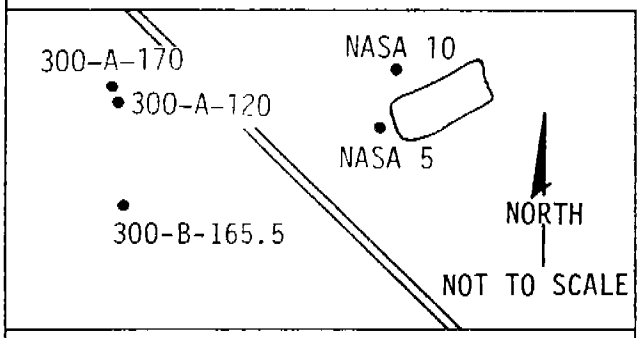
LITHOLOGIC LOG



SW1/4 SE1/4 SE1/4 NE 1/4 S35 T20S R3E

SITE ID: NASA-WSTF LOCATION ID: 300-B-165.5

SITE COORDINATES (ft.):

N 230709.38 E 413573.16

GROUND ELEVATION (ft. MSL): 4931.92 (BRASS CAP)

STATE: NEW MEXICO COUNTY: DOÑA ANA

DRILLING METHOD: MUD/AIR-FOAM ROTARY

DRILLING CONTR.: LARJON

DATE STARTED: 19 February 1987 DATE COMPLETED: 9 October 1987

FIELD REP.: K. KINSLEY, J. KASZUBA, E. MORSE

COMMENTS: Top Bedrock @ ~110'. Total Depth = 192'.

LOCATION DESCRIPTION.

Depth	Visual %	Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description	
			0'-30' not available	0'-192' cuttings	0'-110'	ALLUVIUM (Santa Fe Group)
5					0'-5'	Light brown (5YR 6/4), dusky red (5YR 3/4), and dark gray (N3); cuttings are medium-grained sand thru gravel up to 3/4", average 1/2"; subrounded to angular; poorly sorted. Unconsolidated. Clast lithologies include limestone, sandstone, quartzite, granite, siltstone.
10						
15					5'-30'	Light brown (5YR 6/4), dusky red (5YR 3/4), and dark gray (N3); cuttings are medium-grained sand thru gravel up to 1/2", average 1/4"; subrounded to angular; poorly sorted. Unconsolidated. Caliche coating at 20-25'. Clast lithologies include limestone, sandstone, siltstone, quartzite and granite.
20						
25						
30			begin time		30'-60'	White (N9), dusky red (5YR 3/4), and dark gray (N3); cuttings are medium-grained sand thru gravel up to 1/2", average 1/4"; subangular to angular; moderately sorted. Unconsolidated. Calcite-filled fractures at 45-50'. Clast lithologies include limestone, angular quartzite, siltstone, sandstone, granite.
35			6			
40			4			
45			6			
50			5			

Depth	Visual %	Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description
					ALLUVIUM (Santa Fe Group) Continued
50			5		
55			6		
60			4		60'-85' White (N9), dusky red (5R 3/4), and dark gray (N3); cuttings are medium-grained sand thru gravel up to 1/2", average 1/8"; subangular to angular; moderately sorted. Unconsolidated. Significant decrease in siltstone. Clast lithologies include limestone, quartzite, siltstone and granite.
65			4		
70			3		
75			5		
80			8		
85			7		85'-110' White (N9), dusky red (5R3 1/4) and dark gray (N3); cuttings are medium-grained sand thru gravel up to 1/2", average 1/4"; subrounded to subangular; moderately sorted. Unconsolidated. Clast lithologies include limestone, quartzite, siltstone, granite and caliche (tan matrix with angular <0.1" fragments of all above lithologies).
90			17		
95			11		
100			13		
105			10		
110			8		110'-192' OREJON ANDESITE Grayish olive green (5GY 3/2); cuttings are medium-grained sand thru gravel up to 1/2", average 1/4"; subangular to angular, moderately sorted. Orejon andesite. Clasts: limestone and caliche as possible upper hole cuttings; all andesite below 115'.
115			14		

Depth	Visual %	Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description
					OREJON ANDESITE Continued
115	V V V V V V V V V V		14		
120	V V V V V V V V V V		27		
125	V V V V V V V V V V		26		125'-130' Andesite altered, dark yellowish orange (10 YR 6/6); includes limonite and calcite, friable, may be result of fault zone or erosional surface.
130	V V V V V V V V V V		16		
135	V V V V V V V V V V		9		
140	V V V V V V V V V V		11		
145	V V V V V V V V V V		8		145'-185' Andesite less altered; brown red (10 YR 5/4), contains colorless quartz and altered feldspar, smaller average cutting size.
150	V V V V V V V V V V		8		
155	V V V V V V V V V V		7		
160	V V V V V V V V V V		8		
165	V V V V V V V V V V		8		
170	V V V V V V V V V V		9		
175	V V V V V V V V V V		8		
180	V V V V V V V V V V		9		

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Depth	Visual %	Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description
					OREJON ANDESITE Continued
180			9		
185			8		185'-192' Andesite not altered, green gray (5GY 4/1).
190			7		
					Total Depth = 192'.
195					
200					
205					
210					
215					
220					
225					
230					
235					
240					
245					