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June 14, 1993

Carolyn Kwan
Project Officer, Eastern
Emergency & Remedial Response Division
U.S. Environmental Protection Agency
Region II, 26 Federal Plaza
New York, New York 10278

Re: Tutu Well Contamination Litigation

Dear Ms. Kwan:

As a follow up to my June 9, 1993 letter, enclosed are the Monitoring Well Construction Diagrams dated July 18, 1990 and Boring Logs kept by Geo Cim, Inc. Also attached are handwritten notes dated August 1, 1990 regarding Tutu soil samples.

Please feel free to contact me should you wish to discuss any aspect of this matter.

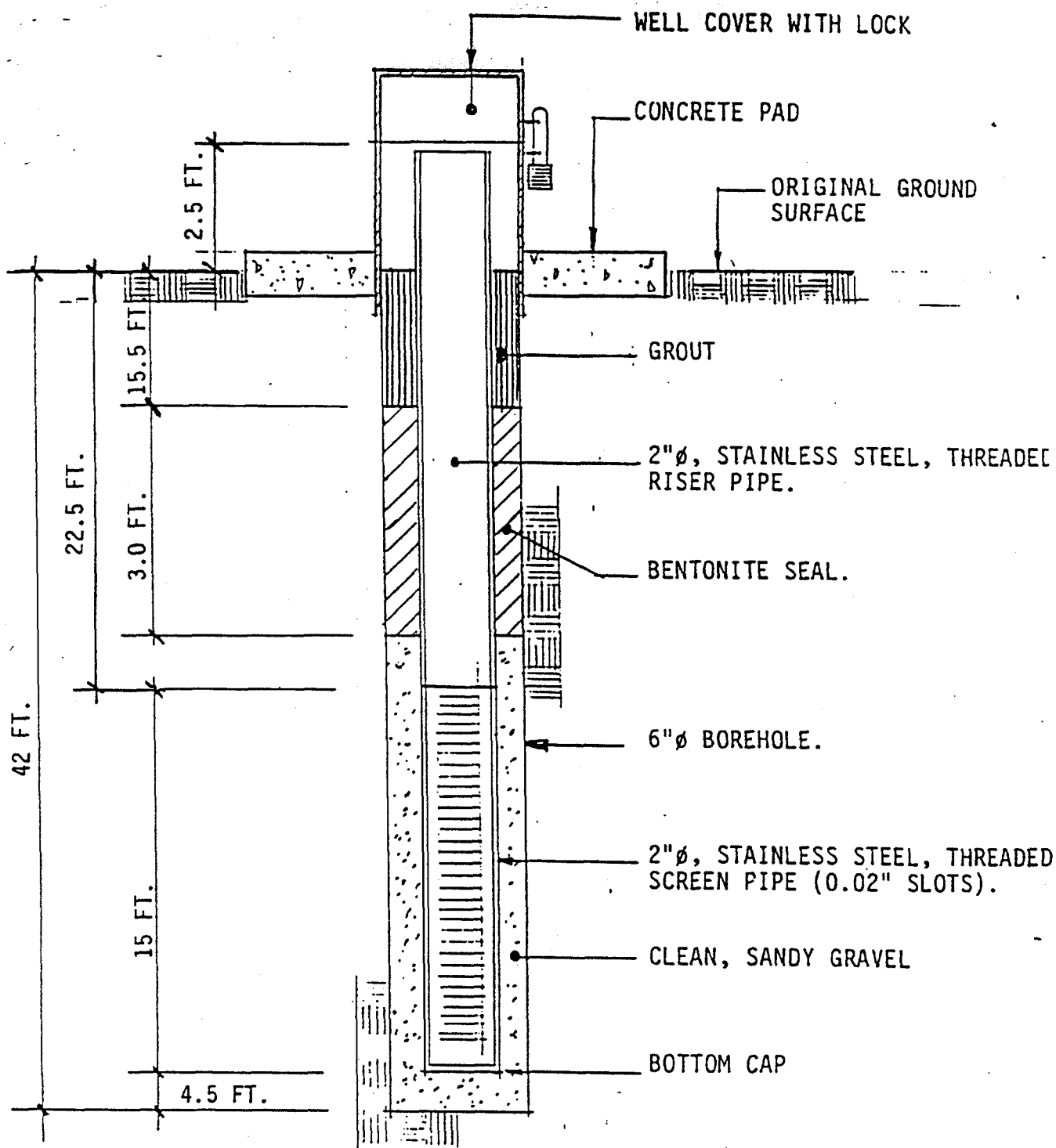
Sincerely,


Nancy D'Anna, Esq.

ND/sr
Encl.

Monitoring Well Construction Diagrams

L 0001418



MONITORING WELL INSTALLATION RECORD
MONITORING WELL MW-1

TUT 007 1083

L 0001419

LUIS O. GARCIA & ASSOCIATES
GEO CIM, INC.

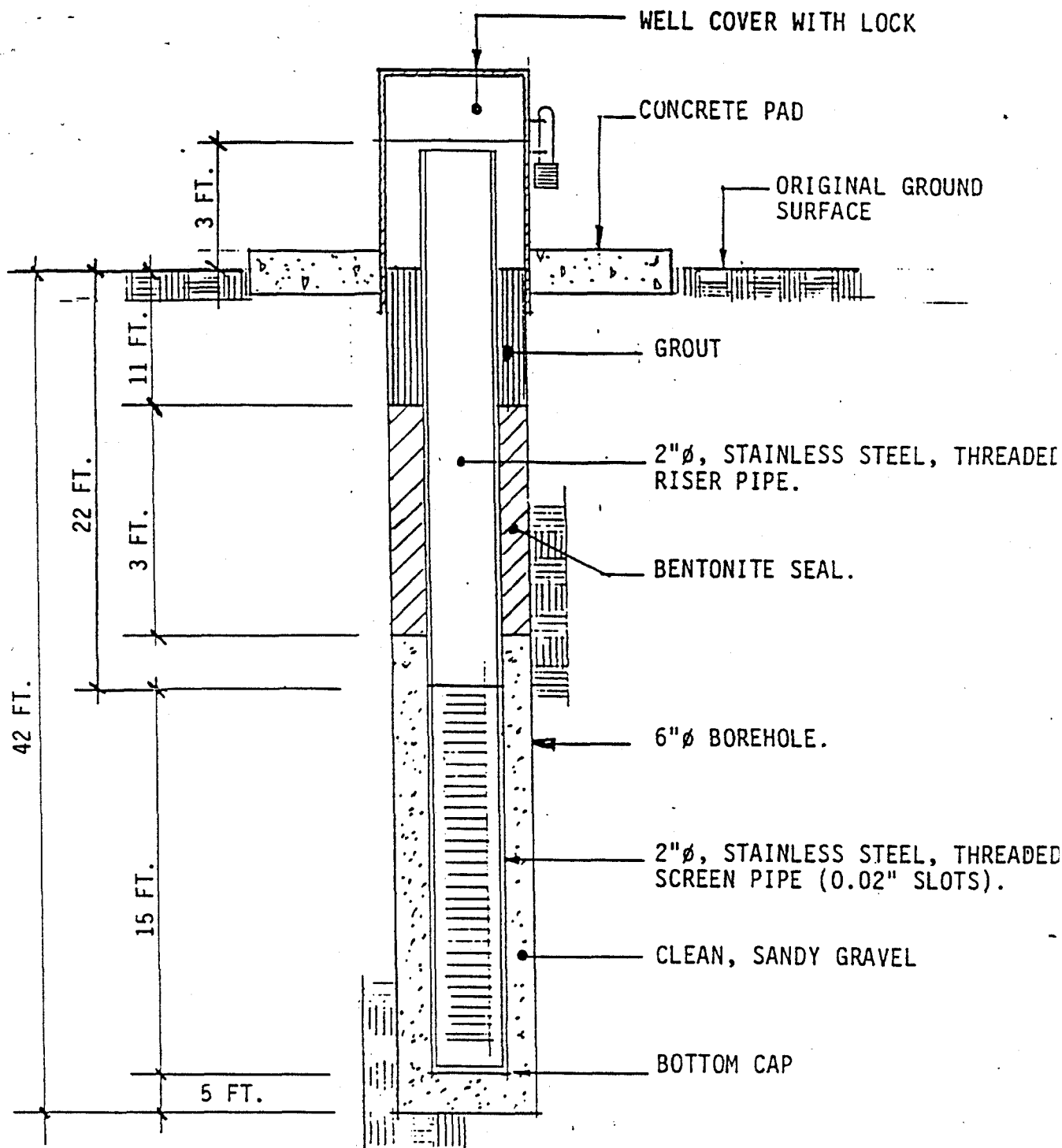
GEOTECHNICAL ENGINEERING CONSULTANTS
P. O. BOX 447 - HATO REY, P.R. 00919

PROJECT OHENRY LAUNDRY-TUTU WELL SITE
ST. THOMAS, U.S.V.I.

JOB NO. 990-90 SHEET NO. 1 OF 1

CALCULATED BY E.G. DATE 7/18/90

CHECKED BY C.G.E. DATE 7/18/90 SCALE NTS



MONITORING WELL INSTALLATION RECORD
MONITORING WELL MW-2

L 0001420

TUT 007 1084

LUIS O. GARCIA & ASSOCIATES
GEO CIM, INC.

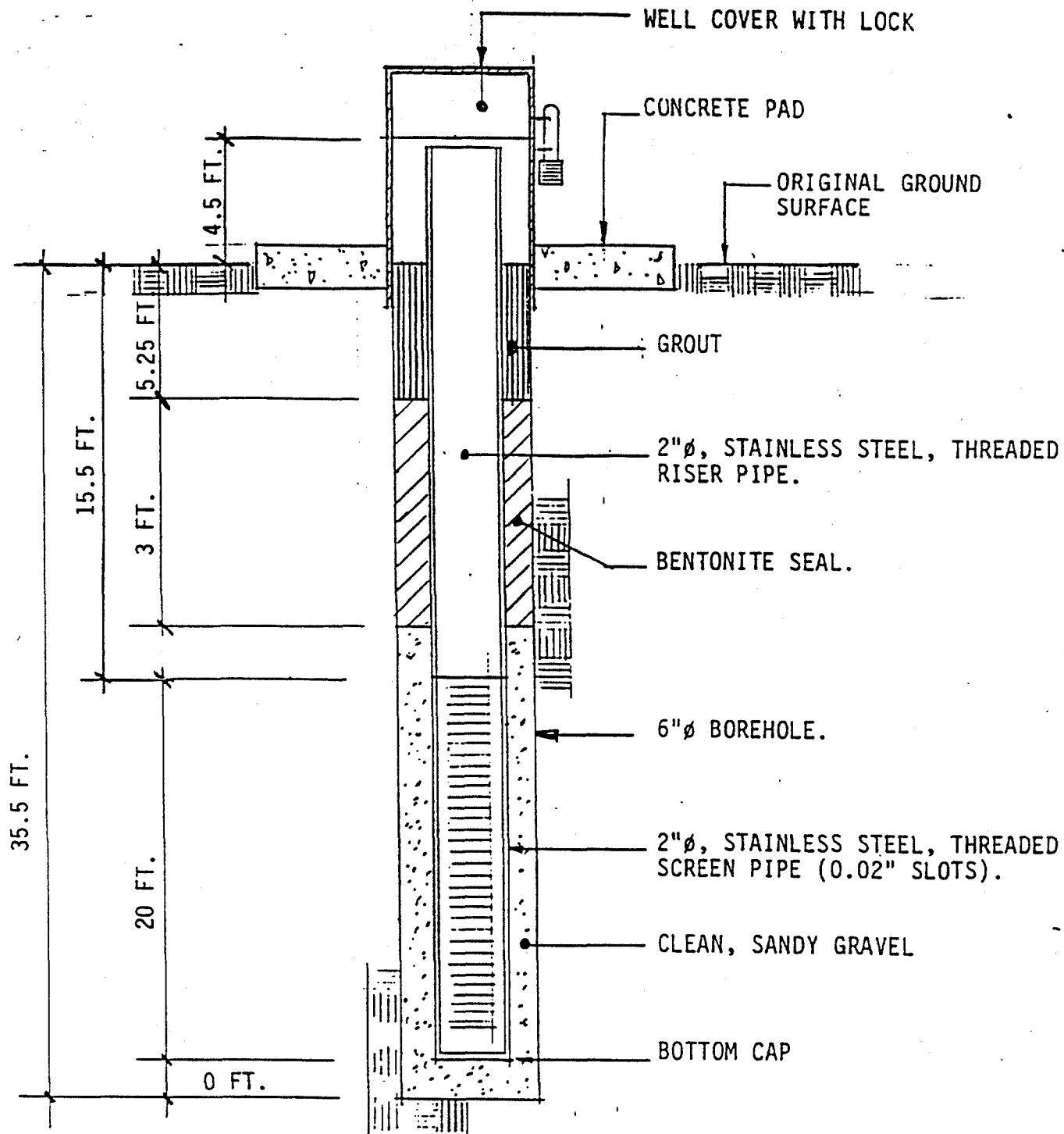
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PROJECT OHENRY LAUNDRY-TUTU WELL SITE
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JOB NO. 990-90 SHEET NO. 1 OF 1

CALCULATED BY E.G. DATE 7/18/90

CHECKED BY C.G.E. DATE 7/18/90 SCALE NTS



MONITORING WELL INSTALLATION RECORD
MONITORING WELL MW-3

TUT 007 1085

L 0001421

LUIS O. GARCIA & ASSOCIATES
GEO CIM, INC.

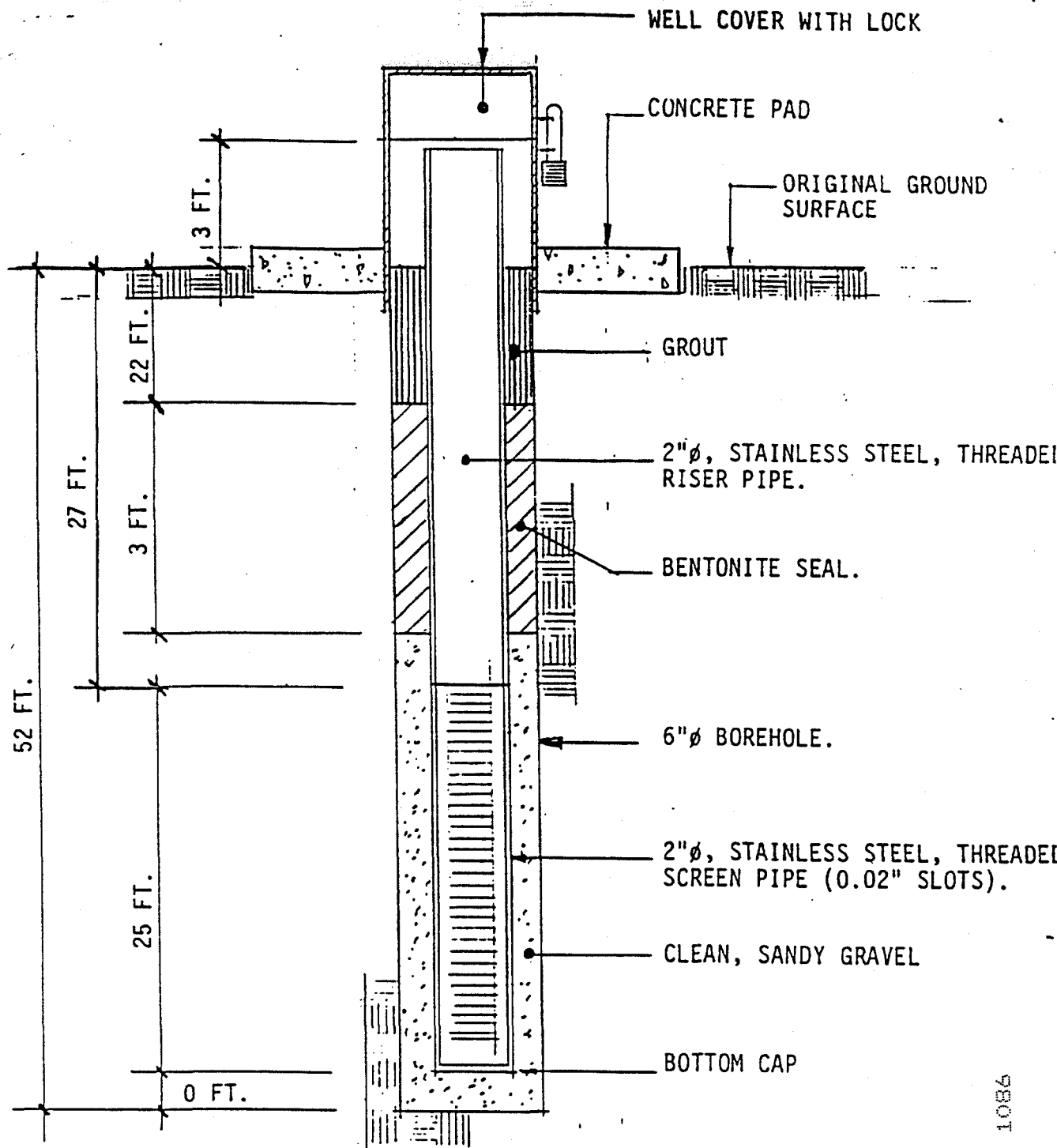
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PROJECT OHENRY LAUNDRY-TUTU WELL SITE
ST. THOMAS, U.S.V.I.

JOB NO. 990-90 SHEET NO. 1 OF 1

CALCULATED BY E.G. DATE 7/18/90

CHECKED BY C.G.E. DATE 7/18/90 SCALE NTS



MONITORING WELL INSTALLATION RECORD
MONITORING WELL MW-4

TUT 007 1086

L 0001422

LUIS O. GARCIA & ASSOCIATES
GEO CIM, INC.

GEOTECHNICAL ENGINEERING CONSULTANTS
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PROJECT OHENRY LAUNDRY-TUTU WELL SITE
ST. THOMAS, U.S.V.I.

JOB NO. 990-90 SHEET NO. 1 OF 1

CALCULATED BY E.G. DATE 7/18/90

CHECKED BY C.G.E. DATE 7/18/90 SCALE NT

Boring Logs

TUT 007 1087

L0001423

P.O. BOX 447 HATO REY, P.R. 00919.
TELE (809) 753-1525 / 753-3831

GEO CIM, INC.

GEOTECNIA Y CIMENTOS

BORING LOG No. _____

REGISTRO DE BARRENO

PROF. (F)	MUESTRA NO.	Resistencia a Penetración del Suelo (kg/cm²)	N	DESCRIPCION DEL MATERIAL: COMENTARIOS SOBRE EL BARRENO (1) PENETROMETRO	PROF. (F)	MUESTRA NO.	Resistencia a Penetración del Suelo (kg/cm²)	N	DESCRIPCION DEL MATERIAL: COMENTARIOS SOBRE EL BARRENO (1) PENETROMETRO
15'	1	8	16	DRY. clay silt rock	25				
		8		Frágil	26				
					27				
		3		br. silt/clay	28				
3'	2	4	7		29				
		3			30				
					31				
16'	3	2	10	DRY. silt/clay	32				
		2		clay silt	33				
					34				
		10/6"		Barro	35				
18'	5	33	75	br silt / all rock	36				
		39			37				
		36			38				
					39				
15'	6	36	112	DU	40				
		45/3"			41				
					42				
					43				
					44				
4'	7	75/4"	75	DU	45				
					46				
					47				
					48				
					49				
0'		26/0"		NDRA	50				

24' Barro
3' Barro
21' Gravel

PROYECTO <i>Laurel</i>		JOB NO.		No de Muestras		Localización del Barreno (Coord)		Nivel del Agua	
DISEÑO <i>Geo</i>		INSPECTOR		Prof. Barreno		Elevación del terreno		Fecha Lectura	
EQUIPO/METODO DE BARREAR <i>#45 A 1/2" 6"</i>		TIPO DE MUESTRADOR		COMENZO <i>6-27-80</i>		TERMINO <i>6-27-80</i>		HOJA NO. <i>1</i>	
								BORING NO. <i>5</i>	

Boring de muestras

GEO CIM, INC.
 GEOTECNIA Y CIMENTOS

- BORING LOG No MW-1
 REGISTRO DE BARRENO

PROF. (F)	MUESTRA NO.	Penetración del Muestreador 6"-12"-18"	N	DESCRIPCION DEL MATERIAL, COMENTARIOS SOBRE EL BARRENADO, (1) PENETROMETRO	PROF. (F)	MUESTRA NO.	Penetración del Muestreador 6"-12"-18"	N	DESCRIPCION DEL MATERIAL, COMENTARIOS SOBRE EL BARRENADO, (1) PENETROMETRO (TSF)
0-	1	8	33	SPARSELY SAND, SOME	25-				
1-	1	15		CLAY, light yellowish brown	26-				
2-		18			27-				
3-	2	7	24	CLAY, silty, sand and	28-				
4-	2	15		SAND, light brown	29-				
5-					30-	9	76/6"		DO
6-	3	14	37	W/O. silt, fine sand,	31-				- Trace of fine sand
7-	3	14		trace clay, light brown	32-				
8-		23			33-				
9-	4	15	6 1/2"	CLAY, yellowish brown,	34-				
10-		63		- Rock frags. gray	35-	10	75/6"		CHART - coarse sand &
11-	5	9	35	silty clay, trace fine	36-				sand, little silt, yellowish
12-		14		sand, yellowish brown	37-				& gray mixed.
13-		21		& white mixed	38-				
14-					39-				
15-	6	19	100	Rock frags., silty clay	40-	11	70/1"		No RECOVERY
16-		40		light yellowish brown	41-				
17-		60		W/O. clay, yellowish brown	42-				
18-				& white mixed	43-				
19-					44-				
20-	7	22	102	W/O. trace mica, rock	45-				
21-		32		frags., yellowish brown &	46-				
22-		70		some gray mixed.	47-				
23-					48-				
24-					49-				
25-	8	24	92	DO	50-				
		32							
		60							

PROYECTO <u>OH HENRY LAUNDRY</u>		JOB NO.		No de Muestras		Localización del Barreno (Coord)		Nivel del Agua	
DRILLER		INSPECTOR		Prof. Barreno		Elevación del Terreno		Fecha Lectura	
EQUIPO/METODO DE BARRENAR		TIPO DE MUESTRADOR		COMENZÓ 6-21-90		TERMINÓ		HOJA NO. 1	
								BORING NO. MW-1	

20001425

P.O. BOX 447, HATO REY, P.R. 00819.
 TELS. (809) 763-1065 / 763-3851

GEO CIM, INC. GEOTECNIA Y CIMENTOS

BORING LOG No. _____
 REGISTRO DE BARRENO

PROF. (P)	MUESTRA NO.	Resistencia a Penetración del Muestreador 0"-12" 18"	N	DESCRIPCION DEL MATERIAL. COMENTARIOS SOBRE EL BARRENADO: () PENETROMETRO	E	MUESTRA NO.	Resistencia a Penetración del Muestreador 0"-12" 18"	N	DESCRIPCION DEL MATERIAL. COMENTARIOS SOBRE EL BARRENADO: () PENETROMETRO (TSP)
0-		14		GRAVEL & SAND, yellowish-brown	25-				
1-	1	10			26-				
2-					27-				
3-		11		GRAVELLY SAND, little CLAY, yellowish-brown	28-				
4-	2	15			29-				
		19			30-				
5-		40		Dark Sand, little gravel	31-				
6-	3	29		yellowish-brown	32-				
		25			33-				
7-					34-				
8-		10		Silty Clay, trace mica	35-				
		18		rock fragments, yellowish-brown	36-				
9-	4	27			37-				
10-					38-				
11-	5	12		DO - yellowish-brown, fine-grained	39-				
		18			40-				
		27			41-				
12-					42-				
13-					43-				
14-		9		Silty Clay, yellowish-brown	44-				
		14			45-				
15-	6	22			46-				
16-					47-				
17-					48-				
18-					49-				
19-		19		Silty Clay, trace mica	50-				
20-	7	17		fragments, yellowish-brown					
21-									
22-									
23-									
24-									
25-									

3' Bent
 22' Graveling

Estd. barreno
 de 12" a 18"
 en 2 barrenos
 12" y 18"

PROYECTO: O.H. Henry Laundry
 INSPECTOR: [Signature]
 EQUIPO/METODO DE BARRENAR: [Blank]
 TIPO DE MUESTREADOR: [Blank]

JOB NO. [Blank]
 No. de Muestras: [Blank]
 Prof. Barreno: [Blank]
 COMENZO: 6-22-80
 TERMINO: [Blank]

Localización del Barreno (Coord): [Blank]
 Elevación del Terreno: [Blank]
 HOJA NO. [Blank]

Nivel del Agua: [Blank]
 Fecha Lectura: [Blank]
 BORING NO. MP-2

L0001426

PO BOX 447, HATO REY, P.R. 00919.
TELS (809) 783-065 / 783-3831

GEO CIM, INC. GEOTECNIA Y CIMENTOS

BORING LOG No. _____
REGISTRO DE BARRENO

PROY.	MUESTRA NO.	Resistencia Fundación del Muestreador 8-12-16"	N	DESCRIPCION DEL MATERIAL: COMENTARIOS SOBRE EL BARRENADO: () PENETROMETRO	PROY.	MUESTRA NO.	Resistencia Fundación del Muestreador 8-12-16"	N	DESCRIPCION DEL MATERIAL: COMENTARIOS SOBRE EL BARRENADO: () PENETROMETRO (TSI)
0-					25-				
1-					26-				
2-					27-				
3-					28-				
4-					29-				
5-					30-	2	60/2"		DO
6-					31-				
7-					32-				
8-					33-				
9-					34-				
10-					35-	3	50/1"		DO
11-					36-				
12-					37-				
13-					38-				
14-					39-				
15-					40-	4	50/0"		DO
16-					41-				
17-					42-				
18-					43-				
19-					44-				
20-					45-				
21-					46-				
22-					47-				
23-					48-				
24-					49-				
25-	1	60/5"		br/8-7 3 1/4" / clea Rock	50-				

PROYECTO Laundry O.H. Henry	JOB NO.	No de Muestras	Localización del Barreno (Coord)	Nivel del Agua
DRILLER Orto	INSPECTOR	Prof. Barreno	Elevación del Terreno	28'
EQUIPO/METODO DE BARRENAR	TIPO DE MUESTRAADOR	COMENZÓ 6/25/50	TERMINÓ	FECHA LECTURA
		HOJA NO. 1	BORING NO. 11W-2N	

19/3/90 19/3/90 2 Boring No. MW-3

PO BOX 447, HATO REY, P.R. 00918.
TELS (809) 783-1085 / 783-3861

GEO CIM, INC.
GEOTECNIA Y CIMENTOS

BORING LOG No. MW-3
REGISTRO DE BARRENO

PROF. #	MUESTRA NO	Resistencia Penetración del Muestreador 6-12-18"	N	DESCRIPCION DEL MATERIAL COMENTARIOS SOBRE EL BARRENADO. () PENETROMETRO	PROF. #	MUESTRA NO	Resistencia Penetración del Muestreador 6-12-18"	N	DESCRIPCION DEL MATERIAL COMENTARIOS SOBRE EL BARRENADO. () PENETROMETRO (T&P)
0		4			25				
1	1	10	24	br. clayey silt	26				
2		10			27				
3		4			28				
4	2	5	12	br. clayey silt / Rock	29				
5		8			30				
6	3	6		br. clayey silt / Rock	31				
7					32				
8		14		br. clayey silt / Rock	33				
9	4	27	89	br. clayey silt / Rock	34				
10		22			35				
11	5	22	60	br. clayey silt / Rock	36				
12					37				
13					38				
14					39				
15	6	60/70	60	gray dec. Rock	40				
16					41				
17					42				
18					43				
19					44				
20	7	60/60	60	br. clayey silt / Rock	45				
21					46				
22					47				
23					48				
24					49				
25	8			br. clayey silt / Rock	50				

PROYECTO <u>Dr. Henry Danyosy</u>		JOB NO		No. de Muestras		Localización del Barreno (Coord)		Nivel del Agua <u>24'</u>	
DRILLER <u>Cotto</u>		INSPECTOR		Prof. Barreno		Elevación del Terreno		Fecha Lectura <u>7-7-90</u>	
EQUIPO/METODO DE BARRENAR <u>H-15 H-15-12</u>		TIPO DE MUESTREADOR		COMENZO <u>7/4/90</u>		TERMINO <u>7/5/90</u>		HOJA NO. <u>1</u>	
								BORING NO <u>MW-3</u>	

aluminum L0001428
18' of
Pneumatically

P.O. BOX 447 HATO REY, PR 00818.
TEL.S. (809) 783-1065 / 783-3851

GEO CIM, INC. GEOTECNIA Y CIMENTOS

BORING LOG No. 11114
REGISTRO DE BARRENO

PROF. (F)	MUESTRA NO.	Penetración del Muestreador 8"-12"-18"	N	DESCRIPCION DEL MATERIAL. COMENTARIOS SOBRE EL BARRENADO: () PENETROMETRO	PROF. (F)	MUESTRA NO.	Penetración del Muestreador 8"-12"-18"	N	DESCRIPCION DEL MATERIAL. COMENTARIOS SOBRE EL BARRENADO: () PENETROMETRO (TSP)
0		6			25				
18	1	17	71	bu. silt. de Rock	26				
		13			27				
2					28				
3		10			29				
18	2	16	42	bu. silt.	30	9	45/2"		NOROC.
		26			31				
5		25			32				
12	3	34	14	bu. silt. de Rock	33				
					34				
7					35				
8	4	36	57	DO	36				
		57			37				
17					38				
10		70/6"	70	bu. silt. de Rock	39				
3	5				40				
					41				
11					42				
12					43				
13					44				
14		50/6"	50	bu. silt. de Rock	45				
4	6				46				
					47				
15					48				
16					49				
17					50				
18									
19									
20	7	60/1"	60	NOROC					
21									
22									
23									
24									
44	8	73/3"	73	bu. silt. (wash)					
25									

PROYECTO: DH. Henry Sanchez	JOB NO.	No. de Muestras	Localización del Barreno (Colum)	Nivel del Agua
DRINER C.A.	INSPECTOR	Prof. Herrero	Elevación del Terreno	44"
EQUIPO/METODO DE BARRENAR #55 WILCOX	TIPO DE MUESTRADOR	COMENZO 7/3/90	TERMINO 9/3/90	Fecha Lectura 9-3-90
			FOLIA NO. 1	BORING NO. 11114

P.O. BOX 447, HATO REY, P.R. 00918
 TELS (809) 763-1085 / 763-3051

GEO CIM, INC. GEOTECNIA Y CIMENTOS

BORING LOG No. MW-4
 REGISTRO DE BARRENO

PROF. (P)	MUESTRA NO.	Resistencia a Penetración del Muestrador 6" x 12" x 18"	N	DESCRIPCION DEL MATERIAL: COMENTARIOS SOBRE EL BARRENADO: () PENETROMETRO	PROF. (P)	MUESTRA NO.	Resistencia a Penetración del Muestrador 6" x 12" x 18"	N	DESCRIPCION DEL MATERIAL: COMENTARIOS SOBRE EL BARRENADO: () PENETROMETRO (TSP)
0-					26-				
1-					26-				
2-					27-				
3-					28-				
4-					29-				
5-					30-				
6-					31-				
7-				57'	32-				
8-					33-				
9-					34-				
10-					35-				
11-					36-				
12-					37-				
13-					38-				
14-					39-				
15-					40-				
16-					41-				
17-					42-				
18-					43-				
19-					44-				
20-					45-				
21-					46-				
22-					47-				
23-					48-				
24-					49-				
25-					50-				

PROYECTO <u>OH. HENRY LAUNDY</u>	JOB NO.	Nº. de Miras	Localización del Barreno (Coord)	Nivel del Agua
DRINER <u>6700</u>	INSPECTOR	Prof. Barreno	Elevación del Terreno	Fecha Lectura
EQUIPO/METODO DE BARRENAR	TIPO DE MUESTRADOR	COMENZO	TERMINO	

8/1/90

St. Thomas (Tutu) soil samples
hole MW-7

h=0-1.5 ft.

8-15-18 N=33

fill; lt. br.-tan, mottled dark br.; ang. sand-cobble sized sh. frags. & silty-clayey matrix; mostly grain supported

h=2.5-4 ft.

7-9-15 N=24

fill; dark br.-br.; stiff-friable sand/clay/sandy-silty clay; sand fr. consists of ang.-sub-std. light-dark sh. frags. & some min. grains; occasional cobb sized fine gr. sh. frag.; matrix-grain supported

h=5-6.5 ft.

14-14-23 N=37

thoroughly-mod. wx. volc. breccia (?); metamorphosed; recovery concn silt ang. sand-cobble sized frags; ^{fine-mg qtz (porphyry) dark rock} greenish gray; frag. surfaces planar-irreg; no. are highly oxidized; no orient. evident; frags are friable-mod. str;

h=7.5-9 ft

15-63/6"

reco. consists of ang. sand-cobble frags of bluish gray siliceous silicified MOST (?); little wx., some mod. wx. frags; some planar, highly oxid. free surfaces evident; variable orient.; & silty clay, br.-reddish br. saprolite volc. ss?; select white clasts; some mod. wx., unident. sand-gravel grains

h=10'-11.5'

h=7.5-9 ft.

9-14-21

N=35

outcrop clayey silt; mottled white (calcareous); thoroughly wx. sh.; perhaps sheared; one distinct 3 mm calcareous silt vein; near vent.; friable; occasional gravel-sized, highly wx., fine gr. sh. frags.

h=14-15.5 ft

19-40-66

N=106

2 bottles

reco. consists of tan silt & tan-br. ang. sh. frags; highly wx., some highly-mod.; incl. as fine gr. but some have the appearance of a volc. ss, friable wh.; some calc. silt masses; frag. surfaces mostly irreg. & highly oxid.; some coated w/ silt-clay-calc. mix

TUT 007 1095

L 0001431

111111 - (1)
h - 0 - 1.5" 14-9-10

recovery consists of light brown and gray granular sand w/
some silts; sample sand react w/HCl; gravel is
faintly wx, v. hard; v. strong; gray color, composed of volc.
siltstone and sandstone.

h - 2.5 - 4ft 11-15-19

Pale yellowish brown - gray volc. sandstone; thoroughly
weather to sand-silt w/some gravel

h - 5 - 6.5ft 40-29-25

Pale yellowish brown - gray volc. sandstone and breccia,
thoroughly wx; weather to sand-silt w/some gravel and
clay.

h - 7.5 - 9ft 10-18-27

recovery consists of pale yellowish brown sandy silt; ^{weather from}
local white spots that react HCl (former calcite veins?); moist
v. 4.5-5.5-

h - 14' - 15.5ft

Pale yellowish - greenish brown volc. siltstone or sandstone
thoroughly wx; weather to sandy silt w/ ^{some} clay and gravel;
few white veins; irregular, react to HCl (former vertical veins of
calcite?); moist

h = 19-20.6 ft.

recovery consists of yellowish-brown sandy silt w/ few clay; organic rock is Vol. sandstone - breccia?; locally thoroughly w/ white veins; react w/ HCl.

MW-2A

h = 24'-24.5 ft 60/5"

recovery consists of yellowish-brown grainy sand; few fragments of hair size roots; gravel is composed of Vol. sandstone?, mod. faintly wx; hard - mod hard; locally white spot resistant HCl (previous calcite veins?);

h = 29-29.2"

60/2"

recovery consists of pale and clay; highly moist; Sample is sticky

h = 34-34.1"

50/1"

recovery consists of pale greenish gray grainy sand w/ some silt; gravel consists of lightly wx Vol. calc. fragments; moist.

L0001433

MW-3

h=0-1.5 ft 4-10-14

Filling brown sandy silt and ^{some} gray gravel; gravel is fresh, hard, composed of Volc. siltstone and sandstone?

h=2.5-4.0 ft. 4-5-7

Pale brown Volc. sandstone; thoroughly wx; weather in silty sand.

h=5-6.5 ft 8-8-6

Yellowish brown Volc sandstone; thoroughly wx.; weather in silty sand and some gravel; locally white thin wx spots that react w/ HCl. (former calcite veins?)

h=7.6-9 ft. 14-37-52

recovery consists of yellowish brown, gray and white gravelly sand w/ some silt; locally wx. white spot react w/ HCl; gravel is faintly wx, gray color; v. hard; v. strong; composed of silicified Volc. sandstone and breccia?

h=10'-10'3" 60/3"

recovery consists of (brown-greenish gray) gravel w/ some sand and silt; composition of gravel is unidentifiable; little metamorphosed?; color is light greenish gray.

MW-3 cont.

(2)

h = 14' ft

60/3"

recovery consists of brown-gray. sandy gravel;
2 clots approx diam.; gravel slightly wet;
hard - v. hard, strong; ^{gravel is} composed of calc. sandstone

h = 19 - 19.5"

60/6"

recovery consists of silty sand w/ some gravel fragments;
brown color; gravel is composed of calc. sandstone?
one gray gravel fragm. of unknown composition

h = 24 - 24' - 4" 60/4"

recovery consists of ^{light} brownish - greenish - gray - silty
sand w/ some gravel; gravel is highly wax; wet

h = 29 - 29' - 2"

recovery consists of yellowish light greenish gray
silty sand w/ some gravel; gravel is highly - moderate
wet; (~~some sandstone is visible and external surface is~~
~~text.~~)

L 0001435

TUT 007 1099

385-5
720

N- 0-1.5 ft 6-12-15

Recovery consists of ^{pale} yellowish brown - grayish ^{locally} gravelly sand.
sand w/ few silt; ^{unbroken} ^{locally} ^{showing} ^{for 1/4}
→ dark brown stain, ^{highly - thinning to wax} Some former fracture plane;
gravel compose of Volc. rock?; slightly - highly wax.

N = 2.5 - 4 ft. 10-16-26

Pale yellowish brown Volc. sandstone; thoroughly wax
locally dark brown stain.; weather to silty sand
w/ little gravel; mod - highly wax fragments.

N = 5 - 6.5 ft. 25-54

Recovery consists of ^{pale - grayish} gravelly sand with some silt; few
fragments show ^{brown} oxide stain or thoroughly waxed to
into ~~recognizable~~ remain fracture features; white spot
near w/ Hcl.

N = 7.5 - 9 ft 36-57

Recovery consists of pale yellowish - grayish silty sand;
to ~~original~~ ^{original} ~~rock~~ ^{Volc.} sandstone?; thoroughly wax,
remain locally fracture features w/ dark brown
oxide.

(2)
h = 10 - 10.5 ft. 70/6"

recovery consists of ^{yellowish brown} silty sand w/ some gravel;
gravel is ^{slightly} mod. - thoroughly wx; gray color when is
slightly wx; unknown rock composition (volc. sandstone?)

h = 14 - 14.5 ft. 90/6"

recovery consists of ^{pale purplish - brownish} silty sand w/ some gravel;
gravel is purplish color; mod. - lightly wx.

sample 2
? wash

h = 24 - 24.3" 73/3" (wash)

recovery consists of ^{yellowish - brown} sandy silt w/ some gravel;
gravel is mod. - thoroughly wx; v. angular - angular

(?) wash

h = 34 - 34.3" 70/3" (wash)

recovery consists of ^{light} yellowish - brownish sandy silt
w/ some fine gravel; gravel is lightly - thoroughly wx

h = 39 - 39.3" 80/3"

recovery consists of yellowish - purplish - brownish
gravelly sand w/ some silt; gravel fragment
composed of volc. rock (volc. sandstone and breccia);
mod. - thoroughly wx