

northeast, the Leachburg and Apollo wells; to the southeast, the Murrys ville wells, and to the southwest, the lights of the Tarentum wells. Off in Washington county, and down toward Steubenville, there are other wells, while at Hulton, in Pittsburgh, in the east end at Soho, at Brownstown, at Sligo and in Bayardstown, there are wells upon wells, roarers and gushers. Some of these wells give out their gas at an enormous pressure. A gauge on a six-inch pipe situated some miles from the wells, registered one hundred and twenty pounds to the square inch, and the noise of the rushing gas indicated that the gauge was about right."

Two of the most prolific of these wells, the Burns and the Delamater, have been described by the late Professor J. Lawrence Smith. "These are separated by at least half a mile, and are located in Butler county, seven miles north-east of Butler, and about fifteen miles from the Harney wells, of which the gas is conducted to Pittsburg. The two wells are located about thirty miles in a straight line from Pittsburg. Their depth is about one thousand six hundred feet, down to the fourth sand stratum so well known, at least by name, to those engaged in the petroleum production. The Burns, it is believed, has never yielded oil; but the Delamater first carried to the third sand layer (the oil men mean sandstone when they say 'sand'), was a petroleum well at one thousand six hundred feet. Sunk afterward to the fourth stratum, it gave gas at such a pressure that the tools, of one thousand seven hundred and sixty pounds weight, could be withdrawn by hand. Each well is five and five-eighths inches in diameter."

The Delamater is the more remarkable. It furnishes light and fuel to all the vicinity, including the village of Saint Joe. It is situated in a valley surrounded by high mountains, which reflect and concentrate the light of the ignited gas. Many conduits start from the well; one leads the gas directly to the cylinder of a strong motor, which, by its pressure, acquires a prodigious velocity. Another pipe feeds a flame capable of reducing as much iron ore as half the furnaces of Pittsburgh.