**Таблица 2.3.1 – Состав и свойства нефти в пластовых условиях.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| №№ п/п | №№ скв. | Дата отбора | и.п. кровля | m | и.п. подошва | m | Глубина отбора проб. м | Вид пробы | Горизонт | Блок | Пластовая температура. оС | Давление. МПа | | Газосодер-жание | | Объемный коэффициент | пересчетный коэффициент | Усадка. % | Плотность нефти. г/см3 | | Плотность газа. г/дм3 | Вязкость | | Ср. коэф. растворимости газа. (м3/м3)/МПа | Коэффициент сжимаемости. 1\*10-4/МПа |
| пластовое | насыщенние | м3/т | м3/м3 | пластовой | сепарированной | пластовой. мПа\*с | сепарированной. мм2/с |
| 1 | 10 | 31.07.1983 | 627 | 641.7 |  | глуб. | Ю-I-1 | 1 | 29.0 | 5.4 | 2.3 | 9.6 | 8.5 | 1.120 | 0.893 | 10.6 | 0.789 | 0.880 | 0.817 | 36.7 | 101.6 | 0.4 |  |
| 2 | 11 | 06.01.1984 | 638 | 641 |  | глуб. | Ю-I-1 | 1 | 30.0 | 7.4 | 2.3 | 20.7 | 18.3 | 1.290 | 0.775 | 21.2 | 0.757 | 0.885 | 0.817 | 36.1 | 128.1 | 0.8 |  |
| 3 | 1 | 03.05.1984 | 624 | 637 |  | глуб. | Ю-I-1 | 2 | 30.0 | 7.2 | 1.5 | 7.9 | 7.0 | 1.060 | 0.943 | 5.7 | 0.843 | 0.886 | 0.960 | 39.8 | 120.1 | 0.5 |  |
| 4 | 23 | 27.09.1993 | 638 | 645 | 600 | глуб. | Ю-I-1 | 1 | 26.0 | 5.7 | 2.2 | 6.5 | 5.8 | 1.038 | 0.963 | 3.7 | 0.855 | 0.883 | 0.754 | 80.8 | 139.5 | 0.3 | 48.0 |
| 5 | 23\* | 27.09.1993 | 638 | 645 | 600 | глуб. | Ю-I-1 | 1 | 26.0 | 5.7 | 0.8 | 1.5 | 1.4 | 1.020 | 0.980 | 2.0 | 0.867 | 0.883 | 0.754 |  | 139.5 | 0.2 | 19.5 |
| 6 | 71 | 20.07.2012 | 632 | 651 |  | ркб. | Ю-I-1 | 1 | 27.0 | 5.4 | 1.5 | 14.2 | 12.6 | 1.021 | 0.979 | 2.1 | 0.873 | 0.882 | 0.588 | 46.1 |  | 8.5 | 14.8 |
| 7 | 42\* | 06.08.2014 | 650 | 658 | 505 | глуб. | Ю-I-1 | 2 | 17.4 | 6.2 | 1.5 | 22.7 | 19.6 | 1.032 | 0.969 | 3.1 | 0.860 | 0.863 | 0.738 | 21.5 |  | 13.1 |  |
| 8 | 32 | 04.04.2022 | 641 | 642.5 |  | ркб. | Ю-I-1 | 1 | 29.5 | 6.8 | 2.7 | 10.2 | 9.0 | 1.018 | 0.982 | 1.8 | 0.875 | 0.885 | 0.576 | 49.0 |  | 3.3 | 11.2 |
| **среднее значения** | | | | | | | |  | **28.6** | **6.3** | **2.1** | **11.5** | **10.2** | **1.091** | **0.923** | **7.5** | **0.832** | **0.884** | **0.752** | **48.1** | **122.3** | **2.3** | **24.7** |
| 9 | 70 | 11.06.2016 | 644 | 649 |  | ркб. | Ю-I-2 | 2 | 28.0 | 6.9 | 3.2 | 9.3 | 8.3 | 1.020 | 0.980 | 2.0 | 0.869 | 0.875 | 0.574 | 35.7 | 109.8 | 2.6 |  |

**Таблица 2.3.2 – Состав и свойства нефти в поверхностных условиях**

| №№ п/п | №№ скв. | и.п. кровля | m | и.п. подошва | m | Горизонт (пласт) | Дата отбора проб | Плотность. г/см3 | Содержание. % | | | | Парафин | | Температура. оС | | Кинематическая вязкость. мм2/с | | | | | | Кисл. число. мг/кон гр | Фракционный состав | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| смол селикогелевый | асфальтены | сера | кокс | % | температура плавления оС | застывание | вспышки | 0оС | 10оС | 20оС | 30оС | 40оС | 50оС | Н.К.оС | 200оС | 250оС | 300оС |
| 1 | 1 | 643 | 647 | Ю-I-2 | 22.12.1982 | 0.880 |  |  | 0.1 |  | - | - | -15.0 | 94.0 |  |  | 102.6 |  |  | 28.3 |  |  | 2.0 |  | 33.2 |
| 2 | 1 | 643 | 647 | Ю-I-2 | 26.03.1983 | 0.882 | 10.7 | 0.1 | 0.9 |  | - | - | -15.0 | 110.0 |  |  | 91.7 |  |  | 27.4 |  |  | 0.5 |  | 25.5 |
| 3 | 1 | 643 | 647 | Ю-I-2 | 21.04.1983 | 0.882 |  |  | 0.7 |  | - | - | -15.0 | 108.0 |  |  | 103.6 |  |  | 25.6 |  |  | - |  | 20.2 |
| 4 | 1 | 624 | 626 | Ю-I | 21.07.1983 | 0.885 |  |  | 0.7 |  | - | - | -15.0 | 117.0 |  |  | 152.2 |  |  | 37.0 |  |  | - |  | 22.0 |
| 5 | 1 | 624 | 626 | Ю-I | 04.08.1983 | 0.884 |  |  | 0.5 |  | - | - | -50.0 | 119.0 |  |  | 125.2 |  |  | 32.1 |  |  | - |  | 22.4 |
| 6 | 7 | 635 | 642 | Ю-I-1 | 28.10.1983 | 0.890 | 10.0 | отс. | 0.4 |  | - | - | -15.0 | 115.0 |  |  | 186.8 |  |  | 39.8 |  |  | - |  | 16.6 |
| 7 | 7 | 640 | 642 | Ю-I-1 | 25.03.1983 | 0.889 |  |  | 0.8 |  | - | - | -15.0 | 112.0 |  |  | 179.5 |  |  | 39.0 |  |  | - |  | 21.5 |
| 8 | 10 | 627 | 641.5 | Ю-I-1 | 02.08.1983 | 0.885 |  |  | 0.5 |  | - | - | -15.0 | 115.0 |  |  | 146.3 |  |  | 32.6 |  |  | - |  | 23.5 |
| 9 | 10 | 627 | 641.5 | Ю-I-1 | 29.08.1983 | 0.894 |  |  | 0.5 |  | - | - | -15.0 | 108.0 |  |  | 132.0 |  |  | 31.3 |  |  | - |  | 24.2 |
| 10 | 10 | 627 | 641.5 | Ю-I-1 | 06.09.1983 | 0.887 | 5.4 | 0.1 | 1.1 |  | - | - |  | 117.0 |  |  | 124.2 |  |  | 29.1 |  |  | - |  | 20.4 |
| 11 | 10 | 627 | 641.5 | Ю-I-1 |  | 0.885 | 9.1 | 0.5 | 0.6 |  | 1.5 | 45.0 | -40.0 | 122.0 |  |  | 137.6 |  |  | 33.2 |  |  | 4.0 |  | 23.2 |
| 12 | 10 | 627 | 641 | Ю-I-1 | 18.03.1992 | 0.884 | - | отс. | 0.4 | 2.1 | 0.7 | 52.0 | -41.0 | 106.0 | 589.5 | 270.4 | 137.4 | 78.1 | 48.3 | 31.8 | 0.1 | 252.0 | - | - | 17.0 |
| 13 | 11 | 638 | 641 | Ю-I-1 | 29.12.1983 | 0.886 | - |  | 0.3 |  | - | - | -15.0 | 118.0 |  |  | 166.7 |  |  | 37.0 |  |  | - |  | 20.0 |
| 14 | 11 | 638 | 641 | Ю-I-1 | 09.01.1984 | 0.886 | - |  | 0.7 |  | - | - | -15.0 | 114.0 |  |  | 161.6 |  |  | 35.5 |  |  | - |  | 20.0 |
| 15 | 1 | 626 | 637 | Ю-I-1 | 03.04.1984 | 0.890 | 9.8 |  | 0.3 |  | - | - |  | 106.0 |  |  | 142.8 |  |  | 31.8 |  |  | - |  | 24.0 |
| 16 | 11 | 638 | 641 | Ю-I-1 | 30.01.1992 | 0.885 | 7.3 |  | 0.4 | 2.0 | 1.0 | 53.0 | -36.0 | 69.0 | 584.5 | 254.3 | 132.8 | 75.6 | 46.7 | 30.4 | 0.1 | 250.0 | - | - | 24.0 |
| 17 | 1 | 624 | 637 | Ю-I-1 | 30.01.1992 | 0.885 | 9.7 |  | 0.3 | 2.1 | 0.7 | 52.0 | -40.0 | 76.0 | 588.8 | 262.7 | 136.9 | 77.9 | 47.7 | 31.0 | 0.1 | 255.0 | - | - | 22.0 |
| 18 | 66 | 628 | 633 | Ю-I-1 | 24.09.1992 | 0.886 |  |  | 0.4 | - | - | - | -45.0 | 110.0 | - | - | 125.2 | - | - | 31.1 | 0.1 | 228.0 | - | 2.0 | 22.0 |
| 19 | 43 | 623 | 631 | Ю-I-1 | 24.09.1992 | 0.888 |  |  | 0.3 | 2.2 | - | - | -55.0 | - | - | - | 129.5 | - | - | 31.7 | 0.1 | 249.0 | - | - | 21.0 |
| 20 | 46 | 638.5 | 644.5 | Ю-I-1 | 24.09.1992 | 0.888 |  |  | 0.4 | 2.1 | - | - | -53.0 | 104.0 | - | - | 128.5 | - | - | 31.5 | 0.1 | 225.0 | - | 3.0 | 22.0 |
| 21 | 22 | 636 | 640 | Ю-I-1 | 16.11.1999 | 0.886 |  |  | 0.4 | 1.8 |  |  | -15.0 | 94.0 |  |  | 144.4 |  |  | 32.8 | 0.1 | 234.0 | - | 3.0 | 23.0 |
| 22 | 65 | 626 | 635 | Ю-I-1 | 16.11.1999 | 0.888 |  |  | 0.4 |  |  |  | -15.0 |  |  |  | 141.7 |  |  | 32.6 | 0.1 | 225.0 |  | 4.5 | 24.0 |
| 23 | 7 | 638 | 641 | Ю-I-1 | 2003 | 0.890 | 8.9 |  | 0.4 | 2.1 |  |  |  | 69.0 |  |  | 138.4 |  |  | 31.0 | 0.1 | 232.0 | - | 3.0 | 24.0 |
| 24 | 23 | 638 | 645 | Ю-I-1 | 2003 | 0.886 |  |  | 0.3 | 2.0 |  |  |  | 72.0 |  |  | 130.2 |  |  | 31.6 | 0.1 | 230.0 | - | 2.0 | 23.0 |
| 25 | 23 | 638 | 645 | Ю-I-1 | 2003 | 0.886 |  |  | 0.3 | 2.0 |  |  |  | 72.0 |  |  | 130.2 |  |  | 31.6 | 0.1 | 230.0 | - | 2.0 | 23.0 |
| 26 | 29 | 631 | 639 | Ю-I-1 | 2003 | 0.885 |  |  | 0.3 | 2.0 | 0.7 | 52.0 | -15.0 | 70.0 |  |  | 131.7 |  |  | 30.2 | 0.1 | 200.0 | - | 3.0 | 22.0 |
| 27 | 32 | 636 | 643 | Ю-I-1 | 2003 | 0.891 | 9.2 |  | 0.4 | 2.3 |  |  |  | 87.0 |  |  | 144.7 |  |  | 31.7 | 0.2 | 250.0 | - | - | 23.0 |
| 28 | 44 | 636 | 640 | Ю-I-1 | 2003 | 0.885 |  |  | 0.4 | 2.1 |  |  | -15.0 | 82.0 |  |  | 135.0 |  |  | 30.5 | 0.1 | 236.0 | - | 2.0 | 17.0 |
| 29 | 48 | 641 | 644.5 | Ю-I-1 | 2003 | 0.880 |  |  | 0.3 | 2.0 |  |  | -15.0 | 67.0 |  |  |  |  |  | 27.9 | 0.1 | 223.0 | - | 2.0 | 20.0 |
| 30 | 49 | 636 | 644 | Ю-I-1 | 2003 | 0.887 |  |  | 0.3 | 1.8 |  |  |  | 73.0 |  |  | 129.8 |  |  | 31.7 | 0.1 | 230.0 | - | 2.0 | 23.0 |
| 31 | 21 | 623 | 626 | Ю-I-1 | 2003 | 0.887 |  |  | 0.4 | 2.1 | 0.7 | 52.0 |  | 76.0 |  |  | 132.7 |  |  | 20.5 | 0.1 | 248.0 | - | 0.5 | 25.0 |
| 32 | 40 | 625 | 631 | Ю-I-1 | 2003 | 0.884 | 7.0 |  | 0.3 | 2.0 |  |  | -15.0 | 80.0 |  |  | 119.5 |  |  | 28.5 | 0.1 | 212.0 | - | 3.0 | 23.0 |
| 33 | 7 | 638 | 641 | Ю-I-1 | 16.06.2005 | 0.890 |  |  | 0.4 | 2.1 |  |  | -44.0 | 69.0 | 608.4 | 277.9 | 138.4 | 79.5 | 48.1 | 31.5 | 0.1 | 232.0 |  | 3.0 | 24.0 |
| 34 | 7 | 638 | 641 | Ю-I-1 | 25.06.2005 | 0.890 | 8.9 |  | 0.4 | 2.1 |  |  |  | 69.0 |  |  | 138.4 |  |  | 31.0 | 0.1 | 232.0 | - | 3.0 | 24.0 |
| 35 | 22 | 634 | 640 | Ю-I-1 | 25.06.2005 | 0.886 |  |  | 0.3 | 2.0 |  |  |  | 72.0 |  |  | 136.2 |  |  | 31.2 | 0.1 | 239.0 | - | 0.5 | 25.0 |
| 36 | 23 | 638 | 645 | Ю-I-1 | 16.06.2005 | 0.886 |  |  | 0.3 | 2.0 |  |  | -40.0 |  |  |  | 130.2 |  |  | 31.6 | 0.1 | 230.0 |  | 2.0 | 23.0 |
| 37 | 23 | 638 | 645 | Ю-I-1 | 21.06.2005 | 0.887 |  |  | 0.3 | 2.2 |  |  | -17.0 | 90.0 |  |  | 126.0 |  |  | 31.3 | 0.1 | 234.0 | - | 5.0 | 24.0 |
| 38 | 23 | 638 | 645 | Ю-I-1 | 25.06.2005 | 0.886 |  |  | 0.3 | 2.0 |  |  |  | 72.0 |  |  | 130.2 |  |  | 31.6 | 0.1 | 230.0 | - | 2.0 | 23.0 |
| 39 | 25 | 635 | 640 | Ю-I-1 | 21.06.2005 | 0.886 | 7.3 |  | 0.3 | - |  |  | -17.0 | 102.0 |  |  | 126.1 |  |  | 33.2 | 0.1 | 235.0 | - | 3.5 | 23.0 |
| 40 | 29 | 631 | 639 | Ю-I-1 | 16.06.2005 | 0.885 |  |  | 0.3 | 2.0 | 0.7 | - | -43.0 | 70.0 |  |  | 131.7 |  |  | 30.2 | 0.1 | 200.0 |  | 3.5 | 22.0 |
| 41 | 29 | 631 | 639 | Ю-I-1 | 25.06.2005 | 0.885 |  |  | 0.3 | 2.0 | 0.7 | 52.0 | -15.0 | 70.0 |  |  | 131.7 |  |  | 30.2 | 0.1 | 200.0 | - | 3.0 | 22.0 |
| 42 | 32 | 636 | 643 | Ю-I-1 | 16.06.2005 | 0.891 | 9.2 |  | 0.4 | 2.3 |  |  | -40.0 | 87.0 | 636.5 | 286.9 | 144.7 | 81.7 | 51.0 | 31.9 | 0.2 | 250.0 |  |  | 23.0 |
| 43 | 32 | 636 | 643 | Ю-I-1 | 25.06.2005 | 0.891 | 9.2 |  | 0.4 | 2.3 |  |  |  | 87.0 |  |  | 144.7 |  |  | 31.7 | 0.2 | 250.0 | - | - | 23.0 |
| 44 | 36 | 626 | 647 | Ю-I-1 | 21.06.2005 | 0.884 |  |  | 0.4 | 1.9 |  |  | -17.0 | 82.0 |  |  | 116.2 |  |  | 28.5 | 0.1 | 231.0 |  | 3.0 | 26.0 |
| 45 | 41 | 636 | 641 | Ю-I-1 | 21.06.2005 | 0.883 |  |  | 0.3 | 2.0 |  |  | -15.0 | 104.0 |  |  | 149.7 |  |  | 30.6 | 0.1 | 210.0 |  | 6.5 | 30.0 |
| 46 | 22 | 636 | 640 | Ю-I-1 | 16.06.2005 | 0.888 |  |  | 0.3 | 2.0 |  |  | -41.0 |  | 586.1 | 270.7 | 136.2 | 80.4 | 48.1 | 31.2 | 0.1 | 239.0 |  | 0.5 | 25.0 |
| 47 | 44 | 636 | 640 | Ю-I-1 | 16.06.2005 | 0.885 |  |  | 0.4 | 2.1 |  |  | -41.0 |  | 589.5 | 270.4 | 138.5 | 78.1 | 48.5 | 30.7 | 0.1 | 236.0 |  | 2.5 | 17.0 |
| 48 | 44 | 636 | 640 | Ю-I-1 | 25.06.2005 | 0.885 |  |  | 0.4 | 2.1 |  |  | -15.0 | 82.0 |  |  | 135.0 |  |  | 30.5 | 0.1 | 236.0 | - | 2.0 | 17.0 |
| 49 | 46 | 638 | 644.5 | Ю-I-1 | 21.06.2005 | 0.883 |  |  | 0.5 | 2.2 |  |  | -15.0 | 85.0 |  |  | 140.2 |  |  | 31.3 | 0.1 | 220.0 |  | 7.0 | 22.0 |
| 50 | 48 | 611 | 640 | Ю-I-1 | 16.06.2005 | 0.881 |  |  | 0.3 | 2.2 |  |  | -45.0 |  |  |  | 121.0 |  |  | 28.3 | 0.1 | 223.0 |  | 2.0 | 20.0 |
| 51 | 48 | 641 | 644.5 | Ю-I-1 | 25.06.2005 | 0.880 |  |  | 0.3 | 2.0 |  |  | -15.0 | 67.0 |  |  |  |  |  | 27.9 | 0.1 | 223.0 | - | 2.0 | 20.0 |
| 52 | 49 | 636 | 644 | Ю-I-1 | 25.06.2005 | 0.887 |  |  | 0.3 | 1.8 |  |  |  | 73.0 |  |  | 129.8 |  |  | 31.7 | 0.1 | 230.0 | - | 2.0 | 23.0 |
| 53 | 51 | 634 | 639 | Ю-I-1 | 21.06.2005 | 0.886 |  |  | 0.4 |  |  |  | -17.0 | 104.0 |  |  | 137.2 |  |  | 31.4 | 0.1 | 243.0 |  | 1.0 | 23.5 |
| 54 | 6 Н | 638 | 641 | Ю-I-1 | 21.06.2005 | 0.883 |  |  | 0.4 | 2.0 |  |  | -15.0 | 100.0 |  |  | 119.9 |  |  | 28.3 | 0.1 | 215.0 | - | 5.5 | 25.0 |
| 55 | 7 Н | 637 | 643 | Ю-I-1 | 21.06.2005 | 0.843\* |  |  | 0.4 | 2.1 |  |  | -15.0 | 98.0 |  |  | 121.1 |  |  | 29.4 | 0.1 | 184.0 | - | 4.0 | 24.0 |
| 56 | 1 | 624 | 637 | Ю-I-1 | 21.06.2005 | 0.884 |  |  | 0.4 | 2.3 |  |  |  | 78.0 |  |  | 128.4 |  |  | 29.5 | 0.2 | 180.0 | 2.5 | 10.0 | 45.0 |
| 57 | 21 | 623 | 626 | Ю-I-1 | 16.06.2005 | 0.887 |  |  | 0.4 | 2.1 | 0.7 | - | -43.0 | 76.0 | 568.7 | 263.6 | 132.7 | 77.5 | 46.5 | 20.7 | 0.1 | 248.0 |  | 0.5 | 25.0 |
| 58 | 21 | 623 | 626 | Ю-I-1 | 25.06.2005 | 0.887 |  |  | 0.4 | 2.1 | 0.7 | 52.0 |  | 76.0 |  |  | 132.7 |  |  | 20.5 | 0.1 | 248.0 | - | 0.5 | 25.0 |
| 59 | 33 | 635 | 641 | Ю-I-1 | 21.06.2005 | 0.887 |  |  | 0.3 | 3.6 |  |  | -15.0 | 92.0 |  |  | 130.9 |  |  | 30.6 | 0.1 | 235.0 | - | 3.0 | 22.0 |
| 60 | 35 | 629 | 640 | Ю-I-1 | 21.06.2005 | 0.883 |  |  | 0.4 | 2.0 |  |  | -15.0 | 98.0 |  |  | 135.8 |  |  | 29.0 | 0.1 | 220.0 |  | 6.0 | 26.0 |
| 61 | 40 | 625 | 631 | Ю-I-1 | 25.06.2005 | 0.884 | 7.0 |  | 0.3 | 2.0 |  |  | -15.0 | 80.0 |  |  | 119.5 |  |  | 28.5 | 0.1 | 212.0 | - | 3.0 | 23.0 |
| 62 | 65 | 626 | 641 | Ю-I-1 | 21.11.2014 | 0.888 | 12.7 |  | 0.4 | 2.0 | 0.7 | 52.5 | -42.0 | 97.0 |  | 236.8 | 162.2 | 72.9 | 45.3 | 29.9 | 0.1 | 220.0 | - | 3.0 | 13.0 |
| 63 | 32 | 636 | 643 | Ю-I-1 | 08.09.2017 | 0.887 | 12.5 |  | 0.4 | 1.3 | 0.0 | 53.0 | -20.0 | 79.0 |  | 275.0 | 142.4 | 80.7 | 49.4 | 32.3 | 0.1 | 220.0 | - | 4.0 | 21.0 |
| 64 | 1 | 630 | 637 | Ю-I-1 | 23.08.2018 | 0.885 | 11.8 |  | 0.4 | 1.1 | 0.4 | 53.4 | -20.0 | 53.0 |  | 262.0 | 137.8 | 79.2 | 48.8 | 32.1 | 0.2 | 220.0 | - | 3.0 | 20.0 |
| 65 | 66 | 624 | 630 | Ю-I-1 | 23.08.2018 | 0.886 | 12.5 |  | 0.4 | 1.2 | 0.3 | 53.3 | -20.0 | 57.0 |  | 271.3 | 141.4 | 80.4 | 49.7 | 32.4 | 0.2 | 230.0 | - | 2.0 | 18.0 |
| 66 | 70 | 628 | 637.5 | Ю-I-1 | 05.07.2019 | 0.885 | 12.4 |  | 0.4 | 1.2 | 0.7 | 53.0 | -50.0 | 57.0 |  | 223.6 | 119.9 | 69.1 | 41.9 | 27.9 | 0.2 | 220.0 | - | 5.0 | 19.0 |
| 67 | 32 | 641 | 642.5 | Ю-I-1 | 04.04.2022 | 0.885 | 10.8 |  | 0.2 | 5.4 | 0.9 | 53.4 | -54.0 | 75.0 |  | 254.7 | 133.1 | 76.0 | 46.8 | 30.7 | 0.2 | 180.0 | 2.0 | 7.0 | 12.0 |
| **Среднее значение Ю-I-1** | | | | | | **0.886** | **9.6** | **0.2** | **0.4** | **2.1** | **0.7** | **52.0** | **-26.2** | **88.2** | **594.0** | **262.9** | **134.8** | **77.7** | **47.6** | **30.7** | **0.1** | **227.6** | **2.2** | **3.1** | **22.6** |
| 68 | 40 | 625 | 648 | Ю-I-1+2 | 16.06.2005 | 0.884 | 7.4 |  | 0.3 | 2.0 |  |  | -40.0 | 80.0 |  |  | 119.5 |  |  | 28.5 | 0.1 | 212.0 |  | 3.0 | 23.0 |
| 69 | 40 | 625 | 648 | Ю-I-1+2 | 21.06.2005 | 0.890 | 7.4 |  | 0.4 | 2.2 |  |  | -15.0 | 102.0 |  |  | 205.7 |  |  | 42.9 | 0.2 | 260.0 |  | - | 19.0 |
| 70 | 71 | 632 | 651 | Ю-I-1+2 | 20.07.2012 | 0.884 | 12.1 |  | 0.4 | 1.9 | 0.8 | 52.3 | -42.0 | 92.0 |  | 205.4 | 109.6 | 63.8 | 40.1 | 26.7 | 0.1 | 225.0 |  | 4.0 | 24.0 |
| 71 | 71 | 632 | 651 | Ю-I-1+2 | 21.11.2014 | 0.887 | 12.5 |  | 0.4 | 1.9 | 0.7 | 52.4 | -42.0 | 93.0 |  | 222.2 | 118.2 | 68.6 | 43.0 | 28.6 | 0.1 | 218.0 |  | 5.0 | 21.0 |
| 72 | 70 | 628 | 649 | Ю-I-1+2 | 09.06.2016 | 0.884 | 11.7 |  | 0.4 | 1.1 | 0.4 | 53.2 | -50.0 | 55.0 |  | 213.8 | 114.1 | 66.3 | 41.5 | 27.7 | 0.1 | 225.0 |  | 4.0 | 19.0 |
| 73 | 70 | 628 | 649 | Ю-I-1+2 | 11.06.2016 | 0.883 | 12.0 |  | 0.4 | 1.1 | 0.8 | 53.0 | -50.0 | 55.0 |  | 205.1 | 109.8 | 64.0 | 40.1 | 26.8 | 0.2 | 225.0 |  | 4.0 | 19.0 |
| 74 | 67 | 626 | 646 | Ю-I-1+2 | 10.03.2017 | 0.888 | 12.5 |  | 0.4 | 1.2 | 0.0 | 53.0 | -42.0 | 59.0 |  | 314.7 | 160.3 | 89.9 | 54.3 | 35.4 | 0.2 | 230.0 |  | 3.0 | 17.0 |
| 75 | 70 | 628 | 649 | Ю-I-1+2 | 10.03.2017 | 0.883 | 11.6 |  | 0.4 | 1.1 | 0.4 | 53.2 | -50.0 | 56.0 |  | 214.0 | 114.1 | 66.6 | 41.5 | 27.6 | 0.2 | 225.0 |  | 4.0 | 19.0 |
| **Среднее значение Ю-I-1+2** | | | | | | **0.885** | **10.9** |  | **0.4** | **1.6** | **0.5** | **52.9** | **-41.4** | **74.0** |  | **229.2** | **131.4** | **69.9** | **43.4** | **30.5** | **0.1** | **227.5** |  | **3.9** | **20.1** |
| 76 | 7 | 825 | 833 | Ю-II | 03.03.1983 | 0.882 | - |  | 0.4 |  | - | - | - | 99.0 |  |  | 112.7 |  |  | 19.3 |  |  | 1.2 |  | 32.4 |
| 77 | 63 | 825 | 828 | Ю-II | 20.01.1993 | 0.886 | 7.4 |  | 0.3 | 2.0 | 0.7 | - | -40.0 | 70.0 | - | - | 120.4 | - | - | 29.6 | - | 228.0 | - | 4.0 | 24.0 |
| **Среднее значение Ю-II** | | | | | | **0.884** | **7.4** |  | **0.4** | **2.0** | **0.7** |  | **-40.0** | **85.0** |  |  | **116.6** |  |  | **24.5** |  | **228.0** | **1.2** | **4.0** | **28.2** |

**Таблица 2.3.3 – Компонентный состав газа после однократного разгазирования.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| №/№ | Скв.№ | Дата отбора | И.П. кровляя | m | И.П. Подошва | m | Горизонт | Метан | Этан | Пропан | ∑ бутаны | С5+высшие | Углекислый газ | Азот | Плотность. г/дм3 | Удельный вес по воздуху. г/см3 |
| 1 | 23 | 01.10.1993 | 638 | 645 | Ю-I-1 | 87.0 | 6.9 | 1.3 | 0.140 |  | 0.10 | 4.4 | 0.754 | 0.626 |
| 2 | 23 | 11.06.1999 | 638 | 645 | Ю-I-1 | 89.4 | 4.4 | 1.5 | 0.210 |  |  | 4.5 | 0.740 | 0.614 |
| 3 | 29 | 11.06.1999 | 631 | 639 | Ю-I-1 | 89.1 | 5.9 | 1.3 | 0.170 | 0.2 |  | 3.1 | 0.749 | 0.622 |
| 4 | 64 | 11.06.1999 | 638 | 641 | Ю-I-1 | 84.9 | 5.8 | 0.4 | 0.100 |  | 0.31 | 8.4 | 0.756 | 0.627 |
| 5 | 32 | 24.07.2001 | 636 | 643 | Ю-I-1 | 88.2 | 3.6 | 1.4 | 0.450 |  | 0.25 | 6.2 | 0.745 | 0.618 |
| 6 | 40 | 24.07.2001 | 625 | 631 | Ю-I-1 | 90.1 | 4.2 | 1.3 | 0.480 |  |  | 4.0 | 0.742 | 0.616 |
| 7 | 51 | 24.07.2001 | 634 | 639 | Ю-I-1 | 87.3 | 4.5 | 2.1 | 0.150 |  | 0.25 | 5.8 | 0.759 | 0.630 |
| 8 | 66 | 24.07.2001 | 628 | 633 | Ю-I-1 | 90.2 | 4.1 | 1.2 | 0.550 |  |  | 4.0 | 0.738 | 0.612 |
| 9 | 23 | 11.09.2003 | 638 | 645 | Ю-I-1 | 88.2 | 3.6 | 1.4 | 0.450 |  | 0.25 | 6.2 | 0.745 | 0.618 |
| 10 | 29 | 11.09.2003 | 631 | 639 | Ю-I-1 | 89.1 | 5.9 | 1.3 | 0.170 | 0.3 |  | 3.1 | 0.749 | 0.622 |
| 11 | 32 | 11.09.2003 | 636 | 643 | Ю-I-1 | 89.4 | 4.4 | 1.5 | 0.250 |  |  | 4.5 | 0.740 | 0.614 |
| 12 | 44 | 11.09.2003 | 636 | 640 | Ю-I-1 | 92.6 | 1.5 | 0.2 | 0.020 |  |  | 5.7 | 0.708 | 0.588 |
| 13 | 71 | 20.07.2012 | 632 | 651 | Ю-I-1 | 92.6 | 0.2 | 0.1 | 0.010 | 0.0 | 0.14 | 6.9 | 0.708 | 0.588 |
| 14 | 72 | 14.03.2017 | 632 | 635 | Ю-I-1 | 93.6 | 0.2 | 0.0 | 0.006 | 0.0 | 0.13 | 5.8 | 0.705 | 0.585 |
| 15 | 32 | 04.04.2022 | 641 | 642.5 | Ю-I-1 | 95.8 | 0.3 | 0.4 | 0.029 | 0.1 | 0.04 | 3.4 | 0.694 | 0.576 |
| **среднее значение по Ю-I-1** | | | | | | **89.8** | **3.7** | **1.0** | **0.212** | **0.1** | **0.18** | **5.1** | **0.735** | **0.610** |
| 16 | 67 | 10.03.2017 | 626 | 646 | Ю-I-1+2 | 91.3 | 0.1 | 0.0 | 0.001 |  | 0.00 | 8.4 | 0.712 | 0.591 |
| 17 | 70 | 09.06.2016 | 628 | 649 | Ю-I-1+2 | 94.1 | 0.1 | 0.1 | 0.001 |  | 0.01 | 5.5 | 0.698 | 0.580 |
| **среднее значение по Ю-I-1+2** | | | | | | **92.7** | **0.1** | **0.03** | **0.001** |  | **0.01** | **6.9** | **0.705** | **0.586** |