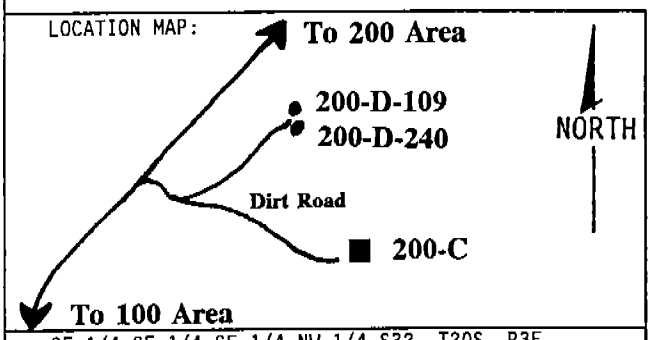
LITHOLOGIC LOG

LOCATION MAP:



SE 1/4 SE 1/4 SE 1/4 NW 1/4 S32 T20S R3E

SITE ID: NASA-WSTF LOCATION ID: 200-C

SITE COORDINATES (ft.):

N 225221.27 E 416682.99

GROUND ELEVATION (ft. MSL): 4810.68(BC)

STATE: NEW MEXICO COUNTY: DOÑA ANA

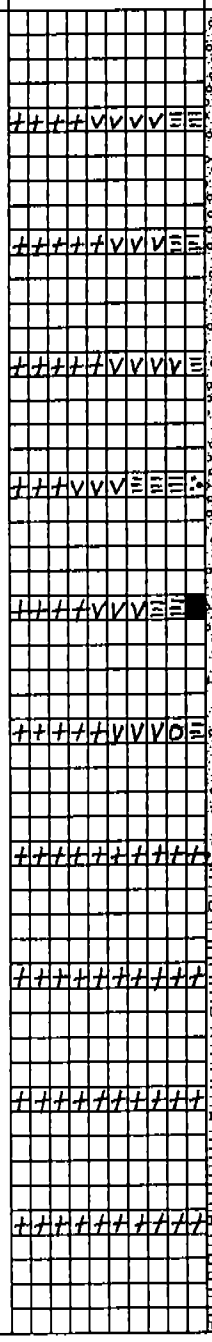
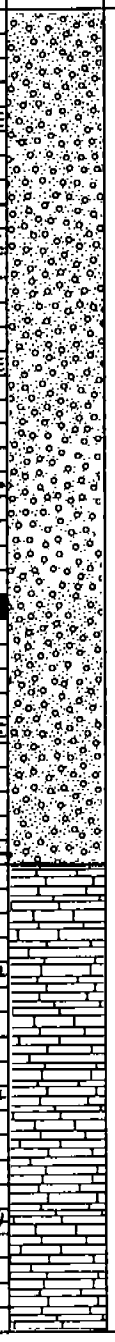
DRILLING METHOD: Air Foam Rotary

DRILLING CONTR.: Larjon Drilling Co

DATE STARTED: 12/21/92 DATE COMPLETED: 01/29/93

FIELD REP.: D. Menzie, J. Kirby

COMMENTS: Drill air foam rotary 0'-47' with 7 7/8" tricone button bit. Set 47.76' of 5" steel surface casing. Limestone bedrock at 35'. Drill air foam rotary 47' to 292' with 4" air hammer bit. Total Depth is 292'.

Depth	Visual %	Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description
5 10 15 20 25 30 35 40 45 50			Timed by driller begin at 46' 5	Cuttings Grab Sample every 5'	0'-35' Alluvium (Santa Fe Group): Samples are light brownish gray (5 YR 6/1). Cutting clasts are multicolored. Cutting size ranges from less than 0.1 inches (silt and clay size) to 0.7 inches. Cuttings are subrounded to angular with subrounded formation grains comprising 10 to 50% of samples. Subangular to angular cuttings are pebbles and cobbles broken during drilling. The alluvium is a poorly sorted, pebble to boulder, unconsolidated to semi-consolidated, polygenetic conglomerate. Alluvial clasts in order of abundance are light gray (N7) to dark gray (N3) micritic limestone and dolomite, reddish brown (10 R 3/4) siltstone, white (N9) iron-stained rhyolite, and lesser amounts of quartz, chert, sandstone, granite, and caliche. 0'-30' Clay content 10 to 30%. 35'-292' Limestone (Hueco Limestone?): Samples are light gray (N6) to grayish black (N2) micritic limestone. Cuttings average 0.2 inches in size and are angular. The limestone is very dense and micritic. Small amounts of calcite occur in the cuttings and are probably secondary mineralization filling fractures. Moderate reddish orange (10 R 6/6) micrite forms a distinctive interval from 45' to 60'.

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Depth	Visual %	Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description
				Cuttings (cont'd)	
50					
55			10		
60			16		
65			12		
70			20		
75			14		
80			18		
85			16		
90			16		
95			17		
100			16		
105			17		
110			23		
115			26		

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Depth	Visual %	Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description
				Cuttings (cont'd)	
115			26		
120			32		
125			26		
130			26		
135			20		
140			27		
145			32		
150			14		
155			25		
160			26		
165			19		
170			18		
175			17		
180			17		

LOCATION ID: 200-C

Depth	Visual %	Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description
				Cuttings (cont'd)	
180			17		
185			26		
190			35		
195			41		
200			38		
205			46		
210			52		
215			41		
220			32		
225			72		
230			53		
235			33		
240			73		
245			62		

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Depth	Visual %	Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description
				Cuttings (cont'd)	
245			62		
250			43		
255			52		
260			99		
265			114		
270			97		
275			47		
280			38		
285			48		
290			42		
					292' Total depth by geophysical logs. 291' is by drillograph
295					
300					
305					
310					