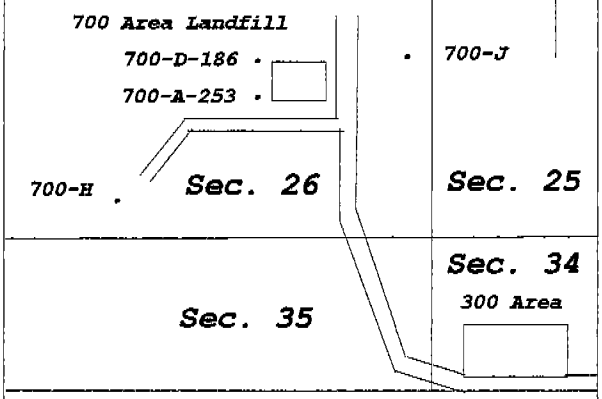
WSTF We.. Borehole Lithologic log

Location Map
(not to scale)



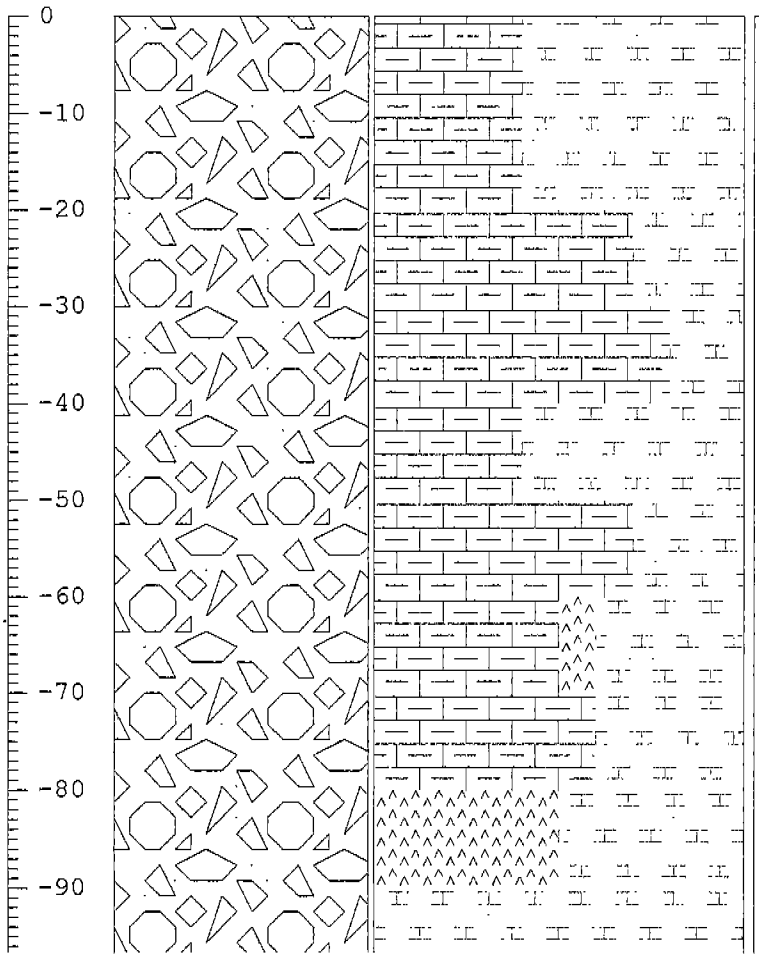
Location Description

Quarter 1: SE 1/4 Section: 26
Quarter 2: SE 1/4 Township: 20 S
Quarter 3: NE 1/4 Range: 3 E

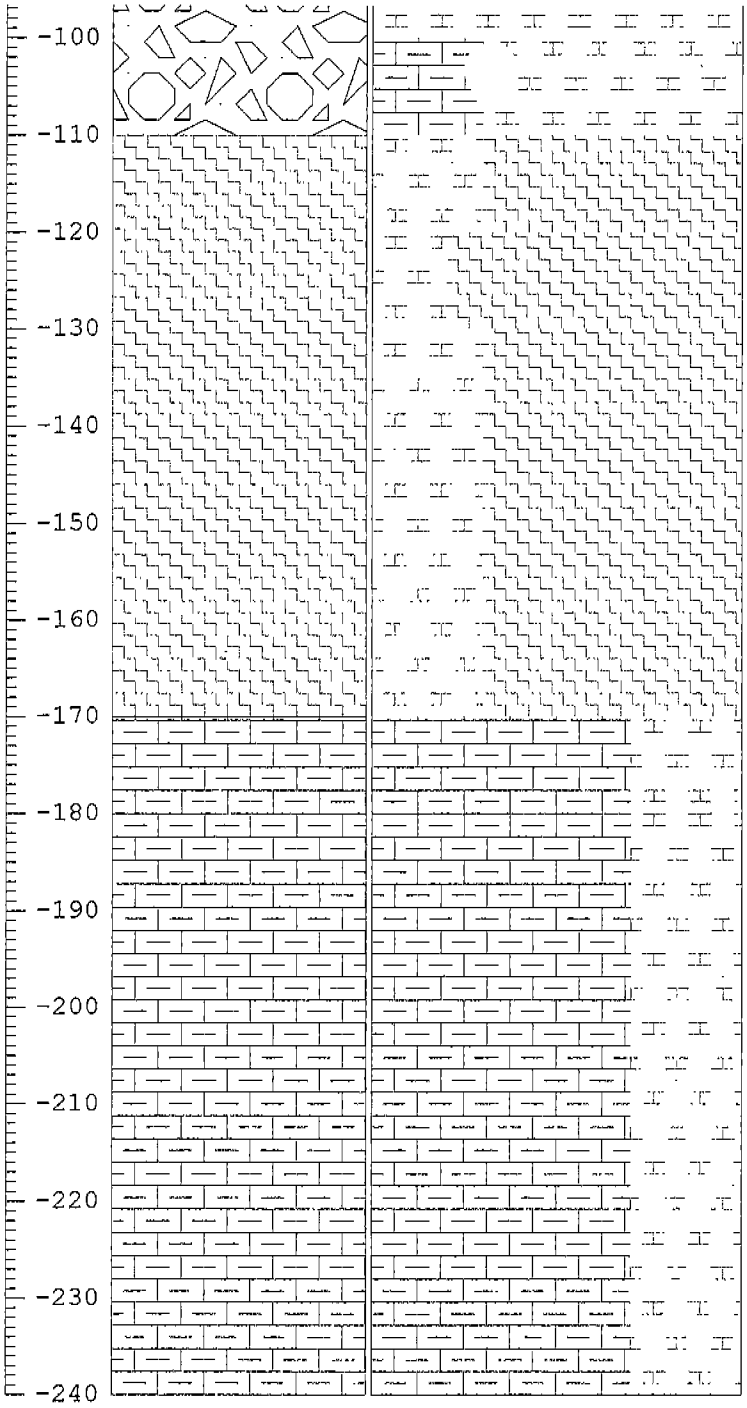
Site I.D: NASA-WSTF Location I.D: 700-J
County and State: Dona Ana County, New Mexico
Site Coordinates: N-235430.38 E-418736.20
Ground Elevation: 4948.21'
Total Depth of Borehole: 240'
Depth to Bedrock and Type: 110'-Hornfels/Limestone
Depth to Groundwater: 122'
Drilling Method (s): Drove 11 3/4" casing to 70'; drilled 9 7/8" borehole to 240'.
Drilling Contractor: Stewart Brothers Drilling Co.
Geophysical Survey Contractor: Not Applicable
Lynx Field Representative(s): M. Canavan, G. Giles, L. Hunnicutt-Mack, M. McClure, J. Pearson and M. Rivera
Dates Drilling Started and Completed: 6/2/99 to 6/6/99.
Comments: 4.5" OD stainless steel conventional well to 230' with one screen extending from 200' to 220'. Lithologic samples collected every 10'.

Location Description: Well 700-J is located upgradient of the 700 Area landfill approximately 1 mile north of the 300 Area test facility.

Depth (Feet)	Lithology	Visual Percent 0 100%	Lithologic Description



ALLUVIUM: Santa Fe Group: (0-110 feet): Alluvial cuttings consist of polygenetic, multi-colored clasts with localized clay-rich intervals. Clasts were derived from the adjacent San Andres Mountains and generally comprise 40-70% of the lithologic samples. Clasts within the alluvium consist of: 1) 0-70% gray black (N2) to green black (5GY 2/1), angular to rounded, coarse sand to coarse gravel-sized, micritic limestone clasts that display abundant calcite-filled fracture veins, 2) 0-50% moderate reddish brown (10R 4/6), moderate pink (5R 7/4) to gray green (10GY 5/2), angular to subrounded, coarse sand to gravel-sized, volcanic clasts (rhyolite, rhyolite tuff, andesite, clay-altered volcanics, dacite, rhyodacite), 3) 20-100%, pale red brown (10R 5/4) to light brown (5YR 6/4) clay. Other clasts observed include gray green (10GY 5/2) chert, disseminated milky quartz and pale red brown silt (10R 4/6). The amount of clay and volcanic clasts increases with depth.



HORNFELS: (110-170 feet): Hornfels is grayish orange pink (5YR 7/2) to light brownish gray (5YR 6/1). This rock has been metamorphosed from limestone into a hornfels. There are no distinguishing characteristics within this rock which result in an easy lithologic classification. Rock chips do not react with acid. The rock is indurated and does not scratch with a knife blade.

ARGILLACEOUS LIMESTONE: (170-240 feet): Argillaceous limestone is medium light gray (N6) to dark gray (N3) and commonly exhibits calcite-filled fractures. Clasts are granule to pebble-sized and rounded to subangular.