Logged by Cann
Notes by Dickey
Type of Rig 18" Backhoe
(See Abbreviation List Attached)

GEOLOGIC PIT LOG NO. 6
178' @ S33°W from RP #7
Pit Location

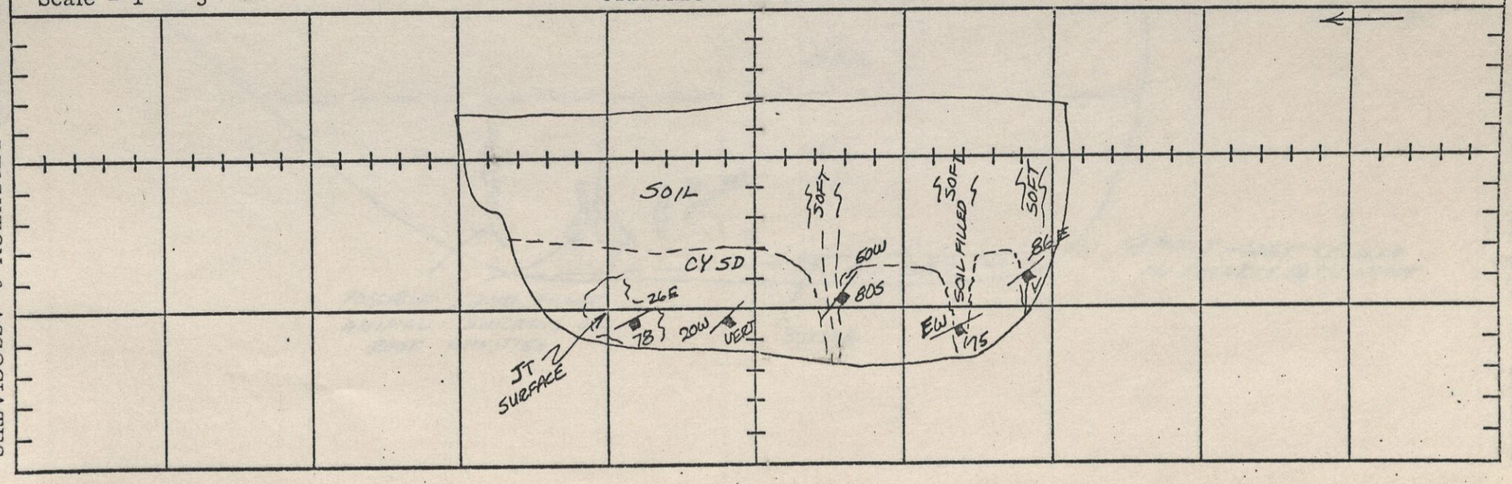
Project Moss Beach
Tract San Mateo County
Date 9/22/71

ATTITUDES		ENGINEERING GEOLOGY DESCRIPTION		PHYSICAL CONDITION	COMMENTS
N26°E, 78W	J				
		SOIL	BLACK-BROWN CLAYEY SILT SOIL	SOFT-FIRM	MANY JTS
N20W, VERT	J		W/ROOTS THROUGHOUT	DAMP	PARALLELING THE PIT WALL.
N50W, 80S	F?	CY SD	RUSTY BROWN WEATHERED CLAYEY SAND, MASSIVE W/ROOTS	FIRM, DAMP	SOIL FILLED JOINTS BELOW CORRESPOND WITH SOFT ZONES IN UPPER UNIT
EW, 75N	F?				
		(VERTICAL JOINTS	SOIL FILLED ZONES WITH WELL-DEVELOPED ROOTS)	SOFT, MOIST	
N86E, VERT	J?				NATURAL SLOPE
					GRADED STREET

Scale - 1" = 5'

GRAPHIC REPRESENTATION EAST FACE

Pit Trend = N27E



F. BEACH LEIGHTON & ASSOCIATES 3/

GEOLOGIC PIT LOG NO. 6

Logged by Dickey
Notes by Cann
Type of Rig 18" Backhoe
(See Abbreviation List Attached)

GEOLOGIC PIT LOG NO. 7
44'± & 15'± SE of M.H. @ SAN LUCAS AVE.
Pit Location

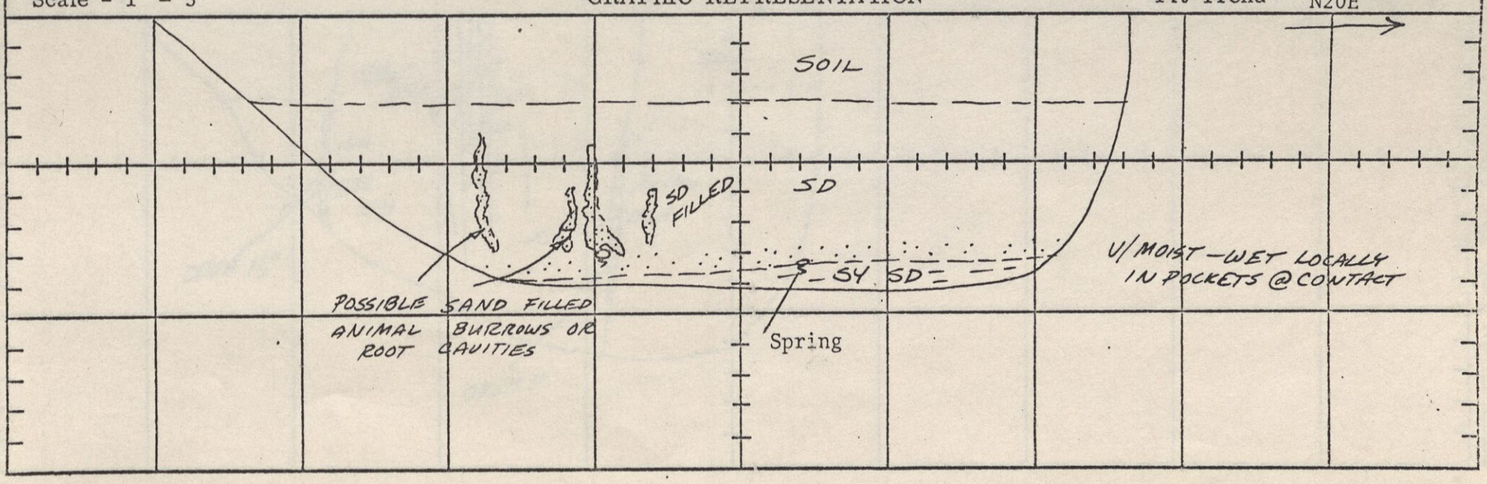
Project Mos[illegible]each
Tract San Mateo County
Date 9/22/71

ATTITUDES	ENGINEERING GEOLOGY DESCRIPTION		PHYSICAL CONDITION	COMMENTS
	SOIL	BLACK/CLAY SILT SOIL, MASSIVE W/ROOTS THROUGHOUT	FIRM, DAMP	
	SD	TAN-RUST CLAYEY V.C. SAND, MASSIVE	DAMP, FIRM	
	SY SD	TAN-GREY SILTY M. SAND	DAMP, LOOSE	
				NATURAL SLOPE
				GRADED STREET

Scale - 1" = 5'

GRAPHIC REPRESENTATION

Pit Trend = N20E



F. BEACH LEIGHTON & ASSOCIATES

GEOLOGIC PIT LOG NO. 7

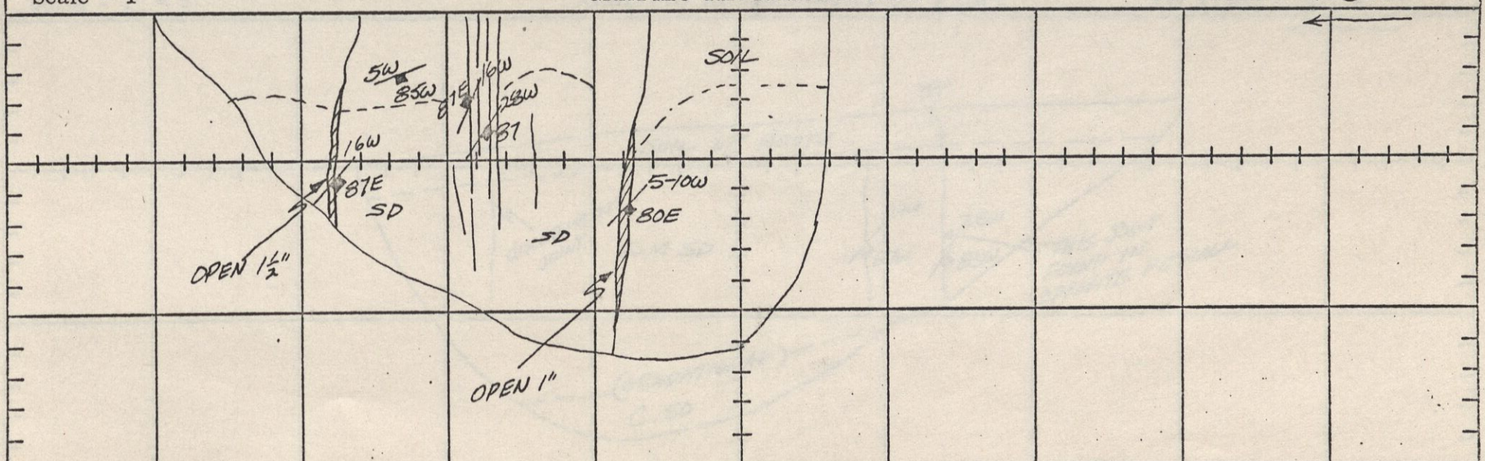
Logged by Cann
Notes by Dickey
Type of Rig 18" Backhoe
(See Abbreviation List Attached)

GEOLOGIC PIT LOG NO. 8
60' @ S33W from PT #9
Pit Location

Project Moss Beach
Tract San Mateo County
Date 9/22/71

ATTITUDES	ENGINEERING GEOLOGY DESCRIPTION			PHYSICAL CONDITION	COMMENTS
N28W, 87W	F OR J	SOIL	BLACK SILTY SAND SOIL	LOOSE, MOIST	OPEN CRACKS INDICATE ACTIVE FRACTURE
N16W, 87E	J				
N5W, 85W	J				
N30W, 80E-V	OPEN CRK (1-1/2")				
N5-10W, 80E	O.C. (1")	SD	YELLOW-BROWN CLAYEY SAND	FIRM, DAMP	
					NATURAL SLOPE
					GRADED STREET
	SURFACE SLUMP				

Scale - 1" = 5' GRAPHIC REPRESENTATION EAST FACE Pit Trend = N30E



F. BEACH LEIGHTON & ASSOCIATES

GEOLOGIC PIT LOG NO. 8

Logged by Dickey
Notes by Dickey
Type of Rig 18" Backhoe
(See Abbreviation List Attached)

GEOLOGIC PIT LOG NO. 9
87' @ S31°W from R.P. #13
Pit Location

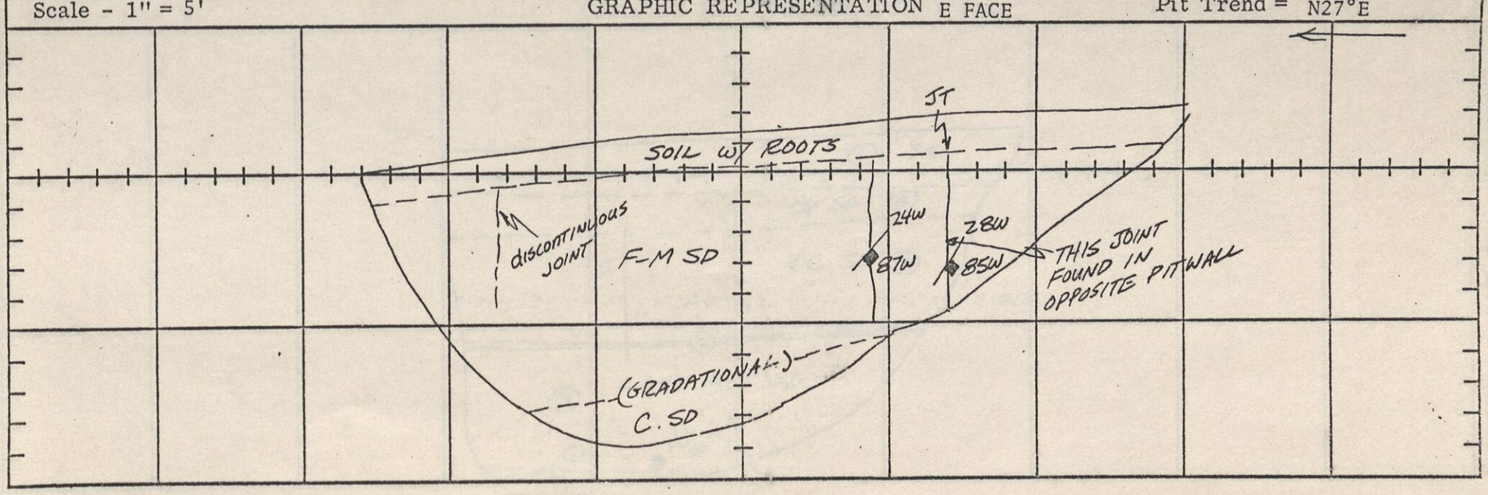
Project Moss Beach
Tract San Mateo County
Date 9/23/71

ATTITUDES			ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION	COMMENTS
N24W, 80°W	J	SOIL	GREY-BLACK SANDY SOIL, W/ROOTS	DRY, FIRM	WELL DEVELOPED FRACTURES, WITH ROOTS
N28W, 85°W	J	F-M SD	RUST & BUFF FINE TO MED. GR. SILTY SAND. MASSIVE, W/ROOTS IN JOINTS	DAMP, HARD	
		CY SD	RUST & BUFF COARSE CLAYEY SAND, MASSIVE	DAMP, LOOSE	
					NATURAL SLOPE
					GRADED STREET

Scale - 1" = 5'

GRAPHIC REPRESENTATION E FACE

Pit Trend = N27°E



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GEOLOGIC PIT LOG NO. 9

Logged by Dickey
Notes by Dickey
Type of Rig 18" Backhoe
(See Abbreviation List Attached)

GEOLOGIC PIT LOG NO. 10
120' SW of Park on Okval
Pit Location

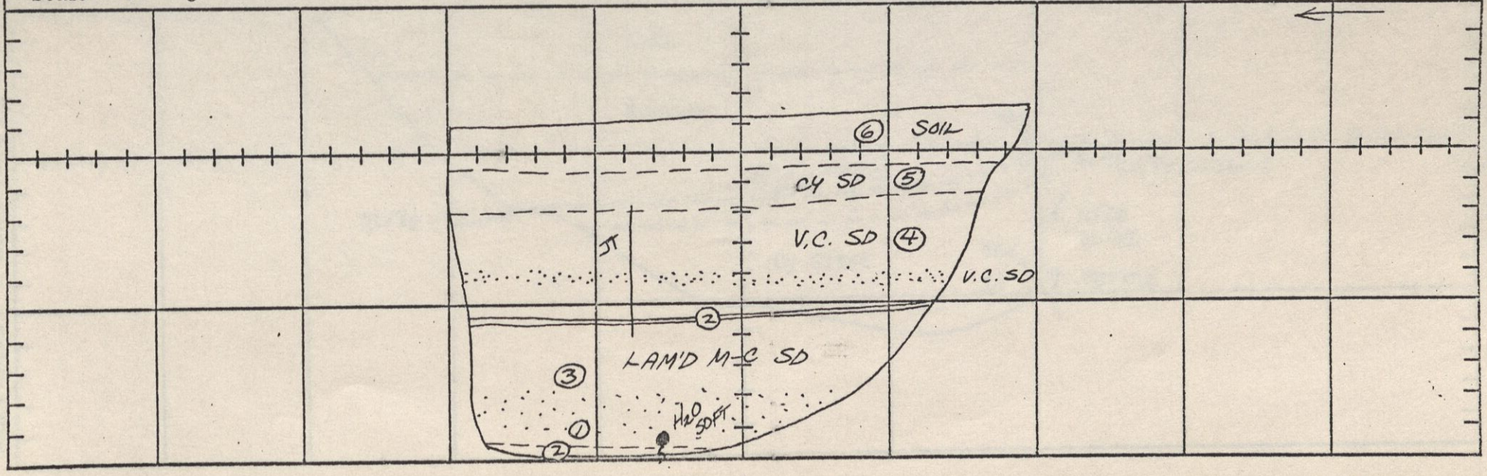
Project Moss Beach
Tract San Mateo County
Date 9/23/71

ATTITUDES	ENGINEERING GEOLOGY DESCRIPTION			PHYSICAL CONDITION	COMMENTS
	(1)	SAND	GRY-GRN: MED-V/CRSE	LOOSE, MOIST	
	(2)	SLT	GRN WELL-BEDDED SILT	FIRM, MOIST	
	(3)	LAM'D M-C SD	TAN LAMINATED FINE TO V/CRSE GR. SAND	LOOSE, DAMP	
	(4)	V.C. SD	TAN/GRN COARSE TO VERY COARSE SAND	FIRM, DAMP	
	(5)	CY SD	BUFF MASSIVE CLAYEY SAND	FIRM, DAMP	
	(6)	SOIL	BLACK CLAYEY SAND SOIL W/ROOTS	FIRM, DRY	NATURAL SLOPE

Scale - 1" = 5'

GRAPHIC REPRESENTATION E FACE

Pit Trend = N27E



GEOLOGIC PIT LOG NO. 10

F. BEACH LEIGHTON & ASSOCIATES

Logged by Cotton
Notes by Cotton
Type of Rig 18" Backhoe
(See Abbreviation List Attached)

GEOLOGIC PIT LOG NO. 11
NE of Corner Ocean & Cypress
Pit Location

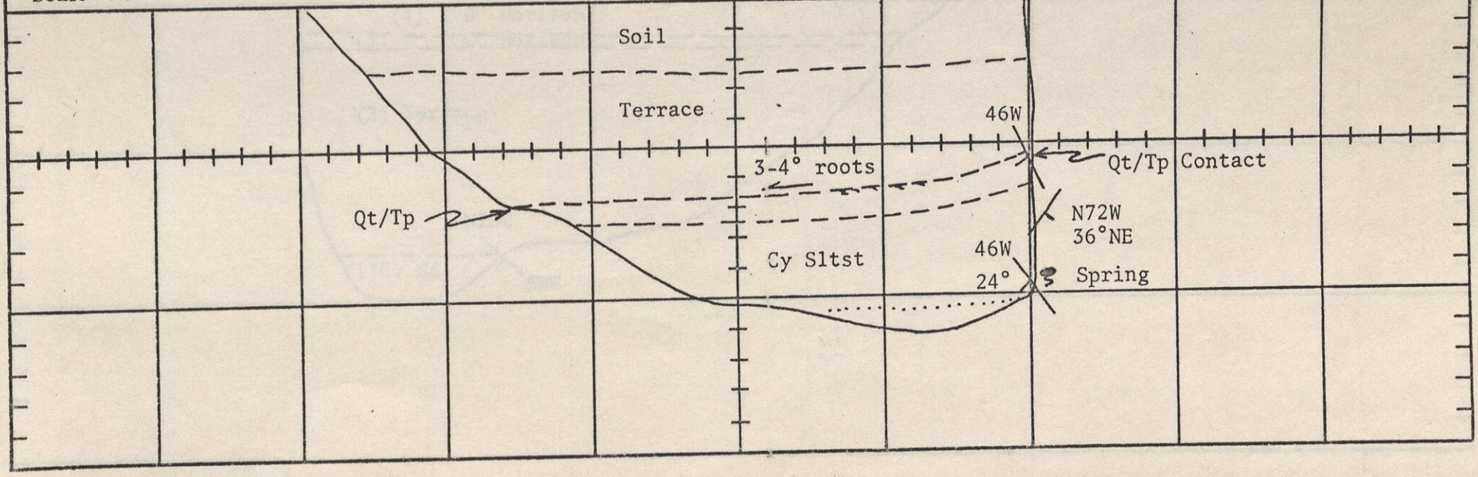
Project Moss Beach
Tract San Mateo County
Date 9/23/71

ATTITUDES			ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION	COMMENTS
N46°W,23°NE	C	Soil	Brown clayey adobe-type soil		
N72W,36°NE	B	Terrace	Gray green clay-rich coarse sand w/root tubules coated w/black clay, scattered pebbles & feldspar crystals	Moist	
N45W,24NE	B?				
		Cy Sltst	Olive to gray-green clay-rich siltstone, glaze of dark brown on root fillings, massive		NATURAL SLOPE

Scale - 1" = 5'

GRAPHIC REPRESENTATION

Pit Trend = N28°E



F. BEACH LEIGHTON & ASSOCIATES

GEOLOGIC PIT LOG NO. 11

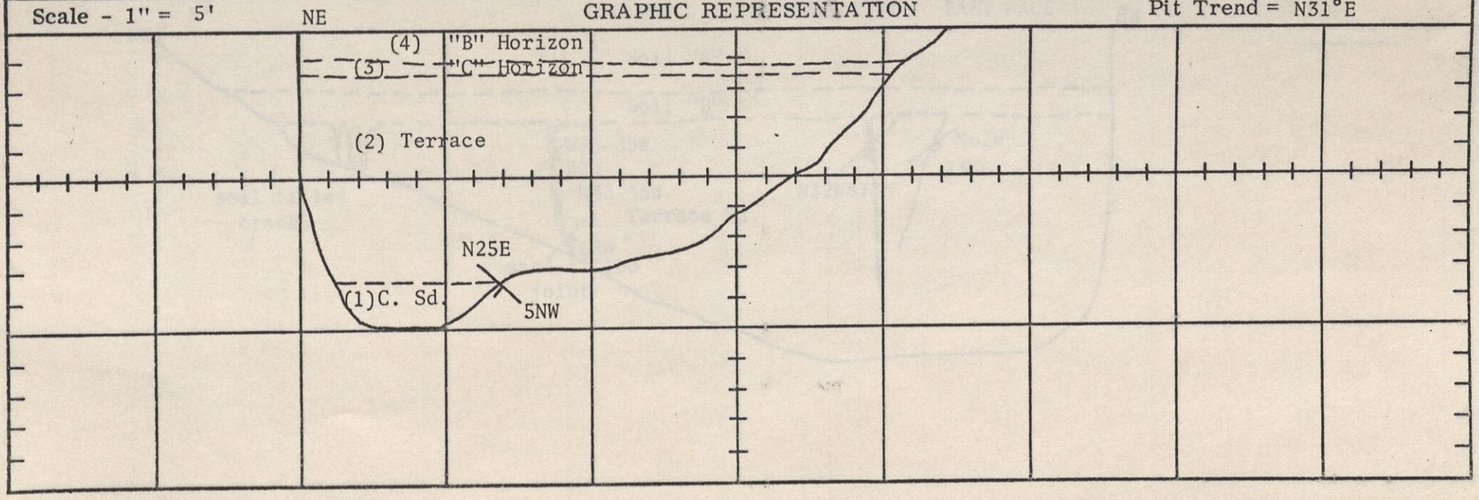
Logged by Cotton
Notes by Cotton
Type of Rig 18" Backhoe
(See Abbreviation List Attached)

GEOLOGIC PIT LOG NO. 12
2/3 Distance to Park Way on S. Side Cypress
Pit Location between Park Way & Beach Ave.

Project Moss Beach
Tract San Mateo Co.
Date 9/22/71

ATTITUDES		ENGINEERING GEOLOGY DESCRIPTION		PHYSICAL CONDITION	COMMENTS
	(4)	"B" Horizon	Black silty clay-rich soil		
	(3)	"C" Horizon	Grey sandy silt		
	(2)	Terrace	Olive-green clay-rich terrace debris	Wet	
N25E, 5°NW	B (1)	C Sd.	Tan coarse sand and gravel, irregular upper contact		NATURAL SLOPE

Scale - 1" = 5' NE GRAPHIC REPRESENTATION Pit Trend = N31°E



GEOLOGIC PIT LOG NO. 12

Logged by [redacted] Cotton
Notes by [redacted] Cotton
Type of Rig 18" Backhoe
(See Abbreviation List Attached)

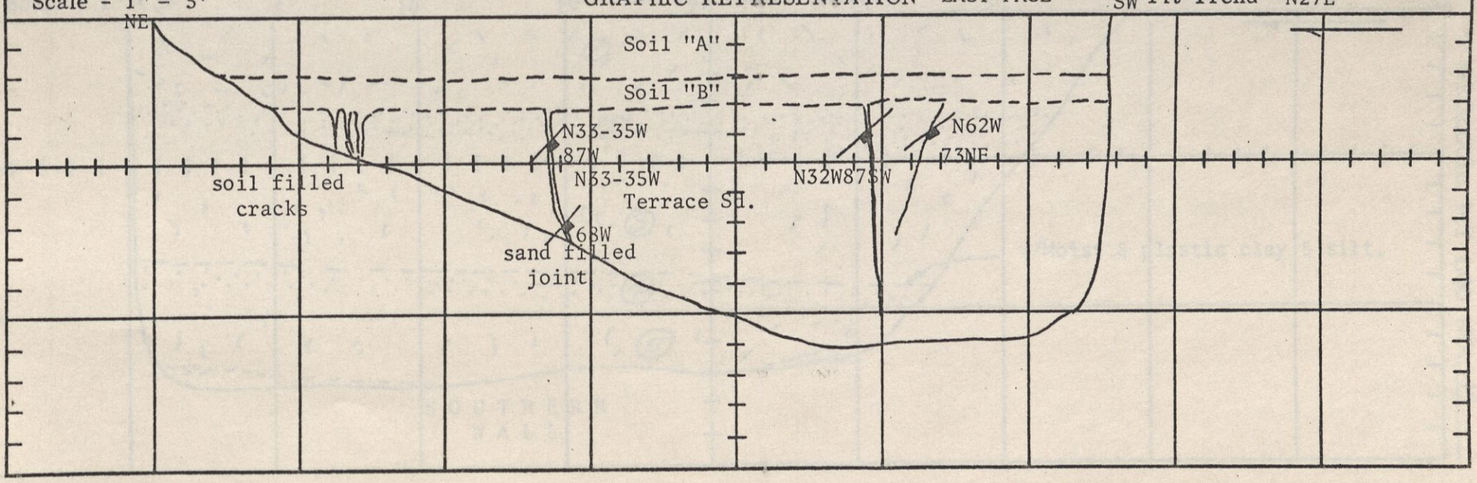
GEOLOGIC PIT LOG NO. 13
NE of Corner of Park Way and Cypress
Pit Location

Project Moss [redacted]ch
Tract San Mateo Co.
Date 9-23-71

ATTITUDES		ENGINEERING GEOLOGY DESCRIPTION		PHYSICAL CONDITION	COMMENTS
		Soil "A"	Dark-brown clayey silt soil	Damp, soft	
N62W, 73NE	J	Soil "B"	Gray sandy soil	Damp, firm	
(N32W, 87SW)	J				
N33-35W, 87-68°W	J	Terrace Sd	Red-brown clayey sand poorly bedded	Damp to wet firm	
					NATURAL SLOPE

Scale - 1" = 5'

GRAPHIC REPRESENTATION EAST FACE



F. BEACH LEIGHTON & ASSOCIATES

GEOLOGIC PIT LOG NO. 13

Logged by [illegible]ann & Cotton
Notes by [illegible]ann
Type of Rig Backhoe
(See Abbreviation List Attached)

GEOLOGIC [illegible] LOG NO. 14
Cypress and Beach Way
Pit Location

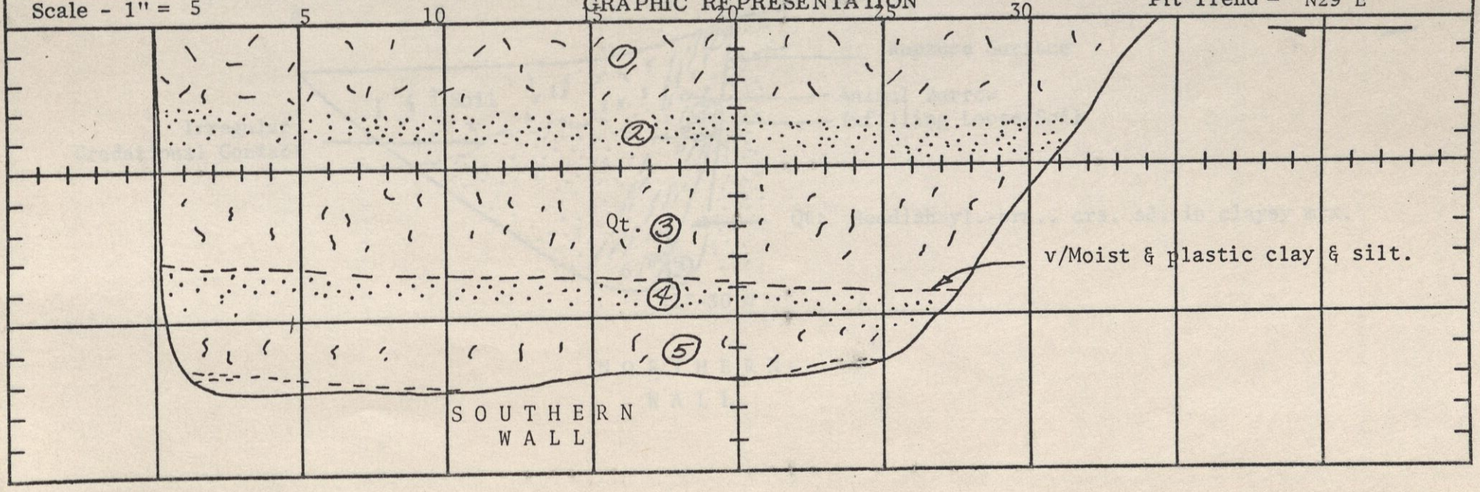
Project Moss Bea[illegible]
Tract San Mateo Co.
Date 9/28/71

ATTITUDES	ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION	COMMENTS
N60±°W,4°N B	(1) Soil: Dk.brn., clay-rich, root hairs.	Soft-Firm, Damp, Moist at 4'	
	(2) Qt: Lt. gy-brn.to yl-brn., crse sd & pebbles, forms resis. marker on bluff face, continuous, not faulted.	Firm-Hard Moist	
	(3) Qt: Greenish-gy, silt, clay-rich, 10% scat. Qtz. Pebbles, feldspar clasts have been wea. to clay, scat. root hairs and dk. organic lace work, highly wea. Qt.	Soft - Firm v/Moist.	
	(4) Qt: a.a., 30% crs. sd.	Firm, Moist	NATURAL SLOPE
	(5) Qt: As 3 above. Silty-clayey, greenish clay blebs. Grades to blue-gy. unoxidized silty-clay at 12'.		2°NE
	NOTES: 1 Highly weathered Qt. 2 No flowing H_2O 3 No faults or fractures.		

Scale - 1" = 5

GRAPHIC REPRESENTATION

Pit Trend = N29°E



GEOLOGIC PIT LOG NO. 14

F. BEACH LEIGHTON & ASSOCIATES

Logged by [illegible]nn
Notes by [illegible]nn
Type of Rig Backhoe
(See Abbreviation List Attached)

GEOLOGIC P[illegible] LOG NO. 15
Lot 3, Parcel 219
Pit Location

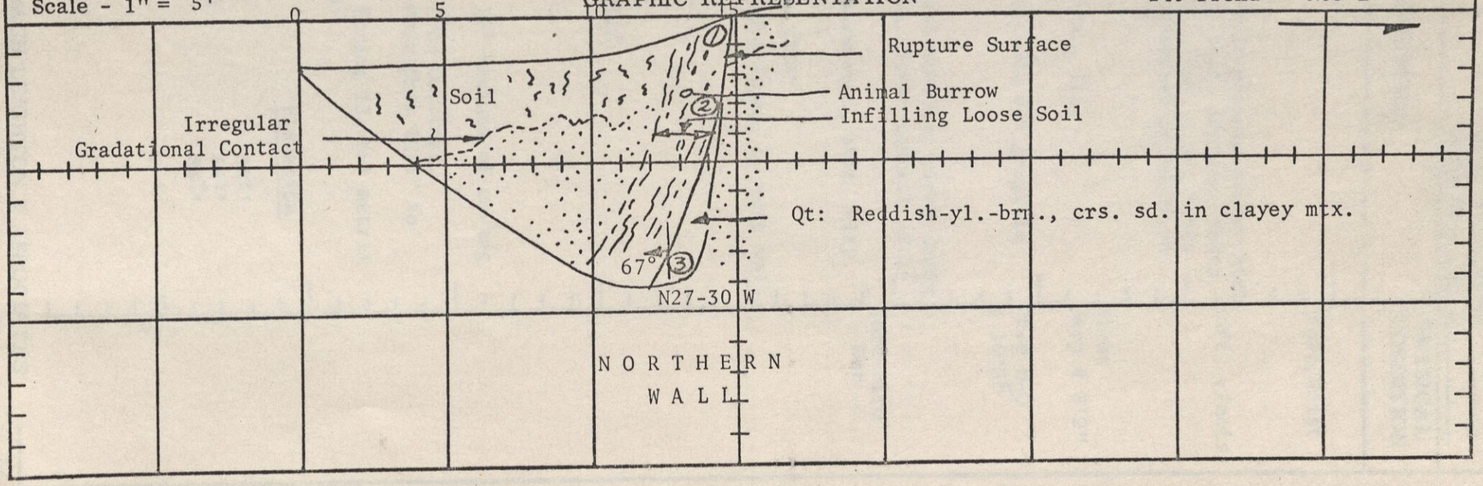
Project Moss Be[illegible]
Tract
Date 9/28/71

ATTITUDES	ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION	COMMENTS
① RS N27W,d75°W	Soil: Dk. brn., silty, w/scat. pebbles, root hairs	Soft Dry in upper 12" Damp below 12"	Rupture Surface in Qt. is well-developed and loose soil has fill in where a crack formerly existed.
② RS N-S,d85°W			
③ RS @ 9' N27-30W,d67°W	Qt: Reddish brn.-yl-brn., crs. sd w/clayey mtx. Brown soil along fracture	Firm, Damp	
			NATURAL SLOPE
			Lot pad slopes 2-4° Break in slope @ fract is 10-15°

Scale - 1" = 5'

GRAPHIC REPRESENTATION

Pit Trend = N65°E



F. BEACH LEIGHTON & ASSOCIATES

GEOLOGIC PIT LOG NO. 15

Top Hole Elev. 98±'
Hole Dia. 24"
Type of Rig Bucket Auger
(See Abbreviation List attached)

GEOLOGIC DRILLING LOG NO. 1

Bernal and Park Ave.
Location of Hole
Sheet 1 of 1

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

ATITUDES	Log	ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION
	Orientation W E		
		SOIL: Dk. brn, clayey.	Soft,Moist
	Qt.	Lt.brn-gy.brn, qtz. clasts in plastic clayey mtx. abdt. root hairs & fibers, scat. decaying roots, putrid odor, fracts coated w/brn. clay, roots grown along fracts., no preferred orientation. Crs. sd. and pebbles to 7'.	Soft, v/moist
5			
			First Seep @ 8'2"
9'8"		SD: Lt.brn., med. gr.,mot.,mica., fri. Highly Mica. @ 8'	
10			Free H_2O @ 10'5"
F N30°W,d 90		GVL: Reddish brn., slt. clasts, rdd. 60% granitic clasts, fri.	
	10'9"		
Bell 2' into side of W wall		SD: (a.a.), Lt. gy.-brn.	
		GVL: (a.a.), Lt. brn.,rdd., slt. cobbles, clean sandy mtx., upper contact horiz., lower contact 12:1± (26°) E.	
15			Soft-Firm' Wet
	Gr.	Lt.brn., granodiorite, decomposed, abdt. clay, white clay along faultlets.	
Apparent strike & dip N 40°W,d 20 60°E		Blue-gy, unoxidized below 13'6"	
		Clay shear surface, well-developed, on west wall, hole belled.	
So.side of hole			
		Top of bell on west wall	
		Top of standing H_2O @ 24'2"	
25			
		TD: 25'6"	

NOTES:

1. Not logged below 15' because of caving and H_2O.
2. Logged below 15' from cuttings.
3. H_2O flowing into hole from 10'5" to 24'2" .
4. Upper QT is like Boring 13, but matrix contains more clay.

	Elevation
Base of Terrace (Sand)	88±'
Top of Bedrock (Granite)	88±'
H_2O @	88±'

F. BEACH LEIGHTON & ASSOCIATES

41

Top Hole Elev. 105±'
Hole Dia. 24"
Type of Rig Bucket-Auger
(See Abbreviation List attached)

GEOLOGIC DRILLING LOG NO. 2

Ocean Ave. at Bernal
Location of Hole
Sheet 1 of 1

Project Moss Beach
Tract
Date 9/25/71
Logged by L. Cann
Notes by L. Cann

ATTITUDES	Log	ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION
	Orientation W E		
	Soil	Dk.brn-med.brn, clayey mtx.	Firm, Dry
		Gradational contact	
		Transition zone	
		Gradational contact	
J N12-15°W,d,84°E fracture 3'4"	Qt	Red brn, med-crs-gr, sd, clayey mtx, scat. pebbles, less clay with depth	Soft, Moist
5			
6'2"		SD: Lt brn, med.gr., mica, fri, mot. w/FeO staining, lent. mica beds	Soft v/Moist
		1/2" mica-rich bed	
B N85°W,d,5°S		SD: a.a., fri.	
		SD: lt.brn., crs.gr., scat. pebbles	
10			
		caving	
11'9"		SD: a.a.	
		GVL: lt.brn., 60% slt.clasts	Standing H_2O at 13'10"
	Slt.	Dk.brn-gy, mass., highly frac., conc. fract.	Firm-Wet
15			
		Notes:	
		1. Not logged in the hole below 13' because of strong flow of H_2O. Logged from cuttings below 13'.	
20		2. No flowing H_2O at qt. contact.	
		3. H_2O enters hole from joints in the siltstone.	
25		H_2O at 91.0 elev.	
		Base of Qt 91.0 elev.	
		Top of Tp 91.0 elev.	
30			
35			
39		39' Bottom of hole	

F. BEACH LEIGHTON & ASSOCIATES

Top Hole Elev. 102.0'
Hole Dia. 24"
Type of Rig Bucket Auger
(See Abbreviation List attached)

GEOLOGIC DRILLING LOG NO. 3

Madrone @ Del Mar Ave.
Location of Hole
Sheet 1 of 1

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

ATTITUDES	Log Orientation W E	ENGINEERING GEOLOGY DESCRIPTION	PHYSICAL CONDITION
		SOIL: Dk.brn.,v/clay-rich, abdt. root hairs & fibers. Desication crack, E. wall, 1/4" wide	Firm, Dry-Damp
	3'3"	Grada. zone, soil above and QT below	
	4'		Soft-Firm, Moist
5	QT.	SD: Reddish-brn, crs. gr., in clayey mtx., 2' thick. FeO stains, dk.brn. clay coatings along scat. fracts, roots	
	6'		
	6'6"		Standing H_2O (Fresh)
		SD: Lt.brn., clayey	
		SD: Lt.brn., crs. gr. sdy. mtx., scat. pebbles, slight caving.	
10			
15			
	6"	TD: Bottom of hole.	

NOTES:

1. Not logged in hole below 7' because of water and caving.
2. Logged from cuttings to TD.
3. Loose sand at base of terrace and strong flow of water prevented deeper drilling.

H_2O @ 95' Elev.

F. BEACH LEIGHTON & ASSOCIATES