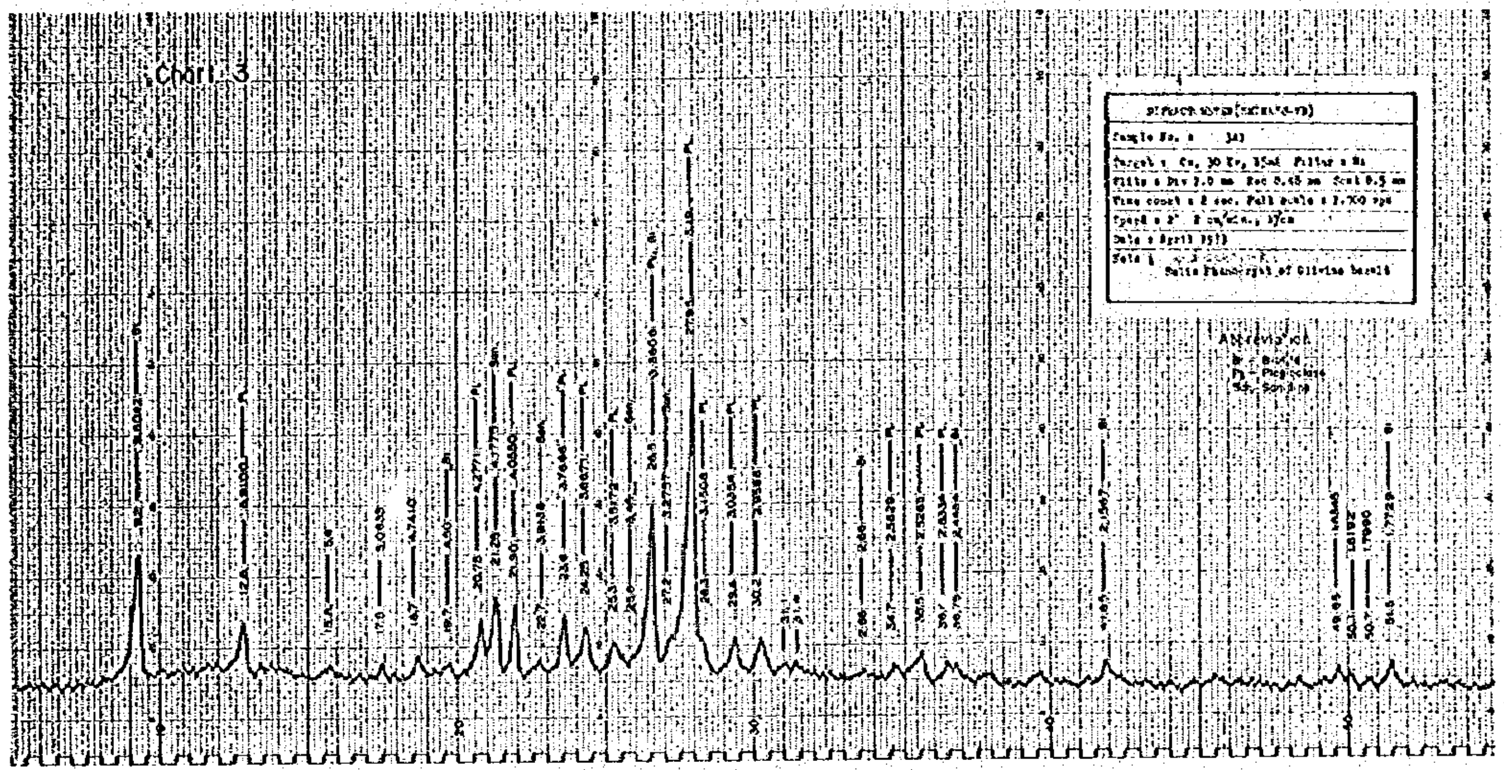


Chart 3

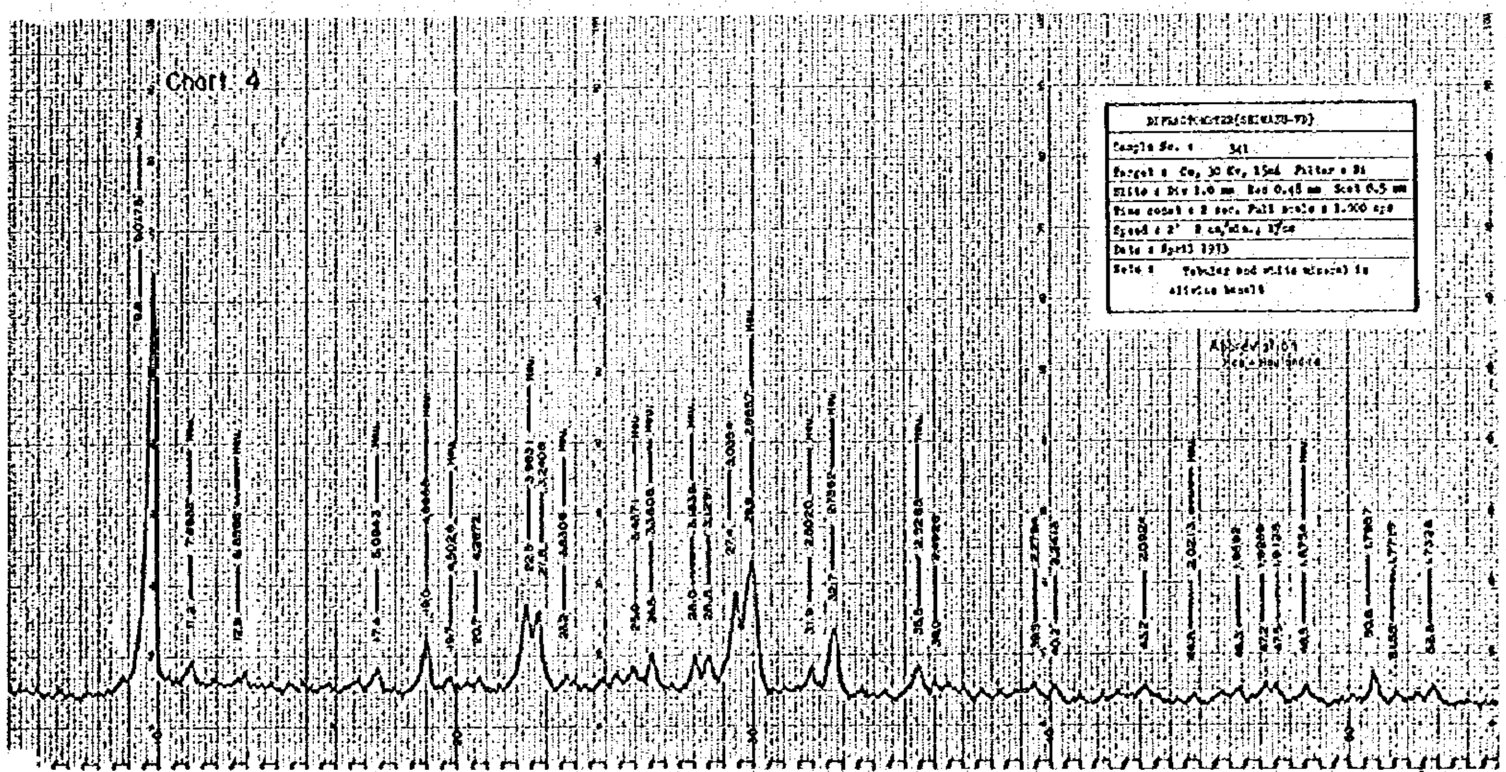


Chart 4

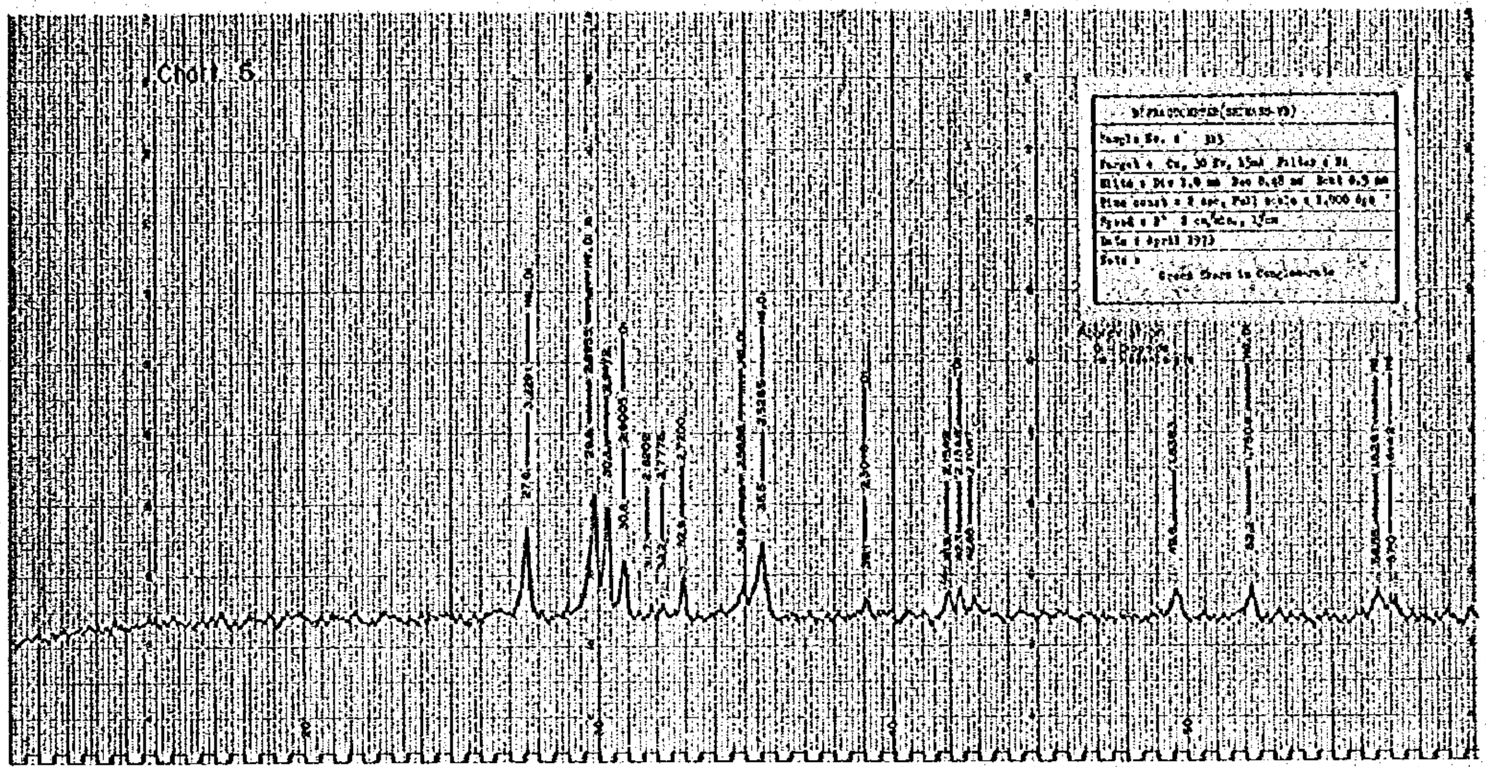


Chart 5

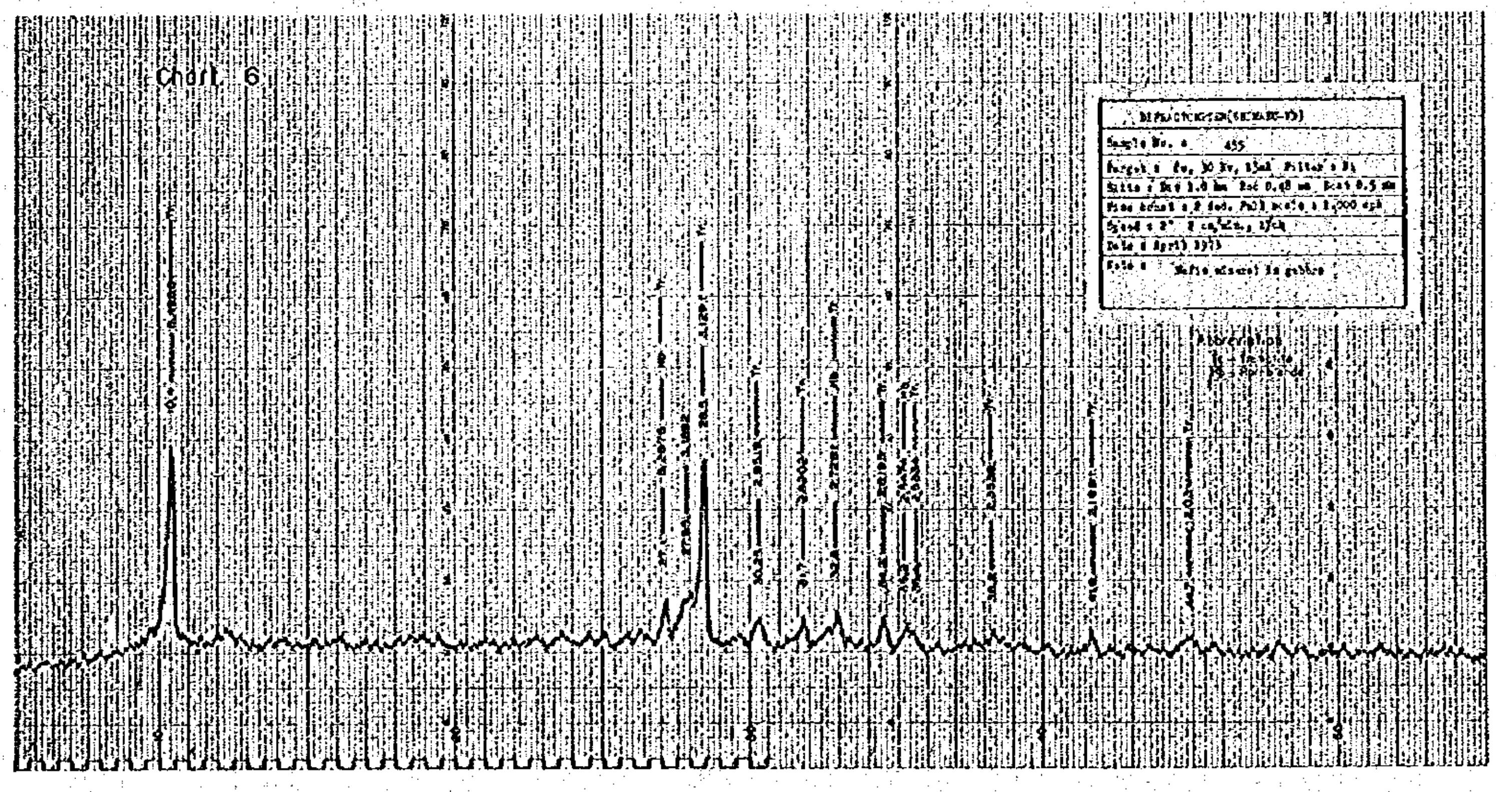
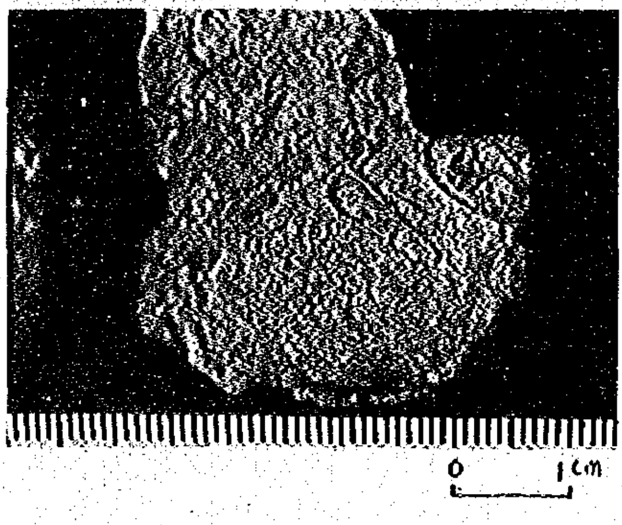


Chart 6
Sample No. : 455

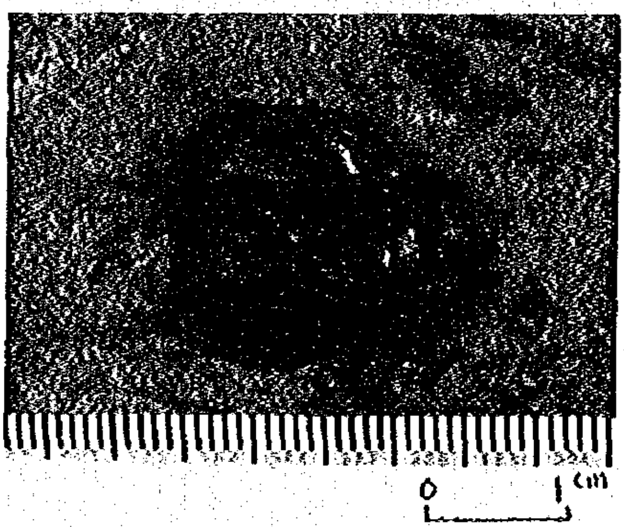
Table I-18 K-Ar Ages of Igneous Rocks from the Yauri Area

Sample No.	Location	Rock Name	Analytical Mineral	$^{36}Ar^{T}/^{38}Ar$	$^{40}Ar^{T}/^{38}Ar$	$^{40}Ar^{R}/^{38}Ar$	$^{40}Ar^{R}/^{40}K$	Air Condition %	Ages x 10^{6}	Geological Age
280	7 - g	massive tuff	biotite	0.00253	0.73355	0.08322	0.000302	88.37	5	Tertiary
253	7 - c	Dacite	"	0.00280	0.84734	0.11709	0.000381	85.93	7	"
79	2 - c	trachyandesite	whole rock	0.00372	1.63051	0.62794	0.001633	61.36	28	"
453	7 - j	monzonite porphyry	"	0.00047	0.22208	0.13814	0.002155	37.32	37	"
40	1 - g	trachyte	biotite	0.00617	2.01754	0.28977	0.002247	85.53	38	"
87	2 - g	porphyritic trachyte	"	0.00259	1.32072	0.65263	0.002409	50.42	41	"
341	2 - l	olivine basalt	whole rock	0.00523	2.20786	0.75833	0.003232	65.56	55	"
453	7 - j	quartz monzonite	"	0.00498	1.81869	0.44316	0.003350	75.52	57	"
349	3 - h	diorite	biotite	0.00416	2.38833	1.25552	0.004435	47.34	74	Cretaceous
376	4 - h	granodiorite	biotite + hornblende	0.00285	2.17783	1.43278	0.005128	34.11	86	"
9	1 - b	quartz diorite	" "	0.00280	2.32771	1.59746	0.006310	31.28	105	"
455	7 - k	gabbro	hornblende	0.00254	1.29040	0.63711	0.008764	50.46	144	Jurassic

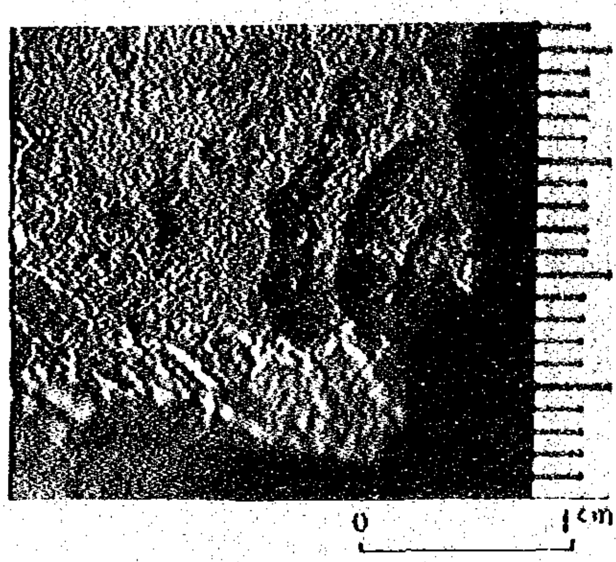
Table I-19 Fossils



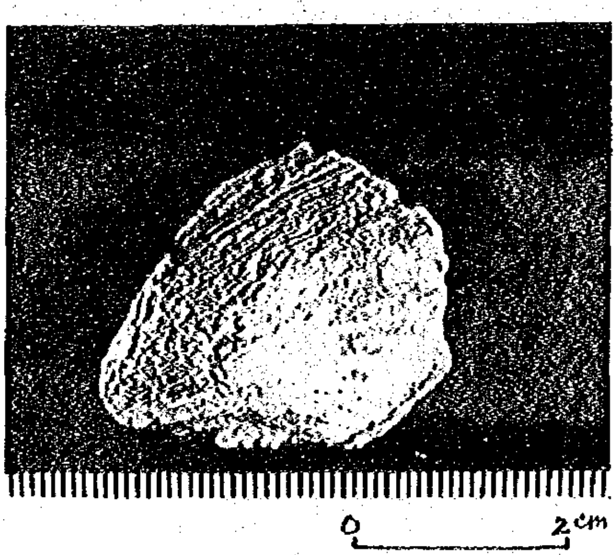
Sample No. : 318.
Geological formation :
Ayabacas Formation
Rock name : Limestone
Location : 1-m
Fossil : Ampllina (?) sp.
Geological age :
Triassic to Recent



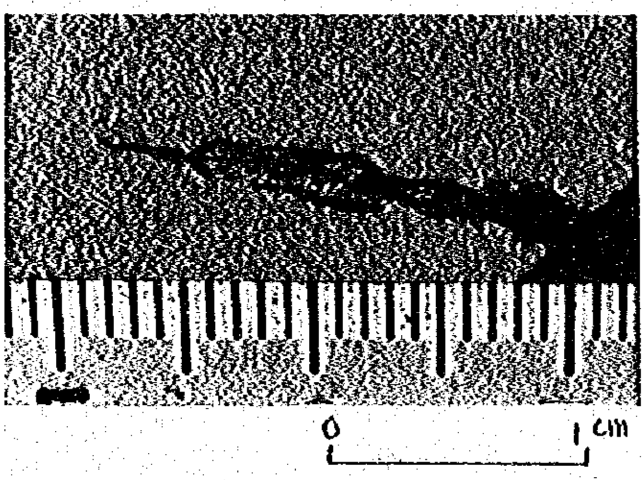
Sample No. : 320.
Geological formation :
Ayabacas Formation
Rock name : Limestone
Location : 1-m
Fossil : Neitea (s.l.) sp.
Geological age :
Jurassic to Cretaceous

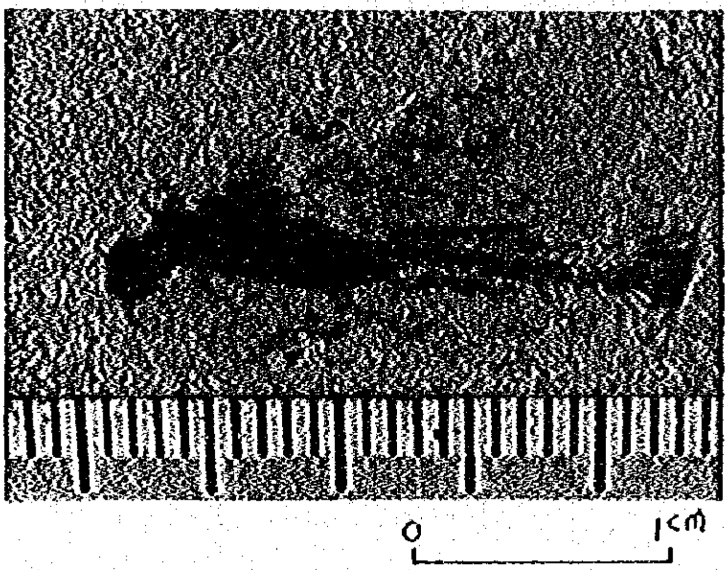


Sample No. : 321.
Geological formation :
Ayabacas Formation
Rock name : Limestone
Location : 1-m
Fossil : Ampliina (?) sp.
Geological age :
Triassic to recent



Sample No. : 397.
Geological formation :
Ayabacas Formation
Rock name : Limestone
Location : 5-m
Fossil :
Aptyxiella (?) sp. (Nerineidae)
Geological age :
Jurassic to Cretaceous
Inhabitable environment :
Reef coral region of
sub-tropical sea





Sample No. : 433.

Geological formation : Yauri Formation

Rock name : Tuffaceous shale

Location : 6-k

Fossil : Class Osteichyes

Order Cyprinodontiforoms

Family Cyprinodontae or Poeciliidae

Geological age : Tertiary to Recent

Inhabitable environment : Fresh and Blackish water

Table I-20 Pollen Analysis

Sample No. :	395
Geological formation:	Descanso Group
Rock name:	Sandy tuff
Location:	5-i
Pollen:	Polylepis incana
	Compositae
	Gramineae
	Botryococus
Sample No. :	433 - 1
Geological formation:	Yauri Formation
Rock name:	Tuffaceous shale
Location:	6-k
Pollen:	Polylepis incana
	Compositae
	Gramineae
	Botryococus
Sample No. :	433 - 2
Geological formation:	Yauri Formation
Rock name:	Tuffaceous shale
Location:	6-k
Pollen:	Polylepis incana
	Compositae
	Gramineae
	Botryococus
Sample No. :	435
Geological formation:	Yauri Formation
Rock name:	Sandstone
Location	7-h
Pollen:	Polylepis incana
	Compositae
	Gramineae
	Botryococus

Discussion of Pollen Analysis

1. All of four samples are practically same in pollen composition and also have a common characteristic of tuffaceous sediments so that pollens are poorly contained not only in amount but in variety.

2. Among pollens Polylepis incana is most predominant. Some 30 species of Polylepis, a genus of Rosaceae, grow naturally in the present temperate regions of Peru, Bolivia, Nicaragua, etc.

3. As for Compositae (Astrales), 3 different types were detected but the determination of their genera was impossible.

4. Occurrences of Compositae and Gramineae (Graminales) fossils have been reported only from Neogene or younger beds.

5. Botryococus, a genus of Algae, occurs through all ages since Palaeozoic. This Algae is a good indicator for the sedimentary environment of a shallow, stagnant and neutral to alkalic pool or swamp.

6. From the above-stated flora, all beds examined are considered to have deposited under a temperate climate and at a shallow and stagnant basin. The geological age can not be definitely determined due to lacking of sufficient varieties of pollen flora, but judging from the good preservation of pollen fossils and indicated warm climate, most probably, the age is considered as Pliocene epoch.

Table I-21 Photographs

Photo. 1 Folded structure of the Ferrobamba limestone (Condorcocha)

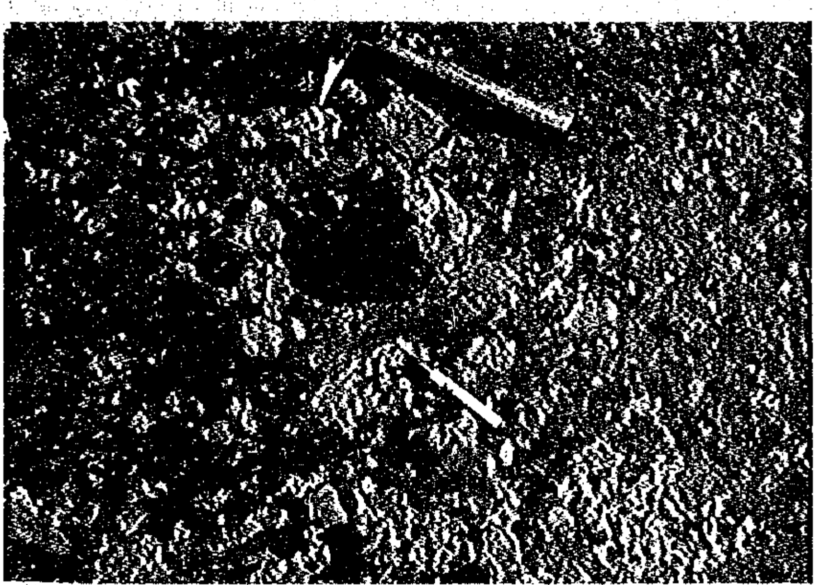


Photo. 2 Basal conglomerate of the Upper Puno Formation (Islaicocha)

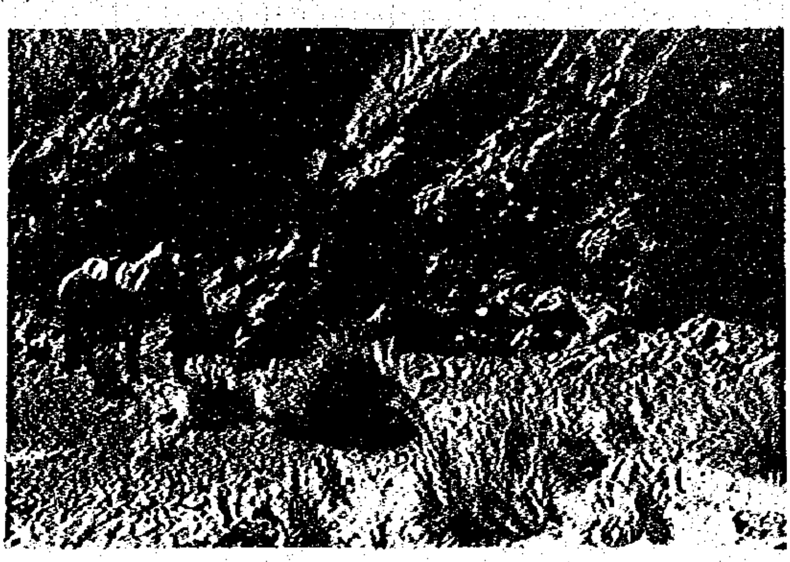


Photo. 3 Basal conglomerate of the Lower Tacaza Formation (Santa Lucia de Pichigua)

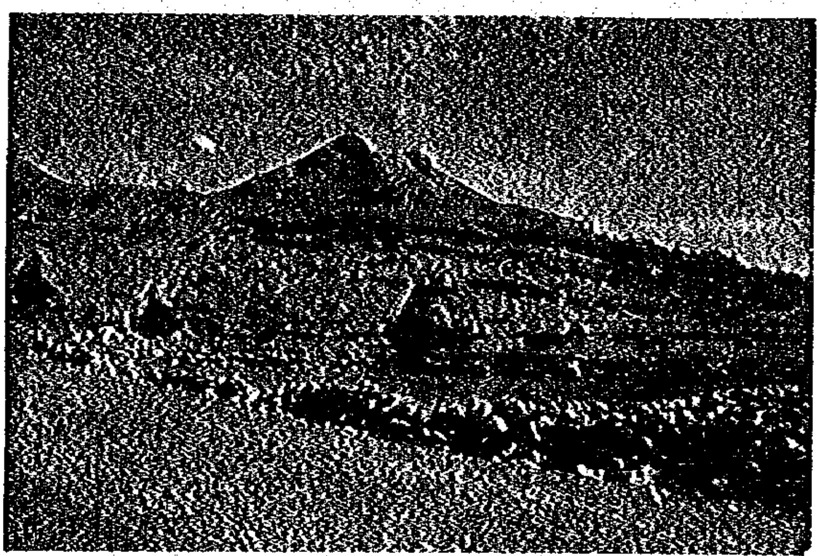


Photo. 4 Senoca volcanic neck (hill) intruded into the Lower Tacaza Formation (La Esquina)

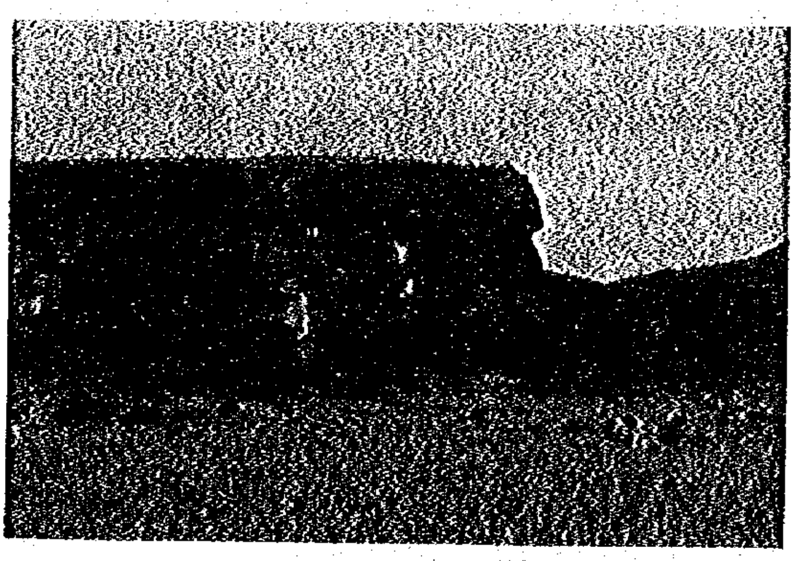


Photo. 5 Reddish tuff breccia of the Upper Descanso Formation (Yauri)

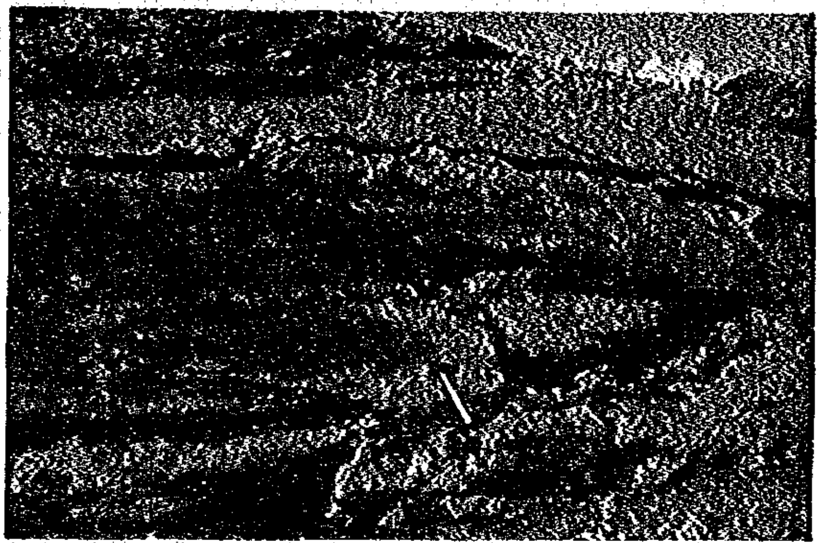


Photo. 6 Glacial striae (Lag. Parihuana)

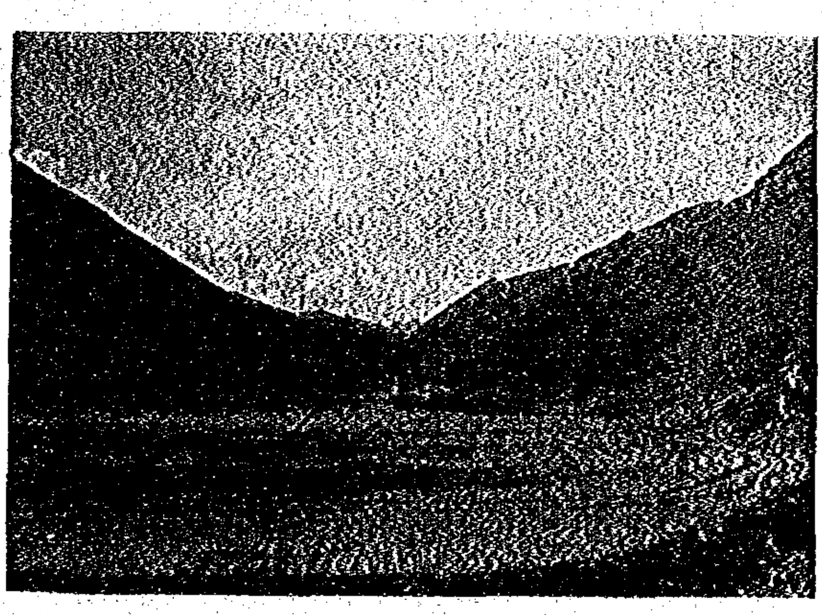


Photo. 7 Fault in the Rio Velille

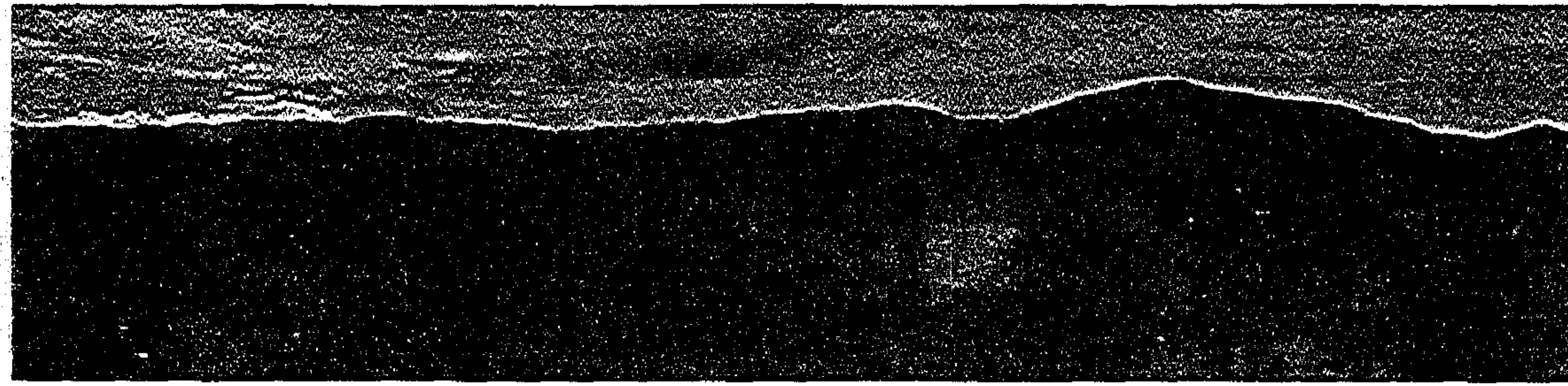


Photo. 8 View of Coroccohuayco mineralized area

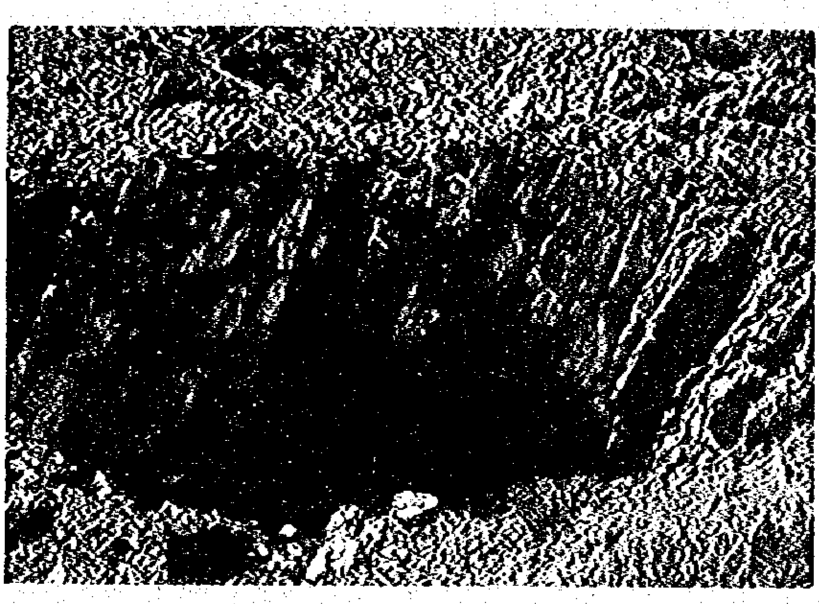


Photo. 9 Oxide copper at the old tunnel (Coroccohuayco)

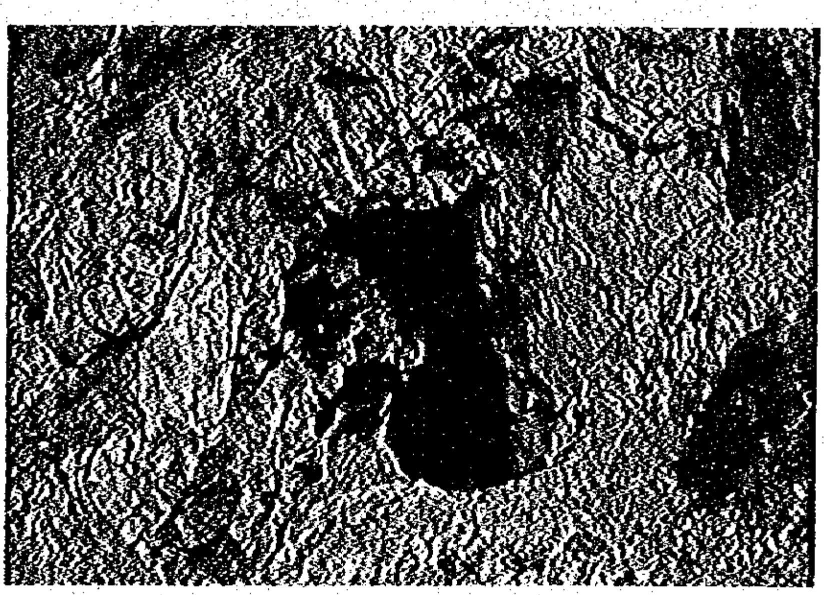


Photo. 10 Old tunnel explored for copper minerals in the Tacaza Group. (Huachana)

Photo. 11 Oil seepage of Islaicooha

APPENDICES
(GEOPHYSICS)

Table III. Gravity Calculation

BOUGUER ANOMALIES FOR SIX DENSITIES — MESCO 171

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 10 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.85
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
1	201	-14 45 41 0	-71 22 47 0	3877.03	-1139.16	-247.22	-289.43	-331.49	-364.35	-375.66	-396.69
2	202	-14 45 31 0	-71 22 4 0	3874.43	-1133.59	-267.86	-310.26	-332.65	-365.04	-376.38	-397.43
3	203	-14 44 53 0	-71 21 31 0	3877.19	-1140.50	-268.23	-300.76	-333.13	-365.55	-376.93	-398.08
4	204	-14 47 19 0	-71 21 41 0	3893.71	-1139.40	-266.92	-299.05	-331.57	-364.09	-375.49	-376.62
5	205	-14 47 47 0	-71 20 32 0	3800.16	-1145.77	-263.93	-298.56	-329.23	-361.93	-373.34	-394.57
6	206	-14 49 17 0	-71 20 41 0	3900.60	-1142.76	-264.09	-276.83	-329.56	-362.30	-373.76	-395.03
7	207	-14 49 23 0	-71 20 0 0	3930.20	-1137.08	-265.17	-276.95	-329.53	-362.12	-373.52	-394.70
8	208	-14 49 37 0	-71 19 49 0	3877.60	-1137.97	-264.45	-297.07	-329.68	-362.28	-373.70	-394.93
9	209	-14 45 33 0	-71 19 13 0	3835.03	-1142.35	-265.42	-298.02	-330.65	-362.28	-374.70	-395.91
10	210	-14 44 33 0	-71 19 41 0	3895.09	-1149.83	-267.96	-370.57	-333.19	-365.80	-377.22	-398.42
11	211	-14 33 22 0	-71 19 10 0	3937.10	-1150.67	-272.29	-304.93	-337.66	-370.38	-381.84	-403.41
12	212	-14 44 19 0	-71 17 49 0	3913.11	-1154.59	-274.60	-307.55	-340.21	-372.99	-384.45	-405.76
13	213	-14 47 52 0	-71 17 8 0	3922.00	-1159.33	-275.93	-308.85	-341.75	-374.66	-386.17	-407.52
14	214	-14 47 51 0	-71 16 37 0	3932.22	-1165.94	-276.82	-309.76	-342.70	-375.64	-387.16	-408.57
15	215	-14 48 2 0	-71 15 5 0	3959.58	-1167.18	-276.91	-310.09	-343.26	-376.43	-388.04	-409.60
16	216	-14 48 12 0	-71 15 35 0	3767.50	-1167.47	-275.49	-308.79	-341.47	-375.21	-386.84	-408.45
17	217	-14 48 26 0	-71 15 3 0	3975.02	-1167.21	-274.93	-307.33	-340.61	-373.93	-385.51	-407.23
18	300	-14 49 30 0	-71 14 24 0	3969.31	-1161.41	-273.76	-306.83	-339.93	-372.99	-384.55	-406.05
19	301	-14 49 4 0	-71 14 26 0	3954.01	-1161.18	-272.75	-305.87	-338.98	-372.10	-383.69	-405.22
20	302	-14 49 20 0	-71 13 59 0	3971.30	-1170.19	-272.81	-306.16	-339.58	-373.01	-384.71	-406.43
21	303	-14 49 41 0	-71 13 22 0	4027.40	-1177.07	-272.26	-305.98	-339.71	-373.43	-385.23	-407.16
22	304	-14 49 51 0	-71 12 51 0	3935.96	-1167.70	-271.06	-304.51	-337.96	-371.41	-383.12	-404.86
23	305	-14 50 21 0	-71 13 0 0	4020.19	-1174.31	-270.52	-304.06	-337.71	-371.42	-383.19	-405.07
24	306	-14 50 57 0	-71 12 43 0	3990.28	-1165.11	-267.84	-301.23	-334.62	-367.97	-379.97	-401.37
25	307	-14 51 22 0	-71 12 31 0	4001.85	-1167.92	-269.12	-301.65	-335.16	-368.69	-380.42	-402.21
26	308	-14 52 4 0	-71 12 24 0	3975.07	-1161.15	-267.32	-300.61	-333.89	-367.18	-378.93	-400.45
27	409	-14 51 59 0	-71 11 51 0	3979.23	-1161.07	-267.10	-300.51	-333.84	-367.17	-378.55	-400.31
28	311	-14 51 28 0	-71 12 5 0	3976.45	-1161.14	-266.65	-299.99	-333.31	-366.63	-378.27	-399.95
29	310	-14 53 4 0	-71 12 22 0	3936.26	-1161.21	-267.03	-300.40	-333.71	-367.02	-378.50	-400.33
30	309	-14 52 34 0	-71 12 45 0	3957.90	-1155.95	-264.75	-297.91	-331.06	-364.23	-375.81	-397.35
31	3127	-14 59 2 0	-71 0 8 0	4216.59	-1217.76	-278.15	-312.78	-343.22	-379.15	-391.33	-415.08
32	3126	-14 59 19 0	-71 0 31 0	4245.95	-1225.13	-269.33	-304.51	-340.20	-375.76	-388.17	-411.23
33	520	-14 57 52 0	-71 1 20 0	4163.62	-1203.55	-272.97	-307.90	-342.66	-377.41	-389.65	-412.30
34	519	-14 57 47 0	-71 2 9 0	4134.34	-1201.74	-277.47	-312.02	-346.57	-381.13	-393.22	-415.60
35	518	-14 57 40 0	-71 2 51 0	4122.44	-1205.32	-277.92	-312.40	-346.88	-381.36	-393.43	-415.81
36	517	-14 56 36 0	-71 3 25 0	4131.07	-1205.31	-279.07	-313.65	-349.21	-382.82	-394.92	-417.40
37	516	-14 52 33 0	-71 3 53 0	4111.92	-1205.78	-280.39	-315.41	-349.02	-384.21	-396.28	-418.44
38	515	-14 57 23 0	-71 4 33 0	4036.49	-1203.13	-281.45	-316.15	-350.44	-384.73	-396.73	-418.98
39	514	-14 58 8 0	-71 5 0 0	4092.59	-1203.05	-282.61	-316.95	-351.21	-385.65	-397.47	-419.84
40	513	-14 55 56 0	-71 5 35 0	4140.50	-1235.92	-283.92	-318.45	-353.15	-387.81	-399.95	-422.41
41	512	-14 56 35 0	-71 5 55 0	4113.52	-1230.45	-283.52	-319.03	-352.58	-386.94	-399.00	-421.39
42	511	-14 56 1 0	-71 6 15 0	4050.54	-1207.94	-282.93	-317.14	-351.38	-385.62	-397.58	-419.96
43	510	-14 55 53 0	-71 6 41 0	4070.73	-1195.57	-283.24	-317.33	-351.42	-385.51	-397.45	-419.63
44	509	-14 55 43 0	-71 7 15 0	4051.64	-1194.15	-283.12	-317.05	-350.98	-384.91	-396.78	-418.84
45	508	-14 55 32 0	-71 7 49 0	4043.39	-1191.73	-282.60	-316.56	-350.33	-384.20	-396.05	-418.06
46	507	-14 55 21 0	-71 8 15 0	4030.00	-1188.00	-281.59	-315.45	-349.31	-382.97	-395.79	-416.73
47	506	-14 55 8 0	-71 8 53 0	4019.08	-1199.33	-280.52	-314.22	-347.91	-381.59	-393.37	-415.25
48	505	-14 55 3 0	-71 9 24 0	4000.17	-1174.96	-278.45	-312.06	-345.65	-379.21	-390.93	-412.81
49	504	-14 54 32 0	-71 9 59 0	4030.92	-1185.53	-277.14	-310.98	-345.51	-378.64	-390.59	-412.48
50	503	-14 54 25 0	-71 10 23 0	4017.19	-1189.20	-274.03	-307.65	-341.41	-375.17	-386.93	-408.93

BOUGUER ANOMALIES FOR SIX DENSITIES — MESCO 172

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 10 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.85
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
51	552	-14 54 20 0	-71 10 47 0	4084.40	-1119.47	-270.81	-304.43	-339.05	-373.67	-383.45	-405.30
52	501	-14 54 10 0	-71 11 17 0	3935.74	-1164.11	-267.95	-301.34	-334.72	-368.19	-379.79	-401.49
53	412	-14 53 53 0	-71 9 25 0	4036.21	-1191.55	-274.93	-307.92	-343.11	-377.25	-389.13	-411.28
54	411	-14 57 19 0	-71 9 37 0	4026.49	-1189.83	-275.26	-308.95	-342.85	-376.76	-388.14	-410.04
55	410	-14 54 56 0	-71 9 50 0	3935.76	-1173.22	-274.43	-307.91	-341.22	-374.66	-386.33	-409.05
56	409	-14 55 19 0	-71 9 51 0	4017.76	-1175.71	-274.96	-307.66	-341.26	-374.86	-386.62	-408.55
57	404	-14 57 46 0	-71 10 4 0	4007.01	-1175.50	-274.19	-307.43	-341.28	-374.83	-386.50	-409.18
58	407	-14 57 11 0	-71 10 13 0	4031.40	-1175.05	-275.17	-309.59	-342.18	-375.69	-387.51	-409.19
59	406	-14 56 41 0	-71 10 21 0	3974.63	-1173.69	-275.41	-309.43	-342.33	-375.77	-387.49	-409.22
60	405	-14 55 11 0	-71 10 31 0	3913.43	-1171.37	-274.73	-307.66	-341.04	-374.45	-386.14	-407.85
61	404	-14 55 49 0	-71 10 55 0	3971.12	-1166.02	-270.56	-303.89	-337.12	-370.35	-381.99	-403.59
62	403	-14 59 32 0	-71 11 23 0	4002.45	-1165.79	-265.73	-299.24	-332.75	-366.76	-377.84	-399.77
63	402	-14 55 8 0	-71 11 24 0	4015.12	-1169.99	-268.36	-301.93	-335.52	-369.11	-380.86	-402.49
64	401	-14 54 28 0	-71 11 37 0	3957.32	-1161.69	-265.17	-298.57	-331.97	-365.36	-377.05	-398.76
65	801	-14 48 3 0	-71 14 35 0	3954.91	-1165.59	-275.13	-308.25	-341.37	-374.53	-386.09	-407.82
66	802	-14 47 31 0	-71 14 45 0	3952.92	-1167.43	-276.57	-309.77	-342.95	-376.13	-387.74	-409.31
67	803	-14 47 9 0	-71 14 55 0	3969.31	-1170.63	-277.32	-311.16	-345.41	-377.85	-389.29	-410.99
68	804	-14 45 31 0	-71 14 57 0	3940.65	-1176.19	-278.01	-312.42	-345.76	-379.09	-390.76	-412.42
69	805	-14 46 34 0	-71 14 53 0	3931.20	-1179.15	-280.13	-313.51	-347.02	-380.47	-392.11	-413.92
70	806	-14 45 39 0	-71 14 54 0	3932.77	-1177.21	-281.55	-315.03	-349.45	-381.93	-393.51	-415.35
71	807	-14 55 4 0	-71 15 1 0	4011.47	-1194.52	-282.65	-316.27	-349.02	-383.49	-395.24	-417.03
72	809	-14 44 32 0	-71 15 5 0	4023.85	-1192.77	-283.59	-317.37	-351.17	-384.87	-396.59	-418.61
73	809	-14 44 11 0	-71 15 20 0	4027.52	-1132.24	-284.67	-318.33	-352.12	-385.86	-397.63	-419.57
74	810	-14 43 43 0	-71 15 39 0	3931.12	-1187.66	-286.27	-319.72	-353.14	-386.57	-398.22	-420.03
75	811	-14 43 10 0	-71 15 51 0	3972.99	-1187.76	-287.37	-320.86	-354.11	-387.63	-399.94	-420.47
76	812	-14 42 41 0	-71 16 2 0	3797.35	-1181.59	-288.12	-321.47	-354.92	-388.17	-399.84	-421.52
77	813	-14 42 18 0	-71 15 19 0	4002.89	-1189.75	-288.12	-322.33	-355.03	-389.35	-401.10	-422.49
78	814	-14 41 51 0	-71 15 21 0	3974.90	-1186.65	-288.53	-321.97	-355.45	-388.95	-400.64	-422.33
79	815	-14 41 20 0	-71 16 25 0	3986.17	-1186.78	-288.02	-321.41	-354.80	-388.12	-399.82	-421.37
80	951	-14 45 52 0	-71 24 45 0	3932.73	-1132.52	-260.70	-293.50	-326.27	-359.06	-370.49	-391.56
81	952	-14 46 16 0	-71 24 33 0	3872.27	-1135.77	-259.52	-292.22	-324.82	-357.42	-369.02	-389.01
82	953	-14 45 46 0	-71 24 45 0	3845.69	-1132.93	-259.37	-291.88	-324.38	-356.88	-368.26	-389.34
83	954	-14 45 35 0	-71 24 55 0	3871.09	-1131.35	-260.91	-293.33	-325.76	-359.16	-369.51	-390.55
84	955	-14 45 15 0	-71 24 49 0	3855.45	-1127.37	-260.34	-292.66	-324.94	-357.22	-368.52	-389.55
85	956	-14 44 12 0	-71 25 9 0	3882.55	-1127.83	-256.10	-288.03	-321.08	-353.53	-364.91	-385.98
86	957	-14 43 39 0	-71 24 59 0	3872.03	-1126.77	-254.67	-286.47	-319.34	-351.41	-363.14	-384.20
87	958	-14 43 12 0	-71 25 11 0	3816.68	-1129.45	-255.77	-291.56	-314.39	-347.18	-359.65	-379.98
88	959	-14 42 50 0	-71 24 52 0	3911.15	-1135.74	-251.93	-284.85	-317.76	-350.68	-362.23	-383.59
89	960	-14 42 17 0	-71 24 57 0	3912.83	-1132.45	-250.58	-283.81	-316.95	-350.09	-361.59	-383.24
90	961	-14 47 6 0	-71 24 15 0	3777.47	-1145.57	-251.21	-284.52	-317.82	-351.13	-362.73	-384.97
91	962	-14 51 19 0	-71 24 39 0	3772.50	-1155.92	-249.95	-282.35	-315.76	-349.16	-360.95	-382.58
92	963	-14 51 12 0	-71 24 35 0	3914.30	-1135.06	-248.27	-281.21	-314.15	-347.08	-358.61	-380.02
93	964	-14 47 33 0	-71 24 17 0	3856.35	-1112.18	-249.24	-281.58	-313.90	-346.22	-357.55	-378.55
94	4001	-14 49 20 0	-71 23 49 0	3876.45	-1121.26	-251.93	-283.75	-316.19	-348.63	-359.99	-381.07
95	4002	-14 49 24 0	-71 23 15 0	3833.40	-1127.31	-253.37	-285.95	-318.50	-351.05	-362.45	-383.61
96	4003	-14 49 27 0	-71 22 42 0	3884.10	-1135.45	-260.69	-292.99	-325.50	-358.01	-369.39	-390.51
97	4004	-14 49 22 0	-71 22 11 0	3958.20	-1145.58	-261.20	-293.91	-326.64	-359.32	-370.78	-392.00
98	4005	-14 49 5 0	-71 21 35 0	3932.20	-1145.02	-264.31	-300.95	-333.61	-365.26	-377.64	-398.92
99	4006	-14 32 56 0	-71 21 5 0	3918.90	-1155.15	-273.16	-306.35	-339.35	-372.44	-384.52	-405.95
100	4007	-14 37 54 0	-71 20 26 0	3919.20	-1165.03	-278.92	-311.32	-344.12	-376.91	-388.59	-409.71

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 173

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 11 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
101	4209	-14 38 52 0	-71 11 53 0	3928.20	-1165.49	-282.05	-315.93	-348.81	-380.69	-392.29	-413.37
102	4207	-14 38 42 0	-71 11 22 0	3933.10	-1169.95	-283.63	-316.53	-349.47	-382.49	-393.93	-415.35
103	4210	-14 38 51 0	-71 10 53 0	3952.60	-1174.17	-285.26	-318.35	-351.33	-385.31	-396.93	-417.83
104	4211	-14 45 26 0	-71 10 51 0	3993.50	-1141.31	-285.57	-318.70	-352.05	-385.30	-397.06	-418.71
105	4212	-14 41 1 0	-71 11 33 0	3939.60	-1185.10	-286.03	-319.32	-353.05	-386.56	-395.26	-420.04
106	4213	-14 41 26 0	-71 11 11 0	4026.30	-1191.31	-286.39	-320.13	-353.87	-387.61	-399.42	-421.35
107	4214	-14 41 52 0	-71 10 51 0	4049.90	-1199.52	-285.91	-319.88	-353.87	-387.33	-399.19	-421.38
108	4215	-14 42 22 0	-71 10 57 0	4033.90	-1191.15	-284.32	-318.12	-351.93	-385.73	-397.55	-419.53
109	4216	-14 42 50 0	-71 11 5 0	4015.20	-1188.53	-285.93	-317.59	-351.26	-384.92	-396.53	-418.36
110	3261	-14 55 40 0	-71 10 51 0	3983.65	-1153.97	-273.45	-306.19	-338.95	-371.71	-383.20	-404.31
111	3262	-14 53 21 0	-71 10 28 0	4039.10	-1174.85	-273.32	-306.91	-339.50	-374.09	-385.85	-407.61
112	3263	-14 52 59 0	-71 10 1 0	3939.40	-1174.52	-275.49	-308.69	-342.19	-375.70	-387.42	-409.23
113	3264	-14 52 38 0	-71 10 28 0	3995.60	-1172.81	-273.82	-307.25	-340.92	-374.03	-385.68	-407.38
114	3265	-14 53 5 0	-71 10 51 0	4005.50	-1172.16	-271.74	-305.34	-339.09	-372.44	-384.10	-405.93
115	3266	-14 53 8 0	-71 11 28 0	4004.70	-1169.89	-268.55	-302.02	-335.56	-369.11	-380.85	-402.65
116	3267	-14 52 53 0	-71 11 57 0	3997.40	-1163.02	-266.51	-299.91	-333.31	-366.71	-378.40	-400.11
117	3268	-14 53 59 0	-71 10 12 0	4059.20	-1156.16	-275.09	-308.03	-342.00	-376.08	-387.93	-410.98
118	3269	-14 53 6 0	-71 9 31 0	4000.60	-1175.20	-275.65	-309.15	-342.64	-376.15	-387.87	-409.65
119	3270	-14 53 32 0	-71 9 56 0	4029.40	-1180.45	-274.50	-308.26	-342.01	-375.26	-387.51	-409.31
120	3271	-14 53 45 0	-71 9 53 0	4024.30	-1181.12	-276.93	-310.91	-343.72	-377.43	-389.21	-411.14
121	3272	-14 54 5 0	-71 9 51 0	4057.00	-1184.65	-276.72	-310.61	-344.51	-378.41	-388.27	-410.53
122	3273	-14 54 23 0	-71 9 15 0	4059.75	-1190.20	-278.41	-312.77	-346.13	-380.69	-392.57	-414.65
123	3274	-14 54 1 0	-71 8 53 0	4026.40	-1183.85	-278.92	-312.26	-345.98	-379.65	-391.45	-413.41
124	3275	-14 54 26 0	-71 8 39 0	4035.70	-1187.71	-281.14	-315.09	-348.85	-382.57	-394.45	-416.34
125	3276	-14 55 2 0	-71 8 24 0	4039.30	-1198.42	-280.25	-314.08	-347.92	-381.75	-393.59	-415.59
126	3277	-14 54 30 0	-71 8 3 0	4040.50	-1192.06	-282.49	-316.54	-350.29	-384.11	-395.98	-417.94
127	3278	-14 55 7 0	-71 7 47 0	4041.70	-1199.98	-281.32	-315.51	-349.71	-383.95	-395.91	-418.13
128	3279	-14 56 32 0	-71 7 48 0	4062.50	-1195.34	-282.19	-316.22	-350.25	-384.28	-396.19	-418.31
129	3280	-14 55 33 0	-71 7 33 0	4055.00	-1195.38	-282.63	-316.52	-350.25	-384.51	-395.52	-418.53
130	3281	-14 55 9 0	-71 9 6 0	4052.70	-1193.59	-282.07	-316.41	-350.35	-384.29	-396.57	-418.23
131	3282	-14 55 33 0	-71 8 22 0	4077.90	-1199.34	-281.42	-315.76	-349.92	-384.07	-396.92	-418.22
132	3283	-14 54 41 0	-71 8 54 0	4068.30	-1192.91	-279.01	-313.04	-347.06	-381.09	-393.73	-415.90
133	3284	-14 53 59 0	-71 11 32 0	3992.20	-1161.91	-268.05	-301.38	-334.72	-369.05	-379.72	-401.38
134	3285	-14 52 40 0	-71 11 21 0	4022.70	-1171.45	-269.91	-303.54	-337.18	-370.81	-382.59	-404.44
135	3286	-14 52 42 0	-71 10 31 0	4002.40	-1182.41	-271.57	-305.09	-338.62	-372.16	-383.88	-405.61
136	3287	-14 52 12 0	-71 10 41 0	3999.90	-1167.41	-272.45	-305.00	-339.37	-373.74	-384.41	-405.10
137	3288	-14 52 8 0	-71 10 5 0	4019.70	-1172.56	-273.83	-307.51	-341.18	-374.86	-386.42	-408.50
138	3289	-14 52 21 0	-71 9 57 0	4017.90	-1179.07	-275.62	-309.27	-342.92	-376.57	-388.34	-410.22
139	3290	-14 51 52 0	-71 9 26 0	4047.10	-1187.11	-277.01	-310.91	-344.81	-378.71	-390.50	-412.41
140	3291	-14 51 44 0	-71 9 59 0	3999.85	-1175.27	-275.99	-309.49	-342.99	-376.53	-388.22	-410.00
141	3292	-14 51 42 0	-71 10 19 0	3976.70	-1165.17	-272.02	-305.42	-338.74	-371.03	-382.69	-405.33
142	3293	-14 51 43 0	-71 12 7 0	4006.00	-1169.25	-269.57	-303.15	-335.71	-369.27	-381.02	-402.83
143	3294	-14 52 8 0	-71 11 53 0	3972.90	-1162.72	-267.05	-300.93	-334.24	-367.43	-379.12	-400.73
144	3295	-14 51 7 0	-71 11 47 0	4029.10	-1176.87	-271.03	-304.75	-338.50	-372.25	-384.06	-406.00
145	3296	-14 49 51 0	-71 11 37 0	4081.20	-1187.55	-272.72	-306.61	-340.59	-374.13	-386.24	-408.95
146	3297	-14 50 10 0	-71 12 0 0	4062.50	-1185.64	-272.53	-306.37	-340.41	-374.45	-386.36	-409.49
147	3298	-14 50 31 0	-71 12 23 0	4042.90	-1185.24	-271.07	-305.16	-339.23	-373.22	-385.22	-407.38
148	3299	-14 53 11 0	-71 12 32 0	4072.70	-1188.92	-271.31	-305.42	-339.53	-373.63	-385.57	-407.76
149	3300	-14 52 26 0	-71 11 33 0	4050.60	-1193.61	-272.97	-306.90	-342.83	-376.13	-388.55	-410.70
150	3301	-14 49 34 0	-71 12 35 0	4061.70	-1199.01	-271.60	-305.62	-339.64	-373.66	-385.57	-407.68

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 174

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 11 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
151	3302	-14 49 21 0	-71 12 47 0	4035.00	-1179.26	-272.02	-305.62	-339.62	-373.41	-385.24	-407.21
152	3303	-14 49 58 0	-71 12 5 0	4027.90	-1178.65	-272.95	-306.73	-340.43	-374.16	-385.97	-407.93
153	3304	-14 49 3 0	-71 12 42 0	4015.60	-1174.69	-272.26	-305.86	-339.48	-373.10	-384.97	-406.72
154	3305	-14 49 31 0	-71 12 32 0	4024.50	-1177.95	-272.22	-305.96	-339.71	-373.55	-385.27	-407.28
155	3306	-14 49 49 0	-71 13 12 0	3977.60	-1165.75	-271.72	-305.02	-338.32	-371.62	-383.24	-404.92
156	3307	-14 49 11 0	-71 13 17 0	3970.50	-1165.01	-272.11	-305.35	-338.59	-371.83	-383.47	-405.57
157	3308	-14 49 55 0	-71 13 42 0	3958.60	-1165.21	-272.87	-305.12	-339.36	-372.60	-384.28	-405.86
158	3309	-14 50 6 0	-71 14 6 0	3968.70	-1168.45	-273.49	-306.76	-340.08	-373.43	-385.09	-406.77
159	3310	-14 47 35 0	-71 14 13 0	3995.20	-1172.95	-274.69	-308.16	-341.63	-375.10	-386.91	-408.55
160	3311	-14 45 58 0	-71 14 27 0	4038.90	-1177.84	-276.51	-310.09	-343.67	-377.25	-389.05	-410.82
161	3312	-14 45 43 0	-71 14 24 0	3988.20	-1175.10	-278.77	-312.15	-345.53	-378.91	-390.59	-412.27
162	3313	-14 45 19 0	-71 14 56 0	4043.90	-1187.37	-274.64	-310.91	-345.18	-379.43	-391.42	-413.59
163	3314	-14 45 50 0	-71 14 55 0	4063.40	-1192.63	-278.02	-312.05	-345.09	-380.91	-392.05	-414.97
164	3315	-14 44 9 0	-71 15 21 0	4013.00	-1183.64	-278.45	-312.06	-345.60	-379.33	-391.37	-412.97
165	3316	-14 47 2 0	-71 12 51 0	3973.20	-1169.31	-275.87	-309.16	-342.41	-375.67	-387.32	-408.96
166	3317	-14 44 39 0	-71 12 42 0	3991.50	-1172.39	-276.69	-310.05	-343.41	-376.77	-388.45	-410.13
167	3318	-14 45 11 0	-71 12 31 0	3974.50	-1174.30	-278.15	-309.59	-343.05	-376.59	-388.21	-409.96
168	3319	-14 45 45 0	-71 12 52 0	4020.20	-1179.03	-275.09	-309.76	-342.53	-376.19	-387.85	-409.77
169	3320	-14 42 41 0	-71 12 21 0	4012.90	-1176.95	-274.65	-308.26	-341.87	-375.47	-387.24	-409.08
170	3321	-14 45 39 0	-71 11 51 0	4015.50	-1176.58	-273.97	-307.39	-340.93	-374.55	-386.33	-408.19
171	3322	-14 46 9 0	-71 11 55 0	4012.10	-1178.65	-275.59	-309.24	-341.65	-375.26	-387.91	-409.11
172	3323	-14 46 39 0	-71 12 1 0	3965.10	-1165.78	-273.29	-306.45	-341.67	-374.09	-385.59	-407.38
173	3324	-14 47 32 0	-71 13 5 0	3965.20	-1168.47	-275.25	-308.65	-341.55	-374.85	-385.59	-408.97
174	3325	-14 46 43 0	-71 13 49 0	3989.10	-1173.07	-276.75	-310.16	-343.58	-376.97	-388.69	-410.49
175	3326	-14 47 2 0	-71 13 53 0	4049.10	-1170.38	-276.12	-310.92	-342.15	-376.95	-388.11	-410.91
176	3327	-14 47 35 0	-71 13 31 0	3967.00	-1167.76	-275.71	-308.93	-342.16	-375.35	-387.05	-408.57
177	4101	-14 40 3 0	-71 21 35 0	3939.10	-1128.92	-251.93	-284.91	-316.41	-349.22	-360.03	-381.92
178	4102	-14 39 43 0	-71 21 36 0	3974.60	-1153.48	-251.71	-284.59	-318.16	-351.61	-363.35	-384.11
179	4103	-14 31 31 0	-71 24 5 0	3981.00	-1171.15	-249.35	-282.62	-316.90	-351.10	-363.17	-385.45
180	4104	-14 39 6 0	-71 24 37 0	4061.70	-1159.25	-245.93	-279.42	-313.92	-347.91	-359.01	-381.91
181	4105	-14 39 31 0	-71 24 35 0	4052.60	-1158.35	-246.11	-280.15	-313.24	-348.45	-360.39	-382.39
182	4106	-14 38 43 0	-71 24 41 0	4049.10	-1157.32	-245.45	-279.21	-313.00	-346.78	-358.69	-380.55
183	4107	-14 39 22 0	-71 23 35 0	4095.90	-1170.81	-248.11	-282.92	-317.12	-351.29	-363.28	-385.48
184	4108	-14 38 47 0	-71 24 13 0	3930.45	-1135.55	-250.90	-283.83	-316.63	-349.54	-361.04	-382.49
185	4109	-14 38 1 0	-71 23 53 0	4002.60	-1152.07	-249.83	-283.15	-316.58	-350.04	-361.88	-383.54
186	4201	-14 49 21 0	-71 24 46 0	3992.80	-1131.09	-245.31	-279.33	-312.27	-345.14	-356.67	-378.04
187	4202	-14 42 5 0	-71 21 21 0	3937.90	-1119.38	-253.27	-286.21	-319.12	-352.04	-363.56	-385.95
188	4203	-14 39 41 0	-71 21 5 0	4027.70	-1172.93	-253.57	-287.77	-322.01	-356.75	-369.21	-391.45
189	4204	-14 39 32 0	-71 22 22 0	4022.50	-1179.55	-259.21	-293.22	-327.22	-361.23	-373.11	-395.11
190	4205	-14 39 11 0	-71 22 33 0	4096.70	-1191.01	-259.57	-293.94	-327.37	-362.31	-374.39	-396.37
191	4206	-14 38 52 0	-71 22 35 0	3935.10	-1155.95	-258.83	-291.18	-324.19	-357.61	-371.13	-392.52
192	4207	-14 38 0 0	-71 21 57 0	3907.50	-1169.65	-269.02	-302.52	-335.77	-367.92	-379.37	-402.62
193	4208	-14 39 21 0	-71 21 43 0	3932.50	-1157.17	-269.34	-302.70	-335.19	-367.52	-381.29	-403.91
194	4209	-14 39 3 0	-71 21 55 0	4032.90	-1176.35	-269.33	-303.94	-336.72	-370.54	-382.59	-404.79
195	4210	-14 39 4 0	-71 21 12 0	3995.20	-1172.19	-273.93	-307.47	-345.86	-374.93	-386.94	-407.28
196	4211	-14 36 57 0	-71 21 7 0	4009.60	-1175.56	-275.33	-308.07	-342.43	-375.93	-387.66	-409.55
197	4212	-14 38 13 0	-71 21 21 0	4022.40	-1174.13	-271.97	-305.56	-338.23	-372.95	-384.79	-406.85
198	4213	-14 39 25 0	-71 21 23 0	4031.90	-1177.01	-271.39	-304.06	-338.59	-372.34	-384.15	-405.89
199	4214	-14 39 24 0	-71 22 1 0	3925.40	-1183.18	-265.13	-299.03	-333.07	-367.01	-379.92	-401.92
200	4215	-14 39 5 0	-71 18 50 0	4027.20	-1187.33	-282.49	-316.34	-353.00	-383.67	-399.45	-417.33

BOUGUER ANOMALIES FOR SIX DENSITIES — MESCO 115

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 10 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
201	4216	-14 35 51 0	-71 19 4 0	4091.10	-1142.23	-282.55	-315.98	-352.59	-383.09	-394.92	-416.55
202	4217	-14 38 54 0	-71 18 29 0	4075.30	-1187.80	-283.69	-318.41	-349.74	-383.87	-395.12	-418.00
203	4218	-14 35 17 0	-71 19 37 0	4057.90	-1134.56	-279.86	-313.91	-347.92	-382.03	-393.95	-416.89
204	4219	-14 37 39 0	-71 19 39 0	4143.50	-1219.97	-278.15	-312.71	-347.32	-381.91	-394.91	-416.49
205	4220	-14 38 1 0	-71 20 32 0	4078.20	-1196.37	-277.32	-311.44	-349.58	-379.71	-391.66	-413.45
206	4221	-14 39 16 0	-71 23 7 0	4187.50	-1201.71	-278.15	-317.56	-345.96	-381.36	-393.49	-415.76
207	4222	-14 38 49 0	-71 23 23 0	4119.50	-1203.56	-277.27	-311.78	-346.28	-380.76	-392.95	-415.28
208	4223	-14 39 18 0	-71 20 38 0	4116.00	-1200.46	-274.72	-309.33	-343.55	-377.94	-389.98	-412.34
209	4224	-14 39 17 0	-71 19 53 0	4065.70	-1191.12	-282.69	-315.13	-349.56	-382.92	-395.76	-416.76
210	4225	-14 38 47 0	-71 19 53 0	4025.30	-1187.29	-281.91	-315.63	-349.28	-382.96	-394.75	-416.65
211	4226	-14 39 18 0	-71 19 19 0	3935.90	-1172.22	-283.33	-316.63	-349.93	-383.21	-394.99	-416.53
212	4227	-14 37 26 0	-71 21 19 0	3959.10	-1142.49	-271.97	-305.10	-338.22	-371.35	-382.95	-404.60
213	4228	-14 37 12 0	-71 21 11 0	4042.50	-1181.33	-272.32	-306.17	-342.02	-373.87	-385.72	-407.76
214	4229	-14 36 59 0	-71 23 55 0	4067.20	-1195.31	-271.02	-305.06	-339.91	-373.95	-385.91	-408.00
215	4230	-14 37 0 0	-71 20 37 0	4032.40	-1136.31	-276.51	-308.42	-342.30	-376.11	-388.05	-410.07
216	4231	-14 36 41 0	-71 20 29 0	4061.10	-1184.90	-275.04	-309.36	-343.98	-377.95	-389.91	-411.92
217	4232	-14 36 26 0	-71 21 4 0	4063.42	-1187.16	-272.15	-306.23	-340.28	-374.36	-386.25	-408.35
218	4233	-14 36 20 0	-71 20 7 0	4047.70	-1185.15	-277.13	-311.36	-345.59	-379.82	-391.80	-414.04
219	4234	-14 36 41 0	-71 19 59 0	4105.50	-1201.53	-278.26	-312.61	-346.98	-381.35	-393.38	-415.72
220	4235	-14 37 13 0	-71 19 55 0	4112.60	-1233.12	-278.03	-312.43	-346.84	-381.24	-393.28	-415.65
221	4236	-14 36 53 0	-71 19 24 0	4093.60	-1202.11	-279.49	-313.76	-349.01	-382.27	-394.26	-416.55
222	4237	-14 36 46 0	-71 18 59 0	4027.70	-1185.74	-280.34	-314.08	-347.81	-381.55	-393.35	-415.28
223	4238	-14 36 53 0	-71 19 16 0	4004.50	-1191.45	-281.76	-315.29	-348.81	-382.34	-394.07	-415.96
224	4239	-14 36 20 0	-71 19 33 0	4045.10	-1130.16	-285.01	-319.68	-351.55	-382.51	-394.76	-416.28
225	4240	-14 37 2 0	-71 18 25 0	3985.00	-1129.55	-282.51	-315.65	-348.39	-382.31	-394.00	-415.61
226	4241	-14 37 11 0	-71 18 45 0	3977.50	-1176.85	-282.61	-315.79	-349.10	-382.41	-394.07	-415.72
227	4242	-14 36 36 0	-71 18 0 0	3936.80	-1179.22	-280.53	-314.02	-347.56	-381.02	-392.74	-414.49
228	4243	-14 35 37 0	-71 17 55 0	3990.90	-1135.87	-285.11	-319.24	-352.58	-385.91	-397.61	-418.66
229	4244	-14 33 21 0	-71 19 1 0	3958.90	-1125.28	-282.21	-315.92	-349.64	-382.35	-393.93	-415.58
230	4245	-14 37 50 0	-71 15 59 0	4056.70	-1182.93	-275.71	-309.67	-343.84	-377.83	-389.49	-411.58
231	4246	-14 37 36 0	-71 16 46 0	4118.00	-1200.52	-279.26	-309.72	-343.20	-377.65	-389.15	-412.14
232	4249	-14 37 3 0	-71 15 59 0	4185.10	-1217.46	-271.50	-306.01	-341.01	-376.02	-388.27	-411.03
233	4250	-14 36 54 0	-71 16 22 0	4161.90	-1205.12	-271.71	-308.38	-343.04	-377.73	-389.85	-412.56
234	4253	-14 36 22 0	-71 16 33 0	4111.70	-1194.51	-273.94	-307.37	-342.10	-377.20	-389.25	-411.62
235	4251	-14 35 22 0	-71 16 2 0	4107.80	-1176.25	-272.36	-305.71	-341.12	-375.53	-387.53	-409.98
236	4252	-14 35 58 0	-71 17 39 0	4085.40	-1182.35	-279.75	-313.38	-347.01	-380.64	-392.41	-414.27
237	4253	-14 35 22 0	-71 18 22 0	4073.60	-1183.36	-278.26	-312.65	-345.14	-379.86	-391.65	-413.53
238	4255	-14 37 33 0	-71 17 37 0	4034.50	-1190.03	-281.94	-316.54	-349.23	-383.01	-393.49	-415.44
239	4255	-14 35 32 0	-71 18 0 0	4011.10	-1184.28	-282.33	-315.42	-349.62	-383.06	-394.81	-416.64
240	4256	-14 38 24 0	-71 17 31 0	4030.20	-1193.96	-282.76	-316.57	-350.43	-384.28	-396.07	-418.06
241	4257	-14 39 0 0	-71 17 51 0	3992.50	-1191.36	-283.72	-317.12	-350.61	-384.05	-395.74	-417.50
242	4245	-14 37 55 0	-71 16 19 0	3979.50	-1173.39	-284.73	-318.03	-351.37	-384.71	-396.39	-418.25
243	4258	-14 42 27 0	-71 16 12 0	4018.40	-1185.41	-282.57	-316.21	-349.86	-383.53	-395.22	-417.14
244	4259	-14 39 30 0	-71 18 23 0	3954.70	-1175.61	-286.31	-319.15	-352.27	-385.43	-396.93	-418.53
245	2001	-14 53 18 0	-71 19 17 0	4027.70	-1157.39	-252.25	-285.58	-319.53	-353.13	-365.90	-386.76
246	2002	-14 53 50 0	-71 19 33 0	4086.20	-1171.53	-252.35	-287.02	-321.19	-355.36	-367.32	-389.53
247	2003	-14 54 3 0	-71 19 52 0	4101.50	-1172.75	-255.76	-288.58	-319.91	-353.23	-365.24	-387.55
248	2004	-14 54 6 0	-71 20 24 0	4203.50	-1191.61	-245.47	-281.65	-316.84	-352.02	-364.34	-387.21
249	2005	-14 54 20 0	-71 20 33 0	4218.95	-1195.11	-247.72	-283.01	-318.31	-353.59	-365.95	-388.95
250	2006	-14 54 25 0	-71 19 54 0	4117.90	-1175.76	-252.67	-285.97	-319.35	-355.92	-365.47	-388.36

6330

BOUGUER ANOMALIES FOR SIX DENSITIES — MESCO 116

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 10 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
251	2007	-14 54 17 0	-71 19 28 0	4171.10	-1175.21	-252.59	-286.93	-321.19	-355.49	-367.49	-389.78
252	2008	-14 55 39 0	-71 19 37 0	4152.60	-1195.55	-251.57	-285.85	-320.60	-355.35	-367.51	-390.16
253	2009	-14 55 4 0	-71 19 31 0	4127.60	-1174.99	-251.59	-286.11	-320.65	-355.10	-367.27	-389.72
254	2010	-14 55 10 0	-71 20 0 0	4110.90	-1174.53	-257.71	-287.15	-321.59	-356.01	-369.09	-390.97
255	2011	-14 55 34 0	-71 20 27 0	4120.76	-1191.57	-252.95	-287.37	-321.80	-356.42	-368.50	-390.44
256	2012	-14 55 10 0	-71 20 33 0	4059.80	-1166.73	-253.55	-287.58	-321.51	-355.45	-367.31	-389.36
257	2013	-14 55 17 0	-71 19 56 0	4124.00	-1193.93	-252.41	-286.91	-321.45	-355.93	-367.99	-390.40
258	2014	-14 55 31 0	-71 19 31 0	4168.00	-1187.52	-252.11	-286.97	-321.81	-358.75	-369.45	-391.64
259	2015	-14 55 42 0	-71 18 59 0	4194.45	-1196.95	-252.70	-287.71	-322.63	-357.56	-369.78	-392.41
260	2016	-14 55 3 0	-71 18 55 0	4293.70	-1215.47	-249.31	-285.14	-321.95	-358.62	-369.41	-392.70
261	2017	-14 55 23 0	-71 18 15 0	4415.00	-1243.83	-249.10	-281.78	-318.65	-355.11	-367.97	-391.01
262	2018	-14 55 34 0	-71 18 52 0	4177.10	-1194.05	-254.76	-288.63	-323.51	-358.39	-370.57	-393.24
263	2019	-14 55 23 0	-71 18 57 0	4144.07	-1186.96	-251.65	-288.22	-322.74	-357.35	-369.43	-391.91
264	2020	-14 55 8 0	-71 19 47 0	4151.30	-1191.25	-254.61	-289.31	-324.02	-358.72	-370.87	-393.48
265	2021	-14 55 8 0	-71 18 18 0	4169.02	-1194.37	-252.64	-287.51	-322.54	-357.44	-369.69	-392.30
266	2022	-14 54 26 0	-71 17 52 0	4135.70	-1214.97	-247.42	-283.37	-319.12	-354.87	-367.39	-390.62
267	2023	-14 53 42 0	-71 17 53 0	4208.70	-1191.76	-251.93	-287.93	-322.13	-357.71	-369.51	-392.33
268	2024	-14 53 45 0	-71 17 24 0	4242.40	-1204.39	-250.17	-285.59	-321.01	-356.43	-368.81	-391.83
269	2025	-14 53 33 0	-71 17 55 0	4131.90	-1195.21	-256.43	-290.95	-325.50	-360.05	-372.11	-394.63
270	2026	-14 52 41 0	-71 18 6 0	4204.20	-1177.91	-256.73	-290.96	-325.10	-359.42	-371.43	-393.64
271	2027	-14 52 43 0	-71 18 12 0	4092.10	-1159.55	-259.31	-291.31	-325.23	-359.53	-370.42	-392.55
272	2028	-14 51 52 0	-71 17 51 0	4001.10	-1161.35	-261.37	-294.86	-328.34	-361.92	-373.54	-395.33
273	2029	-14 55 3 0	-71 18 13 0	4119.30	-1192.33	-255.80	-290.10	-324.42	-359.05	-371.12	-393.52
274	2030	-14 53 28 0	-71 18 44 0	4198.20	-1179.31	-255.17	-289.71	-324.04	-358.35	-370.37	-392.49
275	2031	-14 52 56 0	-71 18 42 0	4066.90	-1169.05	-255.56	-288.53	-322.52	-356.51	-368.41	-390.51
276	2032	-14 52 17 0	-71 18 47 0	4097.50	-1166.69	-255.57	-290.34	-324.16	-357.99	-369.77	-391.79
277	2033	-14 51 41 0	-71 18 32 0	4010.50	-1152.93	-258.12	-291.63	-325.26	-358.85	-370.50	-392.63
278	2034	-14 51 26 0	-71 18 33 0	4033.30	-1164.12	-259.65	-292.63	-326.71	-360.09	-371.82	-393.78
279	2035	-14 52 55 0	-71 18 31 0	3953.20	-1157.32	-263.61	-293.93	-327.19	-362.38	-372.27	-393.97
280	2036	-14 50 26 0	-71 15 15 0	3954.30	-1151.33	-261.96	-295.06	-328.18	-361.33	-372.93	-394.43
281	2037	-14 52 9 0	-71 14 59 0	3950.50	-1156.13	-263.52	-293.91	-327.19	-365.59	-372.13	-393.76
282	2038	-14 52 25 0	-71 17 32 0	4147.70	-1191.64	-252.05	-287.58	-322.32	-357.05	-369.31	-391.70
283	2039	-14 52 54 0	-71 16 52 0	4122.90	-1183.35	-254.36	-288.76	-323.19	-357.61	-369.56	-392.04
284	2040	-14 52 35 0	-71 16 6 0	3935.30	-1150.69	-257.95	-293.35	-324.79	-360.72	-371.42	-395.10
285	2041	-14 53 31 0	-71 15 31 0	4087.40	-1175.32	-255.74	-290.10	-325.01	-359.15	-371.49	-393.10
286	2042	-14 53 47 0	-71 15 17 0	4136.40	-1184.79	-253.57	-288.11	-322.66	-357.18	-369.22	-391.73
287	2043	-14 53 56 0	-71 17 13 0	4417.50	-1242.51	-245.95	-283.17	-319.65	-355.63	-368.19	-392.21
288	2044	-14 54 7 0	-71 16 44 0	4254.50	-1212.14	-253.08	-288.43	-321.93	-357.45	-369.89	-392.97
289	2045	-14 55 31 0	-71 15 2 0	4026.30	-1177.92	-257.28	-290.87	-324.16	-362.25	-374.10	-396.35
290	2046	-14 55 16 0	-71 15 41 0	4175.95	-1195.95	-258.72	-293.82	-327.12	-362.11	-374.20	-396.76
291	2047	-14 55 58 0	-71 15 34 0	4092.55	-1177.52	-255.73	-292.83	-326.94	-361.05	-372.99	-395.18
292	2048	-14 55 46 0	-71 15 55 0	4145.70	-1187.19	-257.96	-292.38	-327.02	-361.65	-373.79	-396.38
293	2049	-14 55 36 0	-71 16 32 0	4120.10	-1195.88	-257.54	-292.42	-327.25	-362.12	-375.32	-396.94
294	2050	-14 55 37 0	-71 17 31 0	4318.14	-1271.06	-250.07	-269.94	-320.82	-356.19	-369.39	-392.77
295	2051	-14 55 12 0	-71 16 51 0	4138.58	-1185.78	-259.85	-292.64	-327.29	-361.91	-374.03	-396.53
296	2052	-14 54 55 0	-71 16 0 0	4135.14	-1194.75	-258.11	-292.55	-327.90	-362.44	-374.50	-395.89
297	2053	-14 55 8 0	-71 16 5 0	4070.50	-1175.23	-255.91	-292.77	-326.71	-362.54	-372.57	-395.57
298	2054	-14 55 31 0	-71 16 16 0	4152.60	-1197.31	-255.96	-292.76	-327.49	-362.71	-374.97	-398.44
299	2055	-14 55 24 0	-71 16 43 0	4142.50	-1195.21	-255.12	-289.98	-325.12	-360.55	-372.62	-395.20
300	2056	-14 55 6 0	-71 17 15 0	4253.91	-1219.52	-251.55	-246.65	-322.01	-357.96	-369.71	-392.71

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 177

THE GRAVIMETRIC SURVEY OF TAJO AREA IN PERU 1972 10 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	C.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.90
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
301	2057	-14 53 21 0	-71 16 55 0	4443.69	-1245.15	-249.83	-280.55	-317.46	-354.37	-367.29	-391.29
302	2058	-14 54 43 0	-71 16 31 0	4415.20	-1241.50	-256.09	-282.75	-319.44	-355.18	-369.02	-392.48
303	2059	-14 52 1 0	-71 15 16 0	3953.90	-1151.26	-262.24	-295.33	-329.41	-361.50	-373.09	-395.59
304	2060	-14 51 43 0	-71 16 34 0	3959.12	-1153.19	-262.77	-295.91	-329.06	-362.23	-373.40	-395.44
305	2061	-14 51 31 0	-71 17 13 0	3953.40	-1152.32	-263.15	-298.24	-329.33	-362.42	-374.09	-395.51
306	2062	-14 52 6 0	-71 17 12 0	4004.90	-1165.35	-258.98	-292.16	-325.41	-359.25	-370.96	-392.70
307	2063	-14 51 23 0	-71 17 33 0	3952.20	-1152.75	-263.14	-296.07	-329.95	-363.03	-374.41	-396.12
308	2064	-14 51 0 0	-71 19 42 0	4156.60	-1184.01	-247.01	-282.47	-317.12	-351.77	-363.90	-386.43
309	2065	-14 53 22 0	-71 20 2 0	4255.40	-1205.92	-255.11	-291.12	-318.52	-351.31	-365.92	-387.33
310	2066	-14 52 49 0	-71 20 8 0	4127.50	-1179.92	-247.14	-281.64	-316.13	-350.66	-362.73	-385.16
311	2067	-14 52 34 0	-71 19 55 0	4099.50	-1172.11	-245.03	-282.13	-316.62	-350.92	-362.93	-385.22
312	2068	-14 52 3 0	-71 19 36 0	4047.20	-1160.45	-251.04	-284.47	-318.13	-352.53	-364.17	-386.36
313	2069	-14 51 30 0	-71 20 1 0	3983.50	-1148.18	-252.45	-286.21	-319.83	-352.81	-365.65	-386.32
314	2070	-14 52 34 0	-71 20 14 0	4110.90	-1171.90	-245.87	-280.13	-314.38	-348.64	-360.83	-382.07
315	2071	-14 53 4 0	-71 20 20 0	4155.18	-1181.12	-245.42	-280.09	-314.75	-349.42	-361.86	-385.10
316	2072	-14 52 12 0	-71 20 11 0	4117.93	-1177.33	-247.45	-281.54	-315.63	-349.71	-361.86	-383.10
317	2073	-14 51 45 0	-71 20 9 0	4013.20	-1153.59	-250.92	-284.53	-318.00	-351.66	-363.42	-385.24
318	2074	-14 51 37 0	-71 19 42 0	3995.90	-1153.02	-254.43	-287.97	-321.36	-354.79	-366.55	-389.24
319	2075	-14 51 9 0	-71 19 34 0	3966.20	-1150.71	-258.82	-292.11	-325.32	-358.54	-370.16	-391.18
320	2076	-14 50 34 0	-71 19 30 0	3958.90	-1159.50	-260.17	-293.32	-326.49	-359.64	-371.24	-392.03
321	2077	-14 49 32 0	-71 18 34 0	3953.50	-1150.78	-264.15	-297.18	-330.22	-363.25	-376.91	-396.28
322	2078	-14 50 0 0	-71 19 31 0	3942.90	-1149.57	-261.16	-294.18	-329.21	-362.23	-373.79	-395.29
323	2079	-14 49 59 0	-71 20 0 0	3951.78	-1152.37	-262.42	-295.54	-328.66	-361.12	-373.36	-395.07
324	2080	-14 49 30 0	-71 19 54 0	3938.50	-1145.83	-269.73	-296.73	-329.47	-362.45	-374.16	-395.41
325	2081	-14 50 22 0	-71 20 4 0	3975.10	-1154.13	-260.25	-293.57	-326.83	-360.14	-371.79	-393.93
326	2082	-14 50 50 0	-71 20 4 0	3987.49	-1154.75	-258.14	-291.53	-324.92	-358.31	-370.00	-391.78
327	2083	-14 51 4 0	-71 20 1 0	4012.80	-1159.65	-256.21	-289.82	-325.49	-357.08	-369.84	-393.68
328	2084	-14 51 19 0	-71 20 32 0	3970.80	-1144.74	-251.42	-284.65	-317.88	-351.13	-362.74	-384.33
329	2085	-14 50 51 0	-71 20 41 0	4001.59	-1156.31	-255.46	-289.49	-322.24	-355.82	-367.59	-389.35
330	2086	-14 50 35 0	-71 20 36 0	4011.70	-1157.91	-255.68	-289.27	-322.86	-356.45	-368.20	-390.91
331	2087	-14 50 15 0	-71 20 36 0	3993.18	-1153.62	-257.71	-291.09	-324.45	-357.85	-369.52	-391.92
332	2088	-14 49 58 0	-71 20 31 0	3990.09	-1154.31	-259.35	-292.63	-325.95	-359.27	-370.93	-392.59
333	2089	-14 49 38 0	-71 20 26 0	3964.10	-1152.56	-261.23	-294.19	-327.51	-360.79	-372.41	-393.98
334	2090	-14 49 54 0	-71 20 47 0	3967.00	-1144.51	-257.11	-290.17	-323.24	-356.32	-367.97	-389.35
335	2091	-14 49 35 0	-71 21 1 0	3950.20	-1151.14	-256.22	-289.56	-322.82	-356.25	-367.92	-389.57
336	2092	-14 49 49 0	-71 21 19 0	4004.30	-1155.15	-253.91	-287.49	-321.01	-354.55	-366.26	-389.95
337	2093	-14 49 30 0	-71 21 29 0	3927.00	-1137.24	-254.26	-287.15	-320.05	-352.95	-364.51	-385.82
338	2094	-14 49 4 0	-71 21 41 0	3901.00	-1133.69	-256.35	-289.51	-321.63	-354.35	-365.93	-387.09
339	2095	-14 49 11 0	-71 21 3 0	3910.70	-1151.41	-259.81	-292.08	-325.33	-358.57	-370.21	-391.55
340	2096	-14 49 49 0	-71 20 57 0	3946.57	-1149.78	-262.33	-295.34	-328.30	-361.42	-372.99	-394.90
341	2097	-14 49 22 0	-71 22 17 0	3915.00	-1135.92	-258.12	-290.91	-323.72	-356.51	-367.97	-389.28
342	2098	-14 49 22 0	-71 22 37 0	3936.30	-1143.96	-258.91	-291.88	-324.86	-357.81	-369.35	-390.78
343	2099	-14 49 25 0	-71 21 54 0	3905.90	-1133.35	-255.07	-287.72	-320.45	-353.11	-364.52	-385.08
344	2100	-14 49 45 0	-71 22 4 0	3915.80	-1136.49	-256.15	-288.97	-321.76	-354.55	-366.91	-387.34
345	2401	-14 49 55 0	-71 22 22 0	3920.30	-1145.47	-258.93	-291.85	-324.68	-357.51	-368.98	-390.32
346	2402	-14 50 5 0	-71 22 22 0	3913.90	-1137.77	-257.15	-289.91	-322.68	-355.45	-366.92	-389.88
347	2403	-14 51 12 0	-71 22 20 0	3966.60	-1142.95	-255.37	-288.65	-321.93	-355.42	-366.95	-388.53
348	2404	-14 50 42 0	-71 22 20 0	3919.80	-1137.41	-255.97	-289.73	-321.55	-354.38	-365.85	-387.18
349	2405	-14 50 26 0	-71 22 34 0	3911.50	-1136.87	-257.11	-290.06	-322.61	-355.55	-367.01	-388.53
350	2406	-14 50 13 0	-71 22 6 0	3926.40	-1134.95	-256.55	-289.36	-322.22	-355.04	-366.51	-387.95

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 178

THE GRAVIMETRIC SURVEY OF TAJO AREA IN PERU 1972 10 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	C.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.90
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
351	2407	-14 50 20 0	-71 21 55 0	3938.70	-1136.15	-255.15	-287.87	-325.59	-353.32	-364.77	-386.04
352	2408	-14 50 49 0	-71 21 39 0	3921.00	-1136.83	-252.93	-285.75	-318.56	-351.37	-362.86	-384.19
353	2409	-14 51 16 0	-71 21 34 0	3939.80	-1137.20	-250.95	-283.79	-316.88	-349.87	-361.19	-382.60
354	2410	-14 51 11 0	-71 21 28 0	3967.00	-1142.54	-249.74	-282.92	-316.07	-349.21	-360.91	-382.36
355	2411	-14 51 10 0	-71 21 1 0	3974.50	-1144.27	-250.04	-283.27	-316.50	-349.73	-361.36	-382.95
356	2412	-14 50 56 0	-71 21 26 0	3924.00	-1134.95	-252.39	-285.22	-318.06	-350.93	-362.39	-383.76
357	2413	-14 50 23 0	-71 21 4 0	4001.80	-1155.21	-255.34	-290.05	-322.56	-355.47	-367.55	-389.39
358	2414	-14 49 53 0	-71 21 41 0	3984.70	-1150.24	-254.20	-287.54	-320.89	-354.24	-365.91	-387.59
359	2415	-14 53 5 0	-71 19 39 0	4007.80	-1154.56	-252.59	-286.07	-319.55	-353.05	-364.78	-386.57
360	2416	-14 52 37 0	-71 19 5 0	3987.80	-1149.53	-253.30	-286.62	-319.95	-353.28	-364.94	-386.59
361	2417	-14 52 9 0	-71 19 9 0	3970.70	-1147.92	-254.11	-287.94	-321.18	-354.37	-366.07	-387.61
362	2418	-14 51 44 0	-71 19 9 0	3965.03	-1145.69	-258.35	-291.36	-324.37	-357.38	-368.94	-390.19
363	2419	-14 50 51 0	-71 19 0 0	3932.42	-1145.14	-260.65	-293.57	-326.50	-359.44	-370.95	-392.36
364	2420	-14 50 19 0	-71 19 7 0	3917.61	-1149.67	-267.57	-295.37	-328.15	-360.96	-372.44	-393.75
365	2421	-14 49 47 0	-71 18 55 0	3926.70	-1149.64	-263.39	-296.13	-328.91	-361.49	-373.16	-394.47
366	2422	-14 49 23 0	-71 18 45 0	3939.80	-1153.33	-266.37	-299.02	-331.67	-364.32	-375.75	-396.97
367	2423	-14 48 33 0	-71 24 6 0	3835.18	-1131.08	-263.16	-295.78	-328.41	-361.04	-372.46	-393.62
368	2424	-14 47 59 0	-71 24 4 0	3901.40	-1130.92	-261.19	-294.43	-327.11	-355.78	-371.27	-392.47
369	2425	-14 48 12 0	-71 24 6 0	3979.60	-1137.19	-259.22	-290.96	-323.70	-358.43	-367.89	-389.17
370	2426	-14 48 59 0	-71 24 15 0	3911.30	-1134.95	-255.55	-288.32	-321.08	-353.86	-365.31	-386.41
371	2427	-14 49 4 0	-71 25 34 0	3910.60	-1134.91	-253.56	-286.39	-319.22	-352.06	-363.55	-384.69
372	2428	-14 48 31 0	-71 23 35 0	3915.80	-1137.92	-257.17	-289.97	-322.77	-355.57	-367.05	-388.37
373	2429	-14 48 59 0	-71 23 28 0	3911.90	-1149.55	-260.97	-293.31	-326.09	-358.87	-370.35	-391.46
374	2430	-14 47 21 0	-71 23 27 0	3970.70	-1155.12	-263.31	-296.55	-329.79	-363.02	-374.55	-396.76
375	2431	-14 47 25 0	-71 22 55 0	3925.10	-1142.21	-263.73	-296.72	-330.14	-363.27	-374.77	-397.92
376	2432	-14 47 57 0	-71 22 54 0	3920.90	-1140.17	-261.39	-294.26	-327.15	-360.04	-371.55	-392.92
377	2433	-14 48 34 0	-71 22 56 0	3918.00	-1139.92	-258.97	-291.81	-324.67	-357.41	-369.09	-390.28
378	2434	-14 49 5 0	-71 22 55 0	3921.30	-1137.20	-255.17	-288.03	-320.87	-353.76	-365.76	-386.67
379	2435	-14 49 5 0	-71 22 21 0	3951.10	-1147.71	-259.18	-292.24	-325.39	-358.47	-370.05	-391.57
380	2436	-14 48 30 0	-71 22 26 0	3957.00	-1152.19	-261.97	-294.26	-327.43	-360.59	-372.20	-393.76
381	2437	-14 47 57 0	-71 22 21 0	3929.20	-1155.03	-262.52	-295.51	-328.42	-361.34	-372.85	-393.73
382	2438	-14 47 21 0	-71 22 14 0	3931.42	-1144.59	-265.94	-298.67	-331.49	-364.15	-375.59	-396.93
383	2439	-14 47 33 0	-71 21 38 0	3882.10	-1138.47	-265.55	-297.97	-332.67	-363.61	-374.39	-395.53
384	2440	-14 44 0 0	-71 21 34 0	3849.60	-1136.16	-269.93	-296.37	-328.95	-361.53	-372.95	-394.14
385	2441	-14 48 11 0	-71 21 47 0	3831.60	-1137.36	-262.23	-293.11	-328.33	-359.97	-371.17	-392.55
386	2442	-14 48 41 0	-71 21 49 0	3893.00	-1136.33	-269.47	-293.28	-325.86	-358.66	-369.17	-391.26
387	2443	-14 48 34 0	-71 21 14 0	3957.10	-1152.66	-260.79	-293.94	-327.09	-359.26	-371.36	-393.39
388	2444	-14 49 10 0	-71 21 19 0	3938.40	-1149.20	-262.79	-295.78	-328.78	-361.77	-373.01	-394.74
389	4301	-14 46 25 0	-71 24 5 0	3901.00	-1141.11	-262.52	-298.20	-328.89	-362.39	-373.72	-394.87
390	4302	-14 45 50 0	-71 24 6 0	3830.00	-1134.90	-262.55	-295.21	-327.86	-360.51	-371.93	-393.16
391	4303	-14 45 16 0	-71 24 12 0	3865.39	-1132.12	-262.26	-295.31	-328.40	-360.04	-371.97	-392.91
392	4304	-14 45 17 0	-71 23 45 0	3857.60	-1132.87	-264.21	-296.47	-328.73	-360.99	-372.28	-393.75
393	4305	-14 45 35 0	-71 23 28 0	3875.30	-1135.03	-264.65	-296.90	-329.15	-361.35	-372.65	-394.26
394	4306	-14 45 9 0	-71 23 15 0	3991.45	-1169.49	-265.13	-298.45	-331.42	-365.35	-376.93	-398.51
395	4307	-14 45 6 0	-71 22 47 0	3971.29	-1164.90	-267.37	-300.31	-334.22	-367.01	-379.38	-401.94
396	3501	-14 45 53 0	-71 22 39 0	4035.10	-1167.02	-267.13	-299.77	-332.36	-365.00	-376.42	-397.42
397	3502	-14 44 2 0	-71 22 12 0	4067.90	-1139.35	-269.54	-302.91	-339.32	-365.49	-377.02	-399.91
398	3503	-14 45 33 0	-71 22 9 0	3963.50	-1155.39	-268.18	-301.82	-334.75	-367.79	-379.95	-400.92
399	3504	-14 44 20 0	-71 21 49 0	4009.40	-1149.81	-265.38	-301.91	-335.50	-369.12	-380.91	-402.77
400	3505	-14 45 6 0	-71 21 12 0	3983.60	-1145.59	-269.09	-303.36	-336.73	-370.11	-381.79	-403.49

BOUGUER ANOMALIES FOR SIX DENSITIES — MESCO 179

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 10 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
401	3506	-14 45 3 0	-71 22 15 0	4249.00	-1181.26	-271.42	-305.40	-339.32	-373.25	-385.12	-407.17
402	3507	-14 45 25 0	-71 21 6 0	4114.00	-1171.19	-269.49	-302.18	-335.75	-369.38	-381.14	-403.53
403	3508	-14 45 41 0	-71 21 15 0	3973.10	-1162.05	-268.47	-301.96	-335.20	-368.42	-380.12	-401.76
404	3509	-14 45 59 0	-71 21 34 0	3930.60	-1153.51	-267.82	-300.79	-333.77	-366.74	-378.29	-399.72
405	3510	-14 46 33 0	-71 21 9 0	3880.60	-1141.98	-267.34	-299.88	-332.41	-364.95	-376.34	-397.49
406	3511	-14 45 49 0	-71 20 29 0	3999.30	-1169.24	-270.06	-303.56	-337.06	-370.56	-382.28	-404.06
407	3512	-14 46 11 0	-71 20 50 0	3922.30	-1150.58	-268.28	-301.10	-333.91	-366.73	-378.21	-399.54
408	3513	-14 46 44 0	-71 20 37 0	3891.10	-1141.59	-266.65	-299.28	-331.82	-364.41	-375.81	-397.00
409	2501	-14 46 45 0	-71 22 36 0	3915.50	-1145.01	-265.17	-298.62	-331.38	-364.14	-375.60	-396.90
410	2502	-14 46 46 0	-71 21 12 0	3928.10	-1147.59	-264.23	-297.11	-330.00	-362.89	-374.40	-395.77
411	2503	-14 49 2 0	-71 20 11 0	3911.50	-1143.20	-263.49	-296.45	-329.21	-361.97	-373.43	-394.73
412	2504	-14 49 8 0	-71 19 17 0	3920.90	-1144.03	-264.44	-297.28	-330.12	-362.96	-374.45	-395.83
413	3514	-14 47 11 0	-71 20 24 0	3882.50	-1142.13	-269.24	-301.76	-334.28	-366.81	-378.19	-399.33
414	3515	-14 47 49 0	-71 20 10 0	3887.50	-1142.70	-268.55	-301.19	-333.89	-366.25	-377.64	-399.09
415	3516	-14 49 6 0	-71 19 53 0	3878.10	-1144.18	-267.59	-300.25	-332.90	-365.56	-376.93	-398.21
416	3517	-14 49 5 0	-71 19 18 0	3933.20	-1159.18	-265.96	-298.41	-331.74	-364.73	-376.29	-397.65
417	3518	-14 49 5 0	-71 18 45 0	3931.00	-1152.83	-269.03	-301.93	-334.85	-367.78	-379.31	-400.71
418	3519	-14 49 2 0	-71 18 18 0	3930.90	-1155.93	-272.07	-304.99	-337.91	-370.83	-382.36	-403.76
419	3520	-14 47 37 0	-71 17 53 0	3944.90	-1169.95	-273.50	-306.51	-339.51	-372.52	-384.07	-405.52
420	3521	-14 47 26 0	-71 18 36 0	3955.60	-1167.56	-273.18	-306.24	-339.36	-372.49	-384.07	-405.40
421	3522	-14 45 55 0	-71 19 7 0	3963.50	-1165.92	-272.78	-305.98	-339.18	-372.38	-383.92	-405.58
422	3523	-14 47 32 0	-71 19 13 0	3950.96	-1159.41	-270.12	-303.22	-336.32	-369.41	-381.00	-402.51
423	3524	-14 47 24 0	-71 19 50 0	3920.50	-1164.21	-271.63	-304.46	-338.13	-371.33	-383.03	-404.45
424	3525	-14 47 4 0	-71 19 51 0	3957.50	-1163.87	-273.93	-307.06	-340.20	-373.35	-384.93	-406.48
425	3526	-14 45 24 0	-71 19 25 0	3915.60	-1156.32	-275.03	-308.55	-341.30	-374.26	-385.52	-406.81
426	3527	-14 45 26 0	-71 18 51 0	3905.70	-1154.07	-275.91	-308.62	-341.34	-374.05	-385.50	-406.76
427	3528	-14 46 4 0	-71 18 51 0	3928.20	-1155.68	-276.52	-309.43	-342.34	-375.25	-386.77	-408.16
428	3529	-14 45 40 0	-71 18 55 0	4058.80	-1187.70	-275.03	-309.01	-342.99	-376.97	-388.87	-410.95
429	3530	-14 45 5 0	-71 20 9 0	4006.50	-1178.05	-277.24	-310.85	-344.47	-377.98	-389.78	-411.54
430	3531	-14 45 5 0	-71 18 33 0	4020.70	-1183.51	-279.59	-313.24	-346.97	-380.65	-392.44	-414.34
431	3532	-14 45 9 0	-71 18 56 0	4050.70	-1183.56	-280.51	-314.28	-349.06	-381.95	-393.49	-415.65
432	3533	-14 45 19 0	-71 18 21 0	3933.50	-1165.83	-281.22	-314.15	-347.07	-380.00	-391.53	-412.93
433	3534	-14 45 59 0	-71 18 32 0	3922.20	-1152.66	-280.47	-313.50	-346.35	-379.18	-390.68	-412.02
434	3535	-14 45 42 0	-71 19 0 0	4021.90	-1193.06	-278.37	-312.06	-345.74	-379.48	-391.23	-413.20
435	3536	-14 45 55 0	-71 18 25 0	3906.10	-1176.13	-277.78	-311.19	-344.62	-378.16	-389.95	-411.92
436	3537	-14 46 35 0	-71 18 34 0	3927.60	-1165.37	-277.35	-310.26	-343.16	-376.06	-387.57	-408.96
437	3538	-14 46 50 0	-71 18 11 0	3960.40	-1166.09	-275.45	-308.61	-341.78	-374.92	-386.52	-408.07
438	3539	-14 46 45 0	-71 17 49 0	4014.20	-1179.20	-276.52	-310.13	-343.74	-377.35	-389.11	-410.96
439	3541	-14 45 52 0	-71 15 52 0	3932.00	-1152.76	-275.73	-308.47	-341.61	-374.55	-386.08	-407.48
440	3542	-14 48 25 0	-71 18 18 0	3949.90	-1165.07	-278.92	-311.41	-344.20	-377.28	-388.87	-410.30
441	3543	-14 47 53 0	-71 15 15 0	3992.90	-1175.09	-275.16	-308.69	-342.21	-375.76	-387.50	-409.30
442	3544	-14 47 24 0	-71 15 32 0	4012.30	-1182.33	-275.54	-309.30	-343.05	-376.81	-388.62	-410.57
443	3545	-14 47 14 0	-71 15 35 0	3975.70	-1173.66	-276.65	-309.93	-343.16	-376.41	-388.05	-409.67
444	3546	-14 47 31 0	-71 15 53 0	3957.20	-1167.02	-275.99	-309.18	-342.33	-375.50	-387.11	-408.67
445	3547	-14 47 27 0	-71 15 23 0	3949.90	-1164.44	-276.53	-309.68	-342.77	-375.86	-387.44	-408.95
446	3548	-14 47 26 0	-71 16 54 0	3934.70	-1160.47	-275.72	-308.67	-341.62	-374.58	-386.11	-407.53
447	3549	-14 45 59 0	-71 16 53 0	3933.50	-1161.80	-276.96	-309.42	-342.81	-375.76	-387.26	-408.67
448	3550	-14 47 0 0	-71 15 21 0	4078.50	-1178.30	-276.92	-310.48	-344.04	-377.60	-389.34	-411.16
449	3551	-14 46 55 0	-71 15 37 0	4020.63	-1180.61	-276.67	-310.35	-344.03	-377.72	-389.52	-411.43
450	3552	-14 46 21 0	-71 15 24 0	4074.70	-1194.80	-278.30	-312.45	-345.49	-380.53	-392.52	-414.65

BOUGUER ANOMALIES FOR SIX DENSITIES — MESCO 180

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 10 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
451	3553	-14 45 45 0	-71 15 25 0	4029.50	-1185.66	-279.96	-313.71	-347.47	-381.22	-393.03	-414.97
452	3554	-14 45 15 0	-71 15 24 0	4078.20	-1196.75	-279.31	-313.59	-347.65	-381.82	-393.77	-415.97
453	3555	-14 49 15 0	-71 16 2 0	3973.40	-1175.15	-281.39	-314.63	-347.88	-381.12	-392.76	-414.36
454	3556	-14 45 44 0	-71 16 2 0	4022.40	-1184.54	-280.61	-314.29	-347.97	-381.65	-393.43	-415.32
455	3557	-14 46 19 0	-71 16 3 0	3991.80	-1177.38	-279.88	-312.32	-345.75	-380.19	-391.89	-413.63
456	3558	-14 46 20 0	-71 16 31 0	3953.10	-1169.79	-280.42	-313.57	-346.83	-379.76	-391.33	-412.85
457	3559	-14 46 23 0	-71 16 59 0	3927.60	-1164.12	-280.97	-313.86	-345.75	-379.64	-391.15	-412.53
458	3560	-14 45 44 0	-71 16 33 0	4018.55	-1181.31	-279.43	-313.06	-346.66	-380.28	-392.04	-413.69
459	3561	-14 45 24 0	-71 16 44 0	4006.70	-1182.31	-279.71	-313.08	-346.45	-379.82	-391.50	-413.19
460	3562	-14 49 21 0	-71 14 33 0	3949.10	-1167.51	-276.63	-309.67	-342.70	-375.74	-387.26	-408.71
461	3563	-14 49 48 0	-71 16 35 0	3959.60	-1166.43	-276.08	-309.26	-342.45	-375.56	-387.17	-408.72
462	3564	-14 49 15 0	-71 17 28 0	3945.10	-1163.35	-276.12	-309.17	-342.23	-375.28	-386.85	-408.33
463	3565	-14 48 43 0	-71 17 33 0	3938.20	-1159.74	-274.27	-307.26	-340.24	-373.23	-384.77	-406.22
464	3566	-14 49 7 0	-71 18 1 0	3945.90	-1155.19	-277.12	-305.11	-338.14	-371.15	-382.70	-404.18
465	3567	-14 47 34 0	-71 17 23 0	3918.80	-1157.38	-278.11	-308.92	-341.74	-374.55	-386.03	-407.38
466	3568	-14 47 2 0	-71 17 54 0	3934.90	-1160.79	-276.05	-308.98	-341.91	-374.84	-386.37	-407.77
467	3569	-14 48 20 0	-71 17 27 0	3942.80	-1174.48	-279.11	-312.47	-345.83	-379.19	-390.86	-412.55
468	3570	-14 48 18 0	-71 18 6 0	4002.50	-1177.44	-278.25	-311.83	-345.41	-378.99	-390.75	-412.58
469	3571	-14 45 52 0	-71 17 51 0	3958.90	-1169.59	-279.50	-312.68	-345.82	-378.99	-390.59	-412.15
470	3572	-14 45 47 0	-71 17 22 0	3958.50	-1170.03	-279.76	-312.89	-345.02	-379.16	-390.75	-412.29
471	3573	-14 45 11 0	-71 17 31 0	3972.50	-1175.93	-281.59	-314.89	-349.20	-381.51	-393.17	-414.82
472	3574	-14 44 52 0	-71 18 10 0	3962.80	-1172.84	-281.89	-315.09	-349.70	-381.49	-393.10	-414.69
473	3575	-14 44 10 0	-71 17 55 0	3955.60	-1174.25	-284.82	-317.95	-351.08	-384.21	-395.83	-417.34
474	3576	-14 43 34 0	-71 17 30 0	4006.00	-1186.55	-285.59	-319.43	-352.99	-386.55	-398.29	-420.11
475	3577	-14 43 41 0	-71 18 37 0	4010.20	-1185.33	-283.89	-317.29	-350.88	-384.47	-396.23	-418.06
476	3578	-14 44 27 0	-71 18 23 0	3964.90	-1175.31	-283.76	-316.96	-350.16	-383.37	-394.99	-416.57
477	3579	-14 44 41 0	-71 18 52 0	3960.20	-1171.47	-282.91	-316.07	-349.22	-382.39	-393.98	-415.53
478	3580	-14 44 25 0	-71 19 28 0	4020.30	-1182.87	-279.05	-312.74	-346.42	-380.11	-391.93	-413.79
479	3581	-14 44 29 0	-71 19 37 0	4052.30	-1187.96	-276.92	-310.87	-344.82	-378.77	-390.65	-412.72
480	3582	-14 44 47 0	-71 20 55 0	4012.00	-1176.16	-273.81	-307.52	-341.13	-374.74	-386.51	-408.35
481	3583	-14 52 38 0	-71 11 47 0	4019.10	-1174.07	-271.71	-305.36	-338.96	-372.57	-384.33	-406.18
482	3584	-14 55 9 0	-71 11 13 0	4036.50	-1183.41	-277.69	-310.49	-343.51	-376.32	-388.16	-408.13
483	3585	-14 57 31 0	-71 10 34 0	4060.20	-1181.47	-273.15	-306.99	-340.83	-374.67	-386.52	-408.51
484	3586	-14 59 52 0	-71 9 55 0	4051.90	-1182.87	-272.92	-305.75	-339.69	-373.62	-385.49	-407.33
485	3587	-14 58 31 0	-71 9 21 0	4061.90	-1180.72	-267.39	-301.19	-335.91	-369.43	-381.33	-403.41
486	3588	-14 57 37 0	-71 9 51 0	4066.80	-1177.97	-262.90	-296.83	-330.85	-364.88	-376.70	-398.90
487	3589	-14 57 13 0	-71 7 55 0	4067.10	-1176.48	-263.11	-297.09	-331.06	-365.03	-376.93	-398.81
488	3590	-14 57 8 0	-71 7 21 0	4077.20	-1174.69	-262.15	-296.14	-330.13	-364.19	-376.02	-398.12
489	3591	-14 58 57 0	-71 6 47 0	4078.80	-1179.86	-261.72	-295.79	-329.86	-363.93	-375.86	-397.99
490	3592	-14 45 47 0	-71 6 1 0	4155.10	-1181.92	-257.92	-292.21	-326.69	-360.78	-372.77	-395.06
491	3593	-14 45 4 0	-71 6 18 0	4266.80	-1216.42	-251.18	-287.17	-322.96	-358.74	-371.27	-394.53
492	3594	-14 47 3 0	-71 5 18 0	4106.70	-1182.55	-259.17	-292.47	-326.76	-361.06	-373.06	-395.35
493	3595	-14 47 11 0	-71 4 27 0	4149.50	-1191.91	-254.29	-288.94	-323.67	-358.06	-370.18	-392.65
494	3596	-14 47 28 0	-71 3 22 0	4175.20	-1193.47	-253.73	-287.94	-322.76	-357.57	-369.75	-392.38
495	3597	-14 47 19 0	-71 9 41 0	4121.00	-1192.21	-265.51	-299.92	-334.39	-368.88	-380.95	-403.37
496	3598	-14 48 21 0	-71 10 43 0	4113.60	-1193.43	-269.05	-303.50	-337.96	-372.42	-384.49	-406.87
497	3599	-14 47 36 0	-71 11 0 0	4129.90	-1200.37	-271.74	-306.33	-340.96	-375.53	-387.63	-410.11
498	3600	-14 51 18 0	-71 9 33 0	4000.90	-1176.43	-274.02	-308.35	-341.85	-375.34	-387.07	-408.85
499	3601	-14 53 42 0	-71 8 45 0	4011.20	-1176.31	-274.37	-307.96	-341.55	-375.15	-386.90	-408.74
500	3602	-14 55 9 0	-71 8 6 0	4028.60	-1177.79	-271.57	-305.27	-338.97	-372.67	-384.45	-406.37

BOUGUER ANOMALIES FOR SIX DENSITIES — NESCO 181

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 12 - 11

STATION-NO.		LATITUDE		LONGITUDE		ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC		DEG MIN SEC		METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
501	3631	-14 44 24	0	-71 3 12	0	4253.81	-1161.17	-269.32	-303.21	-337.13	-371.05	-392.93	-425.95
502	3634	-14 45 31	0	-71 6 21	0	4312.50	-1155.40	-269.45	-333.54	-337.57	-371.43	-393.35	-405.70
503	3635	-14 42 54	0	-71 12 31	0	3825.30	-1165.19	-287.42	-322.73	-359.06	-389.35	-431.33	-422.65
504	3636	-14 42 43	0	-71 12 9	0	3987.50	-1145.94	-287.44	-322.84	-356.25	-389.65	-431.34	-429.05
505	3602	-14 45 14	0	-71 12 14	0	4008.20	-1145.41	-287.33	-320.91	-353.30	-388.15	-429.93	-421.33
506	3608	-14 43 45	0	-71 12 18	0	4334.50	-1191.49	-214.02	-317.06	-351.66	-385.45	-397.92	-419.35
507	3609	-14 45 22	0	-71 12 15	0	4233.88	-1186.61	-281.48	-315.41	-349.26	-383.05	-395.88	-418.44
508	3610	-14 44 51	0	-71 12 2	0	4312.40	-1167.03	-282.52	-314.54	-348.15	-381.91	-333.23	-419.43
509	3611	-14 45 42	0	-71 16 31	0	3956.38	-1127.43	-281.32	-314.71	-349.10	-381.43	-333.13	-414.87
510	3612	-14 44 31	0	-71 16 53	0	3982.78	-1129.15	-283.25	-317.12	-350.49	-383.83	-393.53	-417.22
511	3613	-14 45 3	0	-71 16 15	0	3968.33	-1125.13	-284.03	-317.25	-350.51	-383.73	-393.52	-416.92
512	3614	-14 43 34	0	-71 16 21	0	4327.10	-1135.42	-286.07	-318.53	-352.25	-385.96	-397.76	-419.65
513	3615	-14 43 12	0	-71 16 33	0	3919.70	-1192.15	-286.57	-320.15	-355.81	-387.51	-392.32	-421.19
514	3616	-14 42 33	0	-71 16 28	0	4041.40	-1203.19	-285.49	-320.40	-354.20	-388.71	-400.01	-422.71
515	3617	-14 42 21	0	-71 16 47	0	4055.80	-1193.61	-287.50	-321.45	-355.41	-389.51	-401.42	-422.53
516	3618	-14 42 3	0	-71 15 43	0	4017.40	-1186.72	-285.47	-319.12	-352.76	-386.41	-398.10	-420.05
517	3619	-14 51 54	0	-71 15 3	0	4015.40	-1189.23	-285.21	-318.88	-352.49	-386.12	-397.81	-419.73
518	3620	-14 41 54	0	-71 14 34	0	3982.00	-1184.16	-282.62	-318.00	-355.71	-386.16	-393.65	-419.46
519	3621	-14 42 35	0	-71 14 31	0	3937.00	-1181.53	-286.53	-320.01	-353.50	-386.99	-398.62	-420.42
520	3622	-14 42 36	0	-71 14 53	0	4023.40	-1181.45	-282.51	-316.37	-352.24	-384.13	-395.86	-417.82
521	3623	-14 42 43	0	-71 15 2	0	4018.53	-1187.52	-284.06	-318.00	-351.86	-385.28	-397.09	-418.93
522	3624	-14 43 14	0	-71 15 18	0	4035.30	-1174.35	-284.55	-318.52	-352.53	-386.48	-394.37	-420.44
523	3625	-14 43 34	0	-71 14 51	0	4044.38	-1182.46	-284.56	-318.28	-352.13	-385.01	-397.92	-419.93
524	3626	-14 44 34	0	-71 14 55	0	4032.20	-1191.00	-287.03	-316.92	-350.75	-384.57	-396.41	-418.60
525	3627	-14 33 51	0	-71 15 11	0	4061.24	-1187.94	-278.93	-312.01	-345.62	-380.45	-392.22	-414.25
526	3628	-14 39 47	0	-71 14 27	0	4075.10	-1191.19	-274.55	-308.76	-342.67	-376.87	-391.91	-411.24
527	3629	-14 33 27	0	-71 18 32	0	3814.59	-1125.22	-268.33	-302.23	-337.07	-371.41	-383.93	-405.75
528	4501	-14 32 51	0	-71 23 43	0	3850.10	-1147.02	-258.57	-291.13	-324.79	-357.86	-369.93	-390.92
529	4502	-14 34 53	0	-71 24 6	0	4024.73	-1165.22	-257.25	-290.92	-325.53	-358.26	-370.05	-393.03
530	4503	-14 35 45	0	-71 23 43	0	4055.60	-1165.95	-254.54	-289.52	-322.57	-356.51	-368.20	-390.33
531	4504	-14 36 32	0	-71 25 11	0	4077.40	-1165.76	-254.11	-282.17	-318.30	-350.42	-352.37	-384.55
532	4505	-14 36 10	0	-71 23 50	0	4027.90	-1162.00	-256.28	-290.00	-324.73	-357.46	-369.27	-391.19
533	4506	-14 35 8	0	-71 24 19	0	3992.30	-1155.85	-256.63	-290.26	-323.76	-357.21	-369.24	-390.72
534	4507	-14 33 35	0	-71 24 33	0	3954.10	-1150.53	-259.32	-291.45	-324.99	-358.31	-369.97	-391.63
535	4508	-14 33 14	0	-71 24 51	0	3992.10	-1153.91	-255.41	-289.20	-320.54	-359.33	-371.56	-392.48
536	4509	-14 33 30	0	-71 25 33	0	3970.20	-1151.24	-258.55	-291.74	-325.25	-358.33	-359.94	-393.55
537	4510	-14 32 12	0	-71 25 9	0	3955.22	-1150.05	-260.53	-293.43	-326.58	-357.62	-371.23	-392.76
538	4511	-14 31 26	0	-71 24 55	0	4012.70	-1160.24	-262.57	-296.13	-329.68	-363.24	-374.98	-396.17
539	4512	-14 33 52	0	-71 23 43	0	3955.43	-1153.27	-265.77	-292.81	-329.87	-362.10	-374.35	-379.26
540	4513	-14 33 3	0	-71 23 51	0	3947.60	-1177.33	-266.78	-298.90	-331.14	-363.31	-374.57	-395.43
541	4514	-14 31 55	0	-71 24 0	0	3925.24	-1154.78	-263.57	-296.55	-329.30	-362.16	-373.66	-395.02
542	4515	-14 32 37	0	-71 24 0	0	3944.95	-1154.34	-262.76	-295.73	-324.13	-361.71	-373.25	-394.69
543	4516	-14 31 18	0	-71 23 0	0	3857.58	-1155.78	-264.76	-302.98	-333.21	-365.55	-378.25	-397.59
544	4517	-14 32 3	0	-71 22 24	0	3973.43	-1164.45	-271.41	-314.37	-337.67	-370.45	-382.65	-405.23
545	4518	-14 32 55	0	-71 22 3	0	3910.60	-1161.42	-271.55	-305.97	-335.10	-371.36	-392.91	-405.52
546	4519	-14 33 8	0	-71 21 16	0	3950.20	-1164.15	-272.25	-305.61	-319.02	-372.41	-385.10	-405.83
547	4520	-14 32 18	0	-71 21 22	0	3920.33	-1156.66	-228.55	-337.55	-365.27	-383.02	-393.55	-405.87
548	4521	-14 31 30	0	-71 21 19	0	3865.43	-1161.00	-274.29	-306.61	-337.43	-371.26	-382.92	-405.35
549	4522	-14 31 13	0	-71 22 16	0	3957.12	-1161.19	-275.02	-309.27	-337.33	-369.15	-381.33	-421.33
550	4523	-14 33 33	0	-71 20 32	0	3919.40	-1154.95	-275.94	-308.06	-349.76	-373.44	-350.09	-430.19

BOUGUER ANOMALIES FOR SIX DENSITIES — NESCO 182

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 12 - 11

STATION-NO.		LATITUDE		LONGITUDE		ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC		DEG MIN SEC		METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
551	4524	-14 32 21	0	-71 29 35	0	3930.70	-1169.98	-273.49	-308.65	-341.61	-374.36	-388.19	-427.92
552	4525	-14 33 11	0	-71 20 29	0	3944.10	-1166.27	-274.16	-317.04	-341.16	-374.15	-389.93	-427.56
553	4526	-14 33 53	0	-71 19 42	0	3790.43	-1155.10	-235.17	-319.65	-341.13	-378.91	-385.74	-426.49
554	4527	-14 37 4	0	-71 11 58	0	3918.99	-1156.20	-274.15	-337.51	-340.27	-373.02	-386.43	-455.70
555	4528	-14 32 43	0	-71 14 31	0	3595.42	-1165.93	-268.57	-321.04	-335.11	-358.33	-382.81	-421.65
556	4529	-14 37 5	0	-71 17 2	0	4137.20	-1196.90	-263.13	-297.65	-332.73	-363.75	-378.84	-431.77
557	4530	-14 31 33	0	-71 16 31	0	4282.40	-1219.52	-259.57	-271.05	-320.76	-362.92	-374.91	-378.11
558	4531	-14 31 15	0	-71 13 44	0	4335.20	-1226.77	-254.16	-272.06	-324.65	-381.05	-376.42	-397.76
559	4532	-14 33 30	0	-71 13 59	0	4086.10	-1181.46	-261.39	-295.49	-329.57	-363.06	-375.59	-397.75
560	4533	-14 30 44	0	-71 14 39	0	4025.50	-1177.25	-259.97	-294.03	-328.07	-362.17	-374.03	-375.16
561	4534	-14 30 52	0	-71 13 8	0	4137.30	-1202.15	-262.84	-295.67	-335.53	-359.17	-377.05	-379.05
562	4535	-14 39 47	0	-71 12 15	0	4135.50	-1193.63	-266.92	-300.62	-334.61	-368.84	-382.53	-402.63
563	4536	-14 40 53	0	-71 11 43	0	3951.49	-1169.26	-272.69	-335.43	-334.11	-370.02	-382.28	-405.52
564	3630	-14 45 16	0	-71 34 13	0	4015.30	-1185.11	-281.33	-314.93	-360.54	-382.19	-371.94	-415.07
565	3631	-14 45 14	0	-71 34 3	0	4008.98	-1142.91	-280.75	-314.92	-347.07	-381.65	-393.71	-415.03
566	3632	-14 45 15	0	-71 33 31	0	4218.00	-1196.29	-274.45	-312.27	-365.10	-378.93	-391.17	-419.76
567	3633	-14 45 34	0	-71 33 3	0	4047.00	-1198.56	-278.41	-312.50	-346.49	-382.23	-392.16	-419.19
568	3634	-14 43 53	0	-71 33 0	0	4057.10	-1193.99	-279.34	-319.35	-347.34	-381.34	-393.26	-415.34
569	3635	-14 43 9	0	-71 33 6	0	4076.70	-1135.43	-229.95	-319.94	-349.11	-382.24	-396.18	-410.97
570	3636	-14 45 6	0	-71 32 55	0	4058.50	-1187.38	-277.19	-311.49	-345.02	-378.91	-393.83	-422.65
571	3637	-14 45 8	0	-71 32 24	0	4321.50	-1173.71	-235.55	-329.23	-342.91	-376.53	-389.39	-410.27
572	3638	-14 45 3	0	-71 31 39	0	4026.70	-1178.45	-273.63	-327.55	-341.20	-374.91	-388.73	-435.41
573	3639	-14 55 27	0	-71 41 45	0	4023.40	-1178.51	-272.23	-335.97	-319.70	-325.42	-395.24	-427.16
574	3640	-14 45 45	0	-71 39 35	0	4067.60	-1174.39	-249.01	-307.43	-336.85	-377.45	-387.33	-405.70
575	3641	-14 42 3	0	-71 19 2	0	4024.80	-1192.59	-265.45	-239.74	-313.19	-367.05	-319.27	-431.91
576	3642	-14 45 2	0	-71 9 19	0	4258.90	-1217.97	-259.98	-295.54	-311.11	-356.67	-379.12	-437.24
577	3643	-14 43 32	0	-71 31 32	0	4232.18	-1185.11	-273.92	-337.16	-361.66	-375.58	-397.65	-429.59
578	3644	-14 42 15	0	-71 31 36	0	4095.40	-1172.33	-273.21	-377.44	-341.86	-373.05	-397.92	-410.05
579	3645	-14 41 28	0	-71 31 55	0	4135.93	-1199.90	-262.51	-327.11	-337.72	-372.32	-310.45	-436.91
580	3646	-14 43 19	0	-71 31 37	0	4164.10	-1202.98	-265.42	-300.71	-337.71	-369.01	-381.93	-435.61
581	3647	-14 39 43	0	-71 31 35	0	4315.10	-1209.22	-260.13	-215.26	-330.37	-359.33	-377.93	-422.17
582	3648	-14 37 43	0	-71 45 33	0	4267.50	-1219.66	-257.12	-272.64	-320.17	-363.49	-376.12	-379.73
583	3649	-14 45 7	0	-71 17 23	0	4351.50	-1235.01	-254.52	-272.75	-327.31	-352.91	-376.40	-420.74
584	3650	-14 39 57	0	-71 9 43	0	4367.90	-1230.47	-255.74	-297.70	-327.15	-364.11	-377.37	-421.97
585	3651	-14 33 45	0	-71 12 22	0	4252.75	-1221.91	-265.95	-301.57	-317.59	-377.56	-365.00	-425.03
586	3652	-14 39 30	0	-71 43 25	0	4111.20	-1197.53	-272.59	-336.85	-341.33	-375.71	-347.74	-418.74
587	5029	-14 42 39	0	-71 22 37	0	4036.10	-1195.10	-244.52	-277.51	-311.35	-344.02	-359.51	-378.79
588	5030	-14 42 32	0	-71 28 27	0	4530.10	-1139.48	-240.42	-280.11	-319.03	-347.49	-359.78	-361.10
589	5031	-14 51 49	0	-71 29 41	0	4271.10	-1151.70	-257.03	-288.55	-320.20	-353.92	-365.67	-311.51
590	5032	-14 49 50	0	-71 29 4	0	4530.60	-1165.70	-259.98	-292.77	-326.51	-359.22	-372.02	-311.93
591	5033	-14 49 51	0	-71 29 49	0	4134.90	-1155.28	-265.29	-239.15	-311.58	-344.07	-375.33	-378.93
592	5034	-14 39 4	0	-71 29 55	0	3952.70	-1155.70	-265.20	-239.34	-337.62	-365.49	-377.07	-315.57
593	5035	-14 39 35	0	-71 20 3	0	4324.10	-1167.01	-263.72	-297.37	-331.01	-364.65	-376.44	-310.31
594	5036	-14 39 37	0	-71 27 45	0	4342.90	-1173.96	-254.95	-263.05	-329.14	-357.26	-350.17	-372.36
595	5037	-14 33 0	0	-71 26 51	0	4155.50	-1185.27	-264.73	-277.47	-310.19	-349.93	-351.06	-333.02
596	5038	-14 38 20	0	-71 27 40	0	4192.70	-1192.07	-269.25	-289.35	-310.50	-353.01	-355.73	-357.54
597	5039	-14 33 39	0	-71 21 5	0	4179.19	-1135.96	-253.25	-288.15	-327.97	-357.91	-370.47	-312.08
598	5040	-14 30 45	0	-71 21 6	0	4316.10	-1111.21	-255.01	-279.37	-324.77	-359.10	-371.20	-373.38
599	5041	-14 42 4	0	-71 24 57	0	4364.30	-1165.29	-251.91	-293.17	-319.05	-352.16	-352.76	-357.93
600	5042	-14 41 58	0	-71 27 21	0	3989.70	-1156.34	-256.55	-289.77	-321.11	-356.55	-349.11	-349.77

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 183

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972. 12 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
601	4537	-14 33 0 0	-71 15 32 0	4105.10	-1188.22	-269.65	-298.96	-331.25	-367.55	-377.55	-401.44
602	4538	-14 33 20 0	-71 15 5 0	4136.70	-1188.75	-263.35	-297.51	-331.69	-365.05	-377.01	-400.04
603	4539	-14 33 5 0	-71 14 22 0	4125.00	-1191.51	-261.15	-295.55	-329.85	-364.11	-376.03	-398.31
604	4540	-14 31 23 0	-71 11 33 0	4245.90	-1221.55	-254.02	-290.41	-326.00	-361.51	-374.05	-397.18
605	4541	-14 32 55 0	-71 12 20 0	4557.30	-1254.93	-253.45	-290.55	-327.65	-365.14	-377.73	-401.85
606	4542	-14 31 17 0	-71 11 55 0	4614.90	-1289.54	-253.38	-288.57	-326.76	-364.95	-378.32	-403.15
607	4543	-14 33 43 0	-71 11 5 0	4573.10	-1265.65	-250.61	-288.96	-327.22	-365.59	-378.84	-403.76
608	4544	-14 34 17 0	-71 10 21 0	4622.70	-1281.34	-249.43	-287.02	-325.62	-364.21	-377.72	-402.81
609	4545	-14 34 59 0	-71 9 55 0	4564.50	-1257.70	-246.90	-285.55	-324.79	-363.37	-377.12	-402.93
610	4546	-14 34 32 0	-71 13 25 0	4573.40	-1277.63	-249.97	-288.17	-326.36	-364.55	-377.93	-402.75
611	4548	-14 35 51 0	-71 12 5 0	4557.90	-1217.52	-250.13	-288.06	-325.95	-363.85	-377.13	-401.17
612	4547	-14 35 6 0	-71 11 17 0	4633.90	-1291.96	-265.09	-285.37	-323.66	-362.35	-375.82	-400.84
613	4549	-14 36 33 0	-71 10 16 0	4695.20	-1331.31	-246.99	-286.22	-325.11	-364.23	-377.92	-403.35
614	4550	-14 34 56 0	-71 12 38 0	4559.50	-1295.47	-247.90	-286.01	-325.35	-364.19	-377.86	-402.85
615	4551	-14 34 57 0	-71 13 21 0	4528.70	-1271.31	-251.05	-288.76	-326.42	-364.10	-377.30	-401.93
616	4552	-14 34 52 0	-71 21 11 0	3994.50	-1156.31	-257.40	-291.06	-324.47	-357.80	-369.56	-391.20
617	4553	-14 35 37 0	-71 22 51 0	3993.20	-1163.59	-262.19	-296.26	-329.49	-363.16	-374.95	-396.59
618	4554	-14 37 30 0	-71 15 27 0	4075.50	-1187.43	-275.31	-307.41	-341.55	-375.66	-387.61	-409.71
619	4555	-14 37 2 0	-71 15 1 0	4101.30	-1192.76	-269.04	-303.34	-337.65	-371.95	-383.96	-405.26
620	4556	-14 36 34 0	-71 14 16 0	4147.30	-1197.95	-263.73	-298.53	-332.97	-367.60	-379.72	-402.28
621	4557	-14 36 11 0	-71 15 49 0	4096.00	-1195.32	-269.19	-303.21	-337.45	-371.62	-383.58	-405.92
622	4558	-14 35 22 0	-71 16 11 0	4077.00	-1190.37	-270.67	-304.72	-339.87	-372.03	-384.75	-406.91
623	4559	-14 35 0 0	-71 15 21 0	4195.40	-1207.92	-264.76	-299.91	-334.90	-359.92	-382.24	-405.94
624	4560	-14 35 10 0	-71 14 45 0	4263.30	-1219.05	-259.20	-294.82	-330.46	-366.06	-378.53	-401.49
625	4561	-14 36 39 0	-71 14 43 0	4022.30	-1173.01	-273.13	-306.73	-342.50	-374.04	-385.92	-407.98
626	4562	-14 37 40 0	-71 14 43 0	4114.40	-1197.05	-271.55	-306.01	-340.43	-374.05	-386.93	-409.20
627	4563	-14 39 22 0	-71 14 13 0	4084.30	-1192.13	-271.73	-305.70	-339.70	-373.72	-385.60	-407.78
628	4564	-14 39 5 0	-71 17 25 0	4075.10	-1192.03	-282.22	-315.37	-349.31	-382.86	-394.60	-416.49
629	4565	-14 39 26 0	-71 15 26 0	4105.10	-1197.45	-274.21	-308.57	-342.93	-377.29	-389.32	-411.65
630	3901	-14 42 15 0	-71 15 28 0	4045.00	-1192.51	-282.41	-316.40	-350.67	-384.54	-396.43	-418.51
631	3902	-14 42 1 0	-71 15 52 0	4057.30	-1197.11	-284.55	-318.55	-352.56	-386.34	-398.26	-420.32
632	3903	-14 44 0 0	-71 16 41 0	4023.70	-1187.57	-284.63	-318.15	-351.87	-385.59	-397.37	-419.31
633	3904	-14 45 2 0	-71 15 52 0	4002.90	-1193.73	-283.63	-317.22	-355.75	-384.27	-396.01	-417.83
634	3905	-14 45 29 0	-71 16 15 0	4007.50	-1183.19	-282.16	-315.71	-349.20	-382.86	-394.61	-416.43
635	3906	-14 46 48 0	-71 15 35 0	3923.50	-1177.70	-281.13	-315.17	-348.60	-382.05	-393.74	-415.48
636	3907	-14 50 52 0	-71 16 43 0	3966.10	-1156.09	-269.85	-301.91	-334.96	-368.02	-379.59	-401.07
637	3908	-14 51 5 0	-71 15 1 0	3992.40	-1164.51	-266.91	-300.91	-333.15	-367.21	-379.00	-400.76
638	3909	-14 52 42 0	-71 14 39 0	3964.70	-1149.66	-262.59	-295.60	-328.63	-361.65	-373.21	-394.61
639	2505	-14 53 14 0	-71 15 50 0	4133.60	-1181.33	-259.95	-292.56	-326.65	-360.93	-373.00	-395.53
640	3910	-14 51 10 0	-71 16 17 0	3944.20	-1151.93	-267.09	-300.02	-333.04	-366.06	-377.62	-399.09
641	2506	-14 51 14 0	-71 17 51 0	3958.00	-1149.66	-261.22	-294.16	-327.00	-360.06	-372.43	-393.89
642	3911	-14 49 44 0	-71 17 32 0	3994.30	-1165.71	-268.03	-301.53	-334.22	-358.92	-378.54	-399.82
643	3912	-14 48 45 0	-71 17 22 0	3987.90	-1162.93	-275.92	-308.33	-342.46	-376.51	-388.11	-407.81
644	3913	-14 48 56 0	-71 14 28 0	3936.90	-1159.19	-269.17	-302.19	-335.10	-369.06	-379.69	-401.02
645	5043	-14 45 53 0	-71 22 51 0	3989.20	-1132.41	-255.13	-288.33	-320.94	-353.53	-365.03	-386.03
646	5044	-14 45 55 0	-71 23 32 0	3991.60	-1129.92	-254.45	-287.43	-320.02	-353.63	-364.91	-385.19
647	4580	-14 35 34 0	-71 17 47 0	4011.20	-1180.56	-277.85	-311.50	-345.11	-378.12	-390.49	-412.33
648	4591	-14 36 4 0	-71 17 55 0	4032.90	-1179.41	-277.19	-312.80	-344.38	-379.03	-391.01	-413.31
649	4592	-14 35 0 0	-71 18 15 0	4067.50	-1187.20	-276.53	-310.36	-344.19	-378.03	-389.87	-411.88
650	4593	-14 34 27 0	-71 16 27 0	4020.90	-1182.74	-276.71	-310.44	-344.17	-377.93	-389.71	-411.69

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 184

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 12 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
651	4586	-14 39 28 0	-71 22 52 0	4071.59	-1129.65	-254.47	-288.07	-323.08	-357.17	-369.10	-391.26
652	15103	-14 39 28 0	-71 24 25 0	4070.40	-1164.95	-267.63	-281.75	-319.00	-350.71	-361.85	-384.10
653	4585	-14 37 40 0	-71 25 12 0	4037.70	-1152.76	-246.91	-278.73	-312.55	-346.37	-358.72	-380.19
654	4536	-14 43 35 0	-71 25 15 0	3886.10	-1119.69	-245.54	-278.16	-310.68	-343.23	-354.58	-375.77
655	4587	-14 41 32 0	-71 25 15 0	3983.90	-1142.94	-247.03	-280.34	-313.73	-347.00	-358.75	-380.43
656	4588	-14 42 7 0	-71 26 5 0	3919.70	-1127.54	-247.57	-280.36	-313.12	-345.91	-357.36	-378.03
657	4591	-14 43 15 0	-71 25 57 0	3873.70	-1110.92	-248.64	-281.03	-313.44	-345.85	-357.19	-378.26
658	3914	-14 47 11 0	-71 2 42 0	4193.10	-1197.70	-256.45	-290.34	-324.22	-359.10	-371.31	-393.98
659	3915	-14 47 11 0	-71 2 4 0	4241.10	-1209.94	-257.69	-290.03	-323.38	-358.11	-371.10	-394.07
660	3916	-14 47 20 0	-71 3 22 0	4342.20	-1223.44	-267.95	-284.65	-320.93	-357.63	-370.16	-393.87
661	3917	-14 56 21 0	-71 9 22 0	4504.10	-1117.86	-277.53	-311.56	-349.60	-378.11	-389.97	-411.47
662	3918	-14 56 44 0	-71 8 59 0	4570.90	-1180.44	-279.37	-312.65	-345.10	-378.75	-391.53	-413.32
663	3919	-14 56 58 0	-71 8 23 0	4522.90	-1185.98	-282.63	-315.12	-349.01	-382.53	-394.93	-416.19
664	100	-14 43 50 0	-71 14 31 0	3982.03	-1182.05	-287.65	-320.50	-354.14	-387.97	-399.16	-420.13
665	901	-14 42 20 0	-71 16 52 0	3961.67	-1179.27	-287.27	-320.43	-352.59	-386.76	-399.35	-419.93
666	902	-14 39 57 0	-71 16 47 0	3985.75	-1182.49	-286.28	-319.66	-353.04	-388.42	-397.13	-418.83
667	903	-14 39 43 0	-71 16 19 0	3933.56	-1183.26	-283.90	-317.36	-350.85	-384.32	-394.04	-417.11
668	904	-14 39 20 0	-71 15 43 0	4017.23	-1185.57	-281.31	-314.91	-349.50	-382.10	-393.76	-415.73
669	905	-14 38 50 0	-71 16 5 0	4052.58	-1192.59	-282.01	-316.03	-347.97	-381.96	-393.94	-415.92
670	906	-14 38 17 0	-71 16 29 0	4092.19	-1185.77	-279.92	-313.60	-347.42	-381.17	-392.90	-414.92
671	101	-14 41 18 0	-71 14 55 0	3935.69	-1196.35	-289.95	-322.32	-355.79	-389.26	-400.92	-422.73
672	102	-14 41 38 0	-71 17 38 0	3993.72	-1187.44	-289.76	-323.22	-356.69	-390.14	-401.85	-423.65
673	103	-14 41 52 0	-71 17 42 0	4051.45	-1191.86	-290.93	-324.56	-357.85	-390.85	-402.93	-424.97
674	104	-14 42 14 0	-71 18 1 0	3979.76	-1190.45	-289.27	-321.77	-354.78	-389.70	-402.92	-421.10
675	105	-14 42 55 0	-71 18 12 0	4028.43	-1191.97	-288.16	-321.42	-355.43	-389.36	-401.19	-421.12
676	106	-14 43 1 0	-71 18 35 0	4004.23	-1186.34	-285.73	-319.30	-352.88	-386.44	-398.19	-420.02
677	107	-14 43 24 0	-71 19 3 0	3924.09	-1181.52	-283.61	-316.92	-352.37	-383.92	-395.56	-417.42
678	108	-14 43 51 0	-71 19 19 0	3931.54	-1174.69	-281.15	-314.59	-349.00	-381.43	-393.13	-414.85
679	109	-14 43 33 0	-71 19 51 0	3944.13	-1175.34	-277.44	-312.92	-345.20	-379.51	-391.27	-412.97
680	110	-14 43 44 0	-71 20 21 0	3943.69	-1172.35	-277.45	-310.90	-344.15	-377.55	-389.10	-410.85
681	111	-14 43 56 0	-71 20 41 0	3933.16	-1167.58	-274.12	-307.99	-341.26	-374.53	-386.13	-407.70
682	112	-14 44 8 0	-71 21 10 0	3943.03	-1159.87	-273.16	-306.11	-339.20	-372.23	-383.73	-405.28
683	113	-14 44 28 0	-71 21 42 0	3923.00	-1155.10	-272.67	-305.31	-338.34	-371.13	-382.67	-404.92
684	114	-14 45 51 0	-71 22 4 0	3912.77	-1151.51	-271.96	-304.06	-335.79	-369.52	-380.98	-402.25
685	115	-14 45 37 0	-71 22 19 0	3927.45	-1164.39	-269.05	-302.55	-335.24	-367.94	-379.39	-400.95
686	116	-14 45 31 0	-71 22 51 0	3884.93	-1147.08	-268.09	-300.51	-334.08	-365.57	-376.94	-398.06
687	111	-14 43 53 0	-71 23 2 0	3952.87	-1132.32	-267.22	-299.69	-331.93	-364.57	-375.19	-398.73
688	200	-14 45 6 0	-71 21 25 0	3873.11	-1135.91	-265.23	-297.51	-328.93	-362.29	-373.42	-394.65
689	801	-14 46 32 0	-71 23 31 0	3906.92	-1146.12	-263.46	-297.34	-331.08	-363.93	-375.23	-396.52
690	907	-14 37 53 0	-71 16 53 0	4055.53	-1191.54	-274.65	-309.61	-341.58	-361.54	-393.43	-415.53
691	908	-14 37 15 0	-71 16 55 0	4065.24	-1190.21	-278.51	-312.45	-346.35	-380.21	-392.01	-413.98
692	909	-14 36 44 0	-71 17 5 0	4020.14	-1182.19	-278.10	-311.75	-345.45	-378.04	-390.01	-412.71
693	910	-14 35 0 0	-71 17 7 0	4037.97	-1186.93	-276.41	-310.31	-344.14	-377.92	-389.81	-411.83
694	911	-14 35 45 0	-71 17 2 0	4043.07	-1181.65	-275.33	-309.19	-343.05	-376.93	-388.75	-410.76
695	912	-14 35 11 0	-71 17 11 0	4034.50	-1187.87	-274.45	-308.43	-342.22	-376.02	-387.92	-409.18
696	913	-14 34 43 0	-71 17 26 0	4029.74	-1185.39	-274.65	-308.18	-341.92	-375.65	-387.48	-409.31
697	914	-14 34 0 0	-71 17 25 0	3993.42	-1173.78	-274.76	-308.58	-341.52	-374.76	-386.42	-408.33
698	915	-14 33 23 0	-71 17 10 0	3960.76	-1166.37	-273.52	-306.72	-339.91	-373.11	-384.75	-406.30
699	916	-14 32 52 0	-71 17 11 0	3956.55	-1162.52	-272.35	-305.30	-339.46	-371.53	-383.15	-404.81
700	917	-14 32 40 0	-71 17 42 0	3967.52	-1161.60	-273.55	-308.51	-339.51	-372.52	-384.07	-405.52

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 115

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 12 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.43	2.63	2.67	2.93
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
701	918	-15 32 14 0	-71 18 2 0	3919.68	-1165.51	-275.13	-337.06	-337.93	-372.91	-384.55	-432.86
702	919	-15 31 38 0	-71 19 17 0	3942.19	-1159.96	-272.97	-335.20	-339.04	-370.97	-392.37	-438.71
703	920	-15 30 5 0	-71 18 2 0	3350.45	-1153.62	-265.18	-301.96	-335.82	-367.65	-389.15	-430.55
704	921	-15 30 33 0	-71 17 55 0	3965.97	-1161.21	-267.83	-300.07	-333.96	-367.51	-378.59	-430.94
705	922	-15 30 3 0	-71 18 36 0	3935.83	-1163.53	-263.38	-296.42	-329.96	-363.25	-374.91	-396.55
706	3001	-14 54 49 0	-71 11 1 0	4017.20	-1172.68	-269.56	-303.11	-338.76	-370.41	-392.18	-434.96
707	3002	-14 55 28 0	-71 10 19 0	3985.20	-1163.13	-273.06	-306.42	-339.24	-373.14	-349.51	-436.50
708	3003	-14 54 53 0	-71 10 11 0	3992.40	-1172.13	-274.55	-307.73	-341.16	-374.59	-396.29	-439.01
709	3004	-14 55 19 0	-71 9 53 0	4007.20	-1171.58	-276.55	-310.20	-343.58	-377.12	-398.92	-436.58
710	3005	-14 55 27 0	-71 9 33 0	4009.10	-1179.69	-278.24	-311.82	-345.43	-378.91	-370.72	-432.55
711	3006	-14 55 37 0	-71 9 42 0	4024.70	-1184.78	-278.55	-312.56	-347.26	-380.92	-372.81	-414.58
712	3007	-14 55 59 0	-71 8 15 0	4049.40	-1190.91	-283.42	-314.53	-349.44	-382.35	-374.22	-416.26
713	602	-15 42 5 0	-71 24 1 0	3835.35	-1135.84	-262.32	-295.08	-327.53	-359.98	-371.15	-392.53
714	3008	-14 48 52 0	-71 14 1 0	3966.10	-1160.37	-272.93	-306.38	-339.06	-372.11	-393.65	-435.17
715	3009	-14 52 13 0	-71 13 44 0	3955.40	-1162.83	-273.24	-306.37	-339.50	-372.62	-394.21	-435.78
716	3010	-14 48 1 0	-71 13 19 0	3959.30	-1164.45	-274.16	-327.30	-349.56	-379.62	-395.72	-436.27
717	3011	-14 48 50 0	-71 12 44 0	3965.50	-1166.92	-275.28	-309.59	-341.69	-374.97	-388.92	-438.11
718	3012	-14 47 21 0	-71 12 27 0	3973.20	-1169.09	-275.63	-308.96	-342.12	-375.37	-397.01	-439.45
719	3013	-14 47 2 0	-71 11 52 0	3976.50	-1169.83	-275.60	-339.39	-342.18	-375.42	-387.12	-438.76
720	3014	-14 46 39 0	-71 11 49 0	3992.80	-1171.61	-273.77	-307.21	-345.64	-374.07	-395.77	-437.51
721	3015	-14 46 15 0	-71 11 22 0	4002.20	-1172.90	-277.93	-328.42	-339.91	-373.54	-385.17	-436.95
722	3016	-14 45 37 0	-71 11 20 0	4014.60	-1175.19	-272.42	-326.04	-339.45	-373.26	-385.03	-438.86
723	3017	-14 45 3 0	-71 11 29 0	4013.60	-1175.44	-277.95	-324.57	-365.18	-383.74	-385.55	-437.59
724	3018	-14 47 14 0	-71 11 33 0	3985.50	-1171.85	-275.45	-309.05	-347.43	-375.81	-387.49	-439.18
725	3019	-14 47 50 0	-71 11 35 0	4013.00	-1176.92	-275.10	-328.66	-342.22	-375.74	-387.53	-439.31
726	3020	-14 49 3 0	-71 12 9 0	4008.70	-1175.95	-276.53	-308.13	-341.67	-375.21	-386.94	-438.83
727	3021	-14 51 31 0	-71 12 5 0	3930.60	-1172.66	-275.36	-338.75	-342.12	-375.53	-387.28	-439.03
728	3022	-14 57 53 0	-71 9 33 0	4060.20	-1185.37	-276.93	-310.13	-344.56	-378.53	-390.26	-412.23
729	3023	-14 52 57 0	-71 8 55 0	4031.60	-1188.93	-278.41	-312.17	-345.93	-379.67	-391.58	-413.55
730	3024	-14 57 58 0	-71 8 19 0	4045.50	-1190.36	-280.70	-314.58	-349.46	-382.33	-394.19	-416.21
731	3025	-14 52 59 0	-71 7 44 0	4055.80	-1191.58	-282.60	-315.51	-357.46	-383.36	-395.22	-417.25
732	3026	-14 57 59 0	-71 7 6 0	4090.80	-1201.36	-293.52	-318.78	-350.06	-386.78	-398.28	-418.55
733	3027	-14 52 12 0	-71 6 55 0	4060.70	-1196.15	-283.17	-317.14	-351.15	-385.16	-397.06	-419.17
734	3028	-14 57 31 0	-71 6 19 0	4086.10	-1202.65	-283.74	-317.96	-357.19	-388.41	-398.39	-420.64
735	3029	-14 57 25 0	-71 5 40 0	4117.60	-1207.55	-285.98	-319.65	-351.82	-388.32	-390.37	-422.76
736	3030	-14 57 52 0	-71 5 21 0	4075.40	-1231.65	-285.93	-319.43	-351.56	-387.63	-399.64	-421.61
737	3101	-14 57 58 0	-71 5 55 0	4065.50	-1132.45	-285.45	-319.50	-353.51	-387.52	-399.45	-421.50
738	3102	-14 56 28 0	-71 5 7 0	4145.50	-1224.00	-282.87	-317.92	-352.97	-388.03	-400.29	-423.06
739	3103	-14 56 2 0	-71 5 25 0	4150.80	-1213.67	-280.33	-315.09	-349.85	-384.61	-396.78	-419.37
740	3104	-14 55 2 0	-71 10 14 0	3931.30	-1173.19	-274.71	-308.01	-341.35	-374.68	-386.34	-409.00
741	3105	-14 55 57 0	-71 9 38 0	4015.80	-1187.21	-277.29	-310.92	-344.55	-378.18	-389.95	-411.82
742	3106	-14 56 4 0	-71 7 5 0	4011.50	-1181.06	-279.12	-312.72	-346.32	-379.91	-391.67	-413.51
743	3107	-14 56 18 0	-71 8 37 0	4018.60	-1193.72	-281.15	-314.81	-349.41	-382.12	-393.92	-415.78
744	3108	-14 56 21 0	-71 8 4 0	4039.30	-1199.61	-282.38	-316.21	-350.04	-383.97	-395.71	-417.70
745	3109	-14 56 58 0	-71 8 1 0	4252.60	-1193.45	-282.21	-316.15	-350.09	-384.03	-395.83	-417.81
746	3110	-14 56 31 0	-71 7 17 0	4057.40	-1195.15	-282.97	-318.45	-350.84	-384.82	-396.74	-418.80
747	3111	-14 56 55 0	-71 7 41 0	4093.70	-1137.30	-276.95	-310.55	-354.01	-387.53	-389.26	-411.05
748	3112	-14 57 21 0	-71 9 31 0	4057.80	-1189.11	-276.46	-310.33	-344.35	-378.33	-393.19	-412.76
749	3113	-14 57 23 0	-71 9 2 0	4017.80	-1181.66	-278.15	-311.72	-345.41	-379.05	-390.82	-412.61
750	3114	-14 57 24 0	-71 9 23 0	4019.20	-1184.10	-280.56	-314.20	-347.85	-381.53	-393.22	-415.15

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 116

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 12 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.43	2.63	2.67	2.93
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
751	3115	-14 57 21 0	-71 7 43 0	4029.20	-1143.35	-282.62	-316.36	-350.09	-383.83	-395.54	-417.57
752	3116	-14 41 27 0	-71 15 47 0	4035.70	-1193.99	-286.13	-320.57	-354.55	-388.12	-399.92	-421.89
753	3117	-14 40 52 0	-71 15 54 0	4017.60	-1193.95	-285.61	-319.40	-353.17	-386.96	-398.75	-420.81
754	3118	-14 41 25 0	-71 15 8 0	4014.20	-1189.56	-285.93	-319.54	-353.15	-386.77	-398.54	-420.39
755	3119	-14 41 24 0	-71 14 37 0	4047.60	-1196.62	-284.51	-318.41	-352.30	-386.18	-399.05	-420.08
756	3120	-14 40 54 0	-71 14 33 0	4023.50	-1189.95	-284.01	-317.68	-351.35	-385.02	-398.41	-418.79
757	3121	-14 40 53 0	-71 14 12 0	4021.50	-1190.50	-286.28	-319.56	-353.64	-387.42	-399.11	-421.00
758	3122	-14 41 26 0	-71 15 6 0	4174.00	-1207.65	-291.17	-318.24	-355.77	-385.15	-371.26	-418.67
759	3123	-14 40 53 0	-71 15 9 0	4042.30	-1187.91	-280.45	-314.66	-349.50	-382.33	-394.17	-416.16
760	3124	-14 42 0 0	-71 14 9 0	4060.70	-1195.43	-282.45	-316.44	-350.44	-384.41	-396.33	-418.43
761	3125	-14 47 35 0	-71 14 5 0	4056.00	-1195.92	-283.95	-317.94	-351.91	-385.08	-397.27	-419.85
762	3126	-14 43 4 0	-71 13 55 0	4047.20	-1195.16	-284.56	-318.45	-352.36	-386.25	-398.12	-420.15
763	3127	-14 43 4 0	-71 14 42 0	4035.00	-1192.23	-285.03	-318.87	-352.69	-386.49	-398.32	-420.79
764	3128	-14 43 36 0	-71 14 20 0	4022.60	-1193.67	-286.62	-320.09	-353.75	-387.41	-399.23	-421.04
765	3129	-14 43 48 0	-71 13 56 0	4055.70	-1135.55	-287.53	-317.54	-351.91	-385.47	-397.55	-419.45
766	3130	-14 44 20 0	-71 14 0 0	4131.20	-1201.00	-278.76	-313.13	-347.66	-381.74	-393.93	-416.12
767	3131	-14 44 58 0	-71 15 16 0	4292.10	-1205.82	-285.80	-315.04	-349.57	-383.65	-395.45	-417.95
768	701	-14 43 0 0	-71 24 45 0	3916.96	-1143.55	-267.31	-294.72	-327.53	-365.58	-371.53	-391.16
769	702	-14 49 33 0	-71 24 45 0	3906.58	-1133.69	-265.37	-293.07	-325.61	-358.55	-369.96	-391.24
770	703	-14 49 4 0	-71 24 52 0	3922.51	-1141.45	-259.57	-292.51	-325.29	-357.15	-369.65	-391.90
771	704	-14 49 33 0	-71 24 52 0	3925.19	-1141.09	-258.69	-291.38	-324.23	-357.11	-368.62	-389.93
772	705	-14 50 12 0	-71 24 45 0	3929.21	-1145.97	-257.06	-290.13	-323.11	-356.09	-367.55	-389.95
773	706	-14 50 52 0	-71 24 52 0	3918.01	-1135.98	-256.62	-289.39	-322.51	-355.92	-366.26	-387.56
774	707	-14 51 17 0	-71 24 50 0	3917.56	-1135.39	-256.38	-287.12	-319.91	-352.73	-364.18	-385.59
775	708	-14 51 57 0	-71 24 55 0	3926.76	-1137.13	-254.59	-287.15	-320.28	-353.11	-364.62	-385.97
776	709	-14 52 16 0	-71 24 45 0	3929.15	-1134.67	-254.64	-287.45	-320.35	-353.23	-364.74	-386.11
777	710	-14 52 42 0	-71 24 47 0	3933.90	-1135.86	-255.69	-288.35	-321.21	-354.01	-365.50	-386.98
778	711	-14 53 11 0	-71 24 49 0	3945.93	-1142.99	-255.07	-287.83	-320.79	-353.73	-365.29	-386.71
779	713	-14 53 33 0	-71 24 55 0	3950.57	-1145.82	-255.30	-288.33	-321.63	-354.42	-365.97	-387.53
780	712	-14 53 38 0	-71 24 44 0	3951.95	-1143.43	-256.09	-288.95	-321.81	-354.68	-366.19	-387.55
781	713	-14 54 14 0	-71 24 14 0	3950.50	-1143.97	-259.37	-292.42	-325.52	-357.67	-369.25	-391.11
782	714	-14 54 33 0	-71 24 33 0	3954.60	-1149.82	-258.91	-291.85	-324.90	-357.99	-369.43	-390.98
783	715	-14 55 53 0	-71 23 55 0	3965.02	-1152.15	-257.92	-291.28	-326.24	-359.41	-371.05	-392.57
784	717	-14 55 19 0	-71 23 35 0	3973.61	-1154.52	-264.57	-293.02	-327.05	-360.21	-371.91	-393.51
785	718	-14 55 49 0	-71 23 16 0	3978.41	-1156.93	-261.89	-295.15	-328.43	-361.72	-373.35	-395.98
786	1024	-14 56 14 0	-71 22 54 0	3986.50	-1158.42	-261.48	-295.02	-328.56	-361.73	-374.37	-395.06
787	1025	-14 56 46 0	-71 22 35 0	4002.90	-1162.34	-261.85	-295.32	-328.80	-362.28	-374.09	-395.76
788	1026	-14 56 58 0	-71 22 14 0	4003.70	-1163.64	-262.99	-296.45	-329.95	-363.43	-375.15	-396.97
789	1027	-14 57 13 0	-71 21 52 0	4022.10	-1167.55	-262.52	-296.33	-327.90	-363.63	-375.49	-397.21
790	1028	-14 57 49 0	-71 21 21 0	4011.60	-1173.43	-259.51	-297.24	-333.96	-364.63	-376.49	-399.41
791	1029	-14 58 3 0	-71 21 2 0	4051.10	-1172.34	-261.05	-294.97	-328.86	-362.79	-374.69	-396.43
792	1030	-14 58 32 0	-71 20 31 0	4056.50	-1171.52	-257.91	-297.95	-326.87	-360.81	-372.58	-394.76
793	1031	-14 58 38 0	-71 20 16 0	4068.20	-1175.43	-263.26	-294.29	-325.31	-367.36	-374.25	-396.55
794	1032	-14 58 56 0	-71 19 38 0	4076.10	-1177.69	-262.73	-296.83	-330.92	-365.02	-376.05	-399.11
795	1033	-14 59 58 0	-71 19 9 0	4093.00	-1183.76	-265.53	-299.43	-333.19	-367.99	-379.93	-402.21
796	1034	-14 59 6 0	-71 18 37 0	4093.00	-1187.19	-266.26	-300.49	-334.72	-368.95	-380.92	-403.17
797	1035	-14 59 7 0	-71 18 12 0	4097.10	-1185.61	-264.54	-298.59	-332.14	-366.04	-378.17	-400.99
798	1036	-14 59 7 0	-71 17 52 0	4092.50	-1185.57	-264.28	-298.44	-332.61	-367.77	-378.78	-400.94
799	1037	-14 53 25 0	-71 17 52 0	4138.60	-1190.85	-264.13	-300.13	-335.06	-369.12	-381.55	-403.77
800	1038	-14 59 52 0	-71 17 32 0	4146.90	-1199.31	-265.24	-330.43	-335.09	-369.85	-381.85	-404.41

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 107

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 10 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
801	1033	-14 59 21 0	-71 19 43 0	4545.80	-1183.70	-261.51	-295.68	-329.84	-364.01	-375.97	-398.18
802	1040	-14 59 32 0	-71 19 27 0	4134.30	-1180.50	-265.03	-299.43	-333.72	-368.04	-380.05	-402.36
803	1041	-14 59 57 0	-71 19 5 0	4123.20	-1195.58	-267.86	-302.35	-336.81	-371.28	-383.35	-405.73
804	1042	-14 59 8 0	-71 21 37 0	4051.60	-1173.95	-262.47	-296.35	-330.24	-364.11	-375.99	-398.01
805	1043	-14 58 40 0	-71 21 10 0	4025.40	-1178.57	-261.48	-295.25	-329.03	-363.81	-375.84	-397.99
806	1044	-14 59 15 0	-71 21 31 0	4119.40	-1185.26	-259.61	-293.99	-328.36	-362.74	-374.77	-397.12
807	1045	-14 59 37 0	-71 21 33 0	4161.70	-1195.99	-259.37	-294.14	-328.91	-363.68	-375.84	-398.44
808	1046	-14 59 55 0	-71 21 35 0	4151.70	-1201.22	-260.20	-295.13	-330.06	-364.99	-377.21	-399.92
809	1000	-14 59 55 0	-71 21 56 0	4199.10	-1204.90	-259.41	-294.47	-329.52	-364.57	-376.85	-399.63
810	1001	-14 59 16 0	-71 21 5 0	4010.30	-1179.76	-257.61	-291.87	-326.13	-360.39	-372.38	-394.65
811	1003	-14 59 53 0	-71 20 53 0	4125.40	-1184.54	-256.05	-290.91	-324.93	-359.63	-371.51	-393.92
812	1002	-14 59 13 0	-71 20 41 0	4170.00	-1187.51	-259.72	-293.05	-327.38	-361.71	-373.73	-396.04
813	1004	-14 57 11 0	-71 22 2 0	4119.50	-1147.21	-260.05	-294.45	-328.86	-363.26	-375.31	-397.67
814	1005	-14 59 36 0	-71 21 54 0	4169.20	-1199.99	-259.64	-294.45	-329.27	-364.09	-376.28	-398.91
815	1006	-14 58 35 0	-71 20 53 0	4061.20	-1173.88	-260.13	-294.10	-328.07	-362.05	-373.93	-395.91
816	1007	-14 58 38 0	-71 21 50 0	4078.30	-1178.63	-260.37	-294.45	-328.54	-362.63	-374.56	-396.72
817	1008	-14 58 31 0	-71 22 25 0	4112.60	-1184.71	-259.08	-293.43	-327.78	-362.13	-374.15	-396.49
818	3031	-14 53 58 0	-71 12 21 0	3945.00	-1162.92	-265.91	-299.31	-332.66	-366.06	-377.76	-399.55
819	3032	-14 53 56 0	-71 12 56 0	3927.30	-1163.25	-264.63	-297.95	-331.55	-365.92	-376.61	-398.52
820	3033	-14 53 56 0	-71 11 22 0	4025.50	-1169.73	-258.59	-292.30	-326.01	-359.72	-371.52	-393.44
821	3034	-14 54 22 0	-71 12 59 0	3983.90	-1157.61	-263.61	-296.92	-330.33	-363.69	-375.37	-397.06
822	3035	-14 54 28 0	-71 13 31 0	3956.40	-1147.97	-258.28	-291.49	-324.93	-357.65	-369.24	-390.77
823	3036	-14 54 53 0	-71 12 45 0	3957.90	-1155.66	-263.25	-296.45	-329.67	-362.88	-374.50	-396.09
824	3037	-14 55 4 0	-71 12 10 0	3976.20	-1162.94	-263.92	-297.38	-330.85	-364.31	-376.02	-397.78
825	3038	-14 54 31 0	-71 12 2 0	3997.00	-1163.91	-264.74	-298.24	-331.73	-365.22	-376.94	-398.71
826	3039	-14 54 27 0	-71 12 11 0	3976.90	-1163.95	-265.74	-298.16	-332.21	-365.71	-377.43	-399.19
827	3040	-14 55 33 0	-71 11 45 0	4055.20	-1174.72	-267.13	-298.88	-333.65	-366.59	-378.47	-398.53
828	3041	-14 56 49 0	-71 10 49 0	4047.60	-1181.11	-270.93	-304.70	-338.65	-372.56	-384.43	-406.42
829	3042	-14 56 37 0	-71 11 3 0	4033.50	-1176.95	-269.98	-301.65	-337.41	-371.18	-383.00	-404.95
830	3043	-14 57 18 0	-71 10 47 0	4033.90	-1177.39	-270.15	-303.91	-337.69	-371.44	-383.26	-405.20
831	3044	-14 57 50 0	-71 10 28 0	4013.20	-1174.23	-271.26	-304.91	-338.36	-371.91	-383.65	-405.55
832	3045	-14 57 44 0	-71 11 11 0	4054.80	-1181.10	-269.15	-303.08	-337.02	-370.95	-382.93	-404.89
833	3046	-14 57 25 0	-71 11 21 0	4026.80	-1183.45	-269.16	-302.45	-336.75	-371.05	-383.05	-405.35
834	3047	-14 57 49 0	-71 11 33 0	4024.50	-1171.70	-266.57	-300.25	-333.94	-367.62	-379.41	-401.30
835	3048	-14 55 29 0	-71 13 42 0	3913.60	-1152.43	-259.69	-291.92	-325.15	-358.39	-370.02	-391.62
836	3049	-14 55 8 0	-71 13 52 0	3955.10	-1152.15	-260.39	-293.56	-326.77	-359.93	-371.57	-393.18
837	3050	-14 53 28 0	-71 12 32 0	3992.70	-1164.55	-266.23	-300.23	-333.60	-367.12	-378.83	-400.58
838	3051	-14 53 3 0	-71 12 53 0	3971.20	-1157.51	-264.60	-297.98	-331.12	-364.39	-376.02	-397.64
839	3052	-14 53 26 0	-71 13 15 0	3926.80	-1161.83	-263.72	-296.69	-330.17	-363.65	-375.36	-397.12
840	3053	-14 53 21 0	-71 13 49 0	3979.00	-1154.62	-259.81	-293.29	-326.52	-359.84	-371.50	-393.16
841	3054	-14 52 41 0	-71 13 15 0	3965.00	-1153.12	-261.53	-295.79	-327.95	-361.15	-372.76	-394.35
842	3055	-14 52 50 0	-71 13 54 0	3959.10	-1153.76	-260.65	-293.59	-326.75	-359.82	-371.49	-393.03
843	3056	-14 52 36 0	-71 14 11 0	3952.40	-1152.34	-261.23	-294.42	-327.52	-360.76	-372.35	-393.93
844	3057	-14 53 5 0	-71 14 20 0	3950.40	-1153.01	-261.69	-294.77	-327.85	-360.91	-372.51	-393.98
845	3058	-14 53 11 0	-71 14 49 0	3922.30	-1145.53	-262.95	-295.91	-328.69	-361.55	-373.06	-394.42
846	3059	-14 55 33 0	-71 14 45 0	3945.50	-1149.00	-261.97	-294.58	-327.60	-360.61	-372.17	-393.63
847	3060	-14 55 31 0	-71 13 13 0	4002.90	-1158.13	-258.21	-291.72	-325.22	-358.73	-370.45	-392.24
848	3201	-14 55 2 0	-71 13 11 0	3974.80	-1153.07	-259.20	-292.49	-325.76	-359.03	-370.68	-392.31
849	3202	-14 55 31 0	-71 12 36 0	3917.80	-1151.12	-262.63	-295.90	-329.20	-362.42	-374.15	-395.19
850	3203	-14 56 10 0	-71 11 37 0	3984.90	-1162.36	-265.31	-298.68	-333.05	-366.42	-378.10	-399.79

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 108

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 10 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
851	3204	-14 56 39 0	-71 11 21 0	4011.30	-1171.52	-269.93	-302.57	-336.17	-369.77	-381.53	-403.35
852	3205	-14 51 5 0	-71 11 18 0	4037.10	-1179.50	-269.55	-303.29	-337.05	-370.81	-382.62	-404.57
853	3206	-14 51 32 0	-71 12 59 0	4000.00	-1166.50	-267.16	-300.47	-334.18	-367.69	-379.41	-401.19
854	3207	-14 51 33 0	-71 13 14 0	3935.30	-1160.53	-266.27	-299.74	-333.21	-366.67	-378.39	-400.14
855	3208	-14 51 38 0	-71 13 49 0	3910.50	-1163.27	-265.09	-299.47	-332.89	-366.32	-378.02	-399.74
856	3209	-14 51 17 0	-71 14 14 0	3982.70	-1161.62	-265.65	-298.97	-332.30	-365.81	-377.27	-398.93
857	3210	-14 52 5 0	-71 14 20 0	4033.60	-1171.73	-264.44	-298.22	-332.00	-365.78	-377.60	-399.56
858	3211	-14 51 35 0	-71 14 58 0	3974.90	-1157.84	-266.52	-299.30	-332.59	-365.85	-377.51	-399.13
859	3212	-14 52 15 0	-71 15 0 0	3962.50	-1151.74	-265.23	-298.76	-331.25	-364.76	-375.81	-397.27
860	3213	-14 52 1 0	-71 13 57 0	4019.00	-1168.35	-264.55	-298.50	-331.95	-365.02	-377.40	-399.27
861	3214	-14 51 59 0	-71 13 20 0	3973.50	-1164.37	-265.06	-298.56	-332.06	-365.56	-377.28	-399.05
862	3215	-14 52 18 0	-71 14 1 0	3942.70	-1155.15	-264.14	-297.31	-330.51	-363.69	-375.30	-396.86
863	3216	-14 50 57 0	-71 13 35 0	3938.90	-1165.87	-265.83	-300.34	-333.81	-367.31	-379.03	-400.81
864	3217	-14 50 59 0	-71 13 11 0	4015.00	-1167.36	-266.53	-300.44	-333.99	-367.54	-379.24	-401.09
865	3218	-14 50 36 0	-71 13 16 0	4013.10	-1170.52	-268.22	-301.83	-335.44	-369.06	-380.82	-402.67
866	3219	-14 50 17 0	-71 13 59 0	3965.10	-1161.49	-270.67	-303.85	-337.03	-370.21	-381.83	-403.19
867	3220	-14 50 33 0	-71 14 19 0	3950.20	-1157.73	-269.19	-302.36	-335.55	-368.66	-380.26	-401.81
868	3221	-14 51 0 0	-71 14 20 0	3947.40	-1162.70	-267.59	-300.88	-334.12	-367.43	-379.08	-400.73
869	3222	-14 51 12 0	-71 15 2 0	3934.70	-1152.93	-268.25	-301.29	-335.16	-367.12	-378.65	-399.92
870	3223	-14 49 51 0	-71 13 41 0	4022.70	-1176.11	-271.64	-305.34	-339.03	-372.72	-384.52	-406.42
871	3224	-14 49 50 0	-71 15 22 0	3993.60	-1164.35	-271.26	-304.68	-338.11	-371.53	-383.23	-404.95
872	3225	-14 49 50 0	-71 16 24 0	3962.20	-1161.17	-272.59	-305.60	-339.70	-371.80	-383.39	-404.93
873	3226	-14 49 1 0	-71 15 55 0	3935.90	-1159.08	-272.74	-305.70	-339.66	-371.61	-383.15	-404.57
874	3227	-14 49 51 0	-71 15 50 0	3917.20	-1165.92	-271.95	-305.48	-338.65	-371.82	-383.36	-404.99
875	3228	-14 50 21 0	-71 15 56 0	3912.00	-1165.42	-271.79	-305.04	-339.29	-371.53	-383.17	-404.78
876	3229	-14 49 41 0	-71 15 22 0	3949.80	-1162.02	-272.35	-305.25	-338.14	-371.04	-382.55	-403.93
877	3230	-14 49 43 0	-71 16 29 0	3975.10	-1155.21	-275.65	-308.35	-341.05	-373.76	-385.19	-406.56
878	3231	-14 49 45 0	-71 17 0 0	3938.20	-1150.73	-275.37	-308.12	-340.84	-373.56	-385.02	-406.29
879	3232	-14 49 16 0	-71 16 41 0	3912.00	-1156.61	-276.83	-309.60	-342.36	-375.12	-386.59	-407.89
880	3233	-14 49 22 0	-71 16 13 0	3920.70	-1157.25	-275.59	-308.42	-341.29	-374.08	-385.57	-406.91
881	3234	-14 49 56 0	-71 16 5 0	3947.20	-1159.85	-272.49	-305.49	-338.51	-371.53	-383.09	-404.35
882	3235	-14 50 21 0	-71 15 59 0	3921.10	-1157.88	-270.74	-303.58	-336.45	-369.29	-380.79	-402.14
883	3236	-14 51 1 0	-71 15 25 0	3917.10	-1152.13	-269.45	-301.76	-335.07	-368.38	-380.03	-401.61
884	3237	-14 50 27 0	-71 15 23 0	3960.00	-1165.76	-270.13	-303.20	-336.45	-369.69	-381.24	-402.79
885	3238	-14 53 11 0	-71 16 25 0	3915.50	-1151.95	-271.35	-305.11	-337.97	-370.62	-382.09	-403.38
886	3239	-14 50 57 0	-71 15 55 0	3919.00	-1153.24	-269.78	-301.55	-334.31	-367.07	-378.58	-399.86
887	3240	-14 50 45 0	-71 16 45 0	3915.70	-1154.02	-269.65	-302.93	-335.61	-369.18	-379.92	-401.39
888	3241	-14 50 22 0	-71 17 8 0	3916.40	-1150.65	-269.97	-302.76	-335.55	-368.35	-379.82	-401.11
889	3242	-14 52 7 0	-71 17 45 0	3929.90	-1149.52	-269.24	-302.02	-334.76	-367.52	-378.95	-400.24
890	4110	-14 39 26 0	-71 21 33 0	3983.50	-1147.24	-253.41	-286.76	-320.10	-353.45	-365.12	-386.80
891	4111	-14 38 31 0	-71 21 27 0	4036.80	-1151.15	-249.96	-283.49	-318.02	-350.55	-362.28	-384.08
892	4112	-14 39 56 0	-71 22 47 0	3959.00	-1144.00	-258.39	-292.07	-325.16	-359.29	-369.83	-391.34
893	4113	-14 38 38 0	-71 23 43 0	3897.90	-1120.24	-253.04	-285.52	-317.98	-350.44	-361.83	-382.90
894	4114	-14 38 8 0	-71 24 33 0	3874.50	-1127.06	-255.65	-283.11	-315.73	-348.27	-359.66	-380.82
895	4115	-14 37 32 0	-71 24 32 0	3929.40	-1145.85	-250.45	-283.71	-316.97	-350.24	-361.88	-383.50
896	4116	-14 36 55 0	-71 24 45 0	3997.90	-1145.45	-249.93	-283.26	-316.59	-349.91	-361.58	-383.24
897	4117	-14 36 21 0	-71 24 45 0	3922.50	-1147.61	-249.49	-282.86	-314.24	-347.61	-361.31	-383.92
898	4118	-14 35 44 0	-71 24 49 0	4093.50	-1107.04	-240.00	-287.20	-314.32	-350.44	-362.39	-384.56
899	4119	-14 35 26 0	-71 24 37 0	4118.50	-1137.73	-250.65	-281.12	-319.11	-353.55	-365.59	-387.32
900	4120	-14 34 34 0	-71 24 15 0	4142.00	-1185.47	-253.38	-288.50	-322.61	-357.22	-369.34	-391.91

BOUGUER ANOMALIES FOR SIX DENSITIES — NESCO 108

THE GRAVIMETRIC SURVEY OF [illegible] AREA IN PERU 1972

STATION-NO.		LATITUDE DEG MIN SEC.	LONGITUDE DEG MIN SEC.	ALTITUDE METER	G.V.-S.V. MGAL	2.00 MGAL	2.20 MGAL	2.40 MGAL	2.60 MGAL	2.67 MGAL	2.80 MGAL
901	4121	-14 34 21 0	-71 24 23 0	4126.90	-1170.24	-259.75	-289.12	-323.51	-357.93	-369.93	-392.28
902	4122	-14 35 0 0	-71 23 49 0	4126.10	-1181.67	-253.36	-287.16	-322.39	-351.95	-359.99	-381.92
903	4123	-14 34 29 0	-71 23 47 0	4032.30	-1173.53	-255.41	-287.11	-323.81	-358.09	-369.96	-372.12
904	4124	-14 34 35 0	-71 23 17 0	3969.90	-1152.39	-259.41	-292.92	-326.14	-359.31	-371.02	-392.62
905	4125	-14 33 22 0	-71 23 9 0	3814.80	-1129.98	-258.16	-290.51	-322.91	-355.31	-366.76	-387.43
906	4126	-14 33 1 0	-71 22 52 0	4569.90	-1153.43	-265.54	-294.25	-327.96	-361.61	-373.47	-395.38
907	4127	-14 33 33 0	-71 22 37 0	4539.10	-1171.52	-265.43	-298.11	-332.10	-365.91	-377.78	-399.78
908	4128	-14 36 33 0	-71 22 33 0	4560.10	-1177.50	-264.34	-298.19	-332.03	-365.08	-377.72	-399.72
909	4129	-14 36 30 0	-71 22 33 0	4537.13	-1171.31	-263.69	-297.32	-331.21	-365.11	-377.09	-399.97
910	4130	-14 35 59 0	-71 22 39 0	4530.90	-1165.97	-264.07	-298.43	-331.98	-365.95	-377.92	-399.15
911	4131	-14 35 56 0	-71 22 39 0	4526.50	-1160.15	-260.52	-289.61	-332.93	-366.21	-377.09	-399.51
912	4132	-14 34 29 0	-71 22 31 0	3910.50	-1141.17	-262.03	-285.65	-320.41	-361.20	-372.78	-394.11
913	4133	-14 35 33 0	-71 22 29 0	3916.50	-1155.76	-261.22	-273.92	-327.95	-361.21	-372.95	-394.61
914	4134	-14 35 14 0	-71 22 51 0	3920.90	-1155.15	-262.93	-285.81	-328.72	-361.41	-373.12	-394.51
915	4135	-14 35 34 0	-71 23 19 0	3955.00	-1153.52	-261.16	-295.39	-328.35	-360.53	-371.96	-395.55
916	4136	-14 37 24 0	-71 23 44 0	4129.52	-1182.14	-259.17	-288.19	-321.21	-357.72	-369.03	-392.24
917	4137	-14 37 44 0	-71 23 33 0	4124.70	-1182.31	-253.05	-287.51	-321.11	-356.11	-369.53	-392.49
918	4138	-14 37 16 0	-71 23 17 0	4060.90	-1183.59	-260.18	-294.17	-328.15	-362.14	-374.09	-378.11
919	4139	-14 37 52 0	-71 23 19 0	3997.90	-1159.91	-259.63	-293.00	-326.52	-359.92	-371.48	-393.92
920	4140	-14 38 6 0	-71 23 10 0	4034.20	-1164.07	-256.31	-290.26	-324.00	-357.75	-369.55	-391.49
921	4141	-14 36 59 0	-71 23 22 0	4527.50	-1165.15	-261.32	-295.06	-328.78	-362.52	-374.31	-396.26
922	4142	-14 36 33 0	-71 21 25 0	3970.90	-1161.35	-262.13	-295.57	-329.04	-362.51	-374.22	-395.94
923	4143	-14 36 24 0	-71 21 57 0	3961.20	-1155.86	-256.08	-289.76	-322.41	-355.41	-367.24	-398.91
924	4144	-14 35 41 0	-71 21 41 0	3967.90	-1146.16	-259.49	-291.76	-324.42	-357.87	-369.45	-390.99
925	4145	-14 35 12 0	-71 21 41 0	3965.10	-1154.75	-262.03	-300.13	-333.87	-366.24	-377.81	-399.32
926	4146	-14 34 41 0	-71 22 6 0	4018.70	-1149.90	-265.27	-298.94	-332.60	-366.26	-378.05	-399.93
927	4147	-14 34 55 0	-71 21 36 0	4015.90	-1171.05	-269.23	-301.80	-335.53	-369.12	-380.95	-402.42
928	4148	-14 34 10 0	-71 21 19 0	3941.90	-1161.30	-270.20	-303.34	-336.49	-369.83	-381.23	-402.77
929	4149	-14 34 47 0	-71 21 5 0	3975.20	-1165.97	-271.18	-304.92	-338.72	-371.04	-382.89	-405.32
930	4150	-14 35 14 0	-71 21 27 0	3970.10	-1164.62	-271.91	-305.17	-339.44	-371.73	-383.35	-404.97
931	4151	-14 35 2 0	-71 21 41 0	3937.90	-1169.11	-270.38	-303.87	-337.38	-370.88	-382.41	-404.39
932	4152	-14 35 2 0	-71 21 34 0	4032.70	-1173.12	-272.13	-303.56	-337.18	-370.70	-382.44	-404.23
933	4153	-14 36 3 0	-71 21 12 0	4015.90	-1175.41	-272.44	-306.08	-339.70	-373.36	-385.11	-406.82
934	4154	-14 35 23 0	-71 21 2 0	4022.40	-1178.52	-274.17	-307.87	-341.54	-375.76	-387.05	-408.95
935	4155	-14 35 52 0	-71 20 56 0	4049.70	-1183.91	-271.06	-309.92	-343.74	-374.66	-386.51	-408.52
936	4156	-14 35 43 0	-71 20 31 0	4021.70	-1178.92	-274.79	-308.49	-342.19	-373.88	-387.68	-409.58
937	4157	-14 35 21 0	-71 22 12 0	3974.10	-1161.53	-267.33	-300.61	-333.95	-367.24	-378.58	-400.52
938	4158	-14 36 8 0	-71 21 52 0	3971.49	-1164.41	-267.06	-300.53	-333.94	-367.11	-379.09	-400.87
939	4159	-14 37 52 0	-71 21 3 0	3920.40	-1155.95	-270.33	-307.12	-339.91	-372.73	-384.24	-405.51
940	4160	-14 37 31 0	-71 22 2 0	4005.10	-1169.04	-269.34	-301.47	-335.40	-369.92	-380.56	-402.45
941	4161	-14 37 5 0	-71 22 8 0	4015.10	-1172.63	-267.43	-301.16	-335.10	-368.11	-380.51	-402.31
942	4162	-14 36 25 0	-71 22 15 0	4057.60	-1176.95	-266.13	-300.04	-333.97	-367.93	-379.76	-401.66
943	4163	-14 36 37 0	-71 21 52 0	4057.52	-1183.93	-268.52	-302.44	-336.36	-370.28	-382.15	-404.19
944	4164	-14 36 48 0	-71 21 22 0	4054.40	-1181.67	-269.05	-303.92	-337.78	-371.76	-383.62	-405.70
945	4165	-14 37 4 0	-71 21 39 0	4027.45	-1175.31	-269.76	-302.99	-336.62	-370.32	-382.08	-403.95
946	4166	-14 39 23 0	-71 19 29 0	3941.00	-1172.92	-286.68	-319.57	-352.67	-385.47	-397.21	-418.65
947	4167	-14 39 51 0	-71 19 35 0	4027.94	-1185.03	-284.76	-318.76	-351.78	-385.22	-397.00	-418.77
948	4168	-14 40 29 0	-71 19 33 0	4065.99	-1197.74	-283.44	-317.47	-351.53	-385.50	-397.59	-419.43
949	4169	-14 40 30 0	-71 19 22 0	4050.70	-1186.27	-285.19	-318.71	-352.79	-385.87	-397.62	-419.55
950	4170	-14 40 5 0	-71 19 15 0	3969.90	-1175.96	-284.53	-317.71	-350.89	-384.06	-395.83	-417.24

ESEC

BOUGUER ANOMALIES FOR SIX DENSITIES — NESCO 109

THE GRAVIMETRIC SURVEY OF [illegible] AREA IN PERU 1972

STATION-NO.		LATITUDE DEG MIN SEC.	LONGITUDE DEG MIN SEC.	ALTITUDE METER	G.V.-S.V. MGAL	2.00 MGAL	2.20 MGAL	2.40 MGAL	2.60 MGAL	2.67 MGAL	2.80 MGAL
951	2101	-14 52 15 0	-71 25 22 0	3920.10	-1129.81	-257.67	-290.38	-323.13	-355.88	-367.55	-388.65
952	2102	-14 52 15 0	-71 25 39 0	3990.50	-1150.17	-258.93	-292.29	-325.51	-359.01	-370.47	-392.12
953	2103	-14 52 59 0	-71 25 24 0	4204.70	-1195.45	-248.97	-281.96	-316.93	-351.93	-364.34	-386.80
954	2104	-14 52 48 0	-71 25 14 0	4130.00	-1191.04	-255.52	-291.50	-316.39	-351.71	-363.45	-386.35
955	2105	-14 52 52 0	-71 24 55 0	4038.10	-1157.24	-255.71	-287.61	-321.02	-354.42	-366.11	-387.45
956	2106	-14 52 41 0	-71 26 21 0	4017.20	-1162.57	-259.05	-292.67	-326.37	-359.92	-371.69	-393.34
957	2107	-14 53 19 0	-71 26 57 0	4074.00	-1165.43	-259.91	-293.69	-327.33	-360.99	-372.77	-394.61
958	2108	-14 53 12 0	-71 26 17 0	4045.40	-1165.55	-255.69	-290.43	-324.29	-358.09	-369.92	-391.19
959	2109	-14 53 20 0	-71 25 52 0	4028.90	-1162.46	-254.03	-287.61	-320.91	-354.43	-366.19	-387.94
960	2110	-14 53 49 0	-71 25 45 0	4047.10	-1167.19	-252.93	-286.92	-320.73	-354.64	-366.51	-388.55
961	2111	-14 53 55 0	-71 26 9 0	4091.59	-1172.33	-254.76	-288.87	-322.97	-357.07	-369.03	-391.17
962	2112	-14 54 5 0	-71 26 33 0	4049.49	-1170.95	-259.93	-293.77	-327.65	-361.51	-373.37	-395.38
963	2113	-14 54 17 0	-71 26 8 0	4094.00	-1173.71	-257.97	-291.73	-325.92	-360.13	-372.06	-394.20
964	2114	-14 54 41 0	-71 25 39 0	4058.45	-1172.97	-257.87	-291.79	-325.69	-359.59	-371.46	-393.30
965	2115	-14 55 5 0	-71 25 47 0	4077.40	-1175.55	-257.87	-291.91	-326.00	-360.07	-371.97	-394.14
966	2116	-14 55 42 0	-71 25 34 0	4271.90	-1202.35	-253.03	-288.17	-321.35	-355.44	-369.74	-391.54
967	2117	-14 55 36 0	-71 26 4 0	4154.10	-1182.62	-259.24	-290.33	-325.13	-359.92	-372.10	-394.72
968	2118	-14 55 16 0	-71 25 22 0	4255.30	-1207.42	-249.27	-283.87	-319.08	-354.48	-366.91	-389.95
969	2119	-14 53 37 0	-71 25 1 0	3967.20	-1153.17	-252.57	-288.76	-321.92	-355.07	-366.49	-389.21
970	2120	-14 51 44 0	-71 25 39 0	3959.50	-1147.73	-257.36	-290.51	-323.68	-356.82	-368.42	-389.97
971	2121	-14 51 51 0	-71 25 51 0	3971.40	-1153.20	-259.76	-293.01	-326.21	-359.55	-371.24	-392.42
972	2122	-14 52 9 0	-71 26 6 0	3997.10	-1155.15	-259.53	-292.91	-326.29	-359.67	-371.36	-393.05
973	2123	-14 53 42 0	-71 26 37 0	3955.36	-1159.96	-259.53	-292.65	-325.77	-358.87	-370.49	-392.93
974	2124	-14 52 12 0	-71 26 47 0	3962.20	-1157.35	-259.96	-293.21	-325.95	-359.50	-370.41	-391.65
975	2125	-14 52 50 0	-71 26 52 0	3970.10	-1159.67	-259.10	-292.37	-326.24	-359.52	-371.15	-392.77
976	2126	-14 53 37 0	-71 26 51 0	3972.49	-1150.41	-260.11	-293.52	-326.99	-359.78	-371.97	-393.57
977	2127	-14 54 24 0	-71 26 51 0	4002.10	-1161.16	-262.76	-294.15	-327.17	-361.10	-372.93	-394.65
978	2128	-14 54 45 0	-71 26 53 0	4076.00	-1176.77	-259.37	-293.51	-327.63	-361.76	-373.59	-395.06
979	2129	-14 55 9 0	-71 26 55 0	4035.10	-1176.91	-258.79	-291.95	-327.30	-361.55	-373.35	-395.91
980	2130	-14 54 51 0	-71 27 9 0	4037.30	-1169.14	-261.07	-295.01	-328.94	-362.91	-374.72	-396.91
981	2131	-14 55 8 0	-71 25 5 0	4056.35	-1162.59	-248.69	-282.45	-316.27	-350.07	-361.89	-383.96
982	2132	-14 54 29 0	-71 25 1 0	3997.70	-1156.84	-255.94	-289.11	-322.38	-355.65	-367.21	-388.97
983	2133	-14 54 37 0	-71 24 49 0	3991.59	-1155.92	-255.86	-289.11	-322.37	-355.63	-367.21	-388.83
984	2134	-14 55 0 0	-71 25 5 0	4075.70	-1173.69	-252.43	-286.49	-320.36	-354.32	-366.20	-388.27
985	2135	-14 55 23 0	-71 24 49 0	3987.30	-1141.92	-259.91	-288.11	-322.72	-355.67	-367.92	-389.93
986	2136	-14 55 39 0	-71 24 15 0	4014.70	-1173.11	-254.87	-288.55	-322.97	-357.01	-368.92	-391.05
987	2137	-14 55 0 0	-71 24 23 0	3965.53	-1155.89	-257.93	-291.02	-324.19	-357.38	-369.89	-390.55
988	2138	-14 55 50 0	-71 24 10 0	3971.00	-1157.99	-259.60	-291.70	-324.92	-357.93	-369.51	-391.03
989	2139	-14 56 19 0	-71 24 12 0	4059.20	-1167.39	-256.43	-290.21	-323.98	-357.76	-369.53	-391.53
990	2140	-14 56 10 0	-71 24 49 0	4141.70	-1190.12	-251.42	-285.91	-320.51	-355.05	-367.16	-389.50
991	2141	-14 56 33 0	-71 24 49 0	4172.10	-1193.53	-250.23	-284.92	-319.71	-354.52	-366.31	-389.53
992	2142	-14 56 43 0	-71 24 21 0	4145.30	-1191.84	-252.11	-287.71	-321.30	-355.97	-369.07	-390.91
993	2143	-14 56 2 0	-71 23 31 0	4024.40	-1157.80	-257.51	-291.08	-324.59	-358.04	-369.65	-391.39
994	2144	-14 56 31 0	-71 23 45 0	4027.70	-1161.21	-254.02	-288.53	-322.19	-355.78	-367.57	-389.44
995	2145	-14 56 44 0	-71 23 19 0	3992.20	-1159.71	-258.53	-291.77	-325.16	-359.51	-370.10	-391.87
996	2146	-14 57 10 0	-71 23 51 0	4097.75	-1176.03	-255.34	-287.52	-321.71	-355.90	-367.96	-390.08
997	2147	-14 56 38 0	-71 24 51 0	4201.52	-1195.76	-253.35	-287.33	-321.31	-355.82	-367.85	-392.06
998	2148	-14 57 14 0	-71 24 29 0	4133.00	-1177.09	-256.15	-290.42	-324.49	-358.96	-368.93	-391.72
999	2149	-14 52 19 0	-71 23 51 0	4197.90	-1170.22	-252.88	-287.11	-321.91	-355.61	-367.82	-389.97
1000	2150	-14 57 16 0	-71 23 14 0	4023.54	-1162.95	-256.47	-290.28	-323.14	-357.43	-369.18	-391.06

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 101

THE GRAVIMETRIC SURVEY OF TAUCA AREA IN PERU 1972 12 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.03	2.20	2.45	2.60	2.67	2.85
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
1301	2151	-14 57 41 0	-71 23 5 0	4293.80	-1176.18	-253.49	-287.13	-321.98	-356.21	-368.22	-330.41
1302	2152	-14 57 35 0	-71 22 27 0	4035.80	-1167.46	-259.49	-293.24	-326.96	-360.13	-372.54	-334.40
1303	2153	-14 57 45 0	-71 21 56 0	4050.30	-1171.60	-260.51	-295.14	-329.15	-362.43	-373.58	-335.93
1304	2154	-14 58 16 0	-71 22 15 0	4044.80	-1173.14	-258.61	-292.59	-326.58	-360.55	-372.44	-334.93
1305	2155	-14 55 24 0	-71 22 57 0	3910.20	-1152.57	-258.96	-291.25	-324.45	-357.66	-369.78	-330.66
1306	2156	-14 54 56 0	-71 23 11 0	3957.90	-1151.97	-259.61	-291.75	-324.94	-357.96	-369.55	-391.88
1307	2157	-14 55 20 0	-71 23 34 0	3939.49	-1153.94	-256.58	-289.01	-321.55	-355.86	-355.53	-330.13
1308	2158	-14 55 20 0	-71 22 55 0	3976.20	-1157.19	-255.65	-288.51	-322.13	-355.39	-367.02	-389.44
1309	2159	-14 53 52 0	-71 23 22 0	3335.80	-1157.12	-259.02	-287.33	-320.58	-353.86	-355.55	-392.16
1310	2160	-14 53 27 0	-71 23 4 0	3978.20	-1169.95	-257.35	-286.55	-319.76	-352.97	-369.50	-388.17
1311	2161	-14 55 18 0	-71 23 33 0	4015.90	-1155.56	-255.52	-289.93	-322.65	-354.22	-360.94	-389.93
1312	2162	-14 59 27 0	-71 20 16 0	4078.50	-1180.92	-263.33	-297.41	-331.53	-365.02	-377.56	-399.72
1313	2163	-14 59 51 0	-71 20 4 0	4104.80	-1180.91	-262.25	-297.56	-331.87	-366.18	-379.19	-400.49
1314	2164	-14 59 41 0	-71 18 32 0	4133.60	-1197.50	-267.37	-302.14	-336.70	-371.27	-383.97	-405.44
1315	2165	-14 59 25 0	-71 18 3 0	4092.10	-1192.94	-256.44	-301.12	-335.41	-369.71	-381.73	-406.01
1316	2166	-14 58 38 0	-71 18 43 0	4069.30	-1181.49	-265.19	-299.19	-333.14	-367.12	-379.90	-401.98
1317	2167	-14 58 15 0	-71 18 55 0	4061.40	-1173.16	-265.21	-299.15	-333.19	-367.04	-379.93	-400.92
1318	2168	-14 58 22 0	-71 19 34 0	4068.60	-1182.50	-265.26	-299.20	-333.30	-367.32	-379.78	-401.36
1319	2169	-14 58 14 0	-71 20 5 0	4049.50	-1176.11	-265.22	-299.15	-333.02	-366.93	-378.86	-400.16
1320	2170	-14 57 41 0	-71 20 11 0	4030.70	-1169.95	-263.47	-297.14	-333.86	-364.58	-376.99	-399.33
1321	2171	-14 57 45 0	-71 19 35 0	4055.10	-1175.24	-265.52	-299.33	-333.15	-366.98	-378.92	-399.91
1322	2172	-14 57 43 0	-71 19 0 0	4091.60	-1184.71	-264.26	-298.55	-332.40	-366.99	-378.05	-401.12
1323	2173	-14 57 42 0	-71 18 33 0	4127.60	-1191.24	-262.10	-296.58	-331.03	-365.51	-377.55	-399.15
1324	2174	-14 57 10 0	-71 18 29 0	4232.60	-1204.92	-259.23	-293.72	-328.24	-363.26	-375.52	-398.20
1325	2175	-14 57 11 0	-71 18 55 0	4110.10	-1187.37	-261.26	-295.65	-330.04	-364.43	-376.47	-398.81
1326	2176	-14 56 37 0	-71 19 0 0	4121.35	-1186.26	-253.82	-293.26	-327.70	-362.16	-374.18	-396.58
1327	2177	-14 56 32 0	-71 18 26 0	4190.95	-1202.41	-255.83	-290.79	-325.69	-360.59	-372.83	-395.49
1328	2178	-14 56 9 0	-71 18 31 0	4148.50	-1192.60	-254.75	-289.58	-324.49	-359.23	-371.42	-394.05
1329	2179	-14 57 12 0	-71 18 29 0	4051.40	-1172.32	-260.05	-293.96	-327.86	-361.76	-373.63	-395.86
1330	2180	-14 56 30 0	-71 19 37 0	4074.90	-1177.73	-256.97	-290.14	-324.27	-358.35	-370.29	-392.45
1331	2181	-14 56 0 0	-71 19 53 0	4139.10	-1185.55	-253.52	-288.06	-322.52	-357.11	-369.22	-391.65
1332	2182	-14 55 54 0	-71 19 22 0	4106.95	-1177.33	-253.37	-287.66	-321.99	-356.32	-369.34	-391.45
1333	2183	-14 55 34 0	-71 20 19 0	4052.00	-1167.25	-255.24	-289.14	-322.92	-356.26	-359.94	-390.92
1334	2184	-14 56 30 0	-71 20 12 0	4047.60	-1167.42	-257.05	-290.93	-324.80	-359.67	-370.55	-392.55
1335	2185	-14 56 2 0	-71 20 32 0	4021.10	-1162.29	-257.69	-291.21	-324.82	-358.51	-370.20	-392.16
1336	2186	-14 56 35 0	-71 20 45 0	4025.50	-1165.91	-259.60	-293.29	-326.97	-360.66	-372.45	-394.34
1337	2187	-14 57 15 0	-71 20 19 0	4027.10	-1165.12	-260.31	-294.00	-327.61	-361.34	-373.93	-395.02
1338	2188	-14 57 45 0	-71 20 38 0	4030.10	-1171.13	-262.55	-298.65	-339.44	-364.73	-376.95	-396.02
1339	2189	-14 57 17 0	-71 20 55 0	4022.50	-1165.95	-261.51	-295.22	-328.85	-362.59	-374.26	-396.17
1340	2190	-14 57 14 0	-71 21 11 0	4024.40	-1165.79	-261.63	-295.27	-324.94	-362.62	-374.40	-396.29
1341	2191	-14 56 50 0	-71 21 12 0	4013.20	-1163.90	-261.27	-294.85	-320.44	-362.02	-373.11	-395.63
1342	2192	-14 56 2 0	-71 21 19 0	4004.50	-1159.16	-257.53	-291.01	-324.55	-359.09	-369.77	-391.55
1343	2193	-14 56 0 0	-71 21 59 0	4019.70	-1161.09	-259.26	-292.61	-326.12	-359.74	-371.59	-393.33
1344	2194	-14 56 0 0	-71 22 23 0	3937.10	-1157.94	-259.07	-292.34	-325.78	-359.23	-370.93	-392.67
1345	2195	-14 56 26 0	-71 22 5 0	4095.49	-1161.59	-260.61	-294.12	-327.70	-361.21	-372.94	-395.11
1346	2196	-14 53 56 0	-71 24 10 0	3950.93	-1149.54	-259.69	-291.76	-324.07	-359.09	-369.61	-391.19
1347	2197	-14 53 16 0	-71 24 15 0	3955.60	-1147.86	-259.08	-291.12	-324.26	-357.36	-358.94	-390.49
1348	2198	-14 52 42 0	-71 24 24 0	3952.50	-1145.86	-256.81	-289.91	-322.99	-358.05	-357.63	-389.12
1349	2199	-14 52 16 0	-71 24 22 0	3965.10	-1149.74	-256.55	-289.41	-322.49	-359.52	-357.09	-359.55
1350	2200	-14 51 41 0	-71 24 17 0	3943.50	-1141.29	-254.58	-287.60	-320.62	-359.65	-369.19	-330.66

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 102

THE GRAVIMETRIC SURVEY OF TAUCA AREA IN PERU 1972 12 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.03	2.20	2.45	2.60	2.67	2.85
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
1351	2201	-14 52 7 0	-71 23 35 0	3955.20	-1143.46	-254.39	-287.49	-320.60	-353.71	-365.33	-346.82
1352	2202	-14 52 33 0	-71 23 5 0	4049.65	-1159.94	-247.75	-281.54	-315.34	-349.15	-369.93	-347.45
1353	2203	-14 52 41 0	-71 23 32 0	4027.55	-1159.50	-252.76	-286.48	-320.19	-353.01	-365.71	-397.42
1354	2204	-14 52 12 0	-71 24 3 0	4045.60	-1157.82	-249.86	-282.68	-318.07	-349.46	-361.49	-395.28
1355	2205	-14 51 47 0	-71 23 5 0	4037.20	-1165.75	-252.13	-285.92	-319.71	-353.59	-359.32	-347.89
1356	2206	-14 51 50 0	-71 23 45 0	4001.50	-1156.28	-255.41	-287.92	-321.42	-354.45	-356.55	-388.43
1357	2207	-14 50 31 0	-71 23 42 0	3942.10	-1139.72	-252.72	-285.74	-318.76	-351.16	-369.34	-384.81
1358	2208	-14 51 20 0	-71 23 47 0	3953.00	-1142.91	-253.59	-286.71	-319.83	-352.95	-364.54	-386.87
1359	2210	-14 52 48 0	-71 24 13 0	3921.20	-1137.02	-253.89	-286.81	-319.73	-352.66	-364.18	-385.58
1360	2211	-14 50 17 0	-71 24 15 0	3926.90	-1136.64	-253.47	-244.76	-317.66	-352.52	-355.91	-385.45
1361	2212	-14 49 49 0	-71 24 5 0	3917.20	-1135.55	-254.02	-247.53	-329.44	-353.25	-355.78	-386.95
1362	2213	-14 49 49 0	-71 23 31 0	3927.00	-1139.52	-255.50	-288.39	-321.27	-354.14	-365.67	-387.04
1363	2214	-14 49 49 0	-71 23 2 0	3935.10	-1142.91	-257.71	-290.19	-323.15	-358.11	-358.95	-359.07
1364	2215	-14 50 11 0	-71 22 47 0	3976.90	-1147.74	-256.47	-289.44	-322.45	-355.47	-356.93	-388.33
1365	2216	-14 50 53 0	-71 22 51 0	3935.10	-1139.63	-255.07	-287.01	-319.93	-352.05	-364.47	-385.77
1366	2217	-14 51 10 0	-71 23 4 0	3955.50	-1147.39	-257.43	-288.91	-320.57	-355.19	-366.71	-386.13
1367	2218	-14 50 14 0	-71 23 37 0	3920.10	-1132.26	-255.85	-288.95	-321.76	-355.41	-366.19	-387.43
1368	4171	-14 38 42 0	-71 17 23 0	4074.20	-1179.47	-284.09	-317.35	-350.62	-383.42	-395.53	-417.13
1369	4172	-14 38 36 0	-71 16 35 0	4020.10	-1222.31	-280.72	-315.11	-349.42	-383.76	-395.29	-418.03
1370	4173	-14 39 7 0	-71 16 12 0	4049.10	-1190.14	-280.05	-315.02	-349.20	-393.39	-395.34	-417.53
1371	4174	-14 39 11 0	-71 16 19 0	4037.80	-1191.04	-281.97	-316.03	-350.61	-384.41	-396.24	-418.71
1372	4175	-14 37 49 0	-71 16 59 0	4021.90	-1189.27	-284.32	-310.01	-351.69	-385.37	-397.16	-419.84
1373	4176	-14 39 11 0	-71 17 9 0	3996.50	-1192.24	-284.25	-317.50	-350.95	-384.53	-398.33	-417.83
1374	4177	-14 39 17 0	-71 17 47 0	3958.35	-1176.61	-248.53	-319.68	-352.82	-385.97	-397.57	-419.11
1375	4178	-14 39 44 0	-71 17 42 0	3970.10	-1177.11	-248.45	-319.71	-352.98	-386.71	-397.46	-419.46
1376	4179	-14 49 18 0	-71 17 45 0	3937.78	-1164.77	-285.01	-320.41	-353.90	-387.38	-397.10	-420.85
1377	4180	-14 41 13 0	-71 17 33 0	3381.10	-1113.14	-282.99	-323.35	-356.72	-330.00	-401.76	-425.46
1378	4181	-14 41 8 0	-71 17 21 0	3978.10	-1105.08	-293.11	-324.04	-357.37	-370.70	-402.36	-424.92
1379	4182	-14 40 32 0	-71 17 9 0	3982.92	-1166.20	-281.65	-322.51	-352.37	-388.72	-402.43	-422.00
1380	4183	-14 40 2 0	-71 16 21 0	3977.70	-1187.05	-286.54	-319.65	-353.15	-384.65	-398.10	-419.75
1381	3401	-14 41 32 0	-71 16 31 0	3974.80	-1189.10	-289.07	-323.47	-355.93	-385.45	-402.71	-423.79
1382	3402	-14 42 21 0	-71 17 12 0	4050.90	-1203.06	-289.70	-323.21	-357.14	-391.06	-402.95	-425.05
1383	1009	-14 58 55 0	-71 18 1 0	4221.00	-1229.93	-259.55	-294.81	-329.98	-365.25	-377.60	-420.52
1384	1010	-14 59 55 0	-71 17 29 0	4176.80	-1201.44	-263.14	-295.99	-319.83	-365.69	-377.87	-430.52
1385	1011	-14 59 44 0	-71 18 7 0	4139.80	-1192.62	-260.92	-302.32	-335.76	-371.13	-383.16	-435.53
1386	1012	-14 59 44 0	-71 17 12 0	4117.80	-1193.27	-266.77	-331.19	-335.62	-370.04	-382.59	-434.47
1387	1013	-14 59 47 0	-71 16 42 0	4116.70	-2191.93	-265.21	-299.59	-333.95	-368.92	-383.35	-432.69
1388	1014	-14 58 51 0	-71 17 17 0	4203.90	-1221.06	-255.65	-291.09	-326.73	-362.31	-374.84	-370.01
1389	1015	-14 51 10 0	-71 17 31 0	4466.90	-1259.35	-251.38	-288.25	-325.12	-362.93	-374.33	-398.85
1390	1016	-14 58 9 0	-71 17 0 0	4497.60	-1269.47	-249.55	-286.74	-324.02	-361.29	-374.36	-399.57
1391	1017	-14 59 47 0	-71 16 21 0	4395.40	-1245.49	-254.45	-291.51	-328.34	-365.13	-378.02	-401.92
1392	1018	-14 59 11 0	-71 16 27 0	4375.10	-1239.54	-254.57	-292.06	-326.55	-369.06	-375.01	-399.52
1393	1019	-14 53 11 0	-71 16 22 0	4454.78	-1249.52	-256.85	-293.61	-330.38	-367.11	-339.91	-403.90
1394	1020	-14 58 43 0	-71 16 56 0	4269.70	-1229.55	-257.61	-277.42	-328.73	-355.83	-317.57	-400.84
1395	1021	-14 58 14 0	-71 18 2 0	4252.10	-1216.16	-258.93	-299.28	-328.18	-363.87	-372.78	-403.76
1396	1022	-14 59 14 0	-71 17 14 0	4165.70	-1201.32	-267.56	-297.21	-332.51	-357.24	-379.49	-401.97
1397	1023	-14 59 28 0	-71 16 54 0	4119.54	-1193.10	-265.33	-299.12	-333.19	-367.52	-380.44	-402.75
1398	3401	-14 49 53 0	-71 18 21 0	3993.00	-1145.95	-269.11	-278.07	-311.87	-364.39	-375.08	-397.83
1399	3402	-14 52 10 0	-71 18 7 0	3912.50	-1155.09	-265.12	-297.47	-332.63	-361.31	-374.06	-396.15
1400	3403	-14 50 34 0	-71 17 43 0	3923.70	-1149.24	-265.19	-298.50	-333.07	-369.66	-375.18	-396.65

BOUGUER ANOMALIES FOR SIX DENSITIES — MESCO 193

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 12 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	C.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
1101	3994	-14 51 2 0	-71 17 17 0	3956.50	-1151.24	-264.03	-298.55	-331.91	-363.86	-376.59	-397.91
1102	3995	-14 51 18 0	-71 16 42 0	3967.20	-1152.42	-264.83	-297.92	-330.96	-364.03	-375.56	-397.03
1103	3996	-14 51 26 0	-71 16 12 0	3925.50	-1153.46	-264.23	-297.32	-337.53	-363.56	-373.11	-396.63
1104	3997	-14 51 42 0	-71 15 48 0	3930.50	-1144.64	-264.13	-297.05	-329.05	-363.02	-374.55	-395.95
1105	3998	-14 52 23 0	-71 15 32 0	3932.10	-1145.41	-263.09	-296.03	-328.98	-361.92	-373.46	-394.87
1106	3810	-14 53 4 0	-71 15 3 0	3937.80	-1145.19	-262.12	-295.06	-328.01	-360.95	-372.48	-393.90
1107	3809	-14 52 51 0	-71 15 17 0	3935.90	-1149.32	-263.25	-296.18	-329.10	-362.03	-373.55	-394.93
1108	3811	-14 53 51 0	-71 14 22 0	3951.40	-1149.89	-265.03	-298.09	-328.16	-359.22	-370.70	-397.28
1109	3812	-14 54 25 0	-71 14 0 0	3962.90	-1150.22	-259.25	-292.92	-325.60	-358.37	-370.38	-391.95
1110	3813	-14 55 52 0	-71 13 11 0	3971.80	-1152.50	-259.15	-292.33	-325.62	-358.85	-370.69	-392.33
1111	3814	-14 56 16 0	-71 12 54 0	3978.60	-1153.46	-258.83	-291.91	-325.19	-358.56	-370.11	-391.74
1112	3815	-14 56 41 0	-71 12 32 0	3993.69	-1157.01	-258.82	-292.25	-325.67	-359.09	-370.79	-392.52
1113	3816	-14 57 13 0	-71 12 12 0	4005.00	-1162.57	-261.78	-295.33	-328.81	-362.31	-373.05	-395.45
1114	3817	-14 59 10 0	-71 11 17 0	4041.30	-1176.49	-267.49	-301.42	-335.25	-369.08	-380.92	-402.90
1115	3818	-14 55 32 0	-71 10 51 0	4055.90	-1182.16	-267.98	-301.76	-335.70	-369.65	-381.53	-403.50
1116	3819	-14 59 4 0	-71 10 31 0	4055.70	-1181.21	-269.01	-302.97	-336.91	-370.85	-382.73	-404.88
1117	3820	-14 59 36 0	-71 10 12 0	4045.20	-1177.97	-270.16	-304.04	-337.90	-371.75	-383.63	-405.61
1118	3821	-14 59 53 0	-71 9 51 0	4055.20	-1182.67	-270.82	-304.74	-339.64	-372.61	-384.51	-406.58
1119	3822	-14 59 9 0	-71 10 1 0	4079.20	-1182.39	-271.96	-306.00	-340.14	-374.27	-386.22	-408.41
1120	3823	-14 59 25 0	-71 10 59 0	4030.80	-1173.65	-266.94	-300.66	-334.35	-369.10	-379.93	-401.82
1121	3824	-14 59 32 0	-71 11 35 0	4057.40	-1176.59	-263.77	-297.70	-331.63	-365.55	-377.41	-399.49
1122	3825	-14 59 34 0	-71 12 19 0	4174.70	-1198.85	-260.88	-295.38	-329.87	-364.36	-376.43	-398.85
1123	3826	-14 59 57 0	-71 12 12 0	4116.60	-1196.13	-260.02	-294.51	-328.99	-363.38	-375.42	-397.82
1124	3827	-14 59 30 0	-71 11 9 0	4207.99	-1209.53	-256.65	-291.91	-326.98	-362.14	-374.44	-397.39
1125	4186	-14 41 28 0	-71 19 5 0	4002.10	-1185.30	-285.58	-319.11	-352.65	-386.17	-397.91	-419.81
1126	4187	-14 40 56 0	-71 19 37 0	3993.10	-1179.65	-281.98	-315.31	-348.76	-382.21	-393.92	-415.66
1127	4188	-14 41 26 0	-71 19 36 0	3909.50	-1162.18	-282.15	-315.41	-349.09	-382.54	-394.26	-416.01
1128	4189	-14 41 59 0	-71 20 5 0	4050.90	-1188.01	-277.31	-311.33	-345.20	-379.22	-391.10	-413.17
1129	4190	-14 41 26 0	-71 20 11 0	4020.70	-1191.61	-276.35	-310.45	-344.54	-378.63	-390.56	-412.72
1130	4191	-14 40 58 0	-71 20 9 0	4068.50	-1189.65	-275.93	-310.01	-344.04	-378.06	-389.92	-412.03
1131	4192	-14 42 20 0	-71 20 14 0	4093.20	-1175.71	-275.72	-309.26	-347.80	-376.35	-388.07	-409.87
1132	4193	-14 41 50 0	-71 20 33 0	4050.50	-1186.03	-275.43	-309.36	-343.30	-377.24	-389.12	-411.18
1133	4194	-14 41 23 0	-71 20 55 0	4076.40	-1183.04	-272.38	-306.31	-340.66	-374.77	-388.12	-408.93
1134	4195	-14 40 55 0	-71 20 49 0	4060.40	-1182.74	-272.49	-306.55	-340.61	-374.47	-386.49	-408.76
1135	4196	-14 40 53 0	-71 21 15 0	4082.60	-1178.55	-269.65	-303.51	-337.38	-371.21	-383.08	-405.08
1136	4197	-14 41 21 0	-71 21 35 0	4066.50	-1185.94	-269.38	-303.42	-337.46	-371.51	-383.42	-405.55
1137	4198	-14 41 49 0	-71 21 2 0	4080.00	-1185.37	-271.33	-305.38	-339.43	-373.52	-385.43	-407.38
1138	4199	-14 41 50 0	-71 19 37 0	4056.40	-1191.65	-280.15	-314.12	-349.09	-382.06	-393.95	-416.03
1139	4200	-14 42 22 0	-71 19 33 0	4026.10	-1185.12	-279.52	-313.24	-346.98	-380.72	-392.52	-414.45
1140	4501	-14 41 52 0	-71 19 11 0	4054.70	-1194.05	-282.10	-316.17	-350.06	-384.03	-395.88	-417.94
1141	4502	-14 42 57 0	-71 19 3 0	3989.80	-1183.14	-286.53	-319.95	-353.27	-386.69	-398.39	-420.11
1142	4503	-14 42 27 0	-71 15 26 0	4032.93	-1191.02	-286.33	-320.17	-353.97	-387.76	-399.58	-421.55
1143	4504	-14 43 1 0	-71 19 26 0	4073.10	-1195.16	-285.83	-319.71	-353.05	-386.93	-399.48	-417.25
1144	4505	-14 43 27 0	-71 19 33 0	4059.00	-1192.97	-280.00	-313.97	-347.93	-381.89	-393.78	-415.95
1145	5001	-14 41 52 0	-71 25 5 0	3927.60	-1136.93	-260.55	-293.20	-325.85	-358.52	-369.91	-391.93
1146	5002	-14 49 17 0	-71 25 49 0	3915.10	-1140.45	-260.43	-293.19	-325.93	-358.68	-370.26	-391.50
1147	5003	-14 48 39 0	-71 26 1 0	3922.30	-1141.52	-259.74	-292.28	-325.69	-358.55	-369.90	-391.33
1148	5004	-14 49 0 0	-71 26 33 0	3913.10	-1140.49	-260.69	-293.45	-326.21	-359.01	-370.48	-391.70
1149	5005	-14 49 23 0	-71 27 8 0	3919.80	-1142.91	-261.56	-294.37	-327.22	-360.06	-371.55	-392.93
1150	5006	-14 50 1 0	-71 28 5 0	3918.70	-1143.73	-262.57	-295.38	-328.19	-361.01	-372.49	-393.82

BOUGUER ANOMALIES FOR SIX DENSITIES — MESCO 194

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 12 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	C.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
1151	5007	-14 50 37 0	-71 29 41 0	3923.50	-1145.26	-263.44	-296.28	-329.13	-362.02	-373.48	-395.33
1152	5008	-14 50 55 0	-71 29 19 0	3925.80	-1145.27	-264.45	-297.29	-330.11	-362.93	-374.51	-395.86
1153	5009	-14 49 49 0	-71 27 52 0	3916.60	-1140.19	-259.91	-292.76	-325.55	-358.33	-369.91	-391.02
1154	5010	-14 48 30 0	-71 28 49 0	3902.20	-1131.58	-256.17	-288.84	-321.52	-354.19	-365.62	-386.86
1155	5011	-14 55 3 0	-71 27 7 0	3895.20	-1129.16	-255.45	-287.93	-320.45	-352.97	-364.35	-385.49
1156	5012	-14 49 12 0	-71 27 37 0	3908.60	-1137.17	-259.34	-291.97	-323.81	-356.55	-368.01	-389.20
1157	5013	-14 49 0 0	-71 26 40 0	3912.50	-1137.04	-257.39	-290.15	-322.92	-355.67	-367.16	-388.45
1158	5014	-14 47 50 0	-71 26 11 0	3912.60	-1135.72	-256.05	-288.82	-321.69	-354.37	-365.84	-387.15
1159	5015	-14 47 49 0	-71 25 39 0	3914.20	-1136.98	-256.94	-289.83	-322.52	-355.33	-365.76	-388.09
1160	5016	-14 46 21 0	-71 25 15 0	3878.50	-1123.07	-257.05	-289.54	-322.02	-354.51	-365.88	-387.09
1161	5017	-14 45 3 0	-71 25 37 0	3892.60	-1132.16	-259.17	-291.69	-324.22	-356.74	-368.12	-389.26
1162	5018	-14 45 49 0	-71 26 19 0	3876.80	-1123.17	-258.96	-291.37	-323.84	-356.27	-367.65	-388.75
1163	5019	-14 45 14 0	-71 26 39 0	3851.10	-1113.41	-258.27	-290.73	-323.25	-355.76	-367.14	-388.77
1164	5020	-14 47 17 0	-71 27 35 0	3860.00	-1115.66	-245.15	-277.47	-309.82	-342.16	-353.49	-374.50
1165	5021	-14 45 0 0	-71 28 12 0	3824.40	-1127.05	-243.41	-276.45	-309.36	-342.04	-353.45	-374.75
1166	5022	-14 44 36 0	-71 28 42 0	3919.50	-1124.77	-245.75	-278.41	-311.08	-349.75	-355.18	-376.42
1167	5023	-14 44 57 0	-71 29 13 0	3832.50	-1123.65	-255.55	-278.92	-311.53	-345.85	-355.71	-376.39
1168	5024	-14 49 16 0	-71 25 7 0	3929.49	-1137.75	-261.01	-293.67	-326.33	-358.97	-370.49	-371.65
1169	5025	-14 48 45 0	-71 23 27 0	3921.50	-1142.35	-260.65	-293.50	-326.35	-359.21	-370.70	-392.05
1170	5026	-14 49 18 0	-71 24 37 0	3924.10	-1142.20	-260.52	-292.07	-325.76	-358.61	-370.14	-391.55
1171	5027	-14 50 4 0	-71 25 55 0	3917.99	-1142.22	-259.35	-292.11	-325.00	-357.81	-369.33	-390.49
1172	5028	-14 51 0 0	-71 26 16 0	3924.70	-1142.94	-260.59	-293.45	-326.32	-359.18	-372.69	-392.05
1173	4506	-14 44 33 0	-71 24 5 0	3867.70	-1131.22	-261.33	-294.13	-326.51	-358.88	-370.20	-391.71
1174	4507	-14 44 35 0	-71 23 22 0	3965.70	-1154.95	-263.29	-296.51	-329.72	-362.94	-374.56	-396.65
1175	4508	-14 44 9 0	-71 21 9 0	4015.80	-1156.23	-263.32	-296.70	-330.60	-359.28	-376.01	-397.90
1176	4509	-14 44 1 0	-71 23 11 0	3957.60	-1155.20	-261.20	-294.34	-327.47	-360.57	-372.15	-393.46
1177	4510	-14 41 46 0	-71 23 37 0	3983.70	-1155.02	-262.16	-293.43	-326.66	-359.19	-371.96	-393.59
1178	4511	-14 44 2 0	-71 24 9 0	3956.80	-1151.67	-259.34	-292.53	-325.72	-358.93	-370.52	-392.09
1179	4512	-14 43 59 0	-71 24 33 0	3952.70	-1147.37	-258.53	-291.72	-324.92	-358.12	-369.59	-391.02
1180	4513	-14 43 35 0	-71 24 24 0	3952.80	-1138.05	-250.19	-292.84	-323.49	-358.14	-367.57	-388.93
1181	4514	-14 41 4 0	-71 24 31 0	3979.40	-1147.91	-252.95	-285.75	-319.57	-352.85	-365.55	-385.19
1182	4515	-14 41 2 0	-71 24 5 0	4035.70	-1165.78	-259.32	-287.19	-320.48	-354.65	-355.53	-387.44
1183	4516	-14 42 55 0	-71 21 55 0	4110.70	-1178.24	-253.55	-288.06	-322.57	-358.08	-369.91	-391.28
1184	4517	-14 43 25 0	-71 23 23 0	4107.60	-1181.91	-255.95	-291.09	-325.75	-359.53	-371.35	-393.55
1185	4518	-14 42 16 0	-71 21 35 0	4117.69	-1182.15	-255.23	-288.52	-322.11	-357.06	-369.26	-391.31
1186	4519	-14 42 23 0	-71 24 9 0	4091.90	-1172.53	-251.96	-286.08	-320.29	-354.39	-366.48	-388.71
1187	4520	-14 42 16 0	-71 24 32 0	3996.30	-1150.91	-251.65	-284.97	-319.49	-351.81	-363.38	-385.34
1188	4521	-14 43 35 0	-71 23 50 0	3905.30	-1134.04	-259.69	-292.16	-324.62	-357.59	-369.92	-390.16
1189	4522	-14 43 19 0	-71 23 23 0	3923.52	-1151.45	-258.16	-291.94	-324.29	-357.62	-369.08	-390.41
1190	4523	-14 42 55 0	-71 22 51 0	3919.00	-1144.10	-262.25	-295.53	-328.33	-361.12	-372.45	-393.92
1191	4524	-14 43 26 0	-71 22 41 0	3962.80	-1155.24	-262.53	-297.02	-330.20	-365.38	-375.70	-396.55
1192	4525	-14 44 6 0	-71 22 32 0	3992.70	-1163.51	-265.95	-299.41	-332.96	-365.31	-378.09	-399.76
1193	4526	-14 41 12 0	-71 22 4 0	4020.90	-1169.12	-269.91	-301.47	-335.04	-369.83	-381.38	-403.69
1194	4527	-14 44 2 0	-71 21 51 0	4067.20	-1183.16	-269.49	-302.86	-336.72	-370.77	-382.49	-404.83
1195	4528	-14 43 41 0	-71 22 15 0	4026.50	-1173.38	-268.54	-302.24	-335.97	-369.59	-381.48	-403.35
1196	4529	-14 44 39 0	-71 22 57 0	3983.50	-1161.66	-265.22	-299.57	-332.95	-366.31	-378.01	-399.78
1197	4530	-14 44 31 0	-71 22 19 0	4055.50	-1158.53	-264.35	-299.39	-335.64	-368.72	-380.38	-401.92
1198	4531	-14 41 46 0	-71 24 9 0	4008.90	-1151.97	-250.35	-283.95	-317.58	-351.01	-362.75	-384.55
1199	4532	-14 41 9 0	-71 24 31 0	3934.70	-1136.05	-249.22	-282.17	-315.11	-348.05	-359.58	-381.07
1200	4533	-14 49 49 0	-71 24 41 0	3868.50	-1117.12	-247.55	-279.94	-312.27	-344.65	-355.95	-377.09

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 193

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 10 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
1201	4434	-14 52 55 0	-71 23 44 0	3919.10	-1132.17	-250.35	-283.55	-316.36	-349.16	-359.65	-381.96
1202	4435	-14 49 50 0	-71 23 7 0	3963.05	-1141.80	-255.30	-288.00	-321.10	-354.11	-365.66	-387.12
1203	4436	-14 41 21 0	-71 23 7 0	4040.40	-1175.71	-257.12	-291.85	-325.99	-360.12	-372.07	-394.26
1204	4437	-14 41 40 0	-71 23 5 0	4041.50	-1175.51	-257.44	-291.03	-325.97	-360.14	-372.19	-394.31
1205	4438	-14 41 45 0	-71 23 35 0	3972.20	-1145.81	-255.41	-288.97	-322.33	-355.39	-367.04	-389.66
1206	4439	-14 41 14 0	-71 23 35 0	4006.40	-1152.65	-251.57	-285.11	-318.66	-352.21	-363.95	-385.76
1207	4440	-14 42 15 0	-71 22 52 0	4071.60	-1175.06	-259.41	-293.50	-327.58	-361.67	-373.47	-395.76
1208	4441	-14 41 41 0	-71 22 29 0	4123.60	-1189.05	-262.34	-296.86	-331.34	-365.84	-377.92	-400.35
1209	4442	-14 41 3 0	-71 22 26 0	4095.40	-1162.25	-261.62	-295.14	-328.69	-362.22	-373.96	-395.76
1210	4443	-14 41 5 0	-71 22 4 0	4019.70	-1147.22	-263.13	-296.77	-330.41	-364.05	-375.82	-397.69
1211	4444	-14 41 5 0	-71 21 53 0	4014.40	-1176.05	-266.97	-300.60	-335.41	-369.26	-380.98	-402.94
1212	4445	-14 41 43 0	-71 21 55 0	4115.60	-1194.58	-264.61	-300.49	-334.95	-369.42	-381.44	-403.44
1213	4446	-14 41 44 0	-71 21 32 0	4160.30	-1201.72	-268.21	-302.87	-337.54	-372.21	-384.34	-406.07
1214	4447	-14 42 24 0	-71 23 44 0	4079.90	-1179.07	-271.64	-305.71	-339.82	-372.41	-384.14	-406.09
1215	4448	-14 42 31 0	-71 21 24 0	3975.90	-1165.15	-271.25	-304.31	-337.60	-370.88	-382.52	-404.15
1216	4449	-14 42 28 0	-71 21 51 0	3957.50	-1155.94	-267.01	-300.12	-333.21	-366.35	-377.93	-399.45
1217	4450	-14 42 30 0	-71 22 32 0	3933.50	-1143.43	-263.34	-296.50	-329.31	-362.15	-373.70	-395.43
1218	4451	-14 42 57 0	-71 22 23 0	4042.10	-1172.99	-263.97	-297.84	-331.69	-365.54	-377.39	-399.51
1219	4452	-14 43 3 0	-71 21 24 0	4015.20	-1172.53	-269.92	-303.57	-337.22	-370.87	-382.65	-404.71
1220	4453	-14 43 15 0	-71 21 21 0	3995.10	-1169.41	-270.27	-303.75	-337.23	-370.73	-382.42	-404.10
1221	4454	-14 43 31 0	-71 20 52 0	4015.00	-1175.71	-272.52	-306.24	-339.88	-373.53	-385.32	-407.11
1222	4455	-14 43 2 0	-71 20 49 0	4004.40	-1174.59	-273.41	-307.00	-340.59	-374.19	-385.96	-407.77
1223	4456	-14 42 15 0	-71 20 17 0	4035.20	-1183.00	-275.55	-309.36	-343.13	-376.91	-388.74	-410.57
1224	4457	-14 42 59 0	-71 19 49 0	4127.90	-1205.42	-276.63	-311.16	-345.67	-380.21	-392.30	-414.74
1225	4458	-14 43 21 0	-71 19 52 0	4065.60	-1199.57	-276.74	-310.76	-345.00	-378.85	-390.77	-412.93
1226	3431	-14 44 45 0	-71 21 16 0	4010.85	-1175.45	-273.39	-306.95	-340.41	-373.97	-385.71	-407.53
1227	4459	-14 50 13 0	-71 19 53 0	3992.90	-1177.92	-281.72	-315.14	-349.55	-381.95	-393.69	-415.31
1228	4461	-14 49 18 0	-71 21 8 0	3968.00	-1164.72	-272.32	-305.53	-338.75	-371.96	-383.58	-405.17
1229	4462	-14 49 24 0	-71 21 51 0	3919.70	-1152.06	-265.85	-298.91	-331.76	-364.72	-376.26	-397.69
1230	3701	-14 59 18 0	-71 9 4 0	4026.50	-1182.55	-275.95	-309.66	-343.37	-377.07	-388.87	-410.70
1231	3702	-14 59 54 0	-71 9 55 0	4037.20	-1195.53	-276.95	-310.75	-344.55	-378.36	-390.18	-412.16
1232	3703	-14 59 3 0	-71 8 33 0	4037.90	-1144.00	-277.24	-310.95	-344.67	-378.39	-390.19	-412.10
1233	3704	-14 59 27 0	-71 8 2 0	4265.20	-1165.62	-277.25	-310.91	-344.78	-378.65	-390.50	-412.51
1234	3705	-14 59 33 0	-71 7 24 0	4055.70	-1191.03	-279.03	-312.99	-345.95	-380.91	-392.79	-414.87
1235	3706	-14 59 17 0	-71 6 41 0	4063.40	-1193.59	-279.43	-313.45	-347.88	-381.91	-393.82	-415.95
1236	3707	-14 59 33 0	-71 6 3 0	4017.50	-1194.76	-279.93	-313.93	-349.11	-382.26	-394.21	-416.55
1237	3708	-14 59 55 0	-71 2 55 0	4037.00	-1197.34	-279.09	-312.93	-346.77	-380.51	-392.37	-414.35
1238	3709	-14 58 47 0	-71 6 23 0	4144.10	-1197.70	-281.11	-314.95	-349.70	-382.61	-394.55	-416.55
1239	3710	-14 58 42 0	-71 6 31 0	4042.50	-1191.58	-282.51	-316.35	-350.20	-384.04	-395.89	-417.93
1240	3711	-14 58 44 0	-71 5 55 0	4042.50	-1196.42	-282.91	-316.93	-350.94	-384.96	-396.87	-418.98
1241	3712	-14 58 58 0	-71 5 9 0	4027.60	-1203.63	-284.53	-318.73	-352.85	-386.94	-399.08	-421.05
1242	3713	-14 58 50 0	-71 4 27 0	4079.20	-1209.77	-283.37	-317.51	-351.68	-385.81	-397.76	-419.96
1243	3714	-14 59 28 0	-71 3 54 0	4081.20	-1200.41	-283.15	-317.31	-351.49	-385.64	-397.60	-419.81
1244	3715	-14 58 3 0	-71 1 17 0	4101.20	-1202.49	-280.05	-314.37	-349.70	-383.03	-395.04	-417.34
1245	3716	-14 58 25 0	-71 1 51 0	4184.60	-1219.64	-277.47	-312.51	-347.55	-382.56	-394.81	-417.58
1246	3717	-14 55 37 0	-71 14 33 0	4002.30	-1143.71	-262.18	-295.73	-329.24	-362.74	-374.52	-396.32
1247	3718	-14 55 36 0	-71 14 37 0	4022.10	-1165.78	-262.19	-295.95	-329.51	-363.12	-374.95	-396.83
1248	3719	-14 56 27 0	-71 6 23 0	4093.60	-1203.63	-283.23	-317.51	-351.80	-386.09	-398.09	-420.38
1249	3720	-14 56 26 0	-71 6 57 0	4079.50	-1202.97	-287.93	-318.10	-351.26	-385.43	-397.38	-419.57
1250	3721	-14 56 55 0	-71 6 19 0	4087.10	-1200.49	-283.07	-317.24	-351.41	-385.59	-397.53	-419.75

5521

BOUGUER ANOMALIES FOR SIX DENSITIES MESCO 194

THE GRAVIMETRIC SURVEY OF YAURI AREA IN PERU 1972 10 - 11

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.V.-S.V.	2.00	2.20	2.40	2.60	2.67	2.80
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
1251	3722	-14 57 19 0	-71 1 31 0	4155.20	-1207.81	-272.94	-307.58	-342.42	-377.13	-389.31	-411.47
1252	3723	-14 56 15 0	-71 1 29 0	4157.50	-1207.72	-271.47	-306.65	-341.42	-376.19	-388.76	-410.96
1253	3724	-14 55 49 0	-71 1 35 0	4219.50	-1214.04	-269.40	-304.55	-339.61	-374.06	-386.40	-409.12
1254	3725	-14 55 9 0	-71 1 59 0	4221.20	-1215.56	-265.94	-301.24	-336.55	-371.96	-384.21	-407.16
1255	3726	-14 56 14 0	-71 2 22 0	4215.40	-1213.35	-265.45	-300.71	-335.97	-371.23	-383.57	-406.49
1256	3727	-14 53 42 0	-71 5 9 0	4169.30	-1207.30	-269.75	-304.65	-339.56	-374.45	-386.57	-409.36
1257	3728	-14 53 29 0	-71 6 9 0	4105.00	-1196.64	-272.93	-307.30	-341.62	-375.93	-387.94	-410.25
1258	3729	-14 52 49 0	-71 6 24 0	4093.60	-1194.62	-276.54	-310.59	-345.15	-378.99	-390.94	-413.53
1259	3730	-14 52 44 0	-71 5 1 0	4098.10	-1192.45	-272.76	-306.95	-341.14	-375.33	-387.30	-409.52
1260	3731	-14 52 42 0	-71 7 51 0	4035.40	-1186.24	-278.75	-312.55	-346.35	-380.14	-391.97	-413.94
1261	3732	-14 52 36 0	-71 5 45 0	4094.70	-1197.71	-278.97	-312.71	-346.93	-381.16	-393.13	-415.38
1262	3733	-14 51 33 0	-71 8 17 0	4017.90	-1181.11	-274.52	-308.29	-342.05	-375.82	-387.64	-409.59
1263	3734	-14 51 29 0	-71 10 3 0	3996.80	-1177.02	-274.96	-309.36	-342.82	-376.19	-387.87	-409.57
1264	3735	-14 56 25 0	-71 14 33 0	4054.50	-1172.24	-260.24	-294.15	-328.08	-362.03	-373.88	-395.92
1265	3736	-14 57 17 0	-71 14 27 0	4065.40	-1175.93	-261.65	-295.47	-329.47	-363.52	-375.43	-397.54
1266	3737	-14 58 6 0	-71 14 31 0	4091.40	-1181.45	-261.52	-295.75	-329.98	-364.20	-376.18	-398.45
1267	3738	-14 59 18 0	-71 14 12 0	4211.40	-1215.72	-254.59	-290.19	-325.88	-361.57	-374.07	-397.27
1268	3739	-14 59 58 0	-71 13 24 0	4165.60	-1191.53	-259.63	-293.28	-327.95	-362.62	-374.76	-397.30
1269	3740	-14 57 55 0	-71 13 25 0	4060.40	-1176.18	-260.91	-295.02	-329.07	-363.11	-375.03	-397.15
1270	3741	-14 56 56 0	-71 13 43 0	4002.80	-1161.00	-259.43	-292.95	-326.50	-360.05	-371.79	-393.59
1271	3742	-14 54 33 0	-71 15 26 0	4014.90	-1169.21	-261.25	-294.85	-328.45	-362.05	-373.81	-395.65
1272	3743	-14 53 32 0	-71 13 25 0	3974.60	-1172.54	-274.52	-308.97	-341.62	-374.64	-386.59	-408.33
1273	3744	-14 52 29 0	-71 12 11 0	3966.30	-1159.18	-265.39	-299.59	-332.82	-366.04	-377.68	-399.28
1274	3745	-14 52 22 0	-71 12 47 0	3966.90	-1161.43	-269.31	-302.52	-335.72	-369.43	-380.55	-402.53
1275	3746	-14 52 11 0	-71 11 1 0	3975.10	-1165.61	-270.91	-304.13	-337.45	-370.68	-382.35	-403.98
1276	3747	-14 51 50 0	-71 10 43 0	3989.90	-1166.69	-271.57	-304.91	-339.25	-371.59	-383.26	-404.93
1277	2219	-14 52 1 0	-71 22 35 0	3955.40	-1133.13	-249.47	-282.61	-315.12	-348.87	-360.44	-381.88
1278	2220	-14 52 44 0	-71 22 23 0	4015.40	-1150.45	-249.64	-283.18	-316.67	-350.17	-361.92	-383.67
1279	2221	-14 53 15 0	-71 22 7 0	4073.00	-1162.36	-245.52	-279.53	-313.54	-347.55	-359.45	-381.56
1280	2222	-14 53 10 0	-71 21 14 0	4143.70	-1186.51	-243.57	-278.56	-313.56	-348.56	-360.81	-383.50
1281	2223	-14 52 34 0	-71 21 31 0	4160.90	-1177.75	-242.59	-277.77	-312.95	-347.21	-359.87	-382.57
1282	2224	-14 53 41 0	-71 21 51 0	4095.90	-1169.73	-249.04	-282.30	-316.55	-350.80	-362.79	-385.06
1283	2225	-14 54 17 0	-71 22 15 0	4031.40	-1153.98	-253.17	-286.92	-320.64	-354.17	-365.18	-388.10
1284	2226	-14 54 14 0	-71 21 45 0	4037.70	-1162.33	-253.81	-287.54	-321.33	-355.08	-366.89	-388.44
1285	2227	-14 55 13 0	-71 21 12 0	4008.00	-1159.82	-253.24	-288.17	-322.30	-355.83	-367.55	-389.35
1286	2228	-14 55 21 0	-71 21 46 0	4017.10	-1169.25	-257.69	-291.29	-324.82	-358.43	-370.14	-391.99
1287	2229	-14 55 27 0	-71 21 17 0	4130.30	-1158.94	-254.55	-291.35	-325.21	-358.81	-370.20	-391.99
1288	2230	-14 56 21 0	-71 23 31 0	4335.90	-1238.20	-249.08	-284.64	-321.27	-357.93	-370.77	-394.51
1289	2231	-14 56 55 0	-71 23 59 0	4359.60	-1227.72	-251.83	-288.28	-324.35	-360.39	-373.28	-396.85
1290	2232	-14 57 35 0	-71 23 41 0	4335.10	-1227.46	-253.43	-289.38	-325.33	-361.20	-373.87	-397.26
1291	2233	-14 56 21 0	-71 23 21 0	4280.90	-1135.44	-255.41	-293.09	-326.78	-359.66	-371.33	-392.94
1292	2234	-14 55 19 0	-71 23 47 0	4035.60	-1157.76	-256.71	-290.15	-323.55	-356.95	-368.64	-390.45
1293	2235	-14 55 16 0	-71 24 22 0	4257.10	-1205.99	-249.22	-284.74	-319.27	-354.85	-367.23	-390.92
1294	2236	-14 54 41 0	-71 24 43 0	4321.80	-1229.30	-250.78	-286.34	-322.50	-358.55	-371.20	-394.52
1295	2237	-14 54 51 0	-71 25 19 0	4322.90	-1229.25	-252.61	-288.77	-324.88	-360.91	-373.56	-396.99
1296	2238	-14 54 41 0	-71 25 55 0	4397.60	-1244.57	-254.71	-291.27	-327.82	-364.37	-377.18	-400.93
1297	2239	-14 57 11 0	-71 26 8 0	4527.90	-1276.62	-255.68	-291.35	-327.24	-368.72	-379.41	-404.59
1298	2240	-14 59 16 0	-71 25 42 0	4445.00	-1257.11	-256.45	-293.53	-331.64	-367.76	-380.79	-404.95
1299	2241	-14 58 55 0	-71 26 41 0	4372.90	-1245.62	-255.31	-291.76	-328.24	-365.12	-377.92	-401.70
1300	2242	-14 58 7 0	-71 26 41 0	4336.70	-1235.20	-255.41	-291.81	-328.05	-364.26	-376.93	-400.85

BOUGUER ANOMALIES FOR SIX DENSITIES [illegible] 192

THE GRAVIMETRIC SURVEY OF [illegible] AREA IN PERU 1972 10 - 31

STATION-NO.		LATITUDE	LONGITUDE	ALTITUDE	G.P.-S.V.	2.00	2.20	2.40	2.60	2.67	2.83
NO.		DEG MIN SEC.	DEG MIN SEC.	METER	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL	MGAL
1301	2243	-15 33 51 0	-71 24 25 0	3956.10	-1149.23	-237.97	-290.95	-323.95	-356.91	-359.65	-389.99
1302	2301	-15 57 27 0	-71 16 41 0	4342.70	-1234.11	-251.41	-297.97	-324.13	-360.41	-379.42	-397.05
1303	2302	-15 56 42 0	-71 16 11 0	4291.92	-1212.12	-237.91	-272.83	-328.20	-362.72	-376.12	-399.15
1304	2303	-15 57 28 0	-71 17 10 0	4324.70	-1225.37	-259.41	-288.59	-327.49	-357.41	-371.10	-394.90
1305	2304	-15 57 27 0	-71 19 57 0	4291.90	-1221.15	-255.33	-289.22	-324.93	-362.51	-373.00	-396.20
1306	2305	-15 57 50 0	-71 11 7 0	4167.60	-1199.95	-254.97	-279.50	-320.30	-353.09	-375.23	-393.70
1307	3921	-15 52 56 0	-71 3 9 25	5211.10	-1211.16	-262.41	-292.90	-333.20	-369.51	-380.05	-401.70
1308	3922	-15 52 10 0	-71 2 47 25	4315.50	-1237.76	-255.11	-297.56	-320.05	-365.12	-377.02	-401.45
1309	3923	-15 52 2 0	-71 2 55 25	5332.20	-1252.35	-251.32	-288.58	-325.16	-361.83	-379.49	-393.54
1310	3924	-15 51 32 0	-71 0 17 25	4597.10	-1261.17	-246.16	-283.75	-321.33	-358.92	-372.05	-396.51
1311	3925	-15 50 58 0	-71 0 57 25	5585.10	-1275.06	-241.55	-279.12	-319.52	-338.51	-369.01	-395.30
1312	603	-15 47 20 0	-71 24 34 0	3934.52	-1162.63	-261.99	-294.79	-327.59	-369.39	-371.87	-393.10