

Project Moss Beach
Tract _____
Date 9-24-71
Logged by L. Cann
Notes by L. Cann

F. BEACH LEIGHTON & ASSOCIATES

Top Hole Elev. 104.0
Hole Dia. 24"
Type of Rig 24" Bucket
(See Abbreviation List attached)

GEOLOGIC DRILLING LOG NO. 5
Ocean Ave. betw. San Lucas & La Grande
Location of Hole
Sheet 1 of 1

Project Moss Beach
Tract
Date 9/24/71
Logged by L. Cann
Notes by B. Dickey

ALTITUDES	Log		ENGINEERING GEOLOGY DESCRIPTION Measured Depth 51', W/H ₂ O @ 38'± Depth	PHYSICAL CONDITION
	Orientation			
	W	E		
			Fill Road Gravel	
			1'6"	
			Soil/Qt. Mix. Colluvium W/6-8" Blocks of Terrace SS.	Moist-soft
5			5'7" Qt	
			6'10" SD, Coarse, in clayey mt. x.	
			7'6" SD, Silty, in clayey mt. x., (very massive)	
			9' SD, Coarse.	
Dips to W.			Clay-rich Bed, 2" thick.	
N17E, 32°W, B10			NOTE: Qt. is softer, more friable than in Hole #6, possibly less clay in Mat.	
			12'7" SD, Coarse	
NS, 20°W C			SD Gray-Brn., W/FeO stain. Scatt'd crs. SD W/less than 10% Pebbles	
13'9" C			CT- Irregular	
N26°W, 21°E 15			15'9" SD & Gvl. Clean, about 1' thick	
			19'9" H ₂ O at C.	
Belled out			SD Micaceous	Loose
25				
30			H ₂ O Basal cg. (gvl) in Terrace Sand	
			H ₂ O	
35				
Qt/TP			CTCT Slt. NOTE: No slide surfaces in Qt, must be in Slt. below Qt. Hole logged to 22'± feet.	
40				
			TD: 51' H ₂ O @ 38'±	
			Elevation	
			Base of Terrace (Sand) 67.0	
			Top of Bedrock (Ss) 67.0	
			H ₂ O 66.0	
			F. BEACH LEIGHTON & ASSOCIATES	

DEPTH (Feet)	Log		ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION
	Orientation			
	W	E		
			Soil	
			Dk. brn-med.brn w/worm tubules, scatt'd crs. sd.	
			3.0'	
			4.5'	
			TRANS ZONE	
			Soil to terrace, v/irregular	
5			Qt.	
			TERRACE	
			Yellowish brn, typical terrace sediments	Soft-firm
			Pbls. v/crs. sd, red-brn clayey mtx.	Moist
			7'4"	
			7'10"	
			(Silty)	
10			SD	
			Yl.-brn. layer, Fn.-med. grain, scat.	Soft, Moist
			(Grad.-Horiz) Granitic & Slt. clasts, yl.banding, no distinct bedding.	
			12'	
			a.a. w/ Slt.	
			13'6"	
			Clasts. Abundant Slt. clasts to 1-1/2" subang.	Moist
			13'19" (v/irreg-horiz. subrdd. with filled	
			root hair) Tolad Borings.	Firm-Damp to
15			Ss	Moist
			(No R.S.)	
			Lt. gray, fn-grained, mottled w/rust stringers, massive, blocky, highly fractd., v/little open structure	
			19'4"	
			Grada. color chge to bluish-gy., unoxidized, spotty at first.	
20			21'4"	
			Ss	
			21'6"	
			Conc. (a.a.)	
N8SW,28N B			22'4"	
			Semi-Conc. zone, belled on west, bdg. is poorly developed.	
N40E,82N J			24'6"	
25			(Open structure to 1/8")	
			26'8" (Gyp. in J) No bdg.	
N10E,80S J			27'6"	
30			Lots of joints, Gyp. xls. along joints, yl-gy-brn along joints. Blue-gray away from joints.	
			34'0"	
N80E,73S J			35	
35				
			39'	
40			Conc. Bed. Hd, xln, highly fractd.	

Project Moss Beach
Tract _____
Date _____
Logged by _____
Notes by _____

F. BEACH LEIGHTON & ASSOCIATES

Top Hole Elev. 110.0
Hole Dia. 24"
Type of Rig 24" Bucket
(See Abbreviation List attached)

GEOLOGIC DRILLING LOG NO. 7
La Grande Ave. & San Ramon Ave.
Location of Hole
Sheet 1 of 1

Project Moss Beach
Tract _____
Date 9/24/71
Logged by Dickey
Notes by Cann

ALTITUDES	Log		ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION
	Orientation			
	W	E		
			Soil	
			Qt	
5			SOIL - Dk. brn, clayey silt, mass. CONTACT sharp, undulating, stringers extend into the Qt. QT - Rust-brn, clayey sand, clayey mtx. Sandy	Soft - Damp Soft-Firm Damp
10			CONTACT - Irreg. GRAVEL - Pebbles & v/crs. sand, gr., wea. C Silty gy.	
15			SD - v/crs. SD - Brn, med., mica. SD - Grade to crs.	Soft - Moist
20			SD - v/crs. SD - 1" thick SD - 1" thick - Slt. pebbles. SD - Mica. Slight seepage	Firm - Moist
25			TD: 25'3"	Standing H ₂ O 1-2" deep. Hole drilled 9/23/71.
			NOTE: Hole logged to 25'3" T.D. H ₂ O standing 1" in bottom of bell. H ₂ O @ 85.0'	

F. BEACH LEIGHTON & ASSOCIATES

Top Hole Elev. 95±'
Hole Dia. 24"
Type of Rig 24" Bucket
(See Abbreviation List attached)

GEOLOGIC DRILLING LOG NO. 8
Location of Hole
Sheet 1 of 1

Project Moss Beach
Tract
Date 9-24-71
Logged by L. Cann
Notes by L. Cann

ALTITUDES	Log		ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION
	Orientation			
	W	E		
			Soil: Dk.brn.-med.brn., silty, scat. roots	Soft, Damp
			Gradational contact, stringers of soil into Qt.	
			Transition zone	
5			Qt Red brn., crs.sd., clayey mtx.	
			Root tubules., black organic coatings within tubules.	Soft-Firm, Moist
No stratifications				
10			SD: Red brn., crs.gr., subang., mass.	
Horizontal Bedding			SD: Dk.gy., crs.gr., scat.pebbles, 1/2"-1"tk. Irregular contact.	Slight Free H ₂ O
B N75°W, d.10°N			SILT: Gy.-grn., clay-rich, FeO stain at contact.	
B N50°W, d.16°N			SD: Yl.brn., a.a.	
B E-W, d.11°N		15'	CLAY: Lt.gy., 1/4"tk. semi plastic, contact irregular, well developed, continuous.	
			SD: Gy.-brn., med.gr., organic, fri.	Soft-Firm
			Gradational contact	
20			SD: Lt.brn., crs.gr., subang-sub.rdd., scat. pebbles, sdy.mtx., FeO stains. Clean sand lens 1/2 of hole.	
25				
			SD: Lt.brn-gy.brn., fn-med.gr., mica, v/fri.	Soft, Moist
30				
Notes:				
1. Logged from cuttings below 30'			Hole belled to 4' diameter.	
			SD: a.a., highly mica, slight caving.	Soft, Wet
40			GVL: Lt.brn-red brn., cobbles in sdy.mtx., pholas borings, 60% slt. clasts.	Free H ₂ O v/slight flow
			Dk.brn-gy.brn., mass., fract., granitic clst. scat. clay zones, petrol. odor	
		Slit.	Base of Terrace (Sd) 54.0 Elev. 54.0 Damp-Firm, Moist	
			Top of Bedrock (Ss) 54.0 H ₂ O at 55.0	
			T.D. 46'	

DEPTH (FEET)	Log		ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION
	Orientation			
	W.	E.		
			QT - Clayey. Clayey Terrace Sand	
			Qt	
			4'4"	
5			SD	
			7'3"	
			GVL	
10			Lt. brn., mica. sand, friable Gravel, clayey w/ Slt. frags.	Soft - Firm
			Purisima w/Pholas Borings	
			12'6" CLAY	
			13'6" Reddish-brn. clay, slick & crumbly.	
			Slt	
15			SLT	
N60W, 42W CL			15'6" CLAY SEAM	
			Dk. gy., fragmtd., Purisima, numerous shears, 1/4" frags. in clay mtx. (looks like slide).	
			19'14" R.S. - clay-coated, 1/4" thick, v/fragile. No frags. bigger than 1/4" "Looks like Princess Park"	
N60W, 27W 20 R.S.				
25			25'9" CLAY SEAMS - v/plastic and moist, highly fragmtd., Purisima in clayey Mtx., very weak mat.	Plastic - Moist
N50°W, 25E R.S.			26'6"	
N82E, 22W R.S.				
			30'9" Scat. mineralized veins	
			35'6" SLIDE SURFACE - Moist plastic clay, 2-6" thick. Looks like Slide surface.	
N42W, 68S R.S.				
N38W, 34W R.S.				
			2-3" Thick clay (gouge zone) on R.S.	
N20W, 43°W				Moist
			Ss (TP) - Lt. gy., sandy. slt. or silty ss., fairly mashed up.	Soft - Firm Moist

GEOLOGIC DRILLING LOG NO. 9

Location of Hole
Sheet 2 of 2

Location of Hole
Sheet 2 of 2

F. BEACH LEIGHTON & ASSOCIATES

Top Hole Elev. 78±'
Hole Dia. 24"
Type of Rig Bucket-Auger
(See Abbreviation List attached)

GEOLOGIC DRILLING LOG NO. 10
Opposite Torres' House
Location of Hole
Sheet 1 of 1

Project Moss Beach
Tract _____
Date 9/24/71
Logged by L. Cann
Notes by L. Cann

ALTITUDES	Log		ENGINEERING GEOLOGY DESCRIPTION Looking at north wall	PHYSICAL CONDITION
	Orientation W E			
			Top of hole - graded prior to drilling	
J N16°E, d.90°		Qt	1/8" locally open fract filled with brn soil material SD: Red brn., crs.gr., slty-clayey mtx. Gradational contact	Soft-Firm Damp-Moist
5				
C NS, d.40°E (Apparent dip)		6'8" 7'6"	SD: Yl.brn.-red brn., med.gr., silty mtx.,fri. Gradational contact GVL: Red brn., pebbles & cobbles rdd., 65% slt.clasts, pholas borings, sdy mtx.	No H ₂ O at contact. Firm-Hard, Damp
B N20°W, d.28°E J N82°W, d.40°S		10'		
J N38°W, d.47°W J N50°W, d.42°W		12'2"	SS Lt.brn.-lt.gy., mott., mass., blocky, scat.open struct., scat.root hairs, dk.brn.clay coatings along joints, 1/8" tk.locally, scat.pholas borings below Qt contact.	Firm-Hard, Damp
B N70°E, d.28°S B N10W, d.32E		15' 15'9"		
J N52°W, d.38°W		18'		Firm-Hard Damp
J N28°W, d.45°W J N70°E, d.73N J N30°W, d.32°W		20'		
		T.D.24'	Notes: 1. Logged out at 22'6". 2. Unable to drill deeper because of resistant sandstone. Below 12'6" firm to hard, damp condition 3. At 15'3" is blue gy.-transition from oxidized to unoxidized. 4. No oper struct.below 12.5' to 18.5'. 5. Ss is brn.along fract., gy in non fractd.areas. 6. No free H ₂ O. 7. Joints are well developed, clay-coated and dip toward the bluff. 8. May be part of a larger landslide. (See Cross-Section C-C')	
			Elevation	
			Base of Terrace (Sand) 69.0 Top of Bedrock (Sandstone) 69.0	

F. BEACH LEIGHTON & ASSOCIATES

Top Hole Elev. 70'
 Hole Dia. 24"
 Type of Rig Bucket
 (See Abbreviation List attached)

GEOLOGIC DRILLING LOG NO. 11
 Project Moss Beach
 Tract Orval, South of Park
 Date 9/27/71
 Logged by B. Dickey
 Notes by Hay

Location of Hole
 Sheet 1 of 1

Elev. (ft)	Log	ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION
	Orientation W E		
	Soil	blk, sandy.	
	Qt.	GRAVEL: rusty-brn, sandy gravel.	Damp & Hard
	5'4"	Rusty bd.	
B 5'8"		SD & GVL: gradational zone; grn. ss to rusty gravel to crs. pebbly sd.	Firm to loose & moist
		SILT: gy, grades into ss below.	Firm to Hard
10		SD: pebbly	& v/Moist
		Water Line	
15		Driller reported H ₂ O at 15'.	
20			
25		Driller reported grn. sand at 26'.	
30		TD: 30'	

Top Hole Elev. 120.0'
Hole Dia. 24"
Type of Rig Bucket

(See Abbreviation List attached)

GEOLOGIC DRILLING LOG NO. 12

200' SE of La Grande on Park

Location of Hole
Sheet 1 of 1

Project Moss Beach

Tract.

Date 9/27/71

Logged by B. Dickey

Notes by _____ Hay _____

ATTITUDES		Log	ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION
Orientation				
N	S			
			SOIL: Blk, sandy, w/roots throughout	Damp & soft
			Transition - grades into pebbly terrace deposits	
5		Qt	GVL: Red-brn., sandy	
			CLAY: Gy., sandy	
			3" Gravel bed.	
10			SD: Gy., med. grn.	Damp & loose
			3" sandy gvl bed.	
			SD: Brn., v/crs. grn.	
			SD: Tan, med. grn., w/scat. pebbles.	
15			SD: Alternating v/crs., pebbly sand & fn.grn.	
16'8"		17'1"		
20			SD: Brn., limonitic mica. med. grn.	Damp & loose
			GVL: 6", w/slt. pebbles	
25			Med. grn. SS	
			SS & SLT: Alternating beds, fn. gr.	
			"DG": Highly decomposed granitic rk., highly fractd., rust grn.	
30		gr		
			DG is bl-gy & clay-rich.	
			Elevation	
			Base of Terrace (Sand)	94.0
			Top of Bedrock (Granite)	94.0
			Dry	
			TD: 43'6"	

Top Hole Elev. 71.4'
 Hole Dia. 24"
 Type of Rig Bucket
 (See Abbreviation List attached)

GEOLOGIC DRILLING LOG NO. 13
 Redondo Ave., 200' E of Monterey
 Location of Hole
 Sheet 1 of 1

Project Moss Beach
 Tract _____
 Date 9/28/71
 Logged by L. Cann
 Notes by _____

ALTITUDES		Log	ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION
		Orientation		
5		QT	Greenish-yellowish, brn, clay-rich, scat. qtz. pebbles - Feldspar clasts., wea.	
10				
15			First seepage at 16'6"	
20			SD: Lt., brn.	
25			SD: Blue-gy, med. mica., v/fri.	
30				
35				
40			TD: 41' NOTES: 1. Logged from cuttings because of caving sand. 2. Unable to drill deeper because of caving sand & H ₂ O.	

F. BEACH LEIGHTON & ASSOCIATES

Project Moss Beach
Tract _____
Date 9/23/71
Logged by Dickey
Notes by Cann

F. BEACH LEIGHTON & ASSOCIATES