The Continental Oil Co., State #1, located in SW 1/4, SW 1/4, Sec. 36, T. 147N., R. 96W., Dunn County, North Dakota. Elevation of K.B. 2647 feet; ground level 2632 feet.

The well was spudded March 14, 1959 and drilled to a depth of 10,492 feet, plugged and abandoned as a dry hole on May 5, 1959.

Logs Run:
- Laterolog with gamma ray
- Microlaterolog
- Sonic log

Core Record:
- #1 9775-9833 full recovery
- #2 9833-9891 full recovery

Drill Stem Tests:
- DST #1: Packer at 9780-TD 9992. Open 1 hour, shut in 30 minutes. ISIP 4510, 30 minutes, FSIP 4070, IFP 915, FFP 1060, IHP 5730, FHP 5650, 2000' water cushion. Recovered 630' black salty sulfur water.

- DST #2: Packer at 10,007-10,039. Open 2 hours, shut in 30 minutes, ISIP 4755, FSIP 3258, IFP 852, FFP 852, IHP 5928, FHP 5928. Recovered 60' mud with sulfur odor. 2000' water cushion.

Casing Record:

Plugging record:
- #1 9620-9700 with 25 sacks cement
- #2 5800-5880 with 25 sacks cement
- #3 723-760 (surface casing) with 30 sacks 10.9 pounds mud between plugs.

Formation tops were determined from samples and mechanical logs. Doubtful or obscure formations were not picked. Colors and descriptive numbers were taken from Goddard, et al., 1951 Rock Color Chart distributed by the Geological Society of America, New York, New York.
FORMATION TOPS

Cretaceous System
  Pierre formation 2280
  Niobrara formation 4425
  Greenhorn formation 4924
  Mowry formation 5402
  Fall River member 5797
Jurassic System 6110
  Piper limestone 6918
Triassic System
  Spearfish formation 7155
Permian System
  Minnekahta formation 7546
  Opeche formation 7578
Pennsylvanian System
  Minnelusa formation 7950
  “Amsden” formation 8097
Mississippian System
  Big Snowy Group
    “Heath” formation 8485
    Otter formation 8622
    Kibbey sand 8777
    Kibbey limestone 8942
Madison Group
  Poplar interval 9090
  Ratcliffe interval 9590
  Midale sub-interval 9772
  Madison undifferentiated 9838
Total depth 10,492

40-160  Lignite, black, vitreous, common sandstone, light gray, fine grained, detrital, calcareous cement.
160-190  Sandstone as above, rare lignite.
190-220  Sandstone as above, abundant quartz sand grains, fine to coarse, common lignite.
220-600  Lignite, black to brownish black (5YR2/1), vitreous to peaty, common sandstone and quartz as above.
600-780  Lignite as above.
780-840  Cement cavings?
840-990  Lignite, black, common cement cavings?
990-1110  Lignite as above.
1110-1200  Same as above, common limestone, light gray, fine crystalline, argillaceous, common shell fragments.
1200-1440  Lignite, black to brownish gray (5YR2/1), peaty.
1440-1710  Same as above, common quartz grains, common fossil fragments.
1710-2650  Missing.
2650-3040  Lignite, black, vitreous, common shale, medium light gray, soft, silty, slightly calcareous, common shell fragments.
3040-3190  Shale, medium light gray, platy, medium hard, slightly silty, common lignite cavings?
3190-4000  Shale, medium light gray, platy, hard, argillaceous, rare white specks and calcite prisms.
4000-4500  Shale, medium light gray to medium gray, platy, soft, rare bentonite, light gray, spongy, rare white specks and calcite prisms, lignite cavings?
4500-4590  Shale as above, abundant white specks, rare calcite prisms.
4590-4610  Cavings?
4610-4810  Shale, medium gray, platy, medium hard, common white specks and amorphous pyrite, shell fragments.
4810-4860  Shale, grayish black to black, splintery, medium hard.
4860-5000  Shale, black to medium light gray, platy, soft to medium hard.
5000-5050  Shale, black, platy, medium hard.
5050-5300  White specks, common shale, dark gray, platy, medium hard, common calcite prisms.
5300-5500  Shale, dark gray, platy, soft, common white specks and calcite prisms.
5500-5600  Shale, dark gray to medium light gray, platy, soft.
5600-5820  Shale, dark gray, platy, common sandstone, very light gray, fine grained, poor to well cemented.
5820-5870  Shale, black, splintery, soft.
5870-6030  Shale as above, common sandstone, light gray, fine grained, well cemented, slightly micaceous, abundant quartz grains, coarse, sub-rounded, shell fragments.
6030-6130  Shale, black to medium light gray, platy, soft bentonitic to argillaceous, common siderite pellets.
6130-6210  Shale as above, common sandstone, fine grained, quartzose, well cemented, rare siderite pellets.
6210-6450  Shale, light gray to dark gray, platy, common sandstone, medium light gray, fine grained, well cemented, slightly glauconitic.
6450-6580  Sandstone, light gray, fine grained, calcareous cementation, glauconitic, abundant shale as above, common limestone, medium light gray, cryptocrystalline, dense.
6580-6700  Shale, medium light to dark gray, platy, soft, rare sandstone as above, calcareous.
6700-6760  Limestone, medium gray, fine to medium crystalline, grainy, common shale as above.
6760-6790  Shale, medium gray, platy, soft, common limestone as above.
6790-6840  Shale, medium to dark gray, platy to splintery, soft, common siltstone, moderate red (5R5/4), fine grained, argillaceous, slightly calcareous.
6840-6920  Shale and siltstone as above, common limestone, medium gray, fine to medium crystalline, grainy.
6920-6990  Limestone, pale yellowish brown (10YR6/2) to moderate pink, (5R7/4), fine crystalline, dense, common shale dark gray, platy, soft.
6990-7000  Same as above, common siltstone, moderate red (5R4/6), fine grained, argillaceous, calcareous.
7000-7040  Shale, medium gray, platy, soft, abundant sandstone, moderate red (5R4/6), fine grained, well cemented common siltstone as above.
7040-7180  Sandstone as above, common shale, dark gray, splintery.
7180-7200  Same as above, common anhydrite, white.
7200-7340  Siltstone, moderate red (5R4/6), fine grained, argillaceous to arenaceous, slightly anhydritic, common shale as above.
7340-7530  Same as above, common sandstone, pale reddish brown (10R5/4), fine to medium grained, well cemented.
Limestone, light red (5R6/6) to pale reddish brown (10R5/4), fine crystalline, dense, common cavings?
Shale, dark gray, splintery, medium hard, common siltstone, moderate reddish brown (10R6/6) fine grained, common mica cavings?
Cavings?
Halite, clear, anhedral.
Siltstone, moderate reddish brown (10R6/6), fine grained, common halite as above.
Siltstone, as above, common shale, dark gray, splintery, soft, common cavings?
Same as above, abundant dolomite, moderate pink (5R7/4), fine crystalline, dense.
Dolomite as above.
Limestone, grayish orange pink (5YR7/2) to pale red (5R6/2), fine crystalline, dense, dolomitic, rare to common sandstone, grayish pink (5R8/2), fine grained, well cemented.
Sandstone as above, little limestone as above.
Limestone, grayish red (5R4/2) to grayish pink (5R8/2), fine crystalline, dense, common sandstone and shale cavings?, rare chert, white, ordinary.
Limestone, yellowish gray (5Y7/2) to grayish pink (5R8/2), crypto-crystalline, dense, common chert, white, smooth, porcelaneous.
Limestone, pale yellowish brown (10YR6/2) to pale red (5R6/2), fine crystalline, slightly dolomitic, dense, common shale cavings?
Shale, dark gray to black, platy, soft, waxy, common cavings?
Shale, black to varicolored, platy, soft, rare limestone, greenish gray (5G6/1), to yellowish gray (5Y7/2), fine crystalline, dense.
As above, rare sandstone, very light gray, fine grained, well cemented.
Shale, dark gray to black, platy, soft, common sandstone, grayish orange pink (5YR7/2), fine grained, well cemented, common limestone, pale yellowish brown (10YR6/2), fine crystalline, dense.
Sandstone, pale red (10R6/2), fine grained, well cemented, common shale, dark gray, platy.
Sandstone, white to pale red (10R6/2), fine to medium grained, well cemented, common limestone, pale brown (5YR5/2), very fine crystalline dense.
Limestone as above, common sandstone, as above, shale cavings?
Cavings?
Halite, clear, amorphous.
Shale cavings? coated with salt.
Limestone, pale yellowish brown (10YR6/2) fine crystalline, dense, coated with salt.
Cavings?
Limestone, pale yellowish brown (10YR6/2) to yellowish gray (5Y7/2), fine to medium crystalline, dense to pinpoint porosity, common shale cavings?, slightly salt coated, rare anhydrite, white, grainy.
Shale and mica cavings.
Halite, clear, anhedral, common black shale, salt coated.
9660-9730  Cavings?
9730-9780  Limestone, pale yellowish brown (10YR6/2), fine crystalline, dense, abundant shale cavings? common anhydrite, white to light bluish gray (5B7/1), dense, grainy.

Core #1
9775-9780  Limestone, light brownish gray (5YR6/1), medium crystalline, sucrosic, calcitic, slightly porous, fossiliferous.
9780-9781  Same as above, oil-stained stylolite seam, fair "cut".
9781-9782  Limestone, very light brownish gray (5YR8/1), medium crystalline, sucrosic, shows banding.
9782-9791  As above, mottled, unidentified brachiopods.
9791-9792  Limestone, light brownish gray (5YR6/1), medium crystalline, sucrosic, unidentified "algae"?
9792-9795  Same as above, no fossils.
9795-9797  Limestone as above, slightly oil-stained, along stylolite seams, fair "cut"
9797-9801  As above, no oil stains.
9801-9802  Limestone, light brownish gray (5YR6/1), fine to medium crystalline, calcitic, oil stains, good fluorescence, little "cut".
9802-9809  Limestone as above, slight fluorescence, good "cut" along stylolite seams.
9809-9812  As above, no oil stains.
9812-9815  Limestone, medium dark gray, fine crystalline, dense, stylolitic, banded, fair fluorescence, good "cut".
9815-9823  Limestone, medium brownish gray (5YR5/1), fine crystalline, dense fossiliferous.
9823-9829  Limestone as above, slight fluorescence, little "cut".
9829-9833  As above, no oil stains.

Core #2
9833-9834  Limestone, medium dark gray, fine crystalline, dense, Chonetes.
9834-9835  Limestone, olive gray (5Y4/1), medium crystalline, pinpoint porosity, oil-stained, fair fluorescence, good "cut".
9835-9838  As above, dense, no oil stains.
9838-9847  Limestone, medium brownish gray (5YR5/1), fine to medium, dense to pinpoint porosity, very little fluorescence, little "cut", good cut along stylolite seams and vertical fractures.
9847-9850  Limestone, olive gray (5Y4/1), medium crystalline, little pinpoint porosity, fair fluorescence, little to fair "cut".
9857-9858  Limestone, medium brownish gray (5YR5/1), fine crystalline, dense, common anhydrite, pale brown (5YR5/2), euhedral, fair fluorescence, fair "cut".
9858-9860  Limestone, grayish orange pink (5YR7/2), medium crystalline, sucrosic.
9860-9866  Anhydrite, medium gray to very light gray, very fine crystalline, dense, very hard, possibly cherty.
9866-9868  Anhydrite, very light gray, cryptocrystalline, hard, dense, slightly oil-stained, fair fluorescence, no "cut".
9868-9869  Limestone, medium dark gray, medium crystalline, dense, fair fluorescence, little "cut".
9869-9877  Anhydrite, medium dark gray to light brownish gray (5YR6/1), cryptocrystalline, hard, dense.
9877-9879 Limestone, medium gray, medium crystalline, sucrosic, dense.
9879-9883 Limestone, brownish black (5YR2/1), fine crystalline, dense, oil-stained, fair fluorescence, fair “cut”.
9883-9884 Limestone, dark gray, fine, dense, fair fluorescence, good “cut”.
9884-9886 Limestone, medium dark gray, fine, dense.
9886-9887 Limestone, light gray, fine, dense, interbedded anhydrite, very light gray, fine crystalline, hard.
9887-9890 Anhydrite, very light gray, fine, dense, oil-stained, fair fluorescence, no “cut”.
9890-9891 Limestone, medium dark to dark gray, fine, dense, fair fluorescence, little cut.
9890-9910 Cavings.
9910-10150 Limestone, pale brown (5YR5/2), fine crystalline, dense, common black shale cavings?, common anhydrite, light gray to light bluish gray (5B7/1), dense.
10150-10350 Limestone, yellowish gray (5Y7/2) to pale yellowish brown (10YR6/2), fine to medium crystalline, dense to grainy, common cavings?
10350-10489 Limestone, pale yellowish brown (10YR6/2), medium crystalline, dense to grainy, common anhydrite, white to very light gray, dense, slightly calcareous, common shale cavings?
10489 Total depth.