

DIAMOND DRILL HOLE SR-8, SILVER REEF DISTRICT,  
WASHINGTON COUNTY, UTAH  
JULY 1951

Elev.	Depth	Rock	Analyses
3,845.0	0.		See table 2
		Sandy alluvium and granitic boulders. One yellow orange sandstone boulder from 35. to 35.6 feet.	
3,797.8	47.2		
3,793.9	51.1	Very fine sandstone, dark reddish brown, broken. 50 percent core loss.	
3,788.6	56.35	Very fine sandstone, very light gray, saccharoidal texture. 90 percent core loss.	
3,786.1	58.9	Mudstone, dark reddish brown. Dip about 8°.	
3,782.2	62.8	Very fine sandstone, very light gray, with some dark reddish brown siltstone in upper 0.8 foot. Dip 27°.	
3,776.0	69.0	Very fine sandstone, pale red 5R 6/2 grading downward into moderate red 5R 5/4. Short vertical fractures are calcite coated. Dip 11° at 64.	
3,774.0	71.0	Very fine sandstone, grayish orange pink. Dip 11°.	
3,770.7	74.3	Mudstone, pale olive 10Y 6/2 with grayish purple streaks near top.	
3,767.1	77.9	Siltstone and very fine sandstone, variegated grayish red purple, red purple, white, and dusky red. Dip obscure, about 7° to 10°.	
3,763.2	81.75	Very fine sandstone, pale yellow orange with several indistinct beds of pale purple. Bedding obscure, dip about 8° to 10°.	
		Very fine sandstone, 50 percent yellowish gray and 50 percent pale red purple layers. Sparse detrital (?) muscovite on partings, with very dusky red purple clay. Cross-bedded. Dip 13° to 15°.	
3,749.0	95.95		
		Very fine sandstone, grayish orange. 96.5 to 97.5 has splotches of pale red purple, not conformable to bedding. Dip 16° to 21° at 104 feet. Partings at 102, 103, and 104 feet.	
3,740.0	105.0		
		Very fine sandstone, pale red 5R 6/2. Dip 14° at 108.5 feet, 27° at 114.6, 14° at 125. Bedding shown by knife-edge clay partings. No CaCO <sub>3</sub> content.	
3,708.3	136.7		
		Very fine sandstone, very pale orange. From 159.5 feet to 160.5, 5 percent of the rock is very pale purple, in 0.005 to 0.01 foot layers. At 148 to 148.25 feet, scattered clay blebs, 0.05 to 0.5 inch across, pale yellowish green. At 144.5 to 146., a unique fracture filling of very fine sandstone, pale reddish brown. Dips obscure; 14° at 148.19° at 150.2.	
3,704.5	160.5		
		Very fine sandstone, thin- to thick-laminated, pale purple and yellowish gray, to 164.3 feet. From 164.3, uniform very fine sandstone, very light gray, with 12° dip. At 168.6, thin clay parting, medium light gray. Dip 16° at 160.65. Calcite in one fracture.	
3,676.0	169.0		
3,672.2	172.8	Mudstone, medium light gray, with internal slickensides, "soapstone".	
3,670.5	174.5	Mudstone and siltstone, dark reddish brown.	
3,669.8	175.2	Siltstone, light greenish gray.	
		Siltstone, pale reddish brown with some mottling of very pale orange. Dip 10°.	
3,662.0	183.0		Sample FS 22-51
3,659.7	185.25	Very fine sandstone, yellowish gray, 3 percent very dusky red layers.	185.25
3,657.8	187.2	Very fine sandstone, 40 percent yellowish gray matrix, 60 pebbles.	
3,657.0	188.0	Very fine sandstone, light greenish gray.	
3,653.8	191.2	Siltstone, dark reddish brown. Dip 8°.	
3,651.8	193.2	Siltstone, some mudstone, dusky yellow green and dark reddish brown.	
3,650.2	194.8	Siltstone and very fine sandstone, lt. greenish gray and very lt. gray.	
3,647.9	197.05	Mudstone, dark reddish brown.	

Bottomed 10 July 1951.  
1/ All rock well consolidated except where otherwise noted. Grain sizes given are in accord with the Wentworth Scale. Color names are taken from the Rock Color Chart distributed by the National Research Council, 1948. The word "dip" is used here to indicate the maximum angle between horizontal and the lamination of the rock, this including the foreset beds on which measurements are unavoidably taken.

Traces of carbonate occur in most beds, except the few most highly argillaceous ones. No abnormal radioactivity was detected in this core by a Geiger-Mueller counter,

DIAMOND DRILL HOLE SR-9, SILVER REEF DISTRICT,  
WASHINGTON COUNTY, UTAH  
JULY 1951

Elev.	Depth	Rock	Analyses
3,845.7	0.		See table 2.
		Sandy alluvium and granitic boulders. Boulders as much as 1.5 feet across.	
3,785.9	59.8		
		Siltstone, dark reddish brown, with some yellowish gray mottling. Dip 17° at 63.5 feet.	
3,780.1	65.65		
3,779.0	66.75	Siltstone, very light gray with close partings, pale green, micaceous.	
		Siltstone, grayish red 5R 4/2, cross bedded. Dip 12° at 67.05 feet, 8° at 69.0.	
3,772.8	72.9		
3,769.8	76.0	Very fine sandstone, yellowish gray, broken by drill. Dip about 14°.	Sample FS 21-51
		Very fine, uniform sandstone, pale red 5R 6/2. Dip 14° at 77 feet, 14° at 78.5, 14° at 83.4.	
3,762.2	83.55		
		Very fine sandstone, yellowish gray. Dip 12° at 84.2 feet, 16° at 86.0.	
3,759.5	86.25		
		Mudstone and siltstone, grayish red purple 5R 4/2, medium gray and greenish gray 5G 6/1. Dip about 15°.	
3,751.7	94.05		
3,750.3	95.45	Very fine sandstone, yellowish gray with 10 percent spots of pale yellowish orange. Bedding mostly obscure. Dip about 8°.	
		Very fine sandstone, pale red 5R 6/1 with thin laminae 0.01 to 0.03 foot yellowish gray and yellowish red. Cross bedded. Dip 18° at 107.15 feet. Near vertical fracture from 108. to 109. feet is calcite coated.	
3,735.4	110.3		
		Very fine sandstone, grayish orange, to 114.0 feet; yellowish gray to 117.4. Variegated clays 117.4 to 117.6. Very fine sandstone, yellowish gray, 117.6 to 118.15. Variegated clays 118.15 to 118.4 feet.	
3,727.3	118.4		
		Very fine sandstone, gradational and repetitious pale red 5R 6/2 and yellowish gray. Dip 16° at 132.4 feet, 18° at 159.5. Vertical fracture from 145.4 feet to 146.6 is calcite coated.	
3,694.5	151.2		
		Very fine sandstone, very pale orange and pale yellowish orange to 179.6 feet, very light gray to 183.7 feet. Bedding uniformly obscure. Dip 21° at 166. feet.	
3,662.0	183.7		
3,657.7	188.0	Mudstone, greenish gray 5G 6/1 to olive gray 5Y 4/1. Bedding obscure.	
		Siltstone and very fine sandstone, brownish gray to 189.45 feet, yellowish gray to 190.0 feet, pale reddish brown to 201.4, variegated gray and green to 201.9 feet.	
3,643.8	201.9		
3,642.5	203.25	Mudstone, medium gray to 202.15 feet, greenish gray 5G 6/1 to 203.0, dark reddish brown to 203.25.	

Bottomed 16 July 1951.  
1/ All rock well consolidated except where otherwise noted. Grain sizes are given in accord with the Wentworth Scale. Color names are taken from the Rock Color Chart distributed by the National Research Council, 1948. The word "dip" is used here to indicate the maximum angle between horizontal and the lamination of the rock, this including the foreset beds on which measurements are unavoidably taken.

Traces of carbonate occur in most beds, except the few most highly argillaceous ones. No abnormal radioactivity was detected in this core by a Geiger-Mueller counter,

FIGURE 5—LOGS OF DRILL CORES 8 AND 9, SILVER REEF DISTRICT, WASHINGTON COUNTY, UTAH