BENT 2 LEFT

ROTARY FIELD NOTES

TL-1271 (REV. 6/95)

ENGINEERING SERVICE CENTER

STRUCTURES FOUNDATIONS BRANCH

BORING NUMBER
B-00-2

DATE
9/20/00

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, M. Mullins, L. Sepulveda

EQUIPMENT	C.H.C. NUMBER
CS 2000	6832

Automatic Hammer

Geo E. Neupert / M. Pagenkopp

SHEET
1 of 9

FM 92 1528 M

ROTARY FIELD NOTES
TL-1271 (REV. 6/95)

BORING NUMBER
B-00-2

LOCATION
℄ 82+73.4m

TOP HOLE ELEVATION
93.75 m Elev.

GWS	DATE	GWS	DATE
72.25 m Elev.	1/18/01		

DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS
					STRATOPAC BIT SET UP AT 0930 ON BORING 00-2
0° - 5°	3.75"	1			Rec = 0/5° = 0% RQD = 0/5° = 0%
1.5 1.8 5° - 5.9	1.4"	2	31, 50/.4	E125 C188	
5.9 - 10°	3.75	3			Rec = 4'/4' = 100% RQD = 0/4' = 0%
3.0 3.5 10° - 11.5 ft	1.4"	4	8, 22, 36	58 C87	

ROTARY FIELD NOTES
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7.5 FT Core Barrel

SPT Prefix "C" = Field Blow Count Corrected For Dietrich Autohammer

DESCRIPTION

LOG	(density, color, grain size, SOIL or ROCK type, degree of saturation, etc.)
0.61 2.0 FT	SILTY SAND (SM) MEDIUM DENSE, LIGHT BROWNISH GRAY, DRY, PLANT ROOTS
	SANDSTONE, VERY PALE ORANGE, SLIGHTLY WEATHERED, SOFT TO VERY SOFT, FINE GRAINED (POWAY AND LA JOLLA GROUPS)
	1.8 2.4 AT 5.9 FT; DARK YELLOWISH ORANGE TO 8.0 FT THEN LIGHT TO VERY LIGHT GRAY, WITH YELLOWISH ORANGE CASTS, SCATTERED $CaCO_3$ HEALED FRACTURES TO 3mm WIDE VERY FINE GRAINED SAND, MODERATELY SOFT.
3.1	AT 10.3 FT COLOR CHANGE TO YELLOWISH BROWN WITH GRAY MOTTLING, INCREASE IN SILT CONTENT.

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ROTARY FIELD NOTES

TL-1271 (REV. 6/95)

BORING NUMBER B-00-2

LOCATION ℄ 82+73.4m

TOP HOLE ELEVATION 93.75m

GWS	DATE		GWS		DATE	LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
DEPTH	**TOOL**	**S #**	**BLOWS PER FOOT**		**REMARKS**		
							3 5/
11 5/ - 15 0/	3.75"	5			Rec = 3 5/ 3 5/ = 100%		AT 11 5/ FT ; LIGHT GRAY WITH DARK YELLOWISH
					RQD = 0/3.5 = 0%		ORANGE MOTTLING, DECREASE IN SILT
							CONTENT, FINE TO MEDIUM - GRAINED SAND
							MODERATELY SOFT.
4 6/ 15 0/ - 16 5/	1.4"	6	13,18,23	41			4 6/
				c62			AT 15 0/ FT ; COLOR CHANGING TO MODERATE
							YELLOWISH BROWN, INCREASING SILT AND VERY
							FINE SAND CONTENT.
16 5/ - 20 0/	3.75"	7			Rec. 2 0/ / 3.5 = 74%		5 4/
			Pulled Samples 17 2/ to 18 5/		RQD 0/3.5 = 0%		AT 17 2/ FT COLOR CHANGE TO LIGHT GRAY WITH
			18 5/ to 19 3/				SCATTERED DARK YELLOWISH ORANGE MOTTLING.
6 1/ 6 6/							6 4/
20 0/ - 21 5/	1.4"	8	17,24,32	56			AT 21 0/ COLOR CHANGE TO LIGHT BROWNISH
				c84			GRAY

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93.75m

GWS	DATE		GWS		DATE	LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS		
6b 7b 21.5 - 25.0	3.75	9			Rec = 3.5/3.5 = 100% RQD = 1.7/3.5 = 20%		6b 6g AT 22.4 FT TO 22.7 FT $CaCO_3$ CEMENTED, HARD, THEN SOFTER FROM 6g 22.7 TO 7g 24.0, THEN SLIGHTLY WEATHERED, VERY HARD TO END OF RUN.
7b 8b 25.0 - 26.5	1.41'	10	36,34,50	84 c126			7b AT 25.0 FT, MODERATELY WEATHERED, MOD. SOFT TO SOFT, AT 26.2 FT COLOR CHANGE TO LIGHT GRAY AND GRAIN SIZE INCREASE TO MEDIUM SAND. 8b
26.5 - 30.0	3.75	11			Rec = 3.5/3.5 = 100% RQD = 1.4/3.5 = 11%		8b AT 26.5 FT CONSISTENT COLOR CHANGES FROM LIGHT GRAY TO MOD. YELLOWISH BROWN AND DARK YELLOWISH ORANGE, FROM 8g 27.0 - 8h 27.5 $CaCO_3$ CEMENTED, SLIGHTLY WEATHERED, HARD, THEN 8b MOD. WEATHERED, MOD HARD TO 28.0 FT, THEN SOFT TO END OF RUN.
9b 30.0 - 31.5	1.4"	12	24,34,50	84 c126			9b AT 30.0 FT PREDOMINATELY PALE BROWN

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93.75m

GWS	DATE		GWS		DATE	LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
DEPTH	**TOOL**	**S #**	**BLOWS PER FOOT**		**REMARKS**		
							9½
31.5' - 35'	3.75"	13	Pulled Samples 33.5' to 34.2' 34.3' to 35'		Rec = 3.5/3.5' 100% RQD = 0/3.5' : 0%		AT 31.5' FT; MODERATELY WEATHERED, MODERATELY SOFT; PALE BROWN TO DARK YELLOWISH ORANGE, TO LIGHT GRAY COLOR VARIATIONS THROUGHOUT RUN.
10.7' 11½' 35' - 36.5'	1.4"	14	19,31,40	71			10.7' AT 35' FT; PREDOMINATELY LIGHT BROWNISH GRAY, GRAIN SIZE DECREASING TO FINE SAND.
				C107			
36.5' - 40'	3.75	15			Rec = 3.5'/3.5' = 100% RQD = 0/3.5' = 0%		11½' AT 36.5' FT; COLOR VARIES FROM PALE YELLOWISH BROWN TO DARK YELLOWISH ORANGE, GRAIN SIZE INCREASING TO MEDIUM GRAINED SAND.
12.2' 12.6' 40' - 41.3'	1.4"	16	23,40,50/3	E123	"Same As Above"		
				C185			

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93.75m

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ROTARY FIELD NOTES
TL-1271 (REV. 6/95)

DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS	LOG	DESCRIPTION (density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
41.3 - 45.0	3.75	17	Pulled Samples 43.6 to 44.3; 44.3 to 45.0		Rec = 3.5/3.5 = 100%; RQD = 0/3.5 = 0%		12.6 AT 41.3 FT; MODERATELY SOFT TO SOFT.
13.7 45.0 - 14.0 46.0	1.4"	18	33, 50/.5	E100 C150			13.7 AT 45.0 FT; PREDOMINANTLY LIGHT BROWN IN COLOR, SOFT, FINE-GRAINED SAND.
46.0 - 50.0	3.75	19			Rec = 3.5/4.0 = 88%; RQD = 0/3.5 = 0%		14.2 AT 46.7 FT; COLOR CHANGES TO PALE YELLOWISH BROWN, MEDIUM GRAINED SANDS.
15.2 50.0 - 15.6 51.2	1.4"	20	28, 43, 50/.2	E168 C252	"SAME AS ABOVE"		

ROTARY FIELD NOTES

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LOCATION: ℄ 82+73.4m

TOP HOLE ELEVATION: 93.75m

GWS	DATE		GWS		DATE	LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
DEPTH	**TOOL**	**S #**	**BLOWS PER FOOT**		**REMARKS**		
							$15\frac{6}{12}$ $15\frac{8}{12}$
$51\frac{2}{12}$ - 55^{0}	3.75"	21			Rec = $3\frac{6}{8}$" = 95%		FROM $51\frac{2}{12}$ TO 52^{0} FT SLIGHTLY WEATHERED,
					RQD = $\frac{6}{36}$ = 16%		HARD, THEN SOFT TO END OF RUN.
			(PULLED SAMPLES 53.6-54.3 FT				
			54.3 - 55.0 FT)				
$16\frac{6}{12}$ $17\frac{2}{12}$							$17\frac{1}{12}$
55^{0} - $56\frac{4}{12}$	1.4"	22	23, 36, 50/4	E99	"SAME AS ABOVE"		AT 56^{0} FT; LIGHT TO MED LIGHT GRAY
				c149			MOTTLING
							$17\frac{2}{12}$
$56\frac{4}{12}$ - 60^{0}	3.75"	23			Rec = $3\frac{6}{36}$ = 100%		AT $56\frac{4}{12}$ FT; PREDOMINANTLY PALE
					RQD = $0/3^{0}$ = 0%		YELLOWISH BROWN,
							SOFT TO VERY SOFT.
							$18\frac{3}{12}$
$18\frac{3}{12}$ $18\frac{7}{12}$							AT 60^{0} FT; SCATTERED DARK YELLOWISH ORANGE
60^{0} - $61\frac{4}{12}$	1.4"	24	26, 39, 50/4	E101			MOTTLING.
				c152			

ROTARY FIELD NOTES

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LOCATION ℄ 82+73.4 m

TOP HOLE ELEVATION 93.75 m

GWS	DATE		GWS		DATE		LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS			
18.7 19.8 61.4 - 65.0	3.75	25			Rec = 33.5/36 = 92%	19.2 63.0 FT		
					RQD = 0/36 = 0%			SILTSTONE, MEDIUM GRAY TO MED. DARK GRAY, MODERATELY WEATHERED, MOD HARD, CONTACT WITH SANDSTONE HORIZONTAL (POWAY AND LA JOLLA GROUPS)
			Samples Pulled		63.3 - 64.0 FT			
					64.0 - 64.2 FT			
19.8 21.3 65.0 - 70.0	3.75"	26			Rec = 45.5/60 = 90%	20.4 66.8 FT		
					RQD = 0/60 = 0%			SANDSTONE, DARK YELLOWISH BROWN GRADING TO PALE YELLOWISH BROWN WITH SCATTERED MED. LIGHT GRAY MOTTLING, MODERATELY WEATHERED, MOD. SOFT TO SOFT, GRADES UP TO MEDIUM GRAINED SAND. CONTACT BETWEEN SILTSTONE AND S.S. HORIZONTAL (POWAY AND LA JOLLA GROUPS)
70.0 - 70.9	1.4"	27	39,50/4"	E125	"Same As Above"			21.6 22.1
21.6 22.9 70.9 - 75.0	3.75	28		C188	Rec = 39.5/48 = 73%			FROM 70.9 - 72.5 FT MOD. WEATHERED, MOD. HARD, THEN SOFT, TO 74.3 FT; SILTSTONE LAYER 74.3 FT TO 74.6 FT THEN SANDSTONE, MEDIUM GRAINED SAND. 22.6 22.7
			Sample Pulled 70.9 - 71.4		RQD = 0/48 = 0%			
			71.7 - 72.5					

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TOP HOLE ELEVATION: 93.75m

GWS	DATE		GWS		DATE		
DEPTH	**TOOL**	**S #**	**BLOWS PER FOOT**		**REMARKS**		
75°-80°	3.75"	29			Rec = 2°/5° = 40%	22½ 75½ F	SILTSTONE, ALTERNATING DARK YELLOWISH ORANGE AND MED. GRAY COLOR, MOD WEATHERED, MOD. HARD (POWAY + LA JOLLA GROUPS)
					RQD = 0/5² = 0%	23¼ 75-8 FT	SANDSTONE, PALE YELLOWISH BROWN, MODERATELY WEATHERED, SOFT, MEDIUM-GRAINED SAND. (POWAY + LA JOLLA GROUPS)
24⅛ 80°-81⅝	1.4"	30	32,45,49	94		24⅝ 81¼ FT	SILTSTONE: MEDIUM GRAY, MOD. WEATHERED, MOD. HARD (POWAY + LA JOLLA GROUPS)
				C141		25¼ 83⅞ FT	
81⅝-85°	3.75"	31			Rec = 2³/₃⁵ = 66%		SANDSTONE, DARK YELLOWISH ORANGE, MODERATELY WEATHERED, SOFT, MEDIUM-GRAINED SAND SCATTERED ROUNDED GRAVELS AT 83⁶ F.T 25⅝ (POWAY + LA JOLLA GROUPS)
			SAMPLES PULLED 81⅝-82¼ 82¼-83° FT		RQD = 0/3⅝ = 0%		
25⅜ 85°-90°	3.75"	32			Rec = 3⅝/5° = 70%		25⅜ AT 85° FT; PREDOMINANTLY PALE YELLOWISH BROWN.
					RQD = 0/5° = 0%		
27⅝ 90°-90½	1.4"	33	50/2	E250	"SAME AS ABOVE"		
				C375			

(POWAY + LA JOLLA GROUPS)

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LOG

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93.75m

GWS	DATE	GWS	DATE

DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS
27.5 / 29.0 / 90.2-95.0	3.75"	34			Rec = 2.8/4.8 = 58%
			Sample Pulled 92.2-93.0		RQD = 0/4.8 = 0%
95.0-100.0	3.75"	35			Rec = 5.0/5.0 = 100%
					RQD = 0/5.0 = 0%
					"Same As Above"
			Sample Pulled 95.7 to 96.3		Sample Pulled 95.7-96.3
30.5 / 30.8 / 100.0-101.0	1.4"	36	30, 50/.5	E100	
				C150	

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DESCRIPTION

LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
	27.5
	AT 90.2 FT; SOFT, MEDIUM GRAINED SAND.
30.8 / 101.0 FT	
BOH	9/20/00