

PHILADELPHIA OIL COMPANY

WELL NO. P-10  
DAVID SMITH  
ELEVATION - 1622.62

|         |  |
|---------|--|
| 0- 10   | Surface - coal waste, clay and soil                            |
| 10- 20  | Grey coarse grained orthoquartzitic sand                       |
| 20- 30  | Same   |
| 30- 40  | "  |
| 40- 50  | "  |
| 50- 60  | "  |
| 60- 70  | "  |
| 70- 80  | "  |
| 80- 90  | Grey fine grained Shale  |
| 90-100  | Same   |
| 100-110 | "  |
| 110-120 | "  |
| 120-130 | "  |
| 130-140 | "  |
| 140-150 | "  |
| 150-160 | Grey orthoquartzitic sand and grey fine grained Shale.         |
| 160-170 | Same   |
| 170-180 | Same   |
| 180-190 | Grey fine grained shale; few particles of orthoquartzitic sand |

|         |  |
|---------|--|
| 190-200 | Grey fine grained Shale                                      |
| 200-210 | Same   |
| 210-220 | "  |
| 220-230 | "  |
| 230-240 | "  |
| 240-250 | "  |
| 250-260 | Grey coarse grained orthoquartzitic sand.                    |
| 260-270 | Same   |
| 270-280 | "  |
| 280-290 | "  |
| 290-300 | "  |
| 300-310 | "  |
| 310-320 | Grey fine grained Shale                                      |
| 320-330 | Same   |
| 330-340 | "  |
| 340-350 | "  |
| 350-360 | "  |
| 360-370 | "  |
| 370-380 | "  |
| 380-390 | "  |
| 390-400 | Grey fine grained Shale and grey orthoquartzitic sand.       |
| 400-410 | Grey coarse grained orthoquartzitic sand                     |
| 410-420 | Same   |
| 420-430 | Same possible coal 420-434 - Few fragments of coal in sample |

|         |  |
|---------|--|
| 430-440 | Grey fine grained Shale  |
| 440-450 | Same   |
| 450-460 | "  |
| 460-470 | "  |
| 470-480 | "  |
| 480-490 | "  |
| 490-500 | "  |
| 500-510 | "  |
| 510-520 | "  |
| 520-530 | Grey orthoquartzitic coarse grained Sand                           |
| 530-540 | Same   |
| 540-550 | "  |
| 550-560 | "  |
| 560-570 | "  |
| 570-580 | Grey fine grained Shale  |
| 580-590 | Same   |
| 590-600 | "  |
| 600-610 | "  |
| 610-620 | "  |
| 620-630 | "  |
| 630-640 | "  |
| 640-650 | "  |
| 650-660 | Same   |
| 660-670 | Same   |
| 670-680 | Grey fine grained Shale; grey orthoquartzitic coarse grained sand. |

|         |                         |
|---------|-------------------------|
| 680-690 | Same                    |
| 690-700 | "                       |
| 700-710 | "                       |
| 710-720 | "                       |
| 720-730 | "                       |
| 730-740 | "                       |
| 740-750 | "                       |
| 750-760 | "                       |
| 760-770 | "                       |
| 770-780 | "                       |
| 780-790 | "                       |
| 790-800 | "                       |
| 800-810 | "                       |
| 810-820 | "                       |
| 820-830 | "                       |
| 830-840 | "                       |
| 840-850 | "                       |
| 850-860 | "                       |
| 860-870 | Grey fine grained Shale |
| 870-880 | Same                    |
| 880-890 | "                       |
| 890-900 | "                       |
| 900-910 | "                       |
| 910-920 | "                       |

|           |   |
|-----------|---|
| 920- 930  | Same  |
| 930- 940  | "   |
| 940- 950  | "   |
| 950- 960  | "   |
| 960- 970  | "   |
| 970 -980  | "   |
| 980- 990  | "   |
| 990-1000  | Grey fine grained shale                     |
| 100-1010  | Same  |
| 1010-1020 | "   |
| 1020-1030 | "   |
| 1030-1040 | "   |
| 1040-1050 | "   |
| 1050-1060 | " plus few fragments of coarse grained Sand |
| 1060-1070 | " "   |
| 1070-1080 | " "   |
| 1080-1090 | " No sand                                   |
| 1090-1100 | " "   |
| 1100-1110 | " "   |
| 1110-1120 | " "   |
| 1120-1130 | " "   |
| 1130-1140 | " "   |
| 1140-1150 | " "   |
| 1150-1160 | Grey coarse grained orthoquartzitic sand    |
| 1160-1170 | Same  |
| 1170-1180 | "   |

|           |                         |
|-----------|-------------------------|
| 1180-1190 | Same                    |
| 1190-1200 | Grey fine grained Shale |
| 1200-1210 | Same                    |
| 1210-1220 | "                       |
| 1220-1230 | "                       |
| 1230-1240 | "                       |
| 1240-1250 | "                       |
| 1250-1260 | "                       |
| 1260-1270 | "                       |
| 1270-1280 | "                       |
| 1280-1290 | "                       |
| 1290-1300 | "                       |
| 1300-1310 | "                       |
| 1310-1320 | "                       |
| 1320-1330 | "                       |
| 1330-1340 | Grey fine grained Shale |
| 1340-1350 | Same                    |
| 1350-1360 | "                       |
| 1360-1370 | "                       |
| 1370-1380 | "                       |
| 1380-1390 | "                       |
| 1390-1400 | "                       |
| 1400-1410 | "                       |
| 1410-1420 | "                       |
| 1410-1430 | "                       |
| 1430-1440 | "                       |

|           |   |
|-----------|---|
| 1440-1450 | "   |
| 1450-1460 | "   |
| 1460-1470 | "   |
| 1470-1480 | Grey, coarse grained orthoquartzitic sand and grey, fine grained shale. |
| 1480-1490 | Same  |
| 1490-1500 | "   |
| 1500-1510 | "   |
| 1510-1520 | "   |
| 1520-1530 | "   |
| 1530-1540 | "   |
| 1540-1550 | "   |
| 1550-1560 | "   |
| 1560-1570 | "   |
| 1570-1580 | "   |
| 1580-1590 | "   |
| 1590-1600 | "   |
| 1600-1610 | "   |
| 1610-1620 | Grey, coarse grained orthoquartzitic sand.                              |
| 1620-1630 | Same  |
| 1630-1640 | "   |
| 1640-1650 | "   |
| 1650-1670 | "   |
| 1670-1680 | Grey, fine grained shale and grey, coarse grained orthoquartzitic sand. |

|           |  |
|-----------|--|
| 1680-1690 | Same   |
| 1690-1700 | "  |
| 1700-1710 | "  |
| 1710-1720 | "  |
| 1720-1730 | "  |
| 1730-1740 | Grey, fine grained shale.  |
| 1740-1750 | Same   |
| 1750-1760 | "  |
| 1760-1770 | "  |
| 1770-1780 | "                    few fragments of orthoquartzitic sand.  |
| 1780-1790 | Same   |
| 1790-1800 | "  |
| 1800-1810 | "  |
| 1810-1820 | "  |
| 1820-1830 | Grey, coarse grained sand; grey, fine grained shale; few small fragments of coal, possibly from 1819-1822. |
| 1830-1840 | Grey, coarse grained orthquartzitic sand; grey, fine grained shale.  |
| 1840-1850 | Same   |
| 1850-1860 | "  |
| 1860-1870 | Grey, fine grained shale; few small fragments of red rock.   |
| 1870-1880 | Grey, fine grained shale; grey orthoquartzitic sand.   |
| 1880-1890 | Same   |
| 1890-1900 | "  |

|           |   |
|-----------|---|
| 1900-1920 | "   |
| 1920-1930 | "   |
| 1930-1940 | " red rock approximately 1938-1940.                   |
| 1940-1950 | Red Rock, few fragments of grey orthoquartzitic sand. |
| 1950-1960 | Red Rock (no sand).                                   |
| 1960-1970 | Same  |
| 1970-1980 | "   |
| 1980-1990 | "   |
| 1990-2000 | Red Rock  |
| 2000-2010 | Same  |
| 2010-2020 | Grey, fine grained shale.                             |
| 2020-2030 | Same  |
| 2030-2040 | "   |
| 2040-2050 | "   |
| 2050-2060 | "   |
| 2060-2070 | "   |
| 2070-2080 | "   |
| 2080-2090 | "   |
| 2090-2100 | "   |
| 2100-2110 | "   |
| 2110-2120 | "   |
| 2120-2130 | "   |
| 2130-2140 | "   |
| 2140-2150 | "   |

|             |   |
|-------------|---|
| 2150 - 2160 | Grey fine grained Shale                                     |
| 2160 - 2170 | "   |
| 2170 - 2180 | "   |
| 2180 - 2190 | "   |
| 2190 - 2200 | "   |
| 2200 - 2210 | "   |
| 2210 - 2220 | "   |
| 2220 - 2230 | "   |
| 2230 - 2240 | "   |
| 2240 - 2250 | "   |
| 2250 - 2260 | "   |
| 2260 - 2270 | "   |
| 2270 - 2280 | Grey fine grained Shale; grey and buff orthoquartzitic sand |
| 2280 - 2290 | Same  |
| 2290 - 2300 | "   |
| 2300 - 2310 | "   |
| 2310 - 2320 | "   |
| 2320 - 2330 | "   |
| 2330 - 2340 | Same  |
| 2340 - 2350 | "   |
| 2350 - 2360 | Buff fine grained quartzitic sand                           |
| 2360 - 2370 | "   |
| 2370 - 2380 | "   |

|             |      |
|-------------|------|
| 2380 - 2390 | Same |
| 2390 - 2400 | "    |
| 2400 - 2410 | "    |
| 2410 - 2420 | "    |
| 2420 - 2430 | "    |
| 2430 - 2440 | "    |
| 2440 - 2450 | "    |
| 2450 - 2460 | "    |

PHILADELPHIA OIL COMPANYWELL NO. P - 10 - MAXON PAY ZONE  
(2500')

- 2460 - 2470 White crystalline quartzitic sand; grey fine grained Shale; Tan fine grained quartzitic sand; white crystalline lime highly reactive to hydrochloric acid, reddish-brown dolomitic material evident in the sand also visible porosity.
- 2470 - 2480 White crystalline lime; tan fine grained quartzitic sand; abundance of reddish brown dolomitic material. Grey massive dolomitic material.
- 2480 - 2490 White crystalline lime; tan fine grained quartzitic sand; grey massive dolomitic lime, reddish-brown dolomitic material.
- 2490 - 2500 Tan fine grained quartzitic sand; dark grey fine grained Shale; grey massive dolomite; abundance of reddish-brown dolomitic material; white calcitic lime, porosity is visible according to Schlumberger Temperature log this is a pay section.
- 2500 - 2510 Dark grey massive dolomite; few fragments of crystalline lime; many fragments exhibit evidence of dolomitization; few fragments of tan fine grained sand.
- 2510 - 2520 Same as 2500 - 2510
- 2520 - 2530 Grey massive dolomitic lime; white crystalline lime; tan fine grained quartzitic sand;
- 2530 - 2540 Grey dolomitic lime, white crystalline lime; tan fine grained quartzitic sand
- 2540 - 2550 White crystalline lime; tan fine grained quartzitic sand; reddish brown dolomitic residue on some fragments.

|             |   |
|-------------|---|
| 2550 - 2560 | Grey orthoquartzitic sand; buff fine grained orthoquartzitic sand |
| 2560 - 2570 | Same  |
| 2570 - 2580 | "   |
| 2580 - 2590 | "   |
| 2590 - 2600 | "   |
| 2600 - 2610 | "   |
| 2610 - 2620 | "   |
| 2620 - 2630 | "   |
| 2630 - 2640 | "   |
| 2640 - 2650 | "   |
| 2650 - 2660 | "   |
| 2660 - 2670 | "   |
| 2670 - 2680 | "   |
| 2680 - 2700 | "   |
| 2700 - 2710 | "   |
| 2710 - 2720 | "   |
| 2720 - 2730 | "   |
| 2730 - 2740 | Grey fine grained Shale   |
| 2740 - 2750 | Same  |
| 2750 - 2760 | "   |
| 2760 - 2770 | "   |
| 2770 - 2780 | Grey fine grained Shale   |
| 2780 - 2790 | Buff fine grained quartzitic sand                                 |

|             |  |
|-------------|--|
| 2790 - 2800 | Same   |
| 2800 - 2810 | "  |
| 2810 - 2820 | "  |
| 2820 - 2830 | "  |
| 2830 - 2840 | "  |
| 2840 - 2850 | "  |
| 2850 - 2860 | "  |
| 2860 - 2870 | "  |
| 2870 - 2880 | "  |
| 2880 - 2890 | "  |
| 2900 - 2910 | "  |
| 2910 - 2920 | Fine grained grey lime; grey fine grained Shale. |
| 2920 - 2930 | Same   |
| 2930 - 2940 | "  |
| 2940 - 2950 | "  |
| 2950 - 2960 | Buff fine grained quartzitic sand                |
| 2960 - 2970 | Same   |
| 2970 - 2980 | "  |
| 2980 - 2990 | "  |
| 2990 - 3000 | "  |
| 3000 - 3010 | "  |
| 3010 - 3020 | "  |
| 3020 - 3030 | "  |
| 3030 - 3040 | "  |

|             |                         |
|-------------|-------------------------|
| 3040 - 3050 | Same                    |
| 3050 - 3060 | "                       |
| 3060 - 3070 | Grey fine grained Shale |
| 3070 - 3080 | Same                    |
| 3080 - 3090 | "                       |
| 3090 - 3100 | "                       |
| 3100 - 3110 | "                       |
| 3110 - 3120 | "                       |
| 3120 - 3130 | Grey fine grained Shale |
| 3130 - 3140 | Same                    |
| 3140 - 3150 | "                       |
| 3150 - 3160 | "                       |
| 3160 - 3170 | "                       |
| 3170 - 3180 | "                       |
| 3180 - 3190 | "                       |
| 3190 - 3200 | "                       |
| 3200 - 3210 | "                       |
| 3210 - 3220 | "                       |
| 3220 - 3230 | "                       |
| 3230 - 3240 | "                       |
| 3240 - 3250 | "                       |
| 3250 - 3260 | "                       |
| 3260 - 3270 | "                       |
| 3270 - 3280 | "                       |
| 3280 - 3290 | "                       |
| 3290 - 3300 | "                       |
| 3300 - 3310 | "                       |

|             |  |
|-------------|--|
| 3310 - 3320 | Same   |
| 3320 - 3330 | "  |
| 3330 - 3340 | "  |
| 3340 - 3350 | "  |
| 3350 - 3360 | "  |
| 3360 - 3370 | "  |
| 3370 - 3380 | "  |
| 3380 - 3390 | "  |
| 3390 - 3400 | Grey fine grained Shale and grey fine grained lime |
| 3400 - 3410 | Same   |
| 3410 - 3420 | "  |
| 3420 - 3430 | "  |
| 3430 - 3440 | "  |
| 3440 - 3450 | "  |
| 3450 - 3460 | Grey fine grained lime; few fragments of Shale     |
| 3460 - 3470 | Same   |
| 3470 - 3480 | Grey fine grained Shale                            |
| 3480 - 3490 | Same   |
| 3490 - 3500 | "  |
| 3500 - 3510 | "  |
| 3510 - 3520 | "  |
| 3520 - 3530 | Top of Big Lime 3530                               |

PHILADELPHIA OIL COMPANY

WELL NO. P-10

BIG LIME SAMPLES - (3530 - 4020)

- 3520 - 3530 Grey fine grained Shale; grey massive lime, white fine grained calcitic matrix; grey fine grained quartzitic sand
- 3530 - 3540 Dark grey lime; few fragments of grey dolomitic lime; white clacitic lime.
- 3540 - 3550 Grey coarse grained lime; white fine grained calcitic matrix; few particles of white calcitic lime.
- 3550 - 3560 Grey massive lime; white fine grained calcitic lime; white crystalline lime; few particles show reddish brown dolomitic residue
- 3560 - 3570 Same as 3550 - 3560
- 3570 - 3580 Grey dolomitic lime, white fine grained calcitic matrix material; white crystalline lime; few fragments exhibit reddish-brown dolomitic material
- 3580 - 3590 Grey massive lime; grey dolomitic lime; white crystalline lime; no visible porosity
- 3590 - 3600 Same as 3580 - 3590
- 3600 - 3610 Grey dolomitic lime; white crystalline lime; few fragments of reddish-brown dolomitic material.
- 3610 - 3620 Same as 3600 - 3610
- 3620 - 3630 No sample
- 3630 - 3640 Light grey massive lime; grey dolomitic lime; white fine grained calcitic material; buff crystalline lime; no visible porosity.
- 3640 - 3650 Same as 3630 - 3640
- 3650 - 3660 Same as 3630 - 3640
- 3660 - 3670 Light grey massive lime; dark grey lime with white fine grained calcitic matrix; white crystalline lime; no visible porosity.

- 3670 - 3680 Light grey crystalline lime; white calcitic lime; no visible porosity
- 3680 - 3690 Dark grey dolomitic lime, white fine grained calcitic matrix; light grey crystalline lime; few particles exhibit reddish-brown dolomitic residue.
- 3690 - 3700 Same as 3680 - 3690
- 3700 - 3710 Grey dolomitic lime; white fine grained calcitic matrix; few fragments of white crystalline lime few particles of reddish-brown dolomitic residue that show porosity.
- 3710 - 3720 Same as 3700 - 3710
- 3720 - 3730 Same as 3700 - 3710
- 3730 - 3740 Grey dolomitic lime; grey massive lime; each have interfingerings of white fine grained calcitic material; few fragments of white crystalline lime; very little visible porosity.
- 3740 - 3750 Same as 3730 - 3740
- 3750 - 3760 Grey fine grained lime; white calcitic lime; little dolomitic material; no visible porosity
- 3760 - 3770 Same as 3750 - 3760
- 3770 - 3780 Grey massive dolomitic lime; grey fine grained lime with white calcitic matrix material; white crystalline lime; few particles of reddish-brown dolomitic material.
- 3780 - 3790 Grey massive lime; white fine grained calcitic lime; white crystalline lime; few particles show dolomitization and visible porosity.
- 3790 - 3800 Same as 3780 - 3790
- 3800 - 3810 " "
- 3810 - 3820 Grey massive lime; white calcitic lime, white crystalline lime; few particles show reddish-brown dolomitic residue
- 3820 - 3830 Same as 3810 - 3820
- 3830 - 3840 " "
- 3840 - 3850 Buff massive lime; white crystalline lime; white fine grained calcitic material; very little dolomitic material, no visible porosity

- 3850 - 3860 Same as 3840 - 3850; plus few fragments of reddish-brown dolomitic material which exhibit small amounts of porosity
- 3860 - 3870 Buff massive lime; white crystalline lime; white fine grained calcitic material, no visible porosity
- 3870 - 3880 Buff massive lime with white fine grained calcitic stringers throughout; white crystalline lime; few particles of reddish-brown dolomitic material which show porosity
- 3880 - 3890 Same as 3870 - 3880
- 3890 - 3900 Buff massive lime with stringers of white fine grained calcitic lime; white crystalline lime; no visible porosity.
- 3900 - 3910 Same as 3890 - 3900
- 3910 - 3920 Buff massive lime; white crystalline lime (more finely ground than above samples) white fine grained calcitic material
- 3920 - 3930 Same
- 3930 - 3940 Buff massive lime with stringers of white fine grained calcitic material; white crystalline lime; few particles of reddish-brown dolomitic material which exhibit visible porosity.
- 3940 - 3950 Same as 3930 - 3940
- 3950 - 3960 Same as 3930 - 3940
- 3960 - 3970 Buff massive lime with stringers of white fine grained calcitic lime; buff crystalline lime; few particles of reddish-brown dolomitic material which exhibit porosity.
- 3970 - 3980 Same as 3960 - 3970
- 3980 - 3990 Same
- 3990 - 4000 Buff massive lime with stringers of white fine grained calcitic lime; buff crystalline lime; white calcitic lime; few particles of reddish-brown dolomitic material which exhibit porosity.

|             |   |
|-------------|---|
| 4000 - 4010 | Same  |
| 4010 - 4020 | Grey massive lime with stringers of white fine grained calcitic material. Red fine grained quartzitic sand (Injun Sand) Bottom of Big Lime - 4020 |
| 4020 - 4030 | Red fine grained Shale  |
| 4030 - 4040 | Same  |
| 4040 - 4050 | "   |
| 4050 - 4060 | "   |
| 4060 - 4070 | "   |
| 4070 - 4080 | "   |
| 4080 - 4090 | "   |
| 4090 - 4100 | "   |
| 4100 - 4110 | Grey orthoquartzitic sand; dark grey fine grained lime  |
| 4110 - 4120 | Same  |
| 4120 - 4130 | "   |
| 4140 - 4140 | "   |
| 4140 - 4150 | "   |
| 4150 - 4160 | "   |
| 4160 - 4170 | "   |
| 4170 - 4180 | "   |
| 4180 - 4190 | "   |
| 4190 - 4200 | Same - plus small amounts of grey fine grained Shale  |
| 4200 - 4210 | Same as 4190 - 4200   |
| 4210 - 4220 | "   |
| 4220 - 4230 | "   |
| 4230 - 4240 | "   |

|             |                         |
|-------------|-------------------------|
| 4240 - 4250 | Same                    |
| 4250 - 4260 | "                       |
| 4260 - 4270 | "                       |
| 4270 - 4280 | "                       |
| 4280 - 4290 | "                       |
| 4290 - 4300 | Grey fine grained Shale |
| 4300 - 4310 | Same                    |
| 4310 - 4320 | "                       |
| 4320 - 4330 | "                       |
| 4330 - 4340 | "                       |
| 4340 - 4350 | "                       |
| 4350 - 4360 | "                       |
| 4360 - 4370 | Grey fine grained Shale |
| 4370 - 4380 | Same                    |
| 4380 - 4390 | "                       |
| 4390 - 4400 | "                       |
| 4400 - 4410 | "                       |
| 4410 - 4420 | "                       |
| 4420 - 4430 | "                       |
| 4430 - 4440 | "                       |
| 4440 - 4450 | "                       |
| 4450 - 4460 | "                       |
| 4460 - 4470 | "                       |
| 4470 - 4480 | "                       |
| 4480 - 4490 | "                       |

PHILADELPHIA OIL COMPANY  
WELL NO. P-10  
BEREA SAMPLES  
4664-4778

- 4665-4670 Grey fine grained shale; few fragments of grey fine grained quartzitic sand; (This sample not cut because of small amount caught)
- 4670-4675 Grey fine grained quartzitic sand; few fragments of grey dolomitic lime and white crystalline lime; few fragments exhibit reddish-brown dolomitic residue.
- 4675-4680 Grey fine grained quartzitic sand; few fragments of grey massive dolomitic lime; particles of reddish-brown dolomitic residue.
- 4680-4685 Grey fine grained quartzitic sand; few fragments of grey lime; abundant mica content; few particles exhibit reddish-brown dolomitic residue; most of the sand fragments contain fine grained white calcitic matrix material.
- 4685-4690 Grey fine grained quartzitic sand; abundant amount of reddish-brown dolomitic material; porosity visible in some fragments.
- 4690-4695 Grey fine grained quartzitic sand, white fine grained calcitic matrix, white crystalline lime fragments, very little dolomitic material.
- 4695-4700 Grey fine grained quartzitic sand; grey massive dolomitic lime; few fragments of white crystalline lime; few fragments show reddish-brown dolomitic residue.
- 4700-4705 Grey fine grained quartzitic sand; white calcitic lime; many fragments of reddish-brown dolomitic material.
- 4705-4710 Grey fine grained quartzitic sand; white crystalline lime; porosity noted in the lime particles; reddish-brown dolomitic residue and porosity in these fragments.

- 4710-4715 Same as 4705-4710
- 4715-4720 Grey fine grained quartzitic sand; grey fine grained Shale; white crystalline lime; fine grained white lime matrix material; reddish-brown dolomitic residue.
- 4720-4725 Grey fine grained quartzitic sand; grey fine grained Shale; light grey massive lime; white crystalline lime; reddish-brown dolomitic residue; fine grained white lime matrix material.
- 4725-4730 Grey fine grained quartzitic sand; grey fine grained Shale; abundant mica and white crystalline lime; fine grained white calcitic matrix; very little reddish-brown dolomitic material.
- 4730-4735 Same as 4725-4730
- 4735-4740 Grey fine grained quartzitic sand; white crystalline lime; reddish-brown dolomitic material.
- 4740-4745 Grey fine grained Sand; white crystalline lime; abundant mica and reddish-brown dolomitic material; porosity visible in dolomitic fragments. Fine grained white calcitic matrix material.
- 4745-4750 Same as 4740-4745
- 4750-4755 Grey fine grained quartzitic sand; white crystalline lime; reddish-brown dolomitic material; white fine grained calcitic matrix.
- 4755-4760 Same as 4750-4755
- 4760-4765 Grey fine grained quartzitic sand; white crystalline lime; reddish-brown dolomitic material, porosity visible in grains of dolomite.
- 4765-4770 Grey fine grained quartzitic sand; grey fine grained Shale; white crystalline lime; fine grained white calcitic matrix material; reddish-brown dolomitic material.
- 4770-4775 Grey fine grained quartzitic sand; white crystalline lime and white fine grained lime matrix material; abundant reddish-brown dolomitic residue and good porosity note in the dolomite.

4775-4780

Grey fine grained quartzitic sand; grey fine  
grained Shale; reddish-brown dolomitic material  
Bottom of Berea 4778

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SUMMARY OF BEREIA IN P-10

Gas pays noted by Schlumberger Temperature log occur throughout the entire 114' of Berea Sand. This is substantiated by the fact that every sample had a recognizable amount of lime and dolomitic material which is usually present in Berea pay zones.

|             |   |
|-------------|---|
| 4490 - 4500 | Same  |
| 4500 - 4510 | "   |
| 4510 - 4520 | "   |
| 4520 - 4530 | "   |
| 4530 - 4540 | "   |
| 4540 - 4550 | "   |
| 4550 - 4560 | "   |
| 4560 - 4570 | "   |
| 4570 - 4580 | "   |
| 4580 - 4590 | Grey and dark brown fine grained Shale          |
| 4590 - 4600 | Same  |
| 4600 - 4610 | "   |
| 4610 - 4620 | "   |
| 4620 - 4630 | "   |
| 4630 - 4640 | "   |
| 4640 - 4650 | "   |
| 4650 - 4660 | "   |
| 4660 - 4664 | " Top of Berca 4664'                            |
| 4778 - 4780 | Dark grey fine grained Shale                    |
| 4780 - 4790 | Same  |
| 4790 - 4800 | "   |
| 4800 - 4810 | "   |
| 4810 - 4820 | "   |
| 4820 - 4830 | "   |
| 4830 - 4840 | "   |
| 4840        | Total Depth - Gauged gas - 96/10 W - 2" - 413 M |