

NORTH DAKOTA GEOLOGICAL SURVEY CIRCULAR NO. 185

Summary of Hunt Oil Company - S. H. Cooksley #1  
Burke County, North Dakota  
Well No. 1430 - Permit No. 1442

by Robert M. Eisenhard  
January, 1958

The Hunt Oil Co, - S. H. Cooksley #1 is located in the NE of SE of Section 22, T. 161N., R. 94W., Burke County, North Dakota. The elevation is 2408 feet G.L, and 2419 feet K.B.

The Hunt Oil Co. - S. H. Cooksley #1 was spudded April 26, 1957, and 10 3/4" casing was set at 501 feet with 330 sacks of cement. The well was drilled to a total depth of 8025 feet, plugged and abandoned May 20, 1957.

Logs: Microlaterolog & Gamma Ray Laterolog & Gamma Ray

Cores: None

Tests:

DST #1: 7152'-9229', tool open and had packer failure.

DST #2: 7107'-7229', tool open 4 hrs. shut in 30 min. Immediate weak blow which died in three hours. Recovered 180' drilling mud with gas odor, IFF-25# FFP-105# IHP-3945#, FHP-3920#, BHSIP-435#.

DST #3: 7580'-7594', tool open 4 hrs. Shut in 30 min. Had strong blow with gas to surface in 1 hr. 35 min. Recovered 99', gas cut mud, 180' oil & gas cut mud, 180 slightly, oil and gas cut mud, and 180' salt water. IFP-70#, FFP 280#, IHP-4230#, FHP-4170#, BHSIP-2440#.

DST #4: 7622'-7634', tool open 5 hrs. 15 min. and shut in 30 min. Strong flow through out test, Recovered 100' drilling mud. & 90' mud cut salt water and 990' salt water. IFP-45#, FFP-625#, IHP-4330#, FHP-4305#, BHSIP-335#.

DST #5: Unknown depth, tool open and had packer failure.

DST #6: 7519'-7549', tool open 3 hr. shut in 30 min. Had weak blow immediately and lasted for 20 min. then died. Recovered, 95' drilling mud. IFP-85#, FFP-105#, IHP-4290#, FHP 4240#, BHSIP-1570#.

Plugging Record:

7418' - 7366'	20 sacks of cement
6168' - 6116'	20 sacks of cement
4805' - 4727'	30 sacks of cement
501' - 447'	20 sacks of cement
Surface	5 sacks of cement

Formation tops were picked from samples and electric logs; corrected to electric logs. Not all formation tops are called in the following list. Colors are from the Rock-Color chart, distributed by the Geological Society of America.

FORMATION TOPS

Cretaceous System	
Pierre formation	1794
Niobrara formation	3540
Greenhorn formation	4187
Dakota groups	4444
Newcastle sandstone	4568
Dakota group sands	4806
Jurassic System	
Piper lime	5960
Triassic System	
Spearfish formation	6155
Mississippian System	
Kibbey sandstone	6680
Kibbey limestone	6815
Charles formation	6947
480-510	Shale, medium light gray, soft; minor lignite.
500-530	Shale, light gray, very soft, lumpy; minor lignite.
530-560	Missing.
560-590	Shale, yellowish gray (5Y7/2) very soft, some silty; minor lignite.
590-620	Missing.
620-650	Clay, light greenish gray and very light brownish gray (5YR7/1), some silty.
650-680	Clay, as above, some very soft light gray shale.
680-710	Clay, yellowish gray (5Y7/2); minor lignite.
710-740	Shale, light greenish gray (5GY8/1) and light gray; light gray siltstone and clay as above.
740-770	Clay, yellowish gray (5Y7/2) light gray siltstone.
770-860	Shale, yellowish gray (5Y7/2) very soft, lumpy; much lignite.
860-890	Lignite.
890-920	Lignite (caving?)
920-950	Lignite (caving?); minor pale orange to very light gray siltstone.
950-1010	Lignite; some very pale orange to very light brownish gray (5YR7/1) soft shale to silty shale.
1010-1100	Sandstone, brownish light gray, very fine grained with much clay and subangular quartz grains up to medium sand size, lumpy.
1100-1190	Sandstone as above; minor very light gray soft shale.
1190-1220	Shale, brownish light gray, silty, soft; much lignite.
1220-1250	Shale, yellowish gray (5Y7/2) to brownish medium light gray, soft; some lignite.
1250-1340	Shale, brownish light grays soft; some lignite.
1340-1400	Clay, light brownish gray to yellowish gray, silty, bentonitic; some lignite.
1400-1430	Shale, brownish medium light gray, soft; some clay and lignite.
1430-1460	Missing.
1460-1490	Shale, brownish medium light gray, soft; some lignite.
1490-1520	Shale, as above brownish gray; much lignite.
1520-1550	Clay, brownish light gray; much lignite.
1550-1610	Shale, brownish medium light gray, clayey; some silty, some lignite.
1610-1640	Shale, as above, some yellowish gray (5Y7/2) silty, some lignite.

1640-1670 Shale, brownish medium light gray; some silty, some clayey; some lignite.

1670-1700 Shale, light brownish gray to brownish medium light gray, some silty; some lignite.

1700-1790 Shale, brownish medium light gray, silty, some lignite.

1790-1850 Shale, yellowish gray (5Y7/2) silty; some lignite; minor white siltstone.

1850-1880 Shale, yellowish gray (5Y7/2) soft, lumpy; some lignite.

1880-1910 Shale, yellowish gray (5Y7/2) soft, compact & soft lumpy shale as above; minor lignite.

1910-1970 Shale, yellowish gray (5Y7/2) soft, lumpy; minor lignite.

1970-2000 Shale, brownish medium light gray, soft; minor lignite.

2000-2060 Shale, yellowish gray (5Y7/2) soft; some lignite.

2060-2090 Shale, very light brownish gray (5YR7/1) to yellowish gray, soft, lumpy, some lignite.

2090-2120 Missing.

2120-2150 Shale, very light gray, soft, compact and shale as above.

2150-2180 Shale, medium light gray, compact.

2180-2210 Shale, as above and some brownish medium light gray, lumpy.

2210-2300 Shale, medium light gray, compact.

2300-2330 Shale, brownish medium light gray, compact.

2330-2390 Shale, medium light gray, compact.

2390-2420 Lignite and clay cavings.

2420-2540 Shale, medium light gray, compact.

2540-2570 Shale, as above, and brownish medium light gray, lumpy shale.

2570-2600 Shale, brownish, medium light gray, compact to lumpy.

2600-2750 Shale, medium light gray, compact.

2750-2810 Shale, brownish medium light gray, compact to lumpy.

2810-2870 Shale, medium light gray, compact.

2870-2900 Shale, as above and some lumpy.

2900-2930 Shale, medium light gray.

2930-3020 Shale, brownish medium light gray, compact to lumpy.

3020-3080 Shale, medium light gray, compact.

3080-3320 Shale, medium light gray, compact.

3320-3350 Shale, brownish medium light gray, compact to lumpy.

3350-3590 Shale, medium light gray, compact.

3590-3620 Shale, medium light gray to light olive gray (5Y5/2).

3620-3650 Shale, medium dark gray, medium light gray and soft very light brownish gray (5YR7/1).

3650-3680 Shale, medium gray, medium light gray and light olive gray (5Y5/2).

3680-3710 Shale, medium gray and brownish medium light gray.

3710-3860 Shale, medium dark gray calcareous with white specks, to medium light gray.

3860-3950 Shale, dark gray to medium light gray, few white specks.

3950-4010 Shale, dark gray slightly calcareous, to medium light gray.

4010-4100 Shale, medium light gray and minor dark gray, slightly calcareous.

4109-4130 Shale, dark gray to medium light gray.

4130-4190 Shale, dark gray.

4190-4220 Shale, as above, some calcareous with white specks.

4220-4280 Shale, dark gray, calcareous with white specks; some light gray shale.

4280-4340 Shale, medium dark gray calcareous with some white specks to medium light gray.

4340-4370 Shale, medium dark gray, slightly calcareous; some medium light gray shale.

4370-4560 Shale, dark gray to medium dark gray.

4560-4580 Shale, medium dark gray and very light olive gray (5Y6/2).

4580-4620 Shale, as above; very minor very pale blue bentonite.

4620-4640 Shale, very light olive gray (5Y6/2) and minor medium dark gray.

4640-4660 Shale, medium dark gray and very light olive gray (5Y6/2).

4660-4680 Shale, as above; some brownish medium light gray siltstone.

4680-4700 Shale, medium dark gray and some medium light gray.

4700-4740 Shale, medium light gray, medium dark gray and very light olive gray(5Y6/2).

4740-4780 Shale, as above; minor very light gray glauconitic siltstone.

4780-4800 Shale, medium dark gray and very light olive gray (5Y6/2).

4800-4860 Shale, as above; minor white siltstone, slightly to very calcareous.

4860-4880 Shale, medium dark to medium light gray; white siltstone to very fine grained quartz sandstone.

4880-4940 Shale medium dark gray and minor very light olive gray (5Y6/2).

4940-4960 Shale as above; some white glauconitic siltstone.

4960-4980 Shale, medium dark gray and medium light gray.

4980-5000 Shale, medium dark gray and medium light gray; a few grayish red, (5R4/2) carbonate nodules.

5000-5020 Shale, as above; minor white siltstone to fine quartz sandstone.

5020-5060 Shale, medium dark gray and medium light gray.

5060-5100 Shale as above; minor siltstone and sandstone as above.

5100-5120 Shale, medium dark gray, minor medium light gray; minor white siltstone and sandstone as above; few pale yellowish brown carbonate nodules.

5120-5200 Shale, medium dark gray and minor medium light gray.

5200-5220 Shale, dark gray to medium light gray.

5220-5260 Shale, as above and some light greenish gray (5GY8/1).

5260-5280 Shale, as above; few pale brown carbonate nodules.

5280-5300 Shale, dark gray, medium light gray and greenish gray, (5GY6/1).

5300-5320 Shale, medium dark gray to light gray and greenish gray (5GY6/1).

5320-5340 Missing.

5340-5360 Shale, as above, minor very pale blue bentonite and white calcareous, siltstone.

5360-5380 Shale, medium dark gray, yellowish gray (5Y7/2) and greenish gray (5GY6/1); siltstone and bentonite as above.

5380-5420 Missing.

5420-5460 Shale, medium dark gray, medium light gray and greenish gray (5GY6/1).

5460-5480 Shale, medium dark, gray medium gray, very light olive gray (5Y6/2) and minor greenish gray (5GY6/1).

5480-5500 Shale, medium dark gray fissile, medium light gray and light greenish gray (5G8/1).

5500-5520 Missing.

5520-5540 Shale, dark gray to medium light gray, light greenish gray (5GY8/1) waxy, and medium dark greenish gray (5GY5/1).

5540-5560 Shale, medium dark gray, minor medium light gray and minor light greenish gray (5GY8/1) waxy.

5560-5580 Shale yellowish gray (5Y7/2) lumpy, clayey.

5580-5600 Shale, dark gray to medium dark gray, medium light gray and greenish gray (5GY6/1).

5600-5620 Shale, as above and very light brownish gray (5YR7/1) waxy.

5620-5640 Shale, dark gray, medium light gray to greenish gray (5GY6/1).

5640-5660 Shale, medium dark gray and very minor medium light gray.

5660-5680 Shale, medium dark gray and greenish gray (5GY 6/1).

5680-5720 Shale, medium dark gray, medium light gray and greenish gray (5GY6/1).

5720-5740 Shale medium dark gray and greenish gray.

5740-5820 Shale, as above, and very minor moderate red (5R4/6).

5820-5840 Shale, greenish gray (5GY6/1), some medium dark gray to medium light gray and minor moderate red, (5R4/6); minor light greenish gray (5G8/1) to very light glauconitic, slightly calcareous siltstone.

5840-5860 Shale greenish gray (5GY6/1), medium dark gray medium light gray and minor moderate red (5R4/6) to dusky red; some angular to subangular clear grains up to coarse sand size. Some muscovite flakes. Very quartz light brownish gray (5YR7/1) fine crystalline limestone.

5860-5940 Shale quartz and muscovite as above, very minor grayish orange pink fine crystalline limestone.

5940-5960 Shale, greenish gray (5GY6/1) dark reddish brown and minor medium dark gray to medium light gray.

5960-6000 Shale, as above; white to very light brown gray (5Y7/1) sub-lithographic limestone.

6000-6020 Limestone and shale as above.

6020-6060 Shale, moderate red (5R4/6), grayish green (5GY6/1) and (10GY5/2); and minor dark gray; very minor limestone as above.

6060-6080 Shale, moderate red (5R4/6), greenish gray (5GY6/1) and dark gray; very pale yellowish brown (10YR7/2) limestone.

6080-6100 Shale, greenish gray (5GY6/1), medium gray, some slightly calcareous, minor calcareous white siltstone and minor moderate red (5R4/6) shale.

6100-6120 Shales greenish gray (5GY6/1), dark gray to medium light gray, and minor moderate red (5R4/6); minor soft white gypsum.

6120-6140 Shale, medium gray, greenish gray (5GY6/1) and minor dark gray and moderate red (5R4/6); minor soft and fine crystalline white gypsum.

6140-6160 Shale, dusky red, dark gray to medium light gray and greenish gray (5GY6/1); some gypsum as above.

6160-6180 Shale, as above; pale reddish brown calcareous siltstone.

6180-6200 Siltstone, moderate reddish orange, calcareous; medium light gray and greenish gray (5GY6/1) shale.

6200-6300 Siltstone, moderate reddish orange slightly calcareous; some dusky red, greenish gray (5GY6/1) and dark gray shale.

6300-6330 Siltstone and shale, as above; with some free medium to coarse, rounded, frosted iron stained quartz sand grains (from siltstone).

6330-6350 Shale, greenish gray (5GY6/1) fissile dusky red and dark gray; some moderate reddish orange slightly calcareous siltstone.

6350-6360 Siltstone and shale as above.

6360-6380 Shale as above, very minor siltstone as above.

6380-6390 Siltstone and shale as above.

6390-6400 Siltstone and shale as above; minor white very fine crystalline gypsum.

6400-6440 Sandstone, moderate reddish orange calcareous, very fine quartz grains, few grains up to medium, well rounded; minor medium dark gray and greenish gray (5GY6/1) shale.

6440-6450 Sandstone, as above, many free medium to coarse, rounded frosted, iron stained quartz grains from sandstone; very minor shale, as above.

6450-6520 Sandstone as above, proportions of fine to medium grains increasing.

6520-6530 Shale, pale yellowish orange, grayish red (10R4/2), grayish green (5GY6/1) and medium dark gray.

6530-6540 Limestone, pale pink to moderate orange pink, fine crystalline; grayish red and greenish gray (5GY6/1) shale.

6540-6550 Shale, greenish gray (5GY6/1) grayish red (5R4/2) and minor dark gray, and pale yellowish orange; minor limestones as above.

6550-6560 Shale greenish gray (5GY6/1) dark gray, pale yellowish orange, and grayish red (5R4/2).

6560-6570 Shale as above with some very pale orange fragmental limestone with rounded flat concretions.

6570-6580 Shale, greenish gray (5GY6/1), dark gray, minor medium light gray calcareous, grayish red (5R4/2) and calcareous pale yellowish brown; very minor limestone as above.

6580-6590 Shale as above; white sublithographic limestone.

6590-6600 Shale, grayish red (5R4/2) and minor shale as above; grayish orange pink and white fine crystalline limestone.

6600-6610 Limestone, pale red (5R6/2) argillaceous, fine crystalline and minor very pale orange fine crystalline; very minor, dark gray and greenish gray shale.

6610-6620 Limestone, grayish pink to pale red (5R6/2) and very pale orange, very fine crystalline; some dark gray, greenish gray (5GY6/1) and grayish red (5R4/2) shale.

6620-6640 Limestone, grayish pink and yellowish gray (5Y7/2) fine crystalline, grayish red (5R4/2) and dark gray, shale.

6640-6650 Shale, grayish red (5R4/2), some calcareous; pale red (5R6/2) fine crystalline limestone, some argillaceous.

6650-6660 Limestone, pale red (5R6/2) to grayish red (5R4/2) argillaceous and minor moderate reddish orange; some grayish red (5R4/2) shale.

6660-6680 Limestone, pale red (5R6/2) argillaceous, fine crystalline; grayish red and minor dark gray and greenish gray (5GY6/1) shale.

6680-6690 Sandstone, moderate orange pink to white, fine grained, slightly calcareous cement; shale as above.

6690-6710 Shale, dusky red, greenish gray (5GY6/1) and medium dark gray; minor sandstone as above.

6710-6720 Shale and sandstone as above; minor very pale orange very fine crystalline limestone.

6720-6740 Sandstone, pale reddish brown very fine to fine grained, slightly calcareous; some shale as above.

6740-6750 Sandstone, pale reddish brown, fine to medium rounded to sub-rounded frosted quartz grains, slightly calcareous cement. Some dusky red, greenish gray (5GY 6/1) and dark shale.

6750-6770 Shale, grayish red (5R4/2), greenish gray (5G6/1), medium dark gray and minor pale yellow orange; minor sandstone as above.

6770-6790 Shale, greenish gray (5G6/1), medium dark gray and minor pale yellowish orange, grayish red (5R4/2) and medium light gray; some sandstone as above.

6790-6800 Sandstone, moderate orange pink, fine to medium, rounded to subrounded quartz grains, calcareous; shale as above.

6800-6810 Sandstone and shale as above; very minor, grayish pink and very pale orange limestone, (with quartz grains).

6810-6820 Shale, greenish gray (5GY6/1), dark gray and dusky red; soft white anhydrite and some sandstone as above.

6820-6830 Limestone, very pale yellowish brown (10YR6/2) and white, very fine crystalline and oolitic.

6830-6850 Limestone as above, more abundant oolitic, some porosity.

6850-6860 Limestone as above; pale red (5R6/2) fine grained quartz sandstone with calcareous cement.

6860-6870 Shale medium greenish gray (5GY5/1), dusky red and minor dark gray; limestone and sandstone as above.

6870-6880 Shale, dark gray, medium greenish gray, (5GY5/1) and dusky red; moderate orange pink fine grained, calcareous, quartz, sandstone.

6880-6900 Shale medium greenish gray (5GY6/1), medium dark gray, grayish red (5R4/2), minor pale yellowish orange, and light greenish gray (5G8/1).

6900-6920 Shale medium dark gray to dark gray; moderate reddish orange very fine grained calcareous sandstone.

6920-6930 Shale and sandstone, as above; some greenish gray (5GY6/1) and light dusky red (5R4/4) shale.

6930-6940 Siltstone, moderate reddish orange; minor medium greenish gray (5GY5/1) shale.

6940-6976 Siltstone, as above; greenish gray (5GY5/1), dark gray and grayish red (5R4/2) shale. Some fine crystalline and soft white anhydrite.

6976-7004 Salt.

7004-7010 Shale, grayish red; white fine crystalline to sublithographic anhydrite, much material as above, salt, probably cavings.

7010-7020 Shale, greenish gray, (5GY6/1); some cavings.

7020-7030 Shale, moderate reddish orange, calcareous, some greenish gray shale and some cavings, salt stringers.

7030-7040 Anhydrite, white, soft and sublithographic; much greenish gray and medium light gray shale; some moderate reddish orange shale, probably cavings.

7040-7050 Shale, moderate reddish orange, greenish gray (5GY6/1) and some medium dark gray; minor anhydrite as above. Salt stringers at 7050 feet.

7050-7058 Shale as above; very minor very light gray to yellowish gray (5YR7/2) fine crystalline limestone.

7058-7080 Salt.

7080-7090 Shales as above; probably cavings; minor medium brownish gray (5YR5/1) and medium light gray very fine limestone; some white anhydrite.

7090-7100 Limestone, very light brownish gray and brownish medium gray, fine crystalline to oolitic, some porosity; medium dark gray shale and some shale as above.

7100-7110 Anhydrite, white, very fine crystalline and sublithographic; minor medium gray and greenish gray (5GY6/1) shale.

7110-7120 Salt and limestone, shale and anhydrite as above, probably mostly caving.

7120-7148 Salt.

7148-7160 Limestone, medium brownish gray (5YR5/1) and yellowish gray (5Y7/2), very fine crystalline.

7160-7170 Limestone as above, some oolitic.

7170-7180 Limestone, very light brownish gray (5YR7/1) recrystallized oolitic some anhydrite filling of voids.

7180-7200 Limestone, light brownish gray, fine crystalline to porous oolitic.

7200-7210 Anhydrite, white soft and fine crystalline, and limestone as above, much probably caving.

7210-7220 Limestone, light brownish gray and medium gray fine crystalline, some medium gray shale; white anhydrite; minor calcareous quartz siltstone. Thin salt at 7220.

7220-7240 Anhydrite bluish white, sublithographic, some soft; much shale caving.

7240-7270 Limestone, medium light gray, very fine crystalline; much anhydrite and some shale cavings.

7270-7280 Limestone, medium light gray very fine crystalline; minor fine oolitic; medium dark gray shale and white crystalline anhydrite.

7280-7290 Anhydrite, light gray to very light gray fine crystalline; minor limestone as above.

7290-7320 Limestone, medium brownish gray (5YR5/1) and very light brownish gray (5YR7/1) very fine crystalline, some pieces (oolitic?) with good porosity; minor anhydrite as above.

7320-7330 Limestone, medium gray, fine crystalline; dark gray shale; minor limestone as above.

7330-7340 Limestone, medium brownish gray (5YR5/1) and very light brownish gray (5YR7/1), very fine crystalline.

7340-7350 Anhydrite, medium light gray very fine crystalline and minor white fine crystalline; limestone as above.

7350-7360 Anhydrite, white fine crystalline and some medium gray very fine crystalline.

7360-7370 Limestone, brownish gray to light brownish gray fine to very fine crystalline, some porosity minor dark gray shale.

7370-7380 Anhydrite, medium light gray and white, very fine crystalline, to sublithographic; some limestone as above.

7380-7390 Anhydrite, white to light gray fine crystalline; minor limestone as above.

7390-7417 Salt.

7417-7420 Shale, dark gray and greenish gray (5GY6/1), calcareous.

7420-7425 Shale, dark gray, minor greenish gray as above.

7425-7430 Shale as above; light gray sublithographic anhydrite; minor light brown very fine crystalline limestone.

7430-7445 Anhydrite, light gray to white, sublithographic.

7445-7450 Limestone, brownish gray to medium brownish gray, fine crystalline to recrystallized oolitic.

7450-7455 Anhydrite, light gray to white, sublithographic some limestone as above.

7455-7465 Anhydrite, light gray to white, sublithographic.

7465-7470 Anhydrite, as above; medium brownish gray (5YR5/1) very fine crystalline limestone.

7470-7475 Limestone, brownish gray (5YR4/1), fine crystalline and recrystallized oolitic, some anhydrite as above.

7475-7480 Limestone, brownish gray and light brownish gray recrystallized oolitic and fine crystalline; minor anhydrite as above.

7480-7485 Limestone, medium brownish gray (5YR5/1) to very light brownish gray (5YR7/1), fine crystalline and recrystallized oolitic.

7485-7495 Limestone, very light brownish gray (5YR7/1) fine crystalline to recrystallized oolitic, some porosity and cut.

7495-7500 Limestone as above; minor light gray to white very fine

crystalline anhydrite.

7500-7505 Shale, dark gray and greenish gray (5GY6/1); some anhydrite as above.

7505-7515 Anhydrite, light bluish gray (5B7/1) sublithographic, some dark gray dusky red and greenish gray (5GY6/1) shale, some light brownish gray fine crystalline limestone.

7515-7520 Anhydrite, medium light gray to white, sublithographic.

7520-7525 Anhydrite, as above, minor medium brownish gray (5YR5/1) limestone.

7525-7530 Limestone, medium brownish gray (5YR5/1) to very light brownish gray (5YR7/1), very fine crystalline to recrystallized oolitic.

7530-7535 Limestone light grayish brown (5YR4/2) and very pale yellowish brown (10YR7/2) very fine crystalline, minor good porosity, some cut.

7535-7540 Limestone, very pale yellowish brown (10YR7/2) fine crystalline; minor light bluish gray to white sublithographic anhydrite.

7540-7545 Limestone, very pale yellowish brown (10YR7/2) and some light grayish brown (5YR4/2) fine crystalline, minor anhydrite as above and minor dark gray shale.

7545-7550 Anhydrite, medium light gray to very light gray very fine crystalline some limestone, as above.

7550-7555 Anhydrite, brownish medium light gray to white, very fine crystalline to sublithographic; minor anhydrite light brownish gray very fine crystalline limestone.

7555-7560 Limestone, very pale yellowish brown (10YR7/2) and minor light brownish gray (5YR6/1), very fine crystalline, some anhydrite as above and some grayish brown crystallized anhydrite in the limestone voids.

7560-7570 Anhydrite, very light gray, very fine crystalline, some limestone as above; some cut.

7570-7575 Anhydrite, yellowish gray (5Y8/1) and light gray, very fine crystalline some very light brownish gray (5YR7/1) fine crystalline limestone.

7575-7585 Limestone, brownish black and very light brownish gray, fine crystalline and oolitic.

7585-7595 Limestone, very pale yellowish brown (10YR7/2) very fine crystalline to recrystallized oolitic with some white crystallized anhydritic in vugs some fine porosity with fair cut.

7595-7600 Limestone, as above very little cut; minor medium gray shale.

7500-7605 Limestone, as above; dark gray and greenish gray shale.

7605-7620 Limestone, very pale yellowish brown (10YR7/2) microsucrosic and oolitic, some fine porosity, slight cut.

7620-7625 Limestone, very pale yellowish brown (10YR7/2) oolitic to fragmental.

7625-7630 Limestone, very pale yellowish brown fine crystalline and oolitic.

7630-7634 Limestone, as above; good porosity, slight cut.

7634-7635 Limestone, as above with dark gray and greenish gray and grayish red shale cavings.

7635-7640 Missing.

7640-7650 Limestone, very pale yellowish brown (10YR7/2) microsucrosic and recrystallized oolitic and fragmental.

7650-7670 As above; with some good porosity.

7670-7680 Limestone, very pale yellowish brown (10YR7/2) fine crystalline, recrystallized fragmental and oolitic.

7680-7695 Limestone, very light olive gray, (5Y7/1) sublithographic, some limestone as above.

7695-7710 Limestone, very pale yellowish brown (10YR7/2), fine crystalline and oolitic, some porosity; crystallized anhydrite in vugs; some pale yellowish brown fine crystalline limestone.

7710-7720 Limestone, very pale yellowish brown (10YR7/2) to medium brownish gray (5YR5/1) oolitic and fragmental some porosity, some clear crystallized anhydrite in vugs.

7720-7735 Limestone, very pale yellowish brown (10YR7/2) to brownish gray, fine crystalline, recrystallized fragmental and oolitic limestone.

7735-7745 Limestone, as above with much caved shale, etc.

7745-7750 Limestone, very pale yellowish brown (10YR7/2) very fine crystalline recrystallized fragmental and oolitic.

7750-7775 Limestone, very pale yellowish brown (10YR7/2) to light grayish brown (5YR4/2) fine crystalline to recrystallized fragmental.

7775-7785 Limestone, very pale yellowish brown (10YR7/2) and some medium brownish gray (5YR5/1) recrystallized fragmental.

7785-7790 Shale cavings.

7790-7825 Limestone, very pale yellowish brown (10YR7/2) to brownish gray, very crystalline and recrystallized fragmental.

7825-7835 Limestone, very pale yellowish brown (10YR7/2) fine crystalline to fragmental; some fine grained quartz sandstone with calcareous cement.

7835-7845 Sandstone, very light gray, fine, subangular to subrounded clear quartz grains, calcareous cement.

7845-7850 Sandstone as above, much shale cavings.

7850-7855 Limestone, brownish medium light gray, silty to brownish white, soft; some sandstone as above and much shale caving.

7855-7860 Limestone, medium brownish gray (5YR5/1) to very light brownish gray (5YR7/1) recrystallized fragmental.

7860-7865 Limestone, as above; some silty brownish medium light gray limestone.

7865-7875 Limestone, very light brownish gray, fine crystalline, soft and medium brownish gray (5YR5/1) recrystallized fragmental.

7875-7905 Limestone, medium brownish gray (5YR5/1) to yellowish gray (5Y7/2) recrystallized fragmental and recrystallized oolitic.

7905-7915 Limestone, very pale yellowish brown (10YR7/2) to brownish black, recrystallized fragmental, some fossil fragments preserved.

7915-7920 Limestone, very light brownish gray (5YR7/1) light brownish black (5YR3/1) fine crystalline and recrystallized fragmental.

7920-7925 Limestone, very light brownish gray (5YR7/1) to light brownish black (5YR3/1) very fine crystalline.

7925-7930 Limestone as above, good cut.

7930-7940 Limestone, as above, with much shale caving.

7940-7945 Limestone, as above.

7945-7955 Limestone, medium brownish gray (5YR5/1) to very light brownish gray (5YR7/1), fine crystalline, some cut.

7955-7970 Limestone, white sublithographic and pale yellowish brown, recrystallized fragmental.

7970-7980 Limestone, very pale yellowish brown (10YR7/2), fine crystalline to recrystallized oolitic or fragmental, some white limestone, as above.

7980-7990 Limestone, as above, with some very light olive gray (5YR6/2) chert (shows fragmental structure when wet).

7990-8005 Limestone, white, sublithographic and recrystallized fragmental.  
8005-8010 Limestone, white, sublithographic.  
8010-8015 Limestone, white and yellowish gray sublithographic and  
recrystallized fragmental.  
8015-8025 Limestone as above and medium brownish gray recrystallized  
limestone (5YR5/1).  
8025 Total Depth.