

PERRY R. BASS
State 23, Well No.4

CORE NO. 1

Core #1: 4534-4584½'. Cut 50½', recovered 50½'.

Commenced coring at 4534 at 12:45 a.m., MST, 5-8-65.

Finished coring at 4584 at 4:50 p.m., MST 5-8-65.

Gross coring time: 16 hours, 05 min.

Down time: 24 minutes.

Net coring time: 15 hours, 41 minutes.

Corehead Description: Williams type T-512, size 7-13/16" x 4-3/8".

Coring conditions: Rotary RPM 75. Pump pressure: 600 psi. Pump rate: 272 gpm.

Weight on corehead: 20,000 lbs.

Mud conditions: Weight 10.3 lbs. per gal. Viscosity 33 sec. Water loss 6 cc. Cake 2/32".

Salt content: 80,000 ppm.

CORING TIME, MINUTES PER FOOT: 30-30-23-22-23-22-13-21-23-22-31-17-15-13-14-16-16-17-18-19-17-17-17-14-14-15-15-16-17-20-19-22-22-22-18-11-14-9-14-14-18-13-15-17-13-21-25-26-20-21.

FROM	TO	LENGTH	DESCRIPTION
4534.0	4534.5	0.5	DOLOMITE - Tan, dense, sub-lithographic.
4534.5	4535.0	0.5	ANHYDRITE - Gray, finely crystalline.
4535.0	4535.0	0.5	DOLOMITE - Tan, dense, sub-lithographic.
4535.5	4536.0	0.5	ANHYDRITE - Gray, finely crystalline.
4536.0	4537.3	1.3	ANHYDRITE - Dolomitic.
4537.3	4538.0	0.7	SAND - gray, very fine, very tight, well-cemented, very anhydritic, barren.
4538.0	4538.5	0.5	SAND - red to gray, very fine, tight, shaley, splotted with anhydrite inclusions.
4538.5	4541.0	2.5	SAND - red, very fine, very shaley, tight.
4541.0	4543.5	2.5	SAND - red, very fine, very tight, well-cemented, anhydritic. Conchoidal fracture pattern develops when struck with hammer.
4543.5	4544.0	0.5	SAND - red, very shaley, with traces of gray-green, very shaley sand, and traces of large anhydrite pebble inclusions.
4544.0	4545.0	1.0	DOLOMITE - Tan to gray to pink, laminated. Very finely crystalline, dense, slightly sandy, slightly anhydritic.
4545.0	4546.0	1.0	SAND - gray to pink, very fine, tight, well-cemented, barren.
4546.0	4548.5	2.5	SHALE - red, sandy, with wavy laminations.
4548.5	4553.0	4.5	SAND - red, fine, tight, well-cemented, anhydritic, barren.
4553.0	4556.0	3.0	SAND - as above, with large anhydrite inclusions.
4556.0	4562.0	6.0	SAND - red, fine-grained, very tight, well-cemented, anhydritic with splottes of very fine, tight gray, anhydritic, clean sand. Barren.
4562.0	4565.0	3.0	SAND - gray to pink, fine-grained, very tight, well-cemented, very anhydritic.
4565.0	4566.0	1.0	SAND - red, very fine, very shaley, tight, barren.
4566.0	4568.5	2.5	SAND - gray to pink, fine, very tight, well-cemented, very anhydritic.
4568.5	4571.5	3.0	SAND - red, very fine, tight, anhydritic, well-cemented.
4571.5	4572.0	0.5	SAND - gray, fine to med. fine, tight, with slight oil stain and a trace of bleeding oil. Very dull orange fluorescence; fair odor.
4572.0	4583.0	1.0	SAND, fine to med. fine, very tight, dense, anhydritic, barren.
4573.0	4574.0	1.0	SAND - gray to pink, very fine, tight, anhydritic, slightly calcareous, trace of gilsonite residue.
4574.0	4574.5	0.5	SAND - gray, fine-grained, tight, slightly splotted with pink, tight, anhydritic sand inclusions. Trace of oil bleeding; fair odor. Very dull orange fluorescence.
4574.5	4575.0	0.5	SAND - red, very fine, tight, well-cemented. No show.
4575.0	4576.0	1.0	SAND - red, very fine, very shaley, slightly laminated, tight. Trace of bleeding in laminations. Very faint dull fluorescence and weak odor.
4576.0	4580.0	4.0	SAND - red, med. fine, very tight, well-cemented, anhydritic, barren.
4580.0	4582.0	2.0	ANHYDRITE - gray.
4582.0	4583.0	1.0	DOLOMITE - pink, dense, sub-lithographic, very sandy.
4583.0	4584.0	1.0	SAND - red, fine-grained, very dense, very anhydritic.
4584.0	4584.5	0.5	DOLOMITE - brick red, shaley, sandy, dense.

CORE ANALYSES

From	To	Perm., MD.	Porosity %	Oil Sat., %	Water Sat., %
4571½	4572	7.5 ✓	16.3	11.7	44.2
4572	4573	<0.1	3.7	0	56.8
4573	4574	<0.1	3.5	0	60.0
4574	4575	6.1 ✓	7.6	9.2	47.3
4575	4576	<0.1	9.7	2.1	67.0

Top Queen Sand by samples: 4528.