

TABLE 5. The strata which lie beneath the level of the Capitan reef, at the site of the Richardson and Bass No. 1 Harrison-Federal test well, in Eddy County, New Mexico. (Based on P. W. Hughes, "New Mexico's Deepest Oil Test," in Fifth Field Conference Guidebook, New Mexico Geological Society, 1954, p. 124-130; and the map "Cross Section Through Delaware and Val Verde Basins, From Lea County, New Mexico, to Edwards County, Texas," West Texas Geological Society, Publication no. 64-49, 1963.)

Geologic Period	Thickness in feet	Description of strata (The beginning depth below the surface is 4,300 ft.)
Permian	700 ft.	Sandstone interstratified with layers of shale and limestone (This is the uppermost of the series given in this table, and is the upper part of the Bell Canyon Formation.)
	400	Limestone interstratified with sandstone layers and a few shale layers
	850	Sandstone interstratified with layers of shale and of limestone
	50	Limestone interstratified with shale layers
	1,500	Sandstone interstratified with shale layers (continuous sandstone for 90 or 100 feet of thickness in three parts of this segment)
	1,100	Limestone interstratified with shale layers (continuous limestone for 100 feet in one part)
	300	Sandstone interstratified with limestone and shale layers
	10	Dolostone
	900	Limestone interstratified with shale and sandstone layers
	120	Limestone
	60	Limestone interstratified with shale and sandstone layers
	90	Limestone
	200	Limestone interstratified with shale layers
	80	Limestone
	150	Limestone interstratified with layers of shale
	550	Sandstone interstratified with layers of limestone (continuous sandstone for 90 feet of the thickness in one part of this segment)
	1,900	Limestone interstratified with shale layers
70	Shale	
400	Shale interstratified with a few limestone layers	
20	Limestone	
Pennsylvanian	1,150	Limestone interstratified with shale layers
	450	Shale interstratified with layers of sandstone
Mississippian	370	Shale interstratified with layers of sandstone
	330	Dark gray to black shale
	100	Shale interstratified with limestone layers
	300	Limestone with small amounts of chert
	120	Shale
Silurian	70	Limestone
	1,100	Dolostone (the "Fusselman dolomite")
Ordovician	250	Limestone with small amounts of chert
	150	Limestone
	175	Shale interstratified with limestone layers
	50	Limestone
	125	Sandstone
	50	Shale interstratified with layers of limestone
	150	Limestone interstratified with layers of sandstone
	1,000	Dolostone (the "Ellenberger dolomite"). This lies directly on the igneous-metamorphic precambrian base (depth below surface, 19,800 ft.).