Table 10: Natural gas, wet after lease separation, proved reserves, reserves changes from shale plays, by states and areas, 2023 (billion cubic feet)

| | Changes in proved reserves during 2023 | | | | | | | | |
|-------------------------|--|-------------|--------------|--------------|-------------|------------|-------------|--------------|-------------|
| | Proved | Revisions | | | Extensions | | Proved | Proved | Proved |
| | reserves of | and other | | | and | Estimated | producing | nonproducing | reserves of |
| | shale plays | changes (b) | Divestitures | Acquisitions | discoveries | production | reserves of | reserves of | shale plays |
| State and Subdivision | 12/31/22 | (+,-) | (-) | (+) | (+) | (-) | shale plays | shale plays | 12/31/23 |
| Alaska | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lower 48 States | 431,413 | -52,423 | 8,447 | 20,517 | 34,262 | 32,228 | 236,747 | 156,346 | 393,094 |
| Arkansas | 5,341 | -1,144 | 0 | 0 | 0 | 361 | 3,655 | 181 | 3,836 |
| Colorado | 9,546 | -1,029 | 4,392 | 3,345 | 238 | 746 | 4,420 | 2,543 | 6,964 |
| Kansas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 34,770 | -4,391 | 53 | 708 | 2,799 | 3,975 | 13,514 | 16,344 | 29,858 |
| North Onshore | 34,770 | -4,391 | 53 | 708 | 2,799 | 3,975 | 13,514 | 16,344 | 29,858 |
| South Onshore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan | 1,246 | -150 | 0 | 32 | 0 | 61 | 1,067 | 0 | 1,067 |
| Mississippi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 395 | 55 | 0 | 6 | 25 | 20 | 231 | 229 | 460 |
| Nebraska | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 25,794 | -1,861 | 334 | 986 | 6,019 | 2,384 | 12,727 | 15,493 | 28,220 |
| East | 25,794 | -1,861 | 334 | 986 | 6,019 | 2,384 | 12,727 | 15,493 | 28,220 |
| West | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 12,822 | -1,196 | 452 | 687 | 1,173 | 1,155 | 8,654 | 3,225 | 11,879 |
| Ohio | 32,362 | -3,769 | 114 | 199 | 1,951 | 2,174 | 15,507 | 12,948 | 28,455 |
| Oklahoma | 24,025 | -5,201 | 8 | 235 | 1,216 | 1,444 | 12,488 | 6,334 | 18,823 |
| Pennsylvania | 104,998 | -3,051 | 430 | 76 | 7,152 | 7,502 | 70,782 | 30,462 | 101,243 |
| Texas | 130,448 | -25,019 | 2,664 | 11,582 | 9,309 | 9,330 | 64,503 | 49,822 | 114,326 |
| RRC District 1 | 10,236 | -1,594 | 882 | 2,047 | 1,013 | 746 | 5,141 | 4,932 | 10,073 |
| RRC District 2 Onshore | 5,834 | -1,295 | 1 | 228 | 663 | 645 | 2,572 | 2,212 | 4,785 |
| RRC District 3 Onshore | 176 | 310 | 66 | 12 | 6 | 8 | 345 | 85 | 430 |
| RRC District 4 Onshore | 16,390 | -1,142 | 706 | 679 | 1,910 | 759 | 5,828 | 10,543 | 16,371 |
| RRC District 5 Onshore | 6,946 | -1,503 | 1 | 1 | 529 | 481 | 4,578 | 915 | 5,492 |
| RRC District 6 Onshore | 26,315 | -9,537 | 2 | 4,387 | 795 | 1,546 | 6,531 | 13,881 | 20,412 |
| RRC District 7B Onshore | 1,223 | -311 | 0 | 0 | 0 | 66 | 818 | 28 | 846 |
| RRC District 7C Onshore | 11,699 | -2,929 | 192 | 1,848 | 608 | 876 | 7,765 | 2,393 | 10,158 |
| RRC District 8 Onshore | 43,647 | -4,598 | 814 | 2,378 | 3,747 | 3,853 | 26,980 | 13,528 | 40,509 |
| RRC District 8A Onshore | 160 | 42 | 0 | 2 | 38 | 12 | 114 | 116 | 230 |
| RRC District 9 Onshore | 7,823 | -2,463 | 0 | 0 | 0 | 340 | 3,830 | 1,190 | 5,020 |
| RRC District 10 Onshore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| State Offshore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 48,226 | -5,752 | 0 | 2,662 | 3,917 | 2,997 | 28,333 | 17,723 | 46,056 |
| Wyoming | 1,174 | 72 | 0 | 0 | 443 | 58 | 599 | 1,031 | 1,631 |
| Federal Offshore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Shale States (a) | 264 | 14 | 0 | 0 | 19 | 20 | 267 | 11 | 278 |
| U.S. Total | 431,413 | -52,423 | 8,447 | 20,517 | 34,262 | 32,228 | 236,747 | 156,346 | 393,094 |

⁽a) Includes Alabama, California, Florida, Illinois, Indiana, Kentucky, Missouri, New York, South Dakota, Tennessee, Utah, and Virginia.

(b) Annual balancing item calculated by EIA.

Notes: The above table is based on shale natural gas proved reserves and production volumes reported and imputed from data on Form EIA-23L. For certain reasons (e.g. incorrect or incomplete respondent submissions, respondent mis-identification of shale vs non-shale reservoirs) the actual proved reserves and production of natural gas from shales may be higher or lower. The production estimates are offered only as an observed indicator of production trends and may differ from official EIA production volumes listed elsewhere on the EIA web site.

Natural gas is measured at 60 degrees Farenheit and atmospheric pressure base of 14.73 pounds per square inch (psia)

Source: U.S. Energy Information Administration, Form EIA-23L, "Annual Report of Domestic Oil and Gas Proved Reserves," 2022 and 2023.