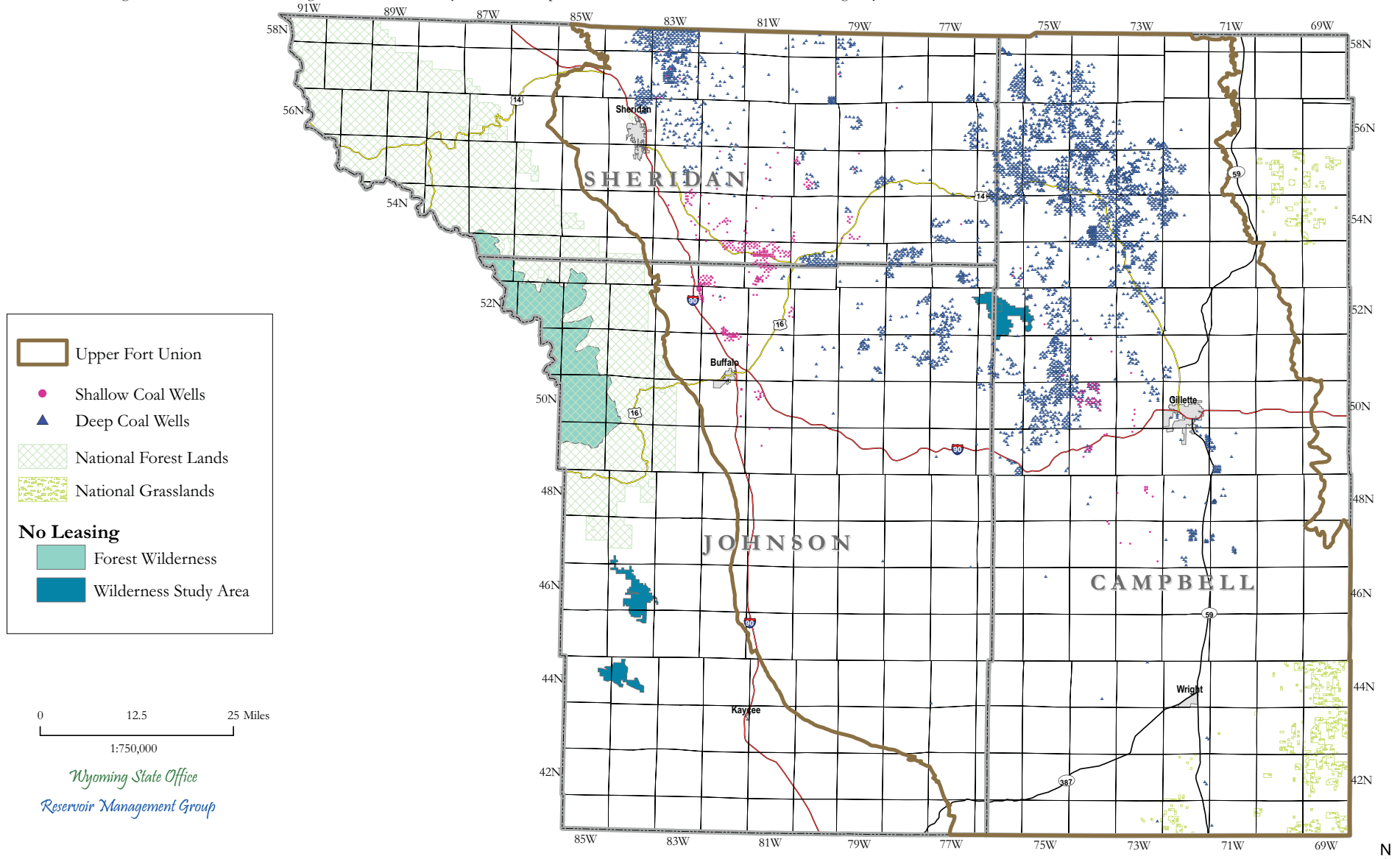


Figure A1-2.

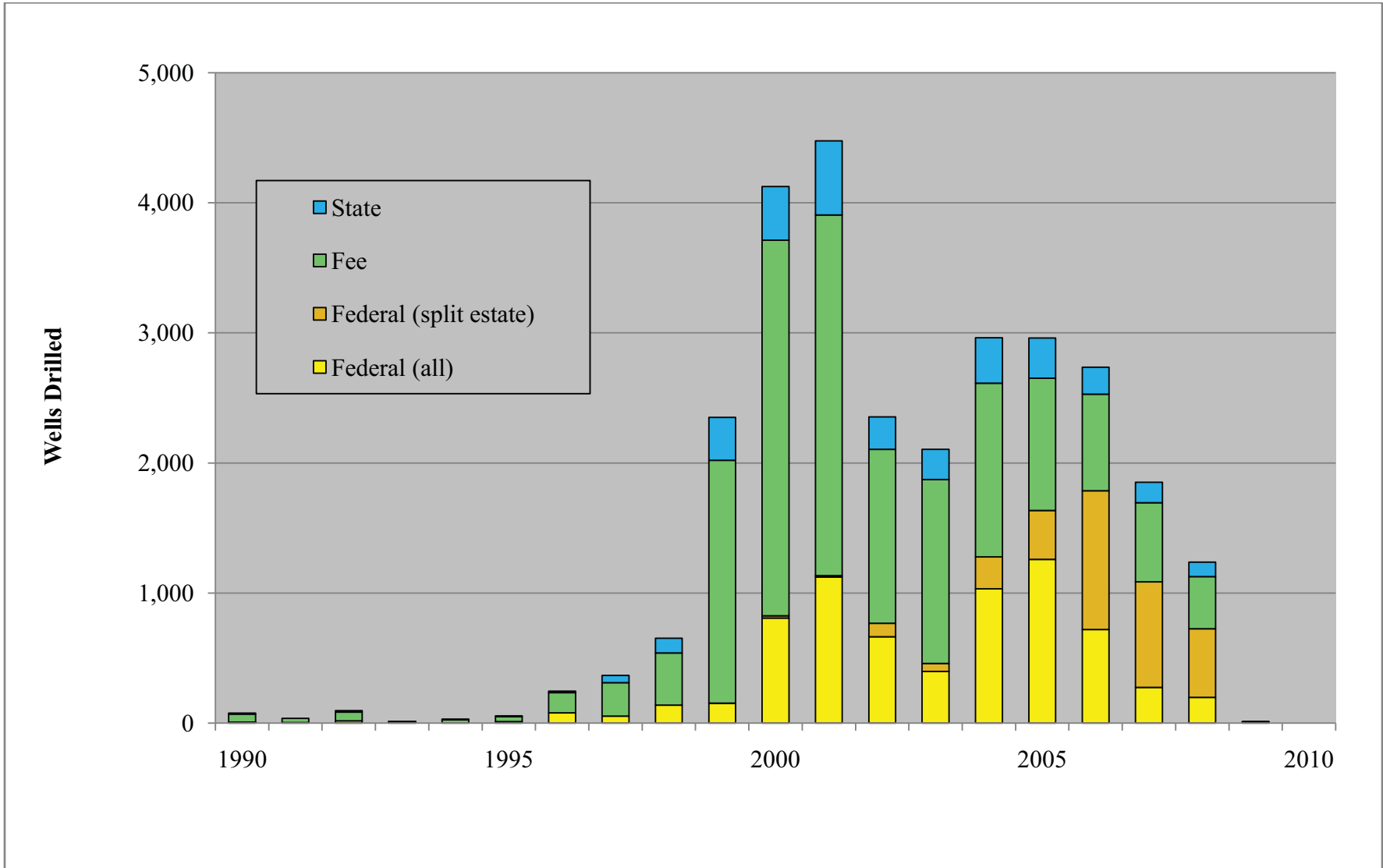
Deep and shallow coalbed natural gas wells in the Buffalo Planning Area. Note the scarcity of wells to deep coals south of Interstate 90 and west of U.S. Highway 59.



No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data was compiled from various sources. This information was developed through digital means and may be updated without notification.

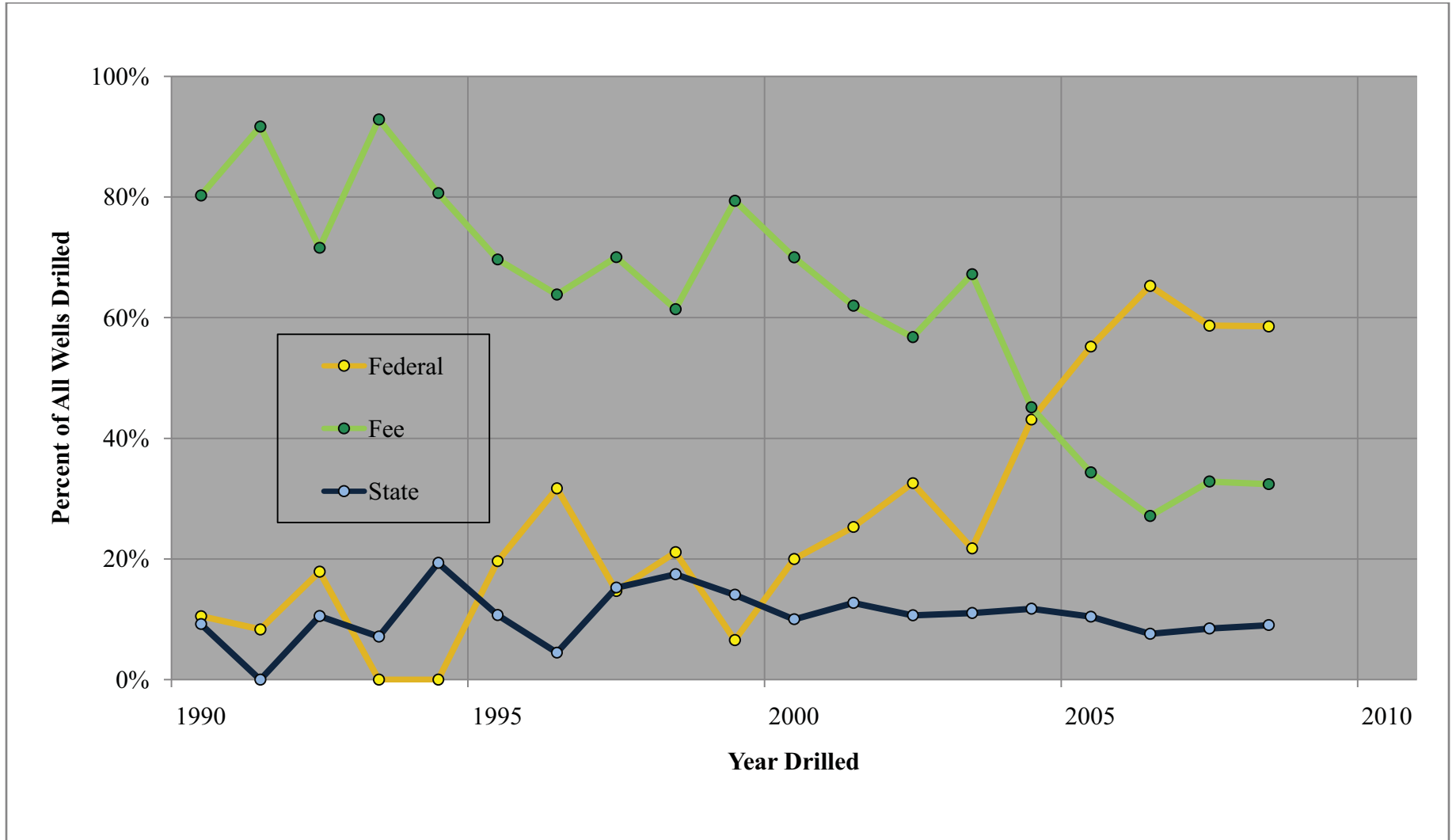
Wyoming State Office
Reservoir Management Group

Figure A1-3. Coalbed natural gas wells drilled annually in the Buffalo Field Office area since 1990. Mineral ownership is also shown. Note the change between Fee and Federal ownership. Data from Wyoming Oil and Gas Conservation Commission (2009) and IHS Energy Group (2009).



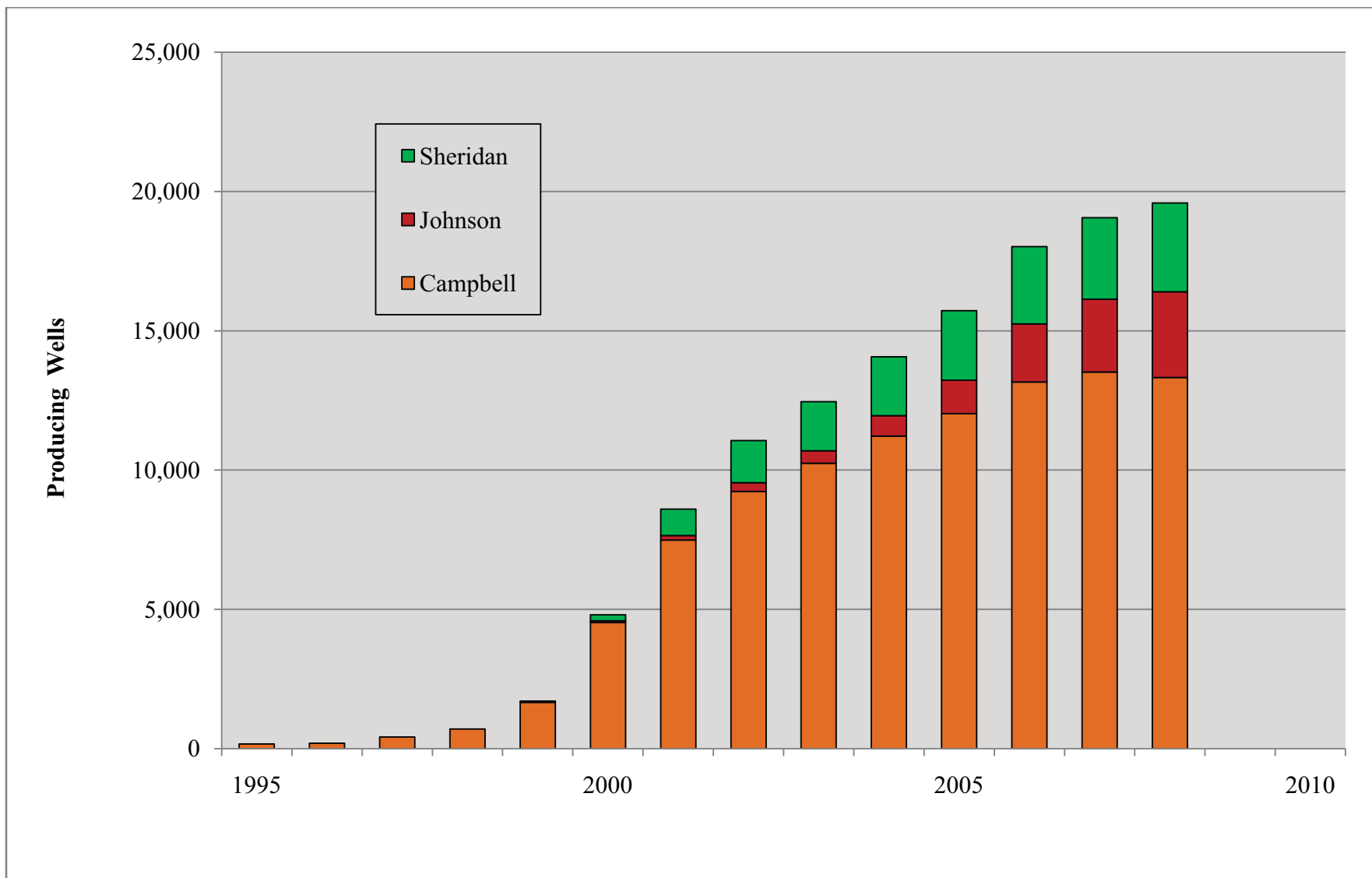
WYOMING STATE OFFICE
RESERVOIR MANAGEMENT GROUP

Figure A1-4. Coalbed natural gas wells drilled annually within the Buffalo Planning Area by mineral ownership. Note that Fee and Federal wells have reversed trends. Data from Wyoming Oil and Gas Conservation Commission (2009) and the IHS Energy Group (2009).



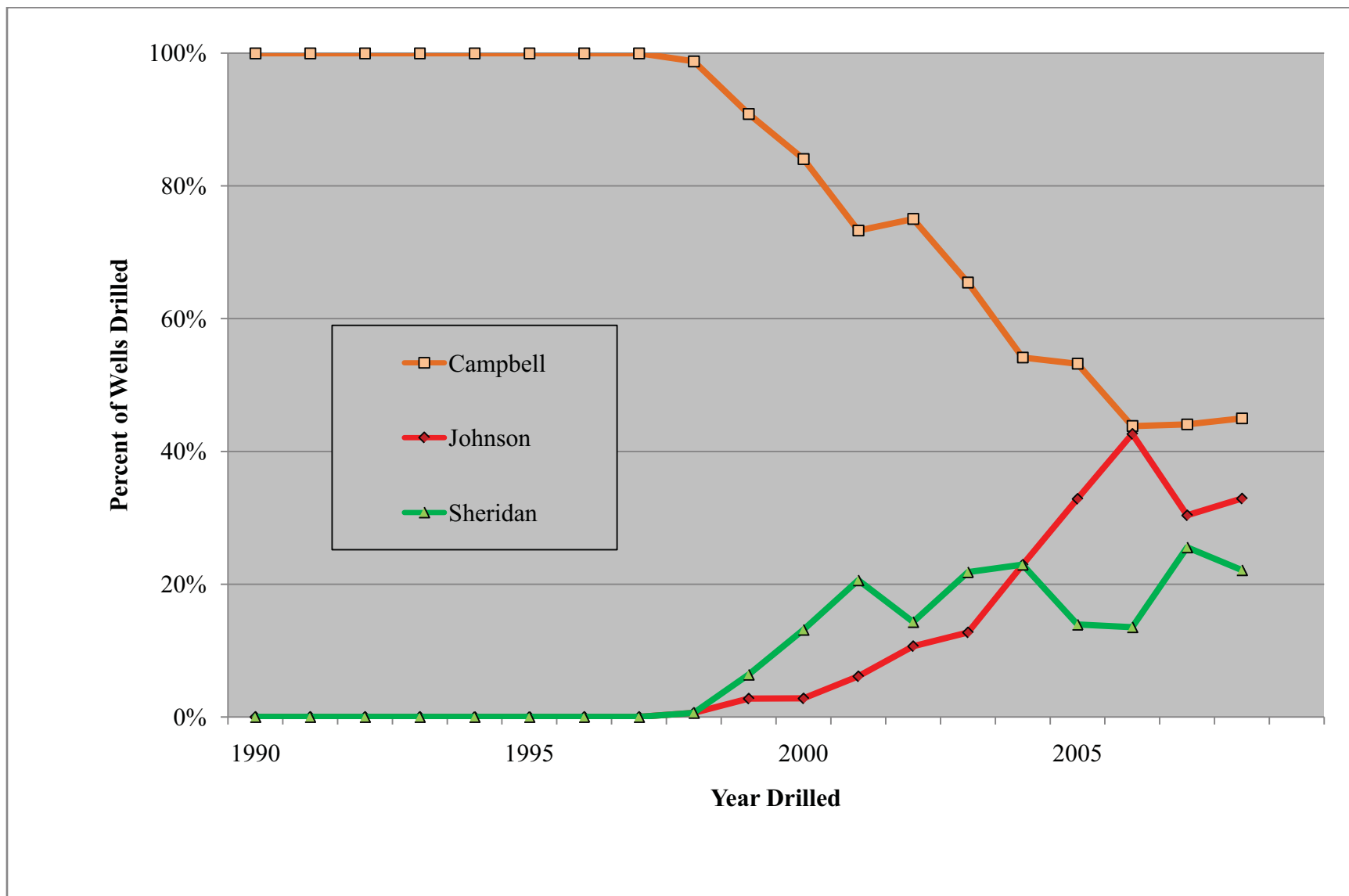
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Figure A1-5. Annual producing coalbed natural gas wells within the Buffalo Planning Area by county. Note that Campbell County contains far more wells than Sheridan and Johnson counties combined. Data from IHS Energy Group (2009).



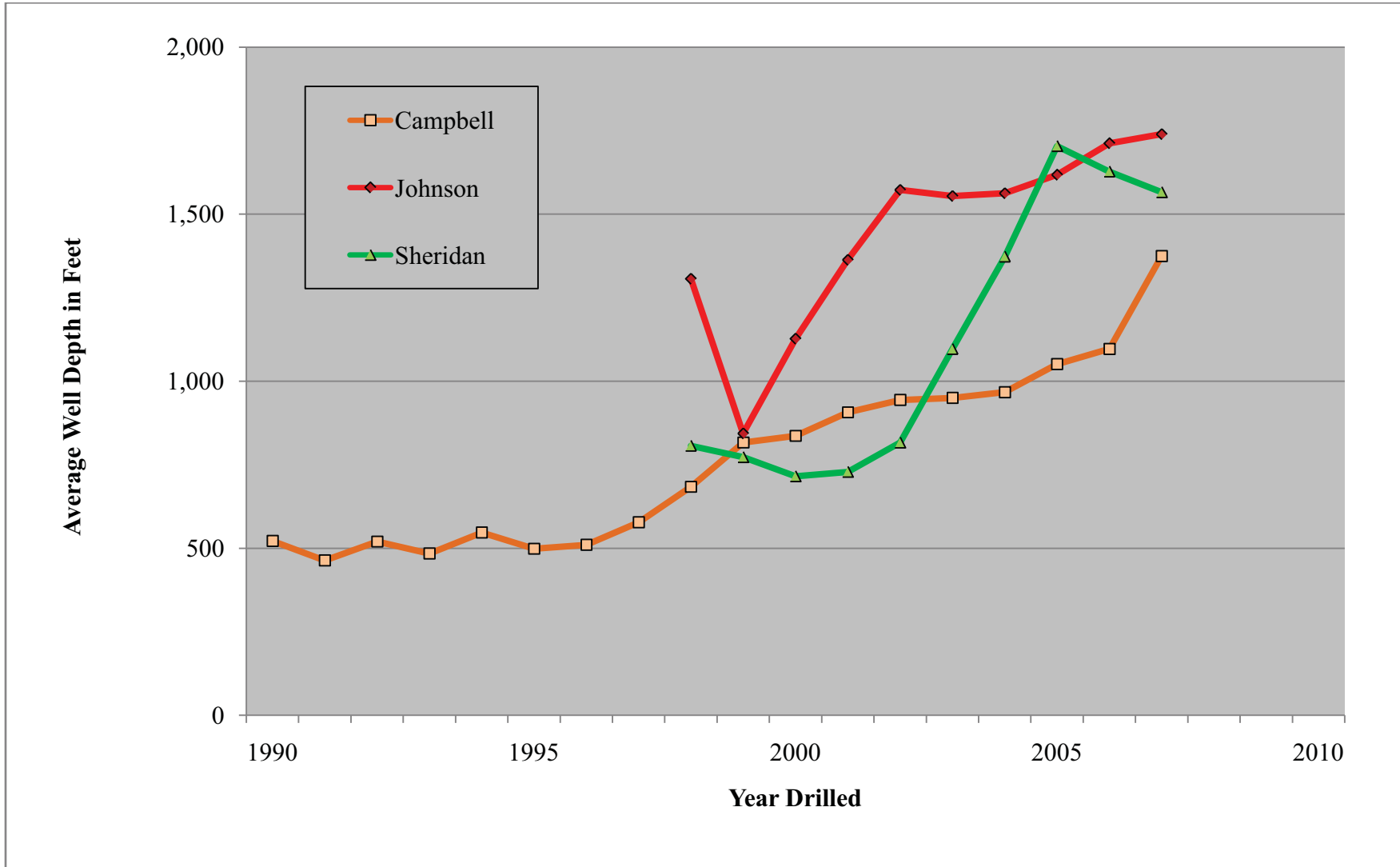
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Figure A1-6. Annual proportion of coalbed natural gas wells drilled in each of the counties in the Buffalo Planning Area. Data from IHS Energy Group (2009).



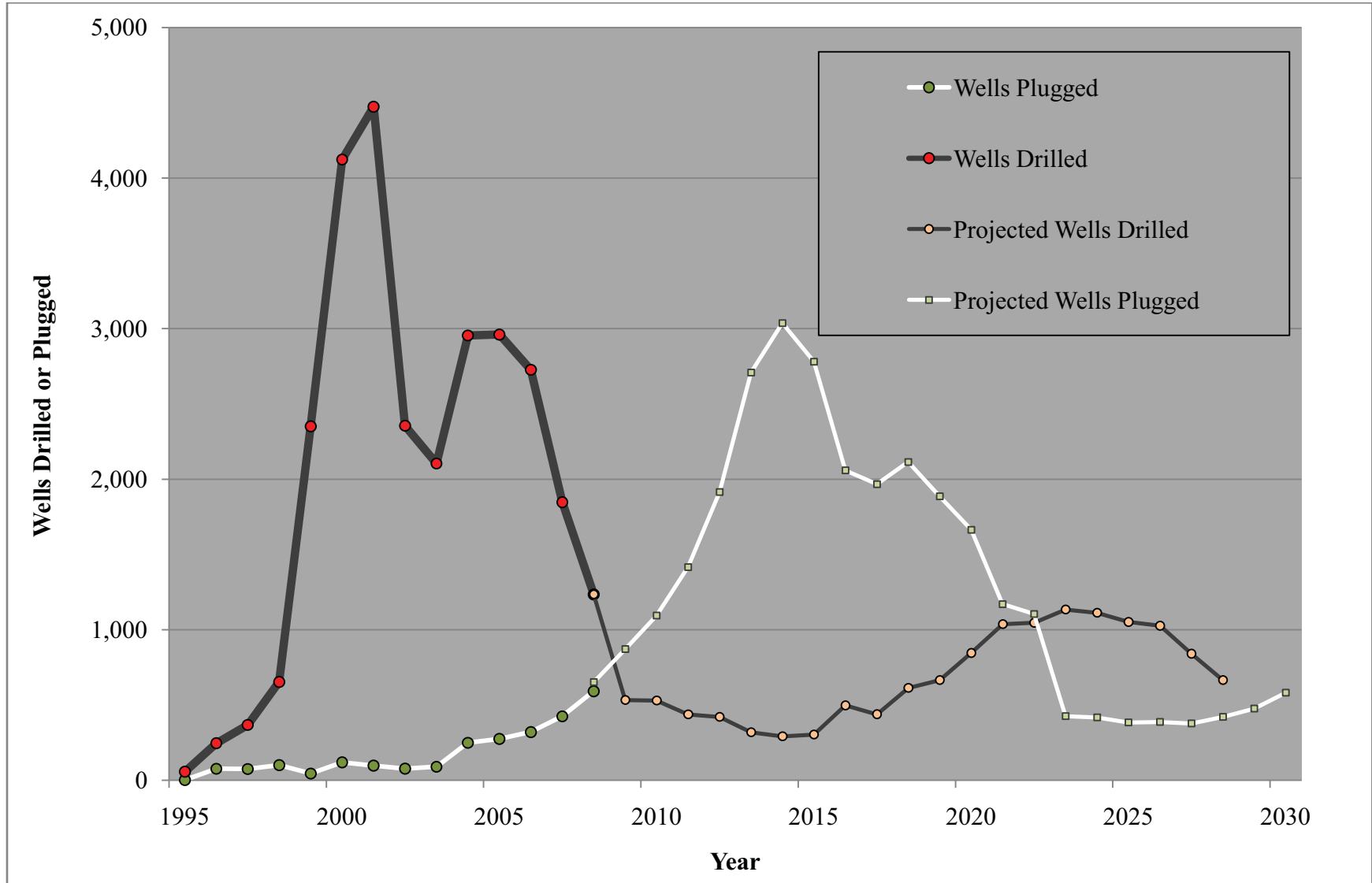
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Figure A1-7. Average well depth by year for coalbed natural gas wells drilled in Campbell, Johnson, and Sheridan counties. Data are from IHS Energy Group (2009).



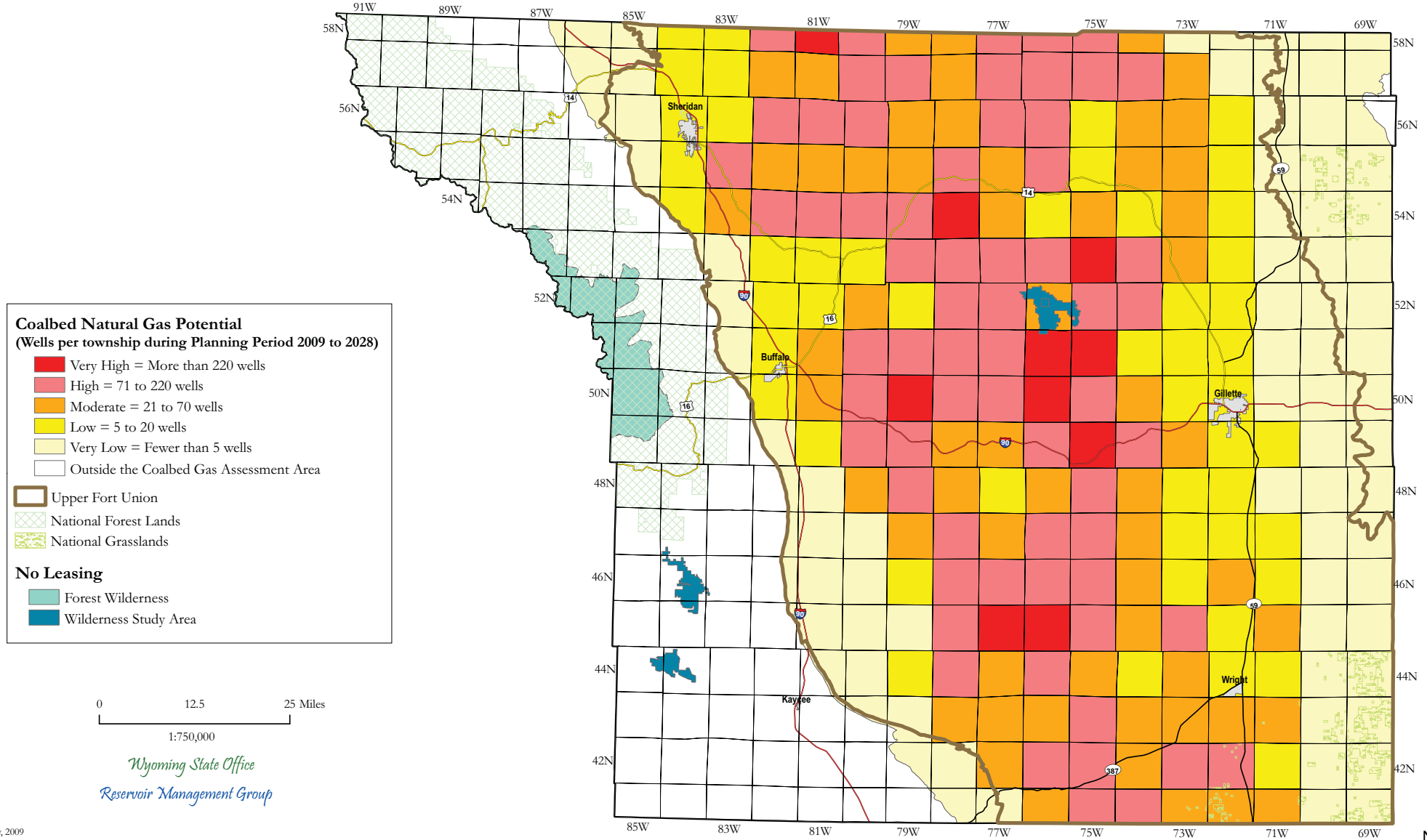
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Figure A1-8. Annual drilling and plugging rates for coalbed natural gas wells in the Buffalo Planning Area. Data from Wyoming Oil and Gas Conservation Commission (2009) and IHS Energy Group (2009).



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Figure A1-9.
Coalbed natural gas development potential within the Buffalo Planning Area for 2009 through 2028.



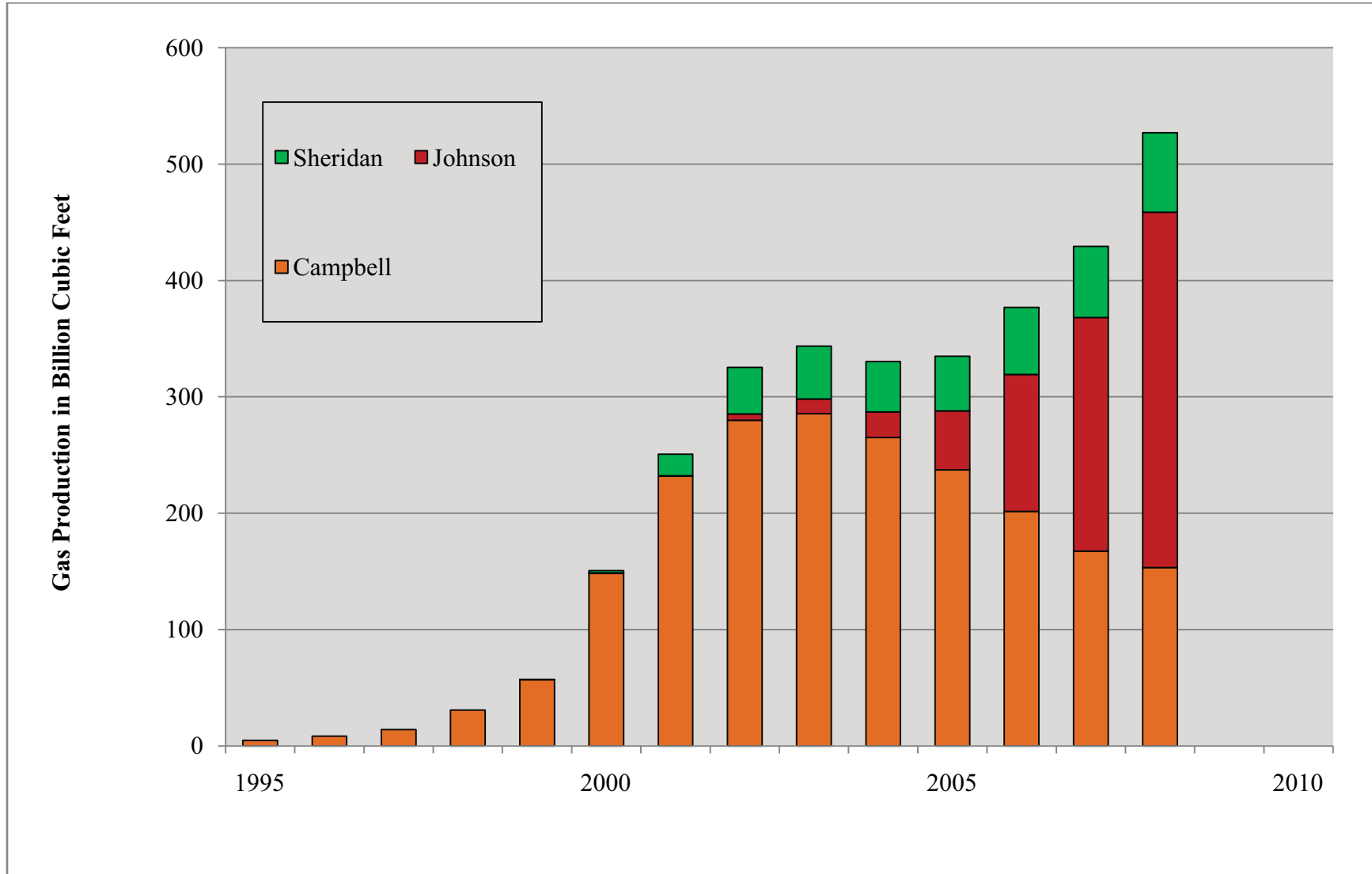
May, 2009

Dean Stilwell, Geologist
Al Elser, Geologist
Stan Lawrence, Petroleum Engineer

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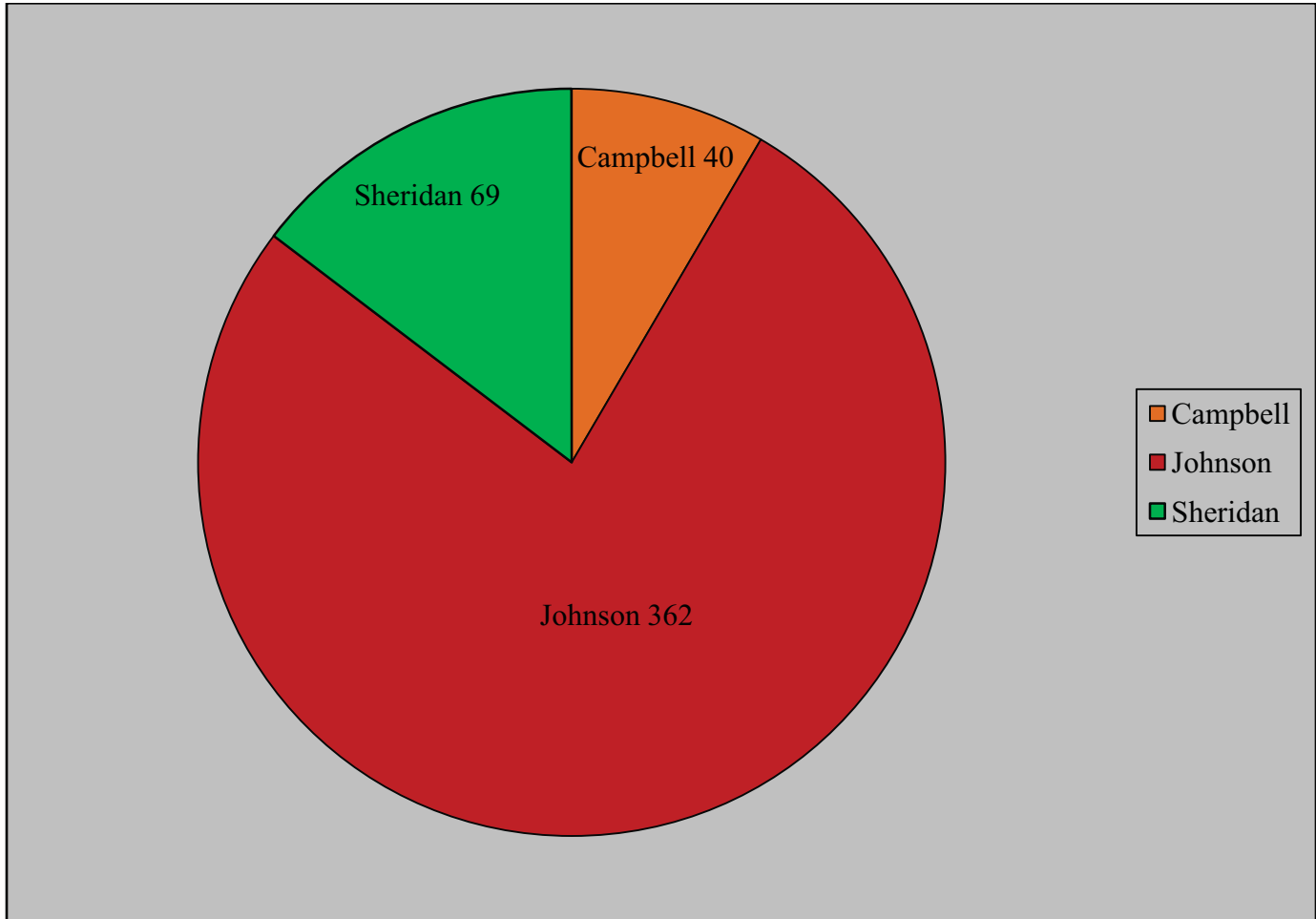


Figure A1-10. Annual coalbed natural gas production for the Buffalo Planning Area by county, starting in 1995. Note that Johnson County currently has the largest production. Data from IHS Energy Group (2009).



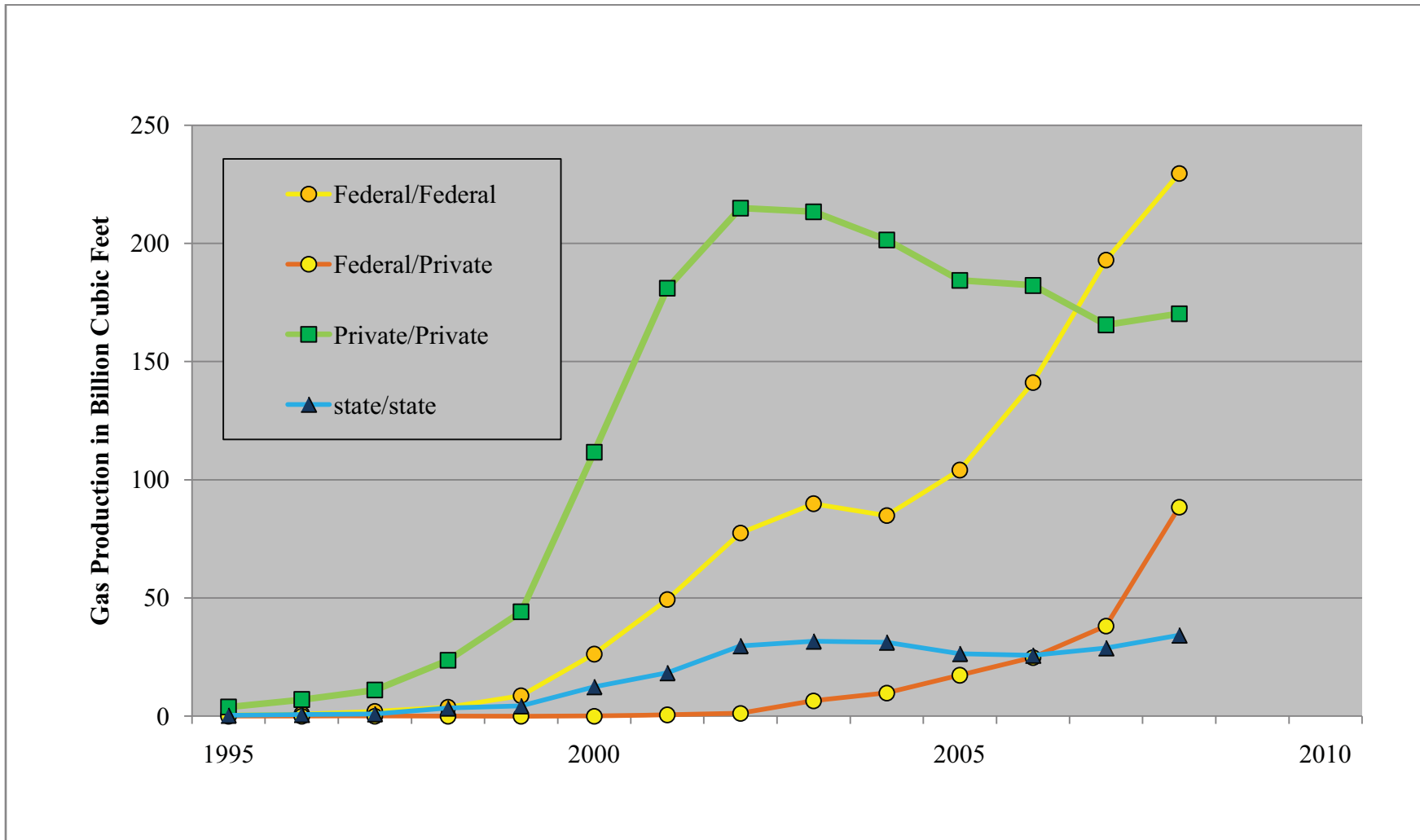
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Figure A1-11. Average Buffalo Planning Area coalbed natural gas well productivity in thousand cubic feet of gas per day per well for 2008, by county. Data from IHS Energy Group (2009).



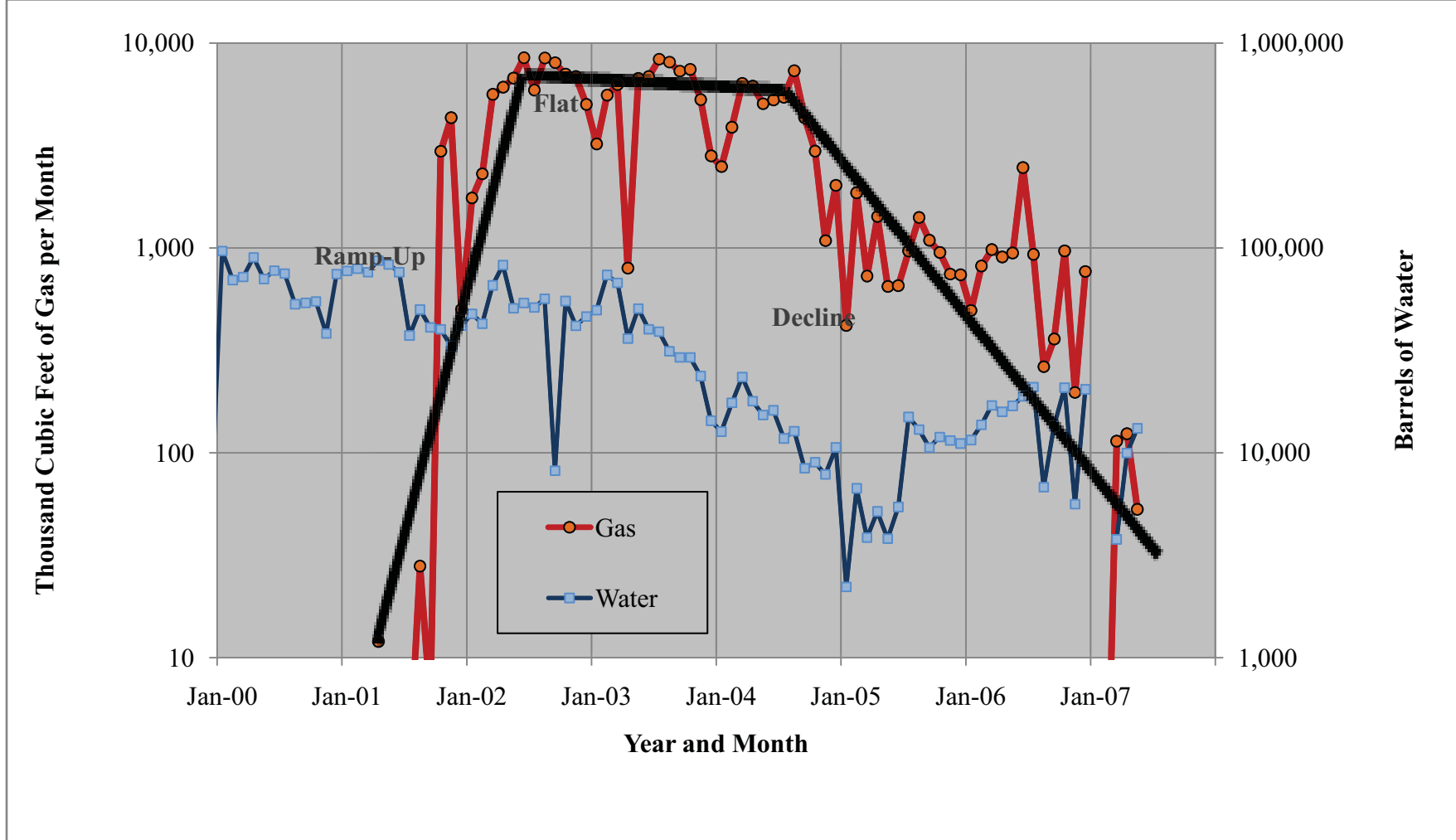
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Figure A1-12. Annual coalbed natural gas production by mineral/surface ownership in the Buffalo Planning area. Note the substantial increase in Federal production starting in 2005. Production from Federal minerals increased from 29 percent of total in 2005 to 61 percent of total in 2008. Data from Wyoming Oil and Gas Conservation Commission (2009) and IHS Energy Group (2009).



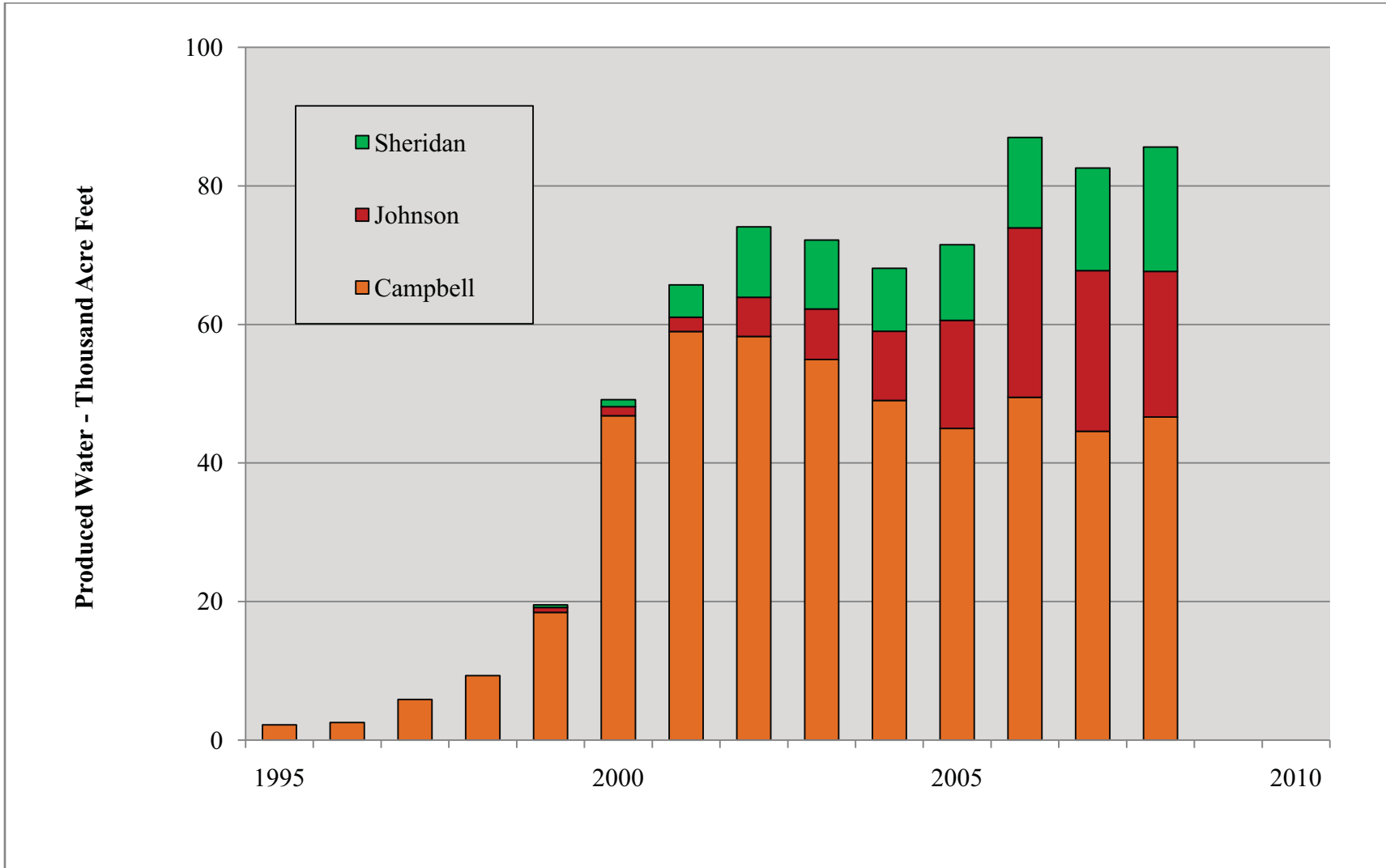
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Figure A1-13. Semi-log plot of production history for the Pilot State #16-A well in Section 16, T. 48 N., R. 77 W., Johnson County, Wyoming. Production began in 1999 and ended in 2007. Cumulative recovery was 223 million cubic feet of gas. Gas production was from the Big George Coal. Data from IHS Energy Group (2009).



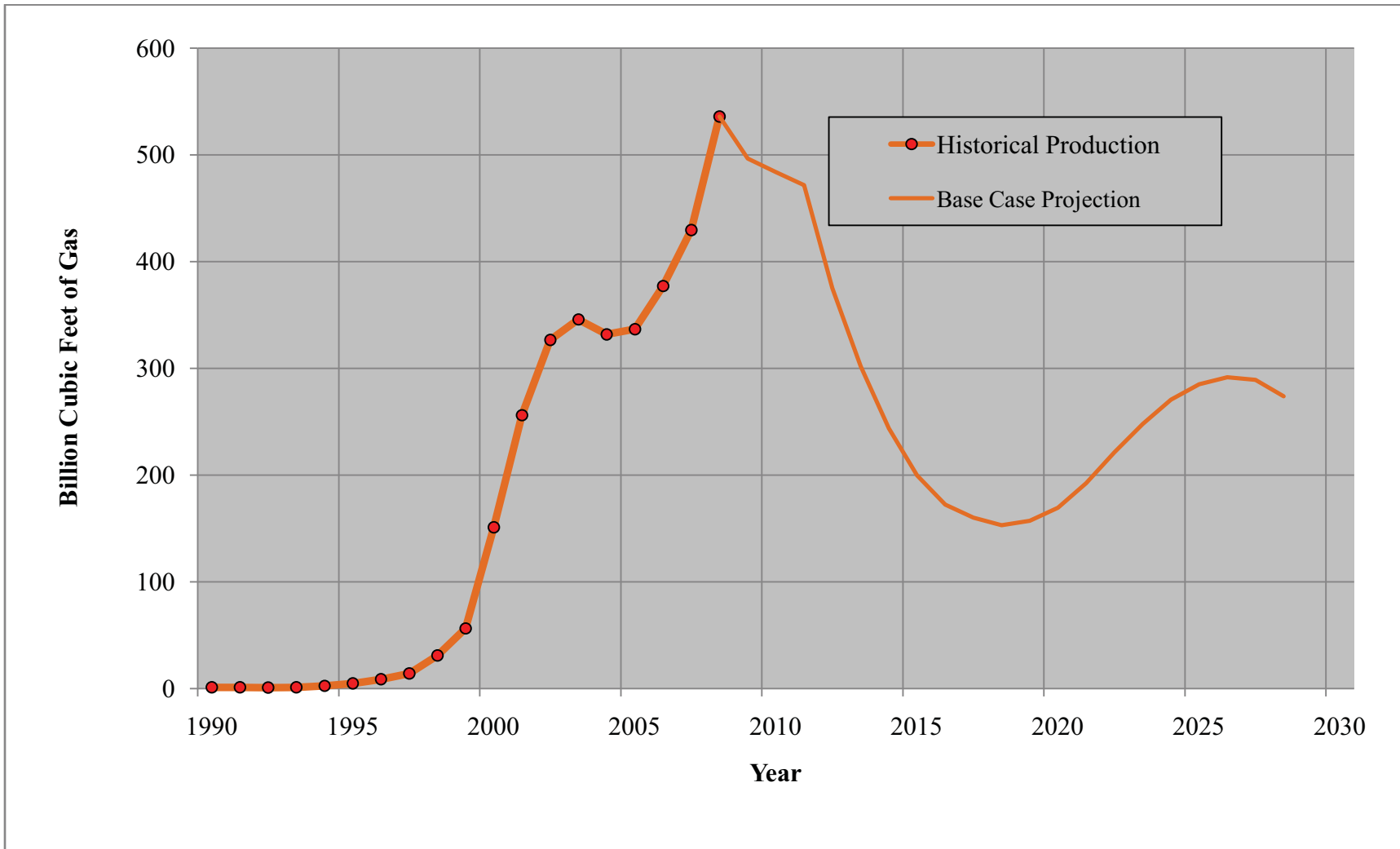
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Figure A1-14. The Buffalo Planning Area's annual coalbed natural gas water production by county. Note that water production has been relatively steady from 2001 through 2008 even though the number of producing wells has increased substantially. Data from IHS Energy Group (2009).



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Figure A1-15. Historical production and base line projection of coalbed natural gas production from the Buffalo Planning Area during 2009 - 2028. Cumulative production through 2008 is 3,213 billion cubic feet of coalbed gas. Estimated cumulative production from all wells through 2028 is 8,671 billion cubic feet of coalbed gas.



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