

LEGEND

- ⊕ EXISTING BORING BY LEJMAN, APPROXIMATE LOCATION
- ⊕ LGGI-6
- ⊕ EXISTING WELL, BY LEJMAN, APPROXIMATE LOCATION
- ⊕ LGGI-19
- ⊕ WELL LOCATION, BY LEJMAN, PRIOR TO FAILURE
- ⊕ LGGI-16
- ⊕ BOREHOLE INCLINOMETER, APPROXIMATE LOCATION
- ⊕ BC-8
- ⊕ BOREHOLE INCLINOMETER, PRIOR TO FAILURE
- ⊕ BC-5
- ⊕ SURVEY MONITORING POINT BY BURKETT & WONG, APPROXIMATE LOCATION
- ⊕ AGI-9
- ⊕ PIEZOMETER BY AMERICAN GEOTECHNICAL
- ⊕ LSW-2
- ⊕ TRANSDUCER LOCATIONS, BY LOCKWOOD-SINGH
- ⊕ SLURRY TEST LOCATIONS
- ⊕ DIA
- ⊕ TRACT BOUNDARY
- ⊕ MW & MMW - 2003 PUMP TEST WELLS
- ⊕ BBI - BAGHAI ENGINEERING
- ⊕ TEST PIT BY LEIGHTON 1985
- ⊕ PLB - BORING BY LEIGHTON 1985
- ⊕ LB BORING BY LEIGHTON 1987

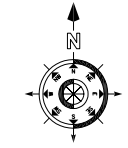
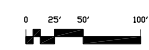
BORING LOG LEGEND

SB	GRADED BEDDING	SB	GRADED BEDDING
B	BEDDING PLANE	B	BEDDING PLANE
J	JOINT PLANE	J	JOINT PLANE
C	CONTACT	C	CONTACT
F	FAULT	F	FAULT
S, SP	SHEAR PLANE	S, SP	SHEAR PLANE
CS	BEDDING SHEAR	CS	BEDDING SHEAR
OT	OVERTURNED	OT	OVERTURNED
V, VS	VERTICAL SHEAR	V, VS	VERTICAL SHEAR
VJ	VERTICAL JOINT PLANE	VJ	VERTICAL JOINT PLANE
NE DP	NE DIP	NW STRIKE	NW STRIKE
NW DP	NW DIP	NE STRIKE	NE STRIKE
SW DP	SW DIP	HORIZONTAL	HORIZONTAL
SE DP	SE DIP	VERTICAL	VERTICAL

- ⊕ FAULTS INTERPRETED BY JAMES EVANS
- ⊕ STRIKE & DIP OF FAULT - DASHED WHERE CONCEALED
- ⊕ STRIKE & DIP OF BEDDING - DASHED WHERE CONCEALED
- ⊕ STRIKE & DIP OF JOINT - DASHED WHERE CONCEALED
- ⊕ BURIED GEOLOGIC CONTACT BY LEIGHTON
- ⊕ SYNCLINES REPORTED BY LEIGHTON
- ⊕ FILL KEY REPORTED BY LEIGHTON
- ⊕ SUBDRAIN
- ⊕ Tso SAN ONOFRE FORMATION
- ⊕ Tcss CAPISTRANO SANDSTONE MAPPED BY LEIGHTON BURIED BY FILL
- ⊕ Tm MONTEREY FORMATION MAPPED BY LEIGHTON BURIED BY FILL
- ⊕ GEOLOGICAL SECTION LOCATION
- ⊕ DIP & STRIKE INFORMATION FROM:
- ⊕ ① AS GRADED GEOTECHNICAL MAP BY LEIGHTON & ASSOCS. 5-82/87
- ⊕ ② GEOTECHNICAL MAP - LEJMAN GEOTECHNICAL GROUP, INC. MEASURED BEFORE OR DURING GRADING

DOWNHOLE LOG INFORMATION

LOG #	DESC.	DEPTH
18-7	⊕	16.0'
32	⊕	21.5'
21	⊕	24.5'



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COMPOSITE GEOLOGICAL MAP
COUNTRY CLUB VILLAS
LAGUNA NIGUEL CALIFORNIA
MAP3 - FAULTS & GEOLOGY
INTERPRETED BY JAMES EVANS
 NOTE: MANY FEATURES ON THIS MAP WERE APPROXIMATED FROM MAPS BY OTHERS
 REVISED 12/12/03

DUPLICATE DOWNHOLE LOGS FOR CLARIFICATION ONLY

LOG #	DESC.	DEPTH	LOG #	DESC.	DEPTH	LOG #	DESC.	DEPTH	LOG #	DESC.	DEPTH
100-1	⊕	35.5'	100-7	⊕	38.5'	100-8	⊕	38.5'	100-14	⊕	42.5'
14	⊕	34.5'	14	⊕	42.5'	32	⊕	21.5'	32	⊕	46.5'
28	⊕	34.5'	5	⊕	43.5'	80	⊕	43.5'	24.5	⊕	72.5'
15	⊕	38.0'	15	⊕	58.5'	40	⊕	63.5'			
15	⊕	38.0'	12	⊕	68.0'	12	⊕	68.0'			
15-15	⊕	38.0'	45	⊕	61.0'	7	⊕	67.0'			
44.6	⊕		22	⊕	65.5'	10	⊕	71.7'			
21	⊕	46.2'	10	⊕	71.7'	10	⊕	71.7'			
			10	⊕	74.1'	7	⊕	75.5'			
			10	⊕	80.7'	10	⊕	80.7'			

DUPLICATE DOWNHOLE LOGS FOR CLARIFICATION ONLY

LOG #	DESC.	DEPTH	LOG #	DESC.	DEPTH	LOG #	DESC.	DEPTH	LOG #	DESC.	DEPTH			
18-4	⊕	8.0'	80-9	⊕	17.5'	17.5'	17.5'	17.5'	18-28	⊕	18.0'			
18	⊕	8.0'	14	⊕	16.5'	16.5'	16.5'	14	⊕	18.0'	14	⊕	6.5'	
30	⊕	10.0'	18	⊕	70.5'	45	⊕	20.0'	32	⊕	21.5'	11	⊕	8.5'
29	⊕	14.0'	13	⊕	70.5'	27	⊕	21.0'	36	⊕	41.0'	28	⊕	9.0'
11	⊕	20.0'	27	⊕	70.5'	72	⊕	22.0'	10	⊕	41.0'	13	⊕	11.0'
9	⊕	20.5'	20	⊕	71'	49	⊕	23.0'	22	⊕	51.0'	77	⊕	14.0'
27	⊕	21.0'	7	⊕	71'	46	⊕	28.0'	13	⊕	15.0'	13	⊕	15.0'
44-608	⊕	22.0'	17	⊕	71.5'	74	⊕	27.0'	15	⊕	16.5'	15	⊕	16.5'
45	⊕	23.0'	25	⊕	71.5'	76	⊕	30.0'	58	⊕	30.0'	13	⊕	22.0'
80	⊕	25.0'	14	⊕	72.0'	48	⊕	32.0'	19	⊕	40.0'	4	⊕	23.5'
27	⊕	31.0'	8	⊕	72.5'	33	⊕	33.0'	24	⊕	32.0'	5	⊕	27.5'
80	⊕	32.0'	25	⊕	72.5'	33	⊕	33.0'	33	⊕	33.0'	12	⊕	31.0'
21	⊕	42.0'	25	⊕	74.0'	19	⊕	34.0'	19	⊕	34.0'	12	⊕	34.0'
24	⊕	42.5'	15	⊕	75.0'	29	⊕	38.0'	29	⊕	38.0'	17	⊕	38.0'
			15	⊕	76.0'	15	⊕	37.0'	44	⊕	40.0'	44	⊕	40.0'
			30	⊕	78.0'	44	⊕	40.0'	44	⊕	40.0'	44	⊕	40.0'
						12	⊕	48.0'	12	⊕	48.0'	12	⊕	48.0'
						5	⊕	53.0'	5	⊕	53.0'	5	⊕	53.0'
						13	⊕	54.0'	13	⊕	54.0'	13	⊕	54.0'
						15	⊕	58.0'	15	⊕	58.0'	15	⊕	58.0'
						17	⊕	58.0'	17	⊕	58.0'	17	⊕	58.0'
						4	⊕	62.0'	4	⊕	62.0'	4	⊕	62.0'
						32	⊕	65.0'	32	⊕	65.0'	32	⊕	65.0'
						24	⊕	67.5'	24	⊕	67.5'	24	⊕	67.5'
						42	⊕	72.0'	42	⊕	72.0'	42	⊕	72.0'
						26	⊕	72.0'	26	⊕	72.0'	26	⊕	72.0'
						35	⊕	74.0'	35	⊕	74.0'	35	⊕	74.0'
						21	⊕	76.0'	21	⊕	76.0'	21	⊕	76.0'
						16	⊕	76.0'	16	⊕	76.0'	16	⊕	76.0'
						24	⊕	78.0'	24	⊕	78.0'	24	⊕	78.0'
						15	⊕	78.0'	15	⊕	78.0'	15	⊕	78.0'