PILOT HOLE WELL DRILLING LOG

PROJECT:	Earth Tech Exploratory Well and Development	**WELL NO:**	ETF-3
LOCATION:	LOT NO. 10125-11-R1, S. Finegayan Dededo, Guam	**DATE:**	Sept. 22, 1998
COORDINATES:	N 191.419.00 E 195.705.00		

Ground Elevation :	390.3 feet	Drilling Rig :	CP 650 Rig	Date Start:	9/09/98
Total Depth :	465 feet	Drilling Bit :	Tricone	Date Finish:	9/13/98
Borehole Diamater :	12 in dia.	Foam :	Baroid Quik Foam		

Depth Feet	Penetration Rate Start	Penetration Rate Stop	Time min	Log	Material Description/Remarks	ELEV
0-5	3:00	3:10	10		Light brown white coralline limestone, moderately hard to hard	
5-10	3:10	3:17	7			
10-15	3:17	3:22	5			
15-20	3:22	3:27	5			
20-25	3:30	3:35	5			
25-30	3:35	3:41	6			
30-35	3:41	3:47	6			
35-40	3:47	3:51	4			
40-45	3:51	4:07	16			
45-50	4:07	4:19	12			
50-55	10:04	10:21	7		Resumed drilling, 9/10/98	
55-60	10:21	10:29	8			
60-65	10:29	10:37	8			
65-70	10:40	10:50	10			
70-75	10:50	11:03	13			
75-80	11:03	11:11	8			
80-85	11:11	11:23	12			
85-90	11:23	11:30	7			
90-95	11:30	11:42	12			
95-100	11:45	11:54	9			
100-105	11:54	12:01	7			
105-110	12:01	12:09	8			
110-115	12:09	12:16	7			
115-120	1:00	1:09	9			
120-125	1:09	1:16	7			
125-130	1:16	1:21	5			
130-135	1:21	1:27	6			
135-140	1:27	1:33	6			
140-145	1:33	1:41	8			
145-150	1:45	1:52	7			
150-155	1:52	1:58	6			
155-160	1:58	2:04	6			
160-165	2:04	2:09	5			

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Depth Feet	Penetration Rate Start	Penetration Rate Stop	Time min	Log	Material Description/Remarks
165-170	2:15 AM	2:22	7		
170-175	2;22	2:29	7		
175-180	2;29	2:33	4		
180-185	2:33	2:39	6		
185-190	2:39	2:46	7		
190-195	3:00	3:13	13		
195-200	3;13	3:19	6		
200-205	3:19	3:25	6		
205-210	3:25	3:35	10		
210-215	3:35	3:45	10		
215-220	11:10	11:22	12		Resumed drilling, 9/11/98
220-225	11:22	11:31	9		
225-230	11:31	11:38	7		
230-235	11:38	11:43	5		
235-240	1:55	2:01	6		
240-245	2:01	2:09	8		
245-250	2:09	2:17	8		
250-255	10:00	10:07	7		Resumed drilling, 9/12/98
255-260	10:07	10:14	7		
260-265	10:14	10:21	7		
265-270	10:21	10:28	7		
270-275	10:28	10:37	9		
275-280	10:40	10:47	7		
280-285	10:47	10:54	7		
285-290	10:54	11:02	8		
290-295	11:02	11:09	7		
295-300	11:09	11:16	7		
300-305	11:30	11:36	6		
305-310	11:36	11:43	7		
310-315	11:43	11:51	8		
315-320	11:51	11:59	8		
320-325	3:09	3:17	8		
325-330	3:17	3:34	7		
330-335	3:34	3:41	7		
335-340	3:41	3:50	9		
340-345	3:50	3:58	8		
345-350	4:15	4:22	7		
350-355	4:22	4:30	8		
355-360	4:30	4:38	8		

WELL DRILLING LOG CONTINUED

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Depth Feet	Penetration Rate Start	Penetration Rate Stop	Time min	Log	Material Description/Remarks
360-365	4:38	4:49	11		
365-370	4:49	4:59	10		
370-375	10:59	11:10	11		Resumed drilling, 9/13/98
375-380	11:10	11:17	7		
380-385	11:17	11:25	8		
385-390	11:25	11:32	7		
390-395	11:32	11:39	7		
395-400	11:39	11:45	6		
400-405	11:45	11:55	10		
405-410	2:01	2:09	8		
410-415	2:09	2:18	9		
415-420	2:18	2:27	9		
420-425	2:27	2:37	10		
425-430	2:37	2:48	11		
430-435	2:55	3:05	10		
435-440	3:05	3:17	12		
440-445	3:17	3:35	18		
445-450	3:35	3:52	17		
450-455	3:52	4:10	18		
455-460	4:20	4:39	19		
460-465	4:39	5:00	21		Bottom of hole at 465 feet