DIAMOND DRILL HOLE SR-10, SILVER REEF DISTRICT, WASHINGTON COUNTY, UTAH 1/

JULY 1951

Elev.	Depth	Rock	Analyses
3,818.2	0.		SEE TABLE 2
		Sandy alluvium with granitic boulders.	
3,780.7	37.5		
		Very fine sandstone, very pale orange to 42.2 feet, pale yellowish orange to 77.0 feet, very pale orange to 87.5. From 82.0 to 87.5 , sandstone is spotted with dark yellowish orange patches 0.1 to 0.2 inch across. Bedding obscure. Dip 12° at 68.7 feet, 8° at 76.4, 18° at 44.7, 21° at 63.8, 10° at 78.0. From 67.35 to 67.8 feet, rock contains 20 percent hard clay pebbles, dark yellowish orange and pale green 5G 7/2.	Sample FS-32-51 50.9 to 61. FS 20-51 67.35 to 67.8 Sample FS 33-51 68. to 70.
3,730.7	87.5		
		Mudstone, dark greenish gray 5GY 4/1 to 89.2 feet, brownish gray to 93.3, greenish gray 5G 6/1 to 96.2, grayish red to 101.9, variegated green and red to 103.4, dark reddish brown with greenish mottling to 109.5 feet.	
3,708.7	109.5		
3,704.7	113.5	Very fine sandstone, pale red 10R 6/2 with 5 percent dusky yellow green foresets. Cross bedded. Muscovite flakes on partings.	
3,698.8	119.4	Mudstone and siltstone, dark reddish brown.	
3,690.4	127.8	Siltstone and very fine sandstone, light greenish gray 5G 8/1 to 120.7 feet, pale red 10R 6/2 to 127.8. Dip 5° at 122.5 feet.	
3,689.7	128.5	Mudstone, dark reddish brown.	

Bottomed 21 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, thus 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-11, SILVER REEF DISTRICT, WASHINGTON COUNTY, UTAH 1/

AUGUST 1951

Elev.	Depth	Rock	Analyses
3872.3	0.		SEE TABLE 2
		Sandy alluvium with granitic boulders.	
3838.3	34.0		
		Very fine sandstone, dusky red.	
3797.3	75.0		
		Shale and mudstone, dark reddish brown. Only 15 percent of the core was recovered.	
3777.3	95.0		
		Siltstone, dark reddish brown with yellowish gray streaking. Finely crossbedded with some carbonate in the cement.	
3768.9	103.4		
		Very fine sandstone, very light gray with dark reddish brown network.	
3768.3	104.0		
3763.9	108.4	Mudstone, dark reddish brown, dip obscure.	
		Very fine sandstone, yellowish gray, with vugs .1 inch to .5 inch across lined with carbonate. Dip 31°.	
3763.0	109.3		
3760.3	112.0	Mudstone, dark reddish brown.	
3757.8	114.5	Siltstone, dusky red.	
		Mudstone, dark reddish brown, with gypsum coated fractures at 114.7, 120.2, 121.5, and 130.9 dipping from 45° to 60°.	
3739.6	132.7		
		Very fine sandstone, dusky red, and prominently crossbedded. Gypsum coated fractures .1 to .3 inch thick located at 136.1 (dip 55°), 137.1 (dip 35°), and 137.7 (dip 35°).	
3733.3	139.0		
		Siltstone, moderate reddish brown, with low carbonate content. Gypsum coated fractures are located at 148.8, 153.7, 154.5, 155.9, 156.2, 157.0, 156.6, 159.7, 161.0, 161.3, 161.6, 162.9, 176.7, 177.0, and 177.1 . Small scale cavernous weathering exposed between 189.9 and 191.5.	
3680.0	192.32		
3675.7	196.6	Mudstone, dark reddish brown.	
3674.7	197.6	Siltstone, very pale green with markings of moderate reddish brown. Dip about 18°.	
		Siltstone, dark reddish brown with very pale green mottling from 213.0 to 214.0 . Small scale crossbedding.	
3656.2	216.15		
3655.6	216.75	Mudstone, very pale green.	
3652.8	219.5	Siltstone, dark reddish brown, with crossbedding.	
3648.6	223.7	Mudstone, very light gray, grading to very pale green to grayish red.	
3645.5	226.8	Siltstone, dark reddish brown.	
3645.1	227.25	Limestone, light olive gray, with .1 inch dark gray chert at top.	
3641.3	231.0	Siltstone, mingled gray, green and red. Dip 16° at 229.8.	
3638.0	234.3	Siltstone, dark reddish brown, crossbedded. Dip 14° at 231.7 .	
3634.5	237.8	Mudstone, dusky red. Dip 8° at 235.0 .	

Bottomed 4 August 1951

1/ The sandstone and siltstone were well consolidated. 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 laminations of the rock, thus including the foreset beds on which measurements are unavoidably taken.

Traces of carbonate occur in all beds. No abnormal radioactivity was detected in this core by a Geiger-Mueller counter.

Geology by F. Stugard, Jr.

FIGURE 6—LOGS OF DRILL CORES 10 AND 11, SILVER REEF DISTRICT, WASHINGTON COUNTY, UTAH

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