BENT 2 RIGHT

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

ROTARY FIELD NOTES

TL-1271 (REV. 6/95)

ENGINEERING SERVICE CENTER

STRUCTURES FOUNDATIONS BRANCH

BORING NUMBER
B-00-1

DATE
9-19-00

DIST.	CO.	RTE.	P.M.
11	SD	56	KP 3.3/10.1

BRIDGE NAME
Rancho Santa Fe Farms O.C.

BRIDGE NUMBER
57-1080

E.A. NUMBER
11-172821

CREW
L. Wilson, L. Sepulveda, M. Mullin

EQUIPMENT	C.H.C. NUMBER
CS-2000	6832

Automatic Hammer

Geo M. Pagenkopp, E. Neupert

SHEET
1 of 9

FM 92 1528 M

ROTARY FIELD NOTES

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BORING NUMBER

B-00-1

LOCATION

℄ 82+ 83.2m "A" LINE

TOP HOLE ELEVATION

93.65m Elev.

ROTARY FIELD NOTES

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SPT "C" Prefix = Field Blow Count Correction for Dietrich Auto Hammer.

GWS	DATE		GWS		DATE		LOG	DESCRIPTION (density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
DEPTH	**TOOL**	**S #**	**BLOWS PER FOOT**		**REMARKS**			
					Start w/ 94mm Punch			
					Core	0		Silty Sand (SM), medium dense,
0 - 5.0 ft	3.75"	1						reddish brown, moist
	94mm P							
1.5/1.98								
5.0 - 6.5 ft	1.4"	2	26, 32, 38	70		0.61		
				C105		2.0 ft		Sandstone, very pale orange,
								MODERATELY weathered, soft, fine-
					at 9.0 ft switch to ◇			to medium-grained sand (Poway
6.5 - 10.0 ft	3.75"	3			surface set			+ La Jolla Groups)
					last 1' 100% Rec. 0% RQD			(at 7.0 ft) dark yellowish orange
3.0/3.5								to moderate yellowish brown,
10.0 - 11.5 ft	1.4"	4	19, 43, 48	91				moderately weathered, MOD. SOFT.
				C137				
11.5 - 15.0 ft	3.75	5			Rec 100%			
4.6/5.0					RQD 0%			
15 - 16.5 ft	1.4"	6	33, 22, 34	56	mottled, occ. well cemented			
				C84	zones			

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DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS		
							3^{65}
							(at 12.0 ft) mottled dark yellowish
16.5-20.0ft	3.75"	7			Rec = 100%		orange to light medium gray.
			SAMPLE		RQD = 0%		Occassional well cemented beds
	CORROSION =		PULLED 16.7 - 18.7 FT		SAA		less than 3 inches thick.
			19.0 - 19.7 FT				5^{2}
6^{2}							(at 17.0 ft) moderately hard with
6' 20.0-20.4	1.4"	8	50/.4	E125			thin interbeds of siltstone
				C188			
							6^{1}
20.4-25.0ft	3.75"	9	Samples		Rec = 4.6/4.6 = 100%		(at 20.0 ft) no siltstone,
			PULLED 20.5 - 21.3		RQD = .5/4.6 = 11%		
			21.5 - 22.2		fractures btn 23.5 &		7^{3} 7^{4}
					24.4 2 @ 30°		(from 23.5 to 24.4 ft) light medium gray,
7' 8^{1}							slightly weathered, hard, cemented
25.0-26.5ft	1.4"	10	18, 23, 35	58			with $CaCO_3$
				C87			

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DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS
26.5-30.0ft	3.75	11	Samples Pulled		Rec = 3.5/3.5 = 100%
					RQD = 0/3.5 = 0 %
			28½ - 29½ ft		mottled SAA Bed < 3"
9½ 9⅙					thick v.h.
30.0-31.5ft	1.4"	12	22, 30, 45	75	
				c113	
31.5-35½ ft	3.75"	13			Rec. 3.5/3.5 = 100%
					RQD 0/3.5 = 0%
					mod. soft, mottled
					SAA w/ well cemented beds
10⅞ 11½					
35½-36½ ft	1.4"	14	23, 36, 50	86	Rec 100%
				c129	Fn Sand

DESCRIPTION

LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
	9⅙
	(at 31.5ft) moderately weathered, moderately soft

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DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS
36^{5} - 40^{0} ft	3.75"	15			Rec = $3^{5}/3^{5}$ = 100%
					RQD = $^{0}/3^{5}$ = 0%
					Pred. med.-sand
12^{2} 12^{3}					mod Y. Brown - Y. orange
40^{0} - 40^{5}	1.4"	16	50/.5	100	
				c150	
40^{5} - 45^{0}	3.75"	17			Rec = 4.5/4.5 = 100%
			Sample Pulled		RQD = 0.35/4.5 = 10%
			42^{8} to 43^{3}		2 fractures within hard zone
					irregular ~ 20-25°, 1 incipient
13^{7} 14^{0}					~ 30°
45^{0} - 45^{9} ft	1.4"	18	37, 50/.4	125	
				c188	

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DESCRIPTION

LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
	10^{7} 11^{0}
	(from 35^{0} to 36^{0} ft) light medium gray, predominately fine-grained sand
	11^{0}
	(at 36^{0} ft) medium-grained sand
	12^{3} 12^{6}
	(From 40^{5} - 41^{9} ft) medium light gray, slightly weathered, hard, cemented with $CaCO_3$. Moderately fractured, fracture surfaces lined with iron oxide.

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DEPTH	**TOOL**	**S #**	**BLOWS PER FOOT**		**REMARKS**		
							13^{9}
							(at 45^{5} ft) pale yellowish brown,
45^{9}-50^{0} ft	3.75"	19			Rec. 4.1/4.1 = 100%		MODERATELY weathered, moderately soft
			Sample Pulled		RQD 0/4.1 = 0%		fine- to medium-grained sand.
			45^{9} to 47^{6}		pale y.b. mod. soft		
			corrosion		thin hard spot < 3"		
15^{2} 15^{7}							
50^{0} 51^{4} ft	1.4"	20	30, 43, 50/.4	E105			
				C158			
51^{4}-55^{0} ft	3.75"	21			Rec 3^{6}/3.6 = 100%		
					RQD 0/3.6 = 0%		
							16^{9}
							(at 55^{5} ft) occassional 1.0 inch thick
							beds of siltstone, brownish gray,
							moderately weathered, moderately
16^{8} 17^{1}							soft.
55^{0} ft-56^{2} ft	1.4"	22	31, 43, 50/.2	E168			
				C252			

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DEPTH	**TOOL**	**S #**	**BLOWS PER FOOT**		**REMARKS**		
							17^{1} 17^{3}
							(From 56^{2} to 56^{9} ft) light medium gray,
56^{2} - 60^{0} ft	3.75"	23	Samples Pulled		Rec 2.2/3.8 = 58%		slightly weathered, hard
			56^{9} - 57^{5}		RQD .55/3.8 = 14%		
			57^{5} - 58^{4}				17^{3}
							(at 56^{9} ft) no siltstone.
18^{3} 18^{7}							
60^{0} - 61^{4} ft	1.4"	24	34, 42, 50/.4	E105			16^{7} 18^{9}
				c158			(From 61.4 to 61.9 ft) light grey,
							slightly weathered hard.
61^{4} - 65^{0} ft	3.75"	25			Rec 3.6/3.6 = 100%		
					RQD 0.45/3.6 = 12%		
					Orange	19^{3}	
						63.2 ft	Siltstone, dark yellowish orange
							to Grayish olive, slightly
19^{8} 20^{1}							to moderately weathered,
65^{0} - 66^{0} ft	1.4"	26	33, 50/.5	E100			moderately hard, few scattered
				c150			cut and fill structures exhibiting
							thin laminae. (Poway & La Jolla
							Groups)

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DEPTH	**TOOL**	**S #**	**BLOWS PER FOOT**		**REMARKS**			
20.1 21.3								19.6 (at 64.2 ft) dark gray, massive.
66.2 - 70.2 ft	3.75"	27			Rec 3.6/4.0 = 90%			
			Pulled Samples		RQD /4.0 = 0%			
			66.2 to 66.7		Change to alternating			
			66.7 to 67.2		Sandstone &			
					Siltstone at 67.8			
					Sample pulled 66.2 to 67.2	20.7 67.8 ft		
21.3 22.9								Sandstone, dark yellowish orange to light medium gray, moderately WEATHERED, moderately hard to moderately soft with less than 0.4 ft (122 mm) thick interbeds of Siltstone, grayish olive, moderately weathered, moderately hard. (Poway + La Jolla Groups)
70.2 - 75.2 ft	3.75"	28			Rec 5.0/5.0 = 100%			
					RQD 0/5.0 = 0%			
			Sample Pulled		SS & Silt S interbed			
			73.2 to 75.2					
			Corrosion					
22.9 23.8								
75.2 - 75.8 ft	1.4"	29	28, 50/3	E167				
				C251				

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DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS
23.1 24.4 75.8 - 80.0 ft	3.75"	30			ReC 4.2/4.2 = 100%
					RQD 0.9/4.2 = 21%
25.9 80.0 ft - 85.0 ft	3.75"	31			REC 5.0/5.0 = 100%
			Samples Pulled		RQD 0/5.0 = 0%
			81.7 to 82.5		
			82.5 to 83.2		
26.2 85.0 to 85.9	1.4"	32	34, 50/.4	E125	
				C188	

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1.8-3.4

DESCRIPTION

LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
23.0 75.4 ft	Sandstone, light olive gray, FRESH TO SLIGHTLY WEATHERED, , moderately hard to moderately soft. Predominately medium-grained sand. (POWAY + LA JOLLA GROUPS) (From 23.1 75.8 to 23.4 76.7) light medium gray, slightly weathered, hard, Cemented with $CaCO_3$.
24.9 81.8	Siltstone, grayish olive becoming medium gray at 82.1 feet, moderately weathered, moderately hard, (POWAY + LA JOLLA GROUPS) 25.0

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DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS
26.2 27.4 85.9 - 90.0 ft	3.75	33			Rec 4.0/4.1 = 100%
					RQD 0/4.1 = 0%
					Color Change to
					Lt Med. Gray
29.0 90.0 - 95.0 ft	3.75	34			Rec 5.0/5.0 = 100%
					RQD 0/5.0 = %
			←		Sample Pulled 93.0-95.0 ft
29.4 95.0 - 96.4		35	30, 46, 50/.4	E109	
				C164	
30.5 96.4 - 100.0		36			Rec = 2/3.6 = 55%
			Sample Pulled		RQD = 0/3.6 = 0%
			96.0 to 97.5 97.5 to 98.2		Sample Pulled 96.8 - 98.2 ft

End hole @ 100ft on 9/20/00 at 845 AM

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LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
25.4 83.4 ft	Sandstone, mottled light olive gray to dark yellowish orange, moderately WEATHERED, moderately hard. Rounded Cobble at 25.5 83.8 ft. Predominately medium-grained sand. (POWAY & LA JOLLA GROUPS)
	26.1 (at 85.5 feet) light olive gray
	28.5 (at 93.4 ft) grayish orange
	BOH (100.0 ft) 30.5 meters

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