

# MARIANAS DRILLING, INC.

Water Well & Environmental Drilling Services

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## LETTER OF TRANSMITTAL

To WELI  
G/O Karl / Marleen

Date <u>2/2/99</u>	Job No.

GENTLEMEN:

WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items.

COPIES	DATE	NO.	DESCRIPTION
<u>1</u>	<u>2/2/99</u>		<u>Soil Samples for STD-4 and Well Poring Log</u>

THESE ARE TRANSMITTED as checked below:

- |                                                  |                                                   |                                                               |
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| <input type="checkbox"/> For approval            | <input type="checkbox"/> Approved as submitted    | <input type="checkbox"/> Resubmit _____ copies for approval   |
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*If enclosures are not as noted kindly notify us at once.*

# PILOT HOLE WELL DRILLING LOG

<b>PROJECT:</b> Earth Tech Exploratory Well and Development		<b>WELL NO:</b> ETD-4
<b>LOCATION:</b> Stampa Rd., Dededo, Guam		<b>DATE:</b> 29 Jan. 1999
<b>COORDINATES:</b> Unknown		
<b>Ground Elevation :</b> 413 feet	<b>Drilling Rig :</b> CP 650	<b>Date Start:</b> 1/21/99
<b>Total Depth :</b> 465 feet	<b>Drilling Bit :</b> Tricone	<b>Date Finish:</b> 1/27/99
<b>Borehole Diameter :</b> 12 in dia.	<b>Foam :</b> Baroid Quik Foam	

Depth Feet	Penetration Rate		Time min	Log	Material Description/Remarks	ELEV
	Start	Stop				
0-5	5:00	5:04	4		Light brown-white coralline limestone moderate hard to very hard	
5-10	5:04	5:08	4			
10-15	5:08	5:16	8			
15-20	5:16	11:27	9			
20-25	5:37	5:47	10		Resumed drilling, 1/22/99	
25-30	10:07	10:11	4			
30-35	10:11	10:17	6			
35-40	10:17	10:23	6			
40-45	10:23	10:29	6			
45-50	10:35	10:41	6			
50-55	10:41	10:46	5			
55-60	10:46	10:51	5			
60-65	10:51	11:02	9			
65-70	11:07	11:18	11			
70-75	11:18	11:35	17		Resumed drilling, 1/23/99	
75-80	11:35	11:45	10			
80-85	11:45	12:00	15			
85-90	2:30	2:45	15			
90-95	2:45	3:03	18			
95-100	3:03	3:20	17			
100-105	3:20	3:36	16			
105-110	3:44	4:08	24			
110-115	8:30	8:45	15			
115-120	8:45	9:07	22			
120-125	9:07	9:16	9			
125-130	9:30	9:42	12			
130-135	9:42	9:49	7			
135-140	9:49	9:56	7			
140-145	9:56	10:06	10			
145-150	10:13	10:26	13			
150-155	10:26	10:42	16			
155-160	10:42	10:50	8			
160-165	10:50	11:05	15			

WELL NO: ETD-4

PROJECT: Earth Tech Exploratory Well and Development

LOCATION: Stampa Rd., Dededo, Guam

Material Description/Remarks

Depth Feet	Penetration Rate		Time min	Log
	Start	Stop		
165-170	11:13	11:28	15	
170-175	11:28	11:43	15	
175-180	11:43	11:56	13	
180-185	11:56	12:10	14	
185-190	12:15	12:30	15	
190-195	12:30	12:50	20	
195-200	3:00	3:16	16	
200-205	3:16	3:39	23	
205-210	9:45	9:52	7	
210-215	9:52	10:00	8	
215-220	10:00	10:10	10	
220-225	10:10	10:22	12	
225-230	10:30	10:35	5	
230-235	10:35	10:45	10	
235-240	10:45	10:55	10	
240-245	1:50	2:00	10	
245-250	2:15	2:23	8	
250-255	2:23	2:30	7	
255-260	2:30	2:40	10	
260-265	2:40	2:52	12	
265-270	3:42	3:48	6	
270-275	3:48	4:00	12	
275-280	4:00	4:06	6	
280-285	4:06	4:15	9	
285-290	4:26	4:34	8	
290-295	4:34	4:43	9	
295-300	4:43	4:50	7	
300-305	4:50	5:05	15	
305-310	9:00	9:04	4	
310-315	9:04	9:10	6	
315-320	9:10	9:15	5	
320-325	9:15	9:25	10	
325-330	9:37	9:45	8	
330-335	9:45	9:52	7	
335-340	9:52	10:00	8	
340-345	10:00	10:10	10	
345-350	10:23	10:30	7	
350-355	10:30	10:36	6	
355-360	10:36	10:45	9	

Ran out of drilling water  
Resumed drilling, 1/25/99

Resumed drilling, 1/26/99

