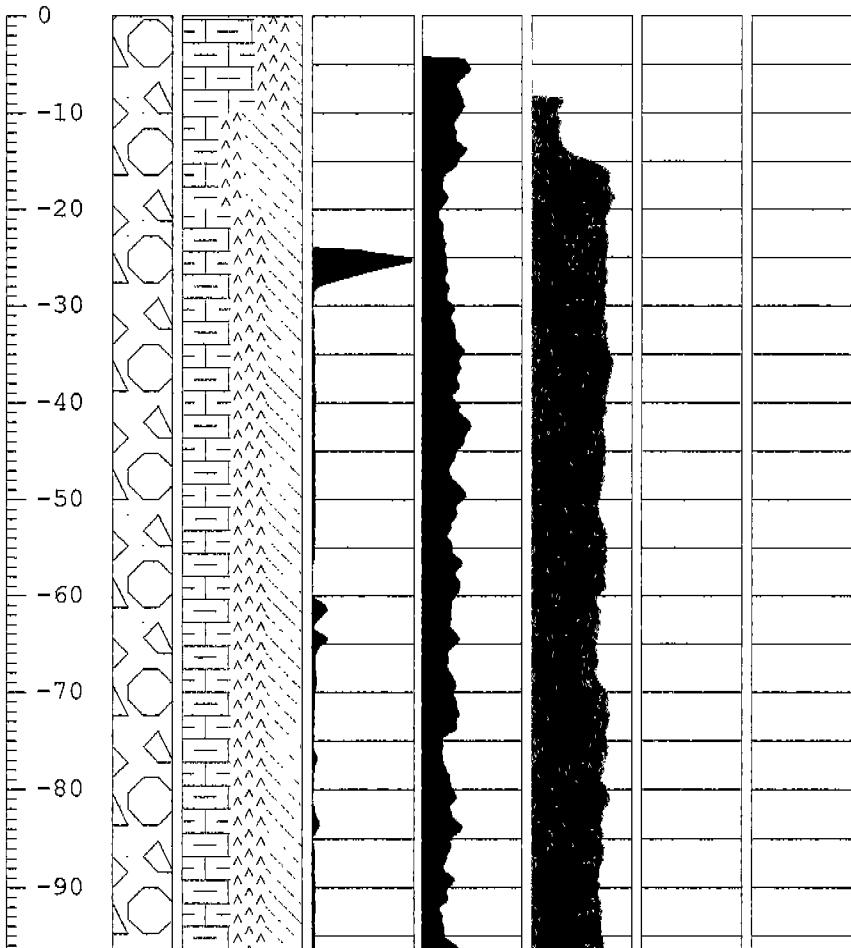
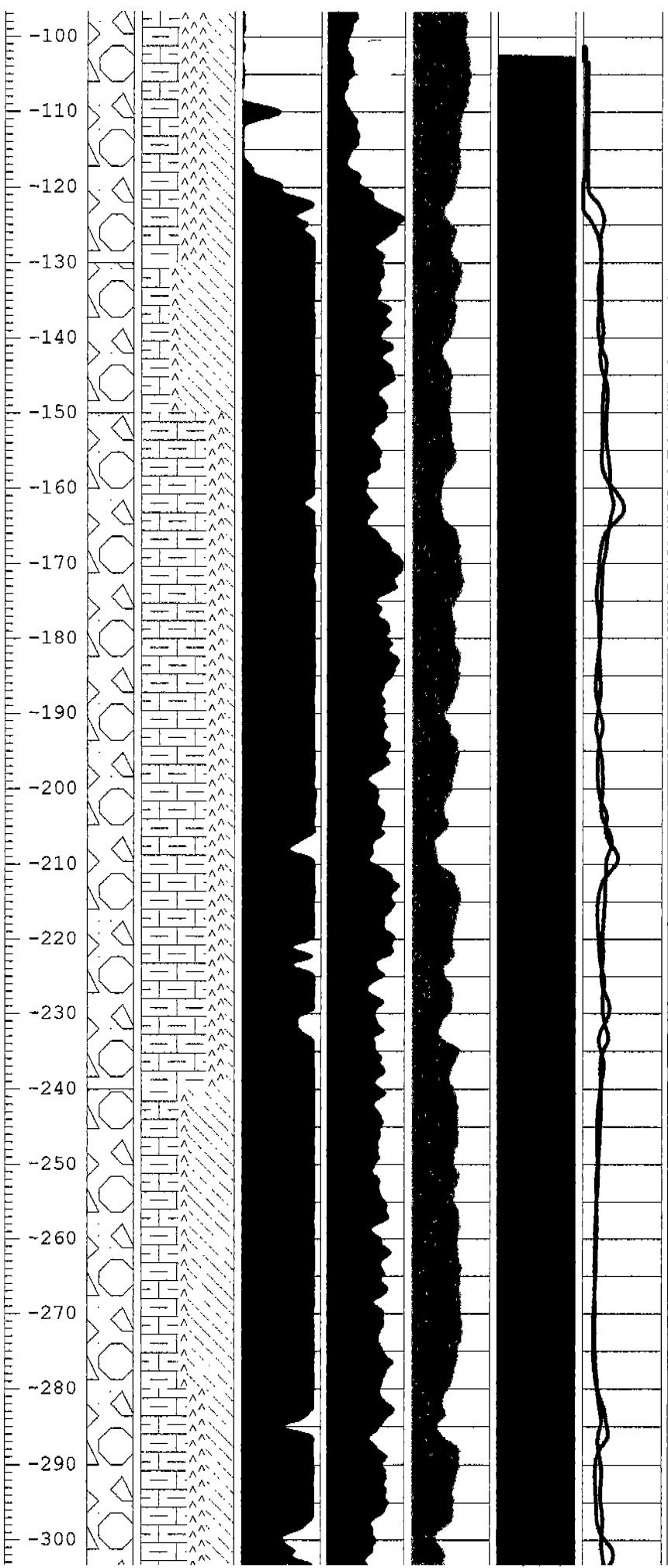


# WSTF Well Borehole Lithologic/Geophysical log

<b>Location Map</b> (not to scale)		N	Site I.D: NASA-WSTF County and State: Dona Ana County, New Mexico Site Coordinates: N-224063.61 E-399235.94 Ground Elevation: 4469.63'		Location I.D: PL-8										
ST-7 .		Sec. 32													
NASA Well Road		1													
BLM-17															
PL-1 .															
Sec. 5															
PL-8 .															
<b>Location Description</b>															
Quarter 1: NE 1/4 Section: 5															
Quarter 2: SW 1/4 Township: 21 S															
Quarter 3: SW 1/4 Range: 3 E															
Comments: Retrofit Westbay well inside 4.5" OD stainless steel casing with four sampling zones. Lithologic samples collected every 10'.															
Location Description: PL-8 is located approximately 2.5 miles west of the WSTF 100 Area and 1 mile south of the NASA well road.															
Depth (Feet)	Lith- ology	Visual Percent	Sonic Porosity (Msec./ ft.)	Gamma	Neutron	SP (Mili- volts)	Resis- tivity (OHM-M) 64"-green 16"-red	Lithologic Description							
		0 100	0 120	50 200	0 75	-15 30	0 100								



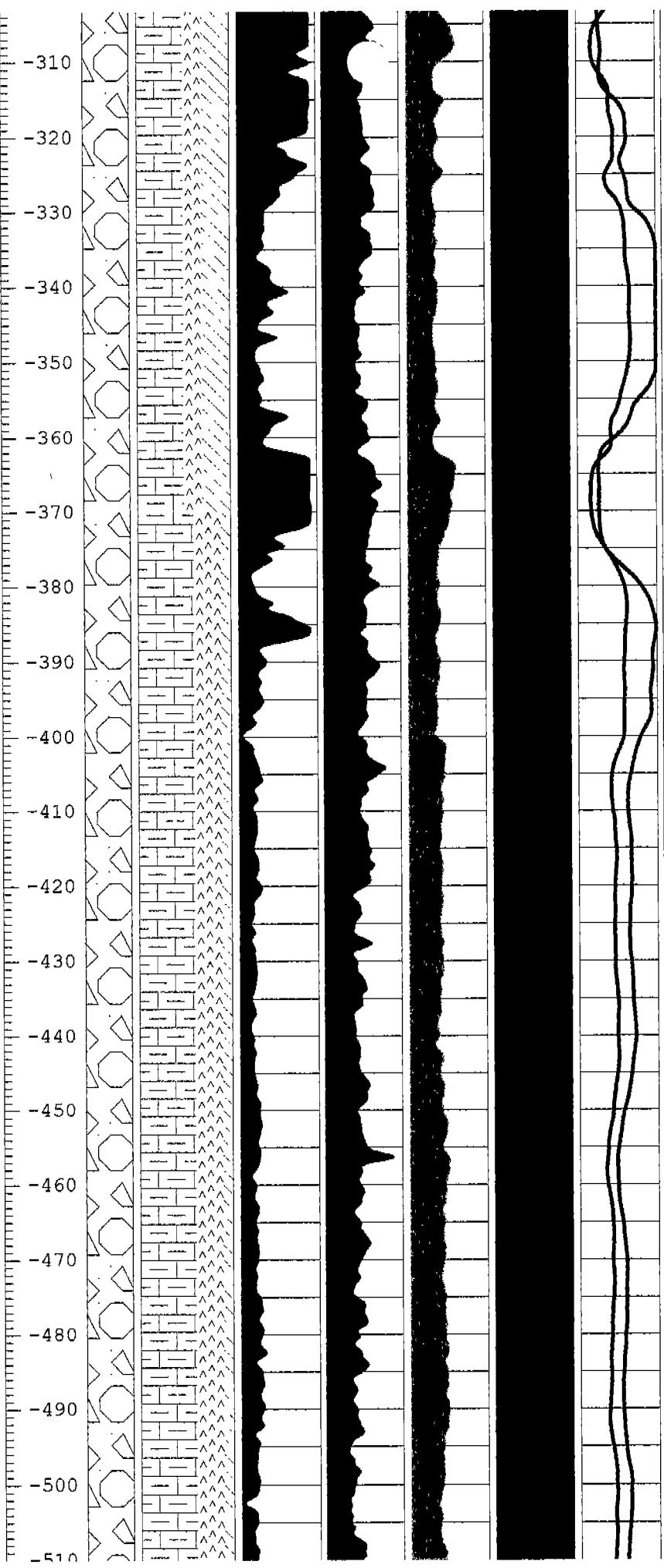
**ALLUVIUM:** Santa Fe Group (0-1,020 feet): The Santa Fe Group Alluvium is a poorly to moderately sorted polygenetic pebble conglomerate that consists predominantly of limestone and igneous clasts eroded from the nearby San Andres Mountains. Clasts generally comprise 30-60% of the lithologic samples. The following clast types were observed within the Santa Fe Alluvium: 1) 10-60% limestone clasts that are light gray (N6) to dark gray (N3), micritic, rounded to subangular, and display abundant hairline calcite-filled fractures, 2) 10-70% igneous clasts (both intrusive and extrusive) including moderate reddish brown (10R 4/6) to grayish red (5R 4/2) rhyolite, very light gray (N8) andesite to andesite porphyry, grayish orange (10YR 7/4) to very pale orange (10YR 8/2) rhyolite porphyry, moderate pink (5R 7/4) to grayish orange pink (10R 8/2) granite, grayish red (10R 4/2) to dark reddish brown (10R 3/4) quartzite and very light gray (N8) to medium light gray (N6) vitric lithic tuff, and 3) 10-60% dark reddish brown siltstone and clay. Siltstone and clay layers may be the result of in situ breakdown of volcanic clasts or may represent the muddy distal fan portion of alluvial fans. Note: the percent of volcanic clasts increases with depth.

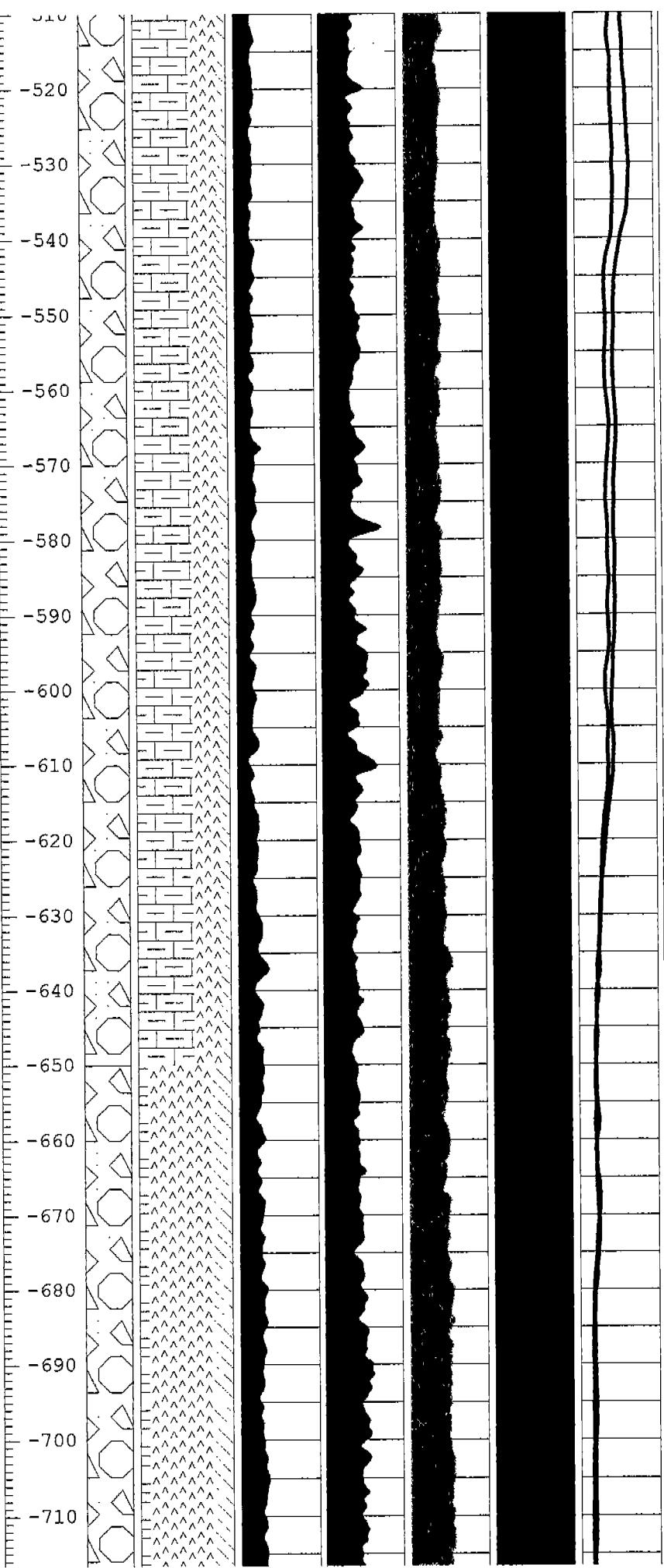


ALLUVIUM: (130-150 feet): Nodular clay-bearing interval.

ALLUVIUM: (150-240 feet): Limestone-rich alluvium.  
Limestone clasts comprise 60% of the lithologic samples.  
Clay is reduced to 10%.

ALLUVIUM: (240-650 feet): Clasts comprise 50-80% of  
the sample. Limestone clasts are predominant.





ALLUVIUM: (650-1,020 feet): Volcanic-Rich Alluvium. Clasts comprise 70% of the lithologic sample. Volcanic clasts comprise >80% of the clast fraction. The unit consists of 20% porphyritic rhyolite, 20% andesite, 20% altered volcanics, 10% volcanic tuff, 10% micritic limestone, and 20% clay.

