Carter Oil Company - Mayme Morrissey #1, Burke County, North Dakota, SE Section 6, T. 161N., R. 92W. (660 feet from south line, 760 feet from east line.) Elevation 2153 K.B., 2140 GL.

The Carter-Morrissey #1 was spudded March 13, 1955. 10 3/4 inch casing was set at 617 feet with 400 sacks of cement. The well was drilled to a total depth of 7322 feet, plugged and abandoned April 17, 1955.

Cement Plugs were set at:

6895 feet - 25 sacks
6315 feet - 25 sacks
5000 feet - 25 sacks
4386 feet - 25 sacks
550 feet - 25 sacks
surface - 10 sacks

Cores: 6842' - 7001'

Logs: Laterolog, Gamma Ray, Microlaterolog.

Drill Stem Tests:
DST #1 - 6768-6788; Tool open 4 hours, weak blow for 3 minutes, then died; recovered 120 feet of drilling mud; IFP 0#, FFP 150# 30 minute SIP 2250 HP 3900#.

DST #2 - 6890-6900; Tool open 4 hours, weak blow throughout; Recovered 330' fluid 150' gas cut mud, sulphur odor, 180' of oil and gas cut sulphur water; IFP 0# FFP 100# 30 minute SIP 1080#, HP 4000#.

DST #3 - 6960-6978; Tool open 4 hours, weak blow throughout; Recovered 550 feet of gas cut salt water with sulphur odor; IFP 40# FFP 304#, 30 minute SIP 0#, HP 4150#.

DST #4 - 7191-7225; Tool open 4 hours, weak blow for 20 minutes, then died; Recovered 120 feet of gas cut mud; FP 0#, 30 min. SIP 0#, HP 4150#.

DST #5 - 7245-7275; Tool open 4 hours, weak blow increasing to fair blow in first hour and decreased to weak blow during last hour; Recovered 750 feet of slightly gas cut salt water with strong sulphur odor; IFP 40#, FFP 455#, 30 min. SIP 2925#, HP 4210#.

Formation tops picked from samples and Laterolog-Gamma Ray. Colors determined from the rock color chart. Not all lithologic units called in the following list.
Cretaceous System
    Pierre Formation (samples) 1550
    Niobrara Formation 3410
    Greenhorn Formation 3770
    Dakota Group Sand 4390
Jurassic System 4950
    Piper Lime 5455
Triassic System
    Spearfish Formation 5720
Mississippian System
    Big Snowy Group 6080
    Kibbey Lime 6190
    Charles Formation 6380
    Mission Canyon Formation 6895

680-710 Lignite.
710-770 Siltstone, light greenish gray, argillaceous, very friable.
770-800 Shale, light greenish gray, silty, massive, spongy.
800-890 Sandstone, very fine to fine grained, well rounded, very argillaceous.
890-920 Shale, very light gray to light greenish gray, silty, massive, spongy.
920-1190 Sandstone, very fine grained, well sorted, very argillaceous, very light gray. Trace of limestone fragments.
1190-1250 Shale, dark gray, flaky, disaggregated.
1250-1400 Sandstone, very fine to fine grained, well sorted, friable, angular to subangular, argillaceous. Some black, flaky shale.
1400-1520 Siltstone, very light gray, argillaceous.
1520-1550 Shale, very light gray to light greenish gray, silty massive, disaggregated.
1550-2570 Shale, medium gray and moderate reddish brown, flaky, slightly silty, bentonitic.
2570-3470 Shale, medium gray, flaky, disaggregated, bentonitic. Some bluish white bentonite. Some moderate reddish brown, flaky shale.
3470-3770 Shale, dark gray to black, flaky, disaggregated, first white specks, calcareous. Some pyrite.
3770-3950 Shale, medium dark gray, massive, compact, second white specks, calcareous. Fragments of Inoceramus prisms.
3950-4100 Shale, black, fissile, compact, trace of pyrite.
4100-4410 Shale, medium light gray, flaky, disaggregated. Some shale as above.
4410-4440 Siltstone, white friable, much shale as above.
4440-4500 Shale, medium light gray, lumpy, disaggregated. Trace of very fine grained sandstone and quartz granules.
4500-4530 Shale, medium light gray and moderate reddish brown, lumpy, disaggregated, silty.
4530-4780 Shale, medium gray to dark gray, massive, compact. Very fine grained, well cemented sandstone. Trace of glauconite.
4780-4860 Shale, as above. Some fine grained sandstone. Some ironstone (Siderite) pellets.
4860-4910 Shale, as above. Some fine grained, glauconitic sandstone. Some greenish gray shale.
4910-4960  Sandstone, fine grained, friable, calcareous cement. Some shale as above.
4960-5260  Shale, greenish gray, light olive gray, moderate reddish brown, flaky, earth, to waxy luster. Some siltstone and sandstone as above.
5260-5340  Shale, greenish gray, waxy, platy and massive, compact to brittle. Little moderate reddish brown, compact to brittle shale.
5340-5380  Calcareous sandstone, fine grained, subangular, calcite cemented, quartz grains. Some limestone. Shale as above.
5380-5440  Shale, moderate reddish brown and greenish gray, flaky and fissile, compact. Trace of white fine grained limestone and anhydrite.
5440-5580  Limestone, very pale orange, sublithographic, dense. Some shale as above. Trace of milky chert.
5580-5600  Shale, Greenish gray, moderate reddish brown, olive gray, splintery, brittle.
5600-5670  Limestone, very pale orange, sublithographic. Some shale as above. Some gypsum and anhydrite.
5670-5730  Shale, greenish gray, slightly calcareous, disaggregated. Some limestone as above.
5730-6000  Siltstone, moderate reddish brown, anhydritic, argillaceous, sandy siltstone. Numerous medium sized quartz grains throughout.
6000-6080  Sandstone, fine to medium, pale red to moderate reddish orange.
6080-6110  Sandstone, poorly sorted, subangular to well rounded, light brownish gray to pale red.
6110-6180  Sandstone, moderate reddish orange, argillaceous, anhydritic, silty.
6180-6200  Gypsum, white chalky. Much medium dark gray, massive, compact to brittle shale.
6200-6210  Limestone, pale red, massive crystalline.
6210-6230  Limestone, yellowish gray, very fine grained to sublithographic.
6230-6370  Sandstone, moderate reddish orange, argillaceous, calcareous. Some limestone as above. Some anhydrite inclusions.
6370-6390  Anhydrite and Gypsum, white and pale red, massive and chalky. Some sandstone as above. Some yellowish gray, fine granular limestone.
6390-6410  Shale, medium gray.
6410-6420  Dolomite, pale red, fine grained. Some anhydrite, white, dense.
6420-6440  Limestone, light brownish gray, fine to medium crystalline, dense with anhydrite inclusions.
6440-6464  Anhydrite, white, dense, some limestone as above.
6464-6487  Salt.
6487-6500  Limestone, light brownish gray, very finely crystalline, dense.
6500-6505  Limestone, light brownish gray, very finely crystalline to fine grained, slight fluorescence and cut from granular part.
6505-6510  Limestone, light brownish gray, very finely crystalline to fine grained, granular to oolitic.
6510-6525  Limestone, light brownish gray, fine grained, granular and oolitic.
6525-6535  Limestone, light brownish gray, fine grained, oolitic, and finely crystalline, dense.
6535-6540  Limestone, light brownish gray, finely crystalline, dense.
6540-6550  Limestone, light brownish gray, finely crystalline and fine, grained, oolitic.
6550-6555 Anhydrite, light gray, dense, limestone, light brownish gray, finely crystalline, dense.
6555-6570 Anhydrite, light gray to white, dense.
6575-6600 Limestone, light brownish gray, finely crystalline, dense, some anhydrite, light gray.
6600-6610 Anhydrite, white, dense, some limestone, light brownish gray, fine grained, oolitic.
6610-6645 Limestone, light brownish gray, finely crystalline, dense.
6650-6670 Limestone, light brownish gray, finely crystalline, dense.
6675-6685 Anhydrite, light gray and white, dense, some limestone, light brownish gray, very finely crystalline, dense.
6685-6710 Limestone, light brownish gray, very finely crystalline.
6710-6720 Salt.
6720-6730 Limestone, light brownish gray, fine grained to finely crystalline and anhydrite, white, dense.
6730-6745 Anhydrite, white, dense.
6745-6750 Anhydrite, white, dense, some limestone, light brownish gray, very finely crystalline, dense.
6750-6765 Limestone, light brownish gray, very finely crystalline, dense to fine grained.
6770-6780 Limestone, light brownish gray, very finely crystalline, dense.
6780-6790 Limestone, light brownish gray, fine grained to finely crystalline, some fluorescence and slight cut from 6825-30.
6825-6840 Limestone, light brownish gray, fine grained to finely crystalline, some fluorescence and slight cut from 6825-30.

Cores
6842-6865 Dolomite, light gray, finely crystalline, dense.
6865-6870 Limestone, light brownish gray, fine grained, slightly argillaceous, fair fluorescence and cut, also limestone, medium gray, finely crystalline, shaly.
6870-6875 Dolomite, light brownish gray, fine grained, slight fluorescence and cut, limestone, medium gray finely crystalline, stained, slight fluorescence and cut.
6875-6890 Limestone, light brownish gray, fine grained to finely crystalline.
6890-6895 Limestone, light brownish gray, finely crystalline, fragmental in part.
6895-6900 Limestone, light brownish gray, fine grained, oolitic.
6900-6905 Limestone, yellowish gray, finely crystalline with a few vugs filled with medium to coarse crystals of calcite, some stylolite seams.
6905-6910 Limestone, yellowish gray, oolitic, with finely crystalline matrix filling pore space.
6910-6915 Limestone as above and limestone yellowish gray, fine grained with medium to coarse crystals of calcite.
6915-6920 Limestone, yellowish gray, finely crystalline, oolitic to finely crystalline, slight fluorescence and cut.
6920-6925 Limestone, light brownish gray, finely crystalline to fine grained fragmental, tight, a little staining and fair fluorescence, slight cut.
Limestone, light brownish gray, finely crystalline, fragmental in part, dense.
Limestone, light brownish gray, fine grained to oolitic.
Limestone, yellowish gray, finely crystalline to oolitic, vuggy, vugs filled with pale brown and colorless anhydrite.
Limestone, light brownish gray, very finely crystalline, dense, some anhydrite filling fractures and vugs, some stylolites.
Limestone, light brownish gray, very finely crystalline, dense and fragmental, slightly argillaceous.
Limestone, yellowish gray, finely crystalline, vuggy, vugs filled with colorless anhydrite, some fluorescence and very slight cut, also some limestone, light brownish gray, very fine grained, fragmental.
Limestone, yellowish gray, very finely crystalline, dense and fragmental, slightly argillaceous.
Limestone, yellowish gray, finely crystalline, vuggy, vugs filled with colorless anhydrite, some fluorescence and very slight cut, also some limestone, light brownish gray, very fine grained, fragmental.
Limestone, yellowish gray, oolitic to pisolithic in finely crystalline matrix with some anhydrite filling of vugs and pores.
Limestone, light brownish gray, very finely crystalline, dense.
Limestone, light brownish gray, finely crystalline, fragmental with some anhydrite filling.
Limestone, light brownish gray, oolitic to pisolithic, with finely crystalline matrix, vuggy, vugs mostly, filled with colorless anhydrite.

Samples
Limestone, light brownish gray, finely crystalline to oolitic with anhydrite filling.
Limestone, yellowish gray, oolitic to pisolithic with anhydrite filling, some finely crystalline.
Limestone, yellowish gray, fine grained, fragmental to oolitic.
Limestone, light brownish gray, fine grained, fragmental slightly argillaceous.
Limestone, light brownish gray to yellowish gray, finely crystalline to fine grained, granular.
Limestone, yellowish gray, fine grained, fragmental to oolitic.
Dolomite, light brownish gray, microsucrosic, limey some limestone as above.
Limestone, light brownish gray, fine grained, granular to fine grained, fragmental.
Limestone, light brownish gray, fine grained, fragmental.
Limestone, light brownish gray, fine grained to finely crystalline.
Limestone, yellowish gray, fine grained, fragmental, slightly argillaceous.
Limestone, very light gray to yellowish gray, fine grained fragmental, slightly argillaceous.
Limestone, yellowish gray, fine grained, granular to finely crystalline.
Limestone, yellowish gray, fine grained, fragmental.