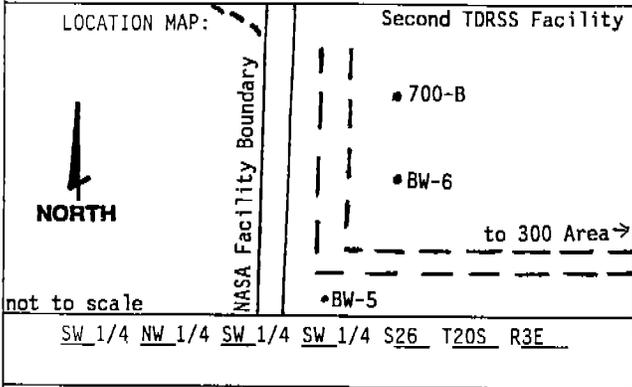


# LITHOLOGIC LOG



SITE ID: NASA-WSTF LOCATION ID: BW-6-355

SITE COORDINATES (ft.):  
 N 234534.58 E 413780.73

GROUND ELEVATION (ft. MSL): 4815.23

STATE: NEW MEXICO COUNTY: DOÑA ANA

DRILLING METHOD: Mud Rotary/Air Foam Rotary

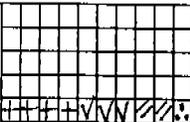
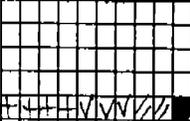
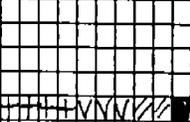
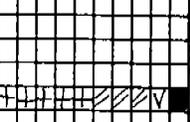
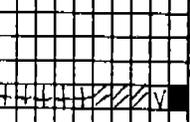
DRILLING CONTR.: Larjon Drilling Co.

DATE STARTED: 11/15/91 DATE COMPLETED: 01/31/91

FIELD REP.: M. Canavan

COMMENTS: Drill mud rotary 0'-80' (12 3/4" tricone-milltooth). Ream to 16". Install 80' of 10" surface casing. Drill air/foam rotary (9 7/8" milltooth) 80'-401'. Andesite bedrock 320'-TD. TD = 401'.

Depth	Visual %	Lith	Drilling time Scale: min	Sample Type and Interval	Lithologic Description
			0'-80' Timed by driller	Cuttings 0'-401	0'-320' Alluvium (Santa Fe Group): Multicolored clasts and cuttings comprise this relatively clay-free unit. Clasts are angular to rounded and range from less than 0.1" to 0.7" in diameter. Overall, the alluvium can be classified as an unconsolidated to consolidated pebble to boulder conglomerate. In the upper alluvium, medium light to dark gray (N6-N3) micritic limestone is the dominant clast, comprising up to 60% of the samples. Other sedimentary clasts include dusky yellow green (5 GY 5/2) and dark reddish brown (10 R 3/4) laminated and non-laminated siltstones and yellowish brown sandstones. Volcanic constituents includes a variety of porphyritic and non porphyritic rhyolites, granites and, with increasing percentages down section, andesite. Some caliche is present from 0'-5' and clay is present as clayballs from 70'-80' and 100'-110'. Alluvium is volcanic-rich (predominantly andesite) from 265'-325'.
5	00000++++VVV		13		
10	++++VVVVV		23		
15	++++VVVVV		15		
20	++++VVVVV		18		
25	++++VVVVV		16		20'-25' Cuttings range from .10" to 1.0" and are subangular to subrounded.
30	++++VVVVV		25		
35	++++VVVVV		28		
40	++++VVVVV		18		
45	++++VVVVV		26		45'-50' Light brown (5 YR 6/4) clay.
50	++++VVVVV		55		

Depth	Visual %	Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description
50			55	Cuttings cont'd	50'-65' Cuttings range in size from .05" to .4" in diameter and are angular to subrounded.
55			43		
60			33		
65			48		65'-70' Cuttings average .20" in size.
70			29		70'-75' 10% clay as clay balls.
75			21		
80			55 Timed by drilllograph 80'-401'		80'-401'(TD) Drill with air/foam.
85			6		80'-85' 50% of cuttings are grout. Visual % includes only lithologic cuttings.
90			8		85'-190' Cuttings range from < 0.05" to .5" in diameter and are subangular to subrounded.
95			3		
100			4		
105			4		
110			5		
115			4		





Depth	Visual %	Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description
				Cuttings cont'd	
245	VVVVV//0		28		245'-250' Andesite apparent in volcanic fraction.
250	VVVVV//0		15		250'-255' Andesite makes up 50% of volcanic fraction.
255	VVVVV//0		12		255'-260' Finer-grained sample.
260	VVVVV//0		33		
265	VVVVV//0		21		265' Volcanic-rich alluvium. The majority (80%) of volcanic fraction is andesite, a variety of which are present.
270	VVVVV//0		8		265'-270' Very fine cuttings to .3" in diameter. 270'-275' Sample is made up of uniform, subangular to rounded grains averaging .10" in diameter.
275	VVVVV//0		9		
280	VVVVV//0		11		275' Volcanic "mush" falls through screen.
285	VVVVV//0		13		285' Increase in volcanics (andesite). Very fine (≈ .05") fraction is predominantly andesite. Other component grains are larger.
290	VVVVV//0		11		290'-310' Cutting size averages .10". Cuttings are well rounded to subrounded. Much fracture filling calcite is evident. Still a minor amount of non-volcanic constituents present. Major volcanic constituent is brownish purple andesite.
295	VVVVVVVVVV		9		
300	VVVVVVVVVV		20		
305	VVVVVVVVVV	10			
310	VVVVVVVVVV	9			



