

in a number of scattered wells throughout both quadrangles. The maximum closed gas pressure in this sand was about 500 pounds per square inch.

POOLS IN THE THIRD OR GORDON SAND.

The sand generally called by drillers the Third sand has been the source of an enormous supply of oil within these quadrangles. This sand has been found to be oil-bearing in a belt from 1 to 3 miles wide extending from Petrolia in the southwest corner of this area northeastward to Elk City, just outside the opposite corner of the Foxburg quadrangle. This field has been opened up since 1875. The first well was drilled at Foxburg in 1869. Hundreds of these old wells are still producing after 30 years of steady pumping.

The Emlenton-Richey Run field also gets most of its oil from the Third sand, as do also the Bly and Beala pools, farther north. The Elk City pool embraces the northwest corner of the Clarion quadrangle and extends some distance farther north. Most drillers report that the oil sand in this pool is the Third and that the Fourth lies a few feet below. These sands are more comparable, however, to the Third Stray and Third sands. The same sand is productive in the Clarion pool, and in both places the lower (Third) sand yields considerable salt water and little or no oil. The Clarion pool was discovered in 1888 and in that year attained its maximum daily production—about 3000 barrels. The largest well produced at the rate of 90 barrels per hour for a short time. It is said that the pay streak is very erratic in this pool. The lower sand, called by drillers the Fourth sand, appears to furnish the salt water which is slowly encroaching upon and flooding the oil wells in the sand above, thus rendering them worthless. This is the only instance noted in either quadrangle where the salt water in the oil sands appears to advance upon the oil in such quantities as to injure the wells. In the Elk City, Manor, and other pools where water occurs in the Third sand, it is slowly exhausted with the oil and is thought to increase the lift of a well, those producing the most water being the best wells.

The Manor pool is situated in the southwest part of Paint Township, Clarion County. This pool embraces less than a dozen wells scattered over about 100 acres. The largest well had an initial production of about 60 barrels per day and held that rate for about one year. No records of wells in this pool are available. The oil is generally thought by drillers to come from the Third sand. Less salt water is found with the oil in this pool than at either Elk City or Clarion, which are structurally higher. The Stanburg pool also furnished a few small wells from a sand believed by drillers to be the Third. The total production from this pool, however, has been small. In Monroe Township near Reidsburg several wells have found small quantities of oil, some of which is said to come from the Third sand, though from the available data it seems probable that the oil-bearing sand belongs higher in the geologic column.

Gas occurs in the Third sand in all of the oil pools but usually in quantities too small to justify piping away. Large quantities are utilized in boilers and gas engines and for domestic purposes in the oil fields. This gas, however, has a low closed pressure and hence can not be profitably utilized in the large high pressure pipe lines. In the southeast half of the Clarion quadrangle, however, there are several small gas pools in the Third sand which have an initial closed pressure of 180 to 275 pounds per square inch, the average probably being below 200 pounds. Most of the gas from the George pool in Limestone Township, as well as the gas from a number of scattered wells in Porter, Monroe, Toby, Madison, Richland, and Salem townships, Clarion County, is thought to come from the Third sand.

POOLS IN THE THIRD STRAY SAND.

The oil and gas pools in the Third Stray sand are so closely associated with those of the Third sand that no separation can be made with the available data. In general, the oil pools in the true Third Stray are far less in number and in productiveness than those of the Third. It seems probable that in many cases the Third and Third Stray have been confused by drillers, production being accredited to one which came from the other.

POOLS IN THE BOWLER AND THE NINEVEH THIRTY-FOOT SANDS.

These sands occupy a part of the interval between the top of the Third Stray sand and the bottom of the Hundred-foot sand. There is much confusion among drillers as to the application of these names and it is not possible to find the same usage among drillers even in small pools. This is due to the variability of the sands themselves and to that of the shale and red rock which separate them. These sands are oil-bearing at many places within the Petrolia-Elk City field, the largest pools probably being along the southwest margin in the vicinity of Bruin. A sand generally recognized by drillers as the Bowler furnishes oil in a large number of wells along the northern margin of the Emlenton-Richey Run field, and

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in occasional small pools throughout most of that field. This sand is especially productive in the vicinity of Mariasville and to the east of Lamartine. Gas is found in both of these sands at many places in the northwestern half of the Foxburg quadrangle, but the pools are generally small. In the Clarion quadrangle no oil pools are known in these sands and the production of gas is of little importance, being confined to a few scattered wells.

POOLS IN THE HUNDRED-FOOT AND THE MURRYSVILLE SANDS.

The top of the Hundred-foot sand in the Clarion quadrangle is about 350 feet above the Third sand. This sand has an average thickness here of about 100 feet and is divided near the center into two fairly distinct sandstones by a "break" of shale ranging from almost nothing to 50 or more feet in thickness. The Murrysville sand averages about 25 or 30 feet thick in this quadrangle, its top averaging about 85 or 90 feet above the top of the Hundred-foot. These sands are best developed in the southeast half of the Clarion quadrangle. They thin out quite rapidly toward the north and west so that in the Foxburg quadrangle the individual members are represented in some places by a number of thin lenticular sands, and in other places one or more of the three sandstone beds is entirely replaced by sandy shale alternating with thin, hard layers of sandstone.

In the Foxburg quadrangle the Hundred-foot and Murrysville sands therefore lose their identity to a great extent and are grouped by drillers as the Second sand. In so grouping this sandstone phase of the lower Pocono rocks some of the drillers confuse the lower member of the Hundred-foot sand with the Nineveh Thirty-foot sand, or, less frequently, with the Bowler sand. In a few instances the name Red Valley sand has also been applied to what seems to be the lower member of the Hundred-foot sand, but this may be more nearly equivalent to the upper member. What many drillers here call the Second sand may be more nearly comparable to the Murrysville sand than to the upper member of the Hundred-foot. So much confusion exists among drillers as to the proper names of these sands that no exact correlation is possible from the available well records, as may be seen by an examination of the plate of well sections. The pools of oil and gas found in them, some of which are important, are therefore considered as being in the sands to which they are assigned by producers.

The Hundred-foot has not been found to contain oil in paying quantities within the Clarion quadrangle, though good shows have been found at various points, especially in the Piolet field and the Blair pool in Porter Township. Most of the gas found within this township comes from these sands, the Rittenbender pool being the most productive of these yet discovered. The gas wells in the extreme southeast corner of the quadrangle are said to produce from both the Hundred-foot and the Murrysville, and the latter sand yields a large percentage of the gas from the Greenville field and from a number of the wells in Clarion Township south of Strattonville. These sands appear to be practically barren in the northwest half of the Clarion quadrangle, in which area they are thin and less porous.

The Rosenberry, Rattlesnake, and Black Hill pools have furnished most of the oil found, though numerous smaller pools within and near the Petrolia-Elk City field have also proved profitable. The oil-bearing sand of the Black Hill pool, as well as that of a small pool northeast of Pollock, is locally known as the Red Valley sand. The stratigraphic evidence is not conclusive on this point, but it seems very probable that this sand is part of what the drillers call the Second sand, though a closer correlation can not be made. Most of the gas from the pool lying north of the Emlenton-Richey Run field comes from what is called by drillers the Second sand, as well as an immense amount from oil wells in both the above field and the Petrolia-Elk City field.

In the Foxburg quadrangle the oil-bearing areas in the Murrysville and Hundred-foot sands also almost invariably carry more or less salt water, which is exhausted with the oil. So far as known to the writer, however, this water has in no well encroached upon the oil with pumping to the exclusion of the oil. In general the best oil wells in this sand appear to be those that furnish the greatest amount of salt water. In the Clarion quadrangle both the Murrysville and Hundred-foot sands in places contain salt water in considerable quantities and under sufficient head in some wells to cause it to rise several hundred feet in the wells.

POOLS IN THE FIRST SAND.

The top of the First sand is about 150 to 200 feet above the top of the Murrysville sand in the Clarion quadrangle. The sand has an average thickness of about 65 feet. Small gas pools have been found in this sand at a number of places in both quadrangles, but the total production has been of little importance. The sand is also frequently found to carry more or less salt water. Above the First sand no oil and little gas have been discovered in this area. Some gas has been found

in other thin sandstones that are thought to belong to the Cuyahoga formation and in the Big Injun sand, but not in sufficient quantities to justify exploitation for commercial purposes.

RELATION OF STRUCTURE TO THE ACCUMULATION OF OIL AND GAS.

The oil pools of the Foxburg and Clarion quadrangles show no marked relation to the structure of the rocks. Individual pools appear to be somewhat affected by the structure but these instances of apparent conformability are so rare and insignificant in comparison to the total productive territory in the quadrangles that in such cases the position and extent of the pools is probably only slightly, if at all, the result of structural influence. The structure of the oil-bearing rocks is shown by contours in figure 12, which also shows, for comparison, the structure in the surface rocks.



FIGURE 12.—Structure of the oil-bearing sands and of the rocks at the surface of the Foxburg and Clarion quadrangles. Contour interval 10 feet.

A. Horizontal equivalent on the top of the Third sand in the Foxburg quadrangle and on the Hundred-foot sand in the Clarion quadrangle.
B. Contours on the surface of the rocks.

1. Clarion; 2. Elk City; 3. Foxburg; 4. Greenville; 5. Mariasville; 6. Red Valley; 7. Strattonville; 8. Toby; 9. Monroe; 10. Porter; 11. Salem; 12. Richland; 13. Madison; 14. Bruin; 15. Stanburg; 16. Manor; 17. Emlenton; 18. Rittenbender; 19. Blair; 20. Piolet; 21. Rattlesnake; 22. Black Hill; 23. Rosenberry; 24. Pollock; 25. Bowler; 26. Nineveh; 27. Bowler; 28. Nineveh; 29. Bowler; 30. Nineveh; 31. Bowler; 32. Nineveh; 33. Bowler; 34. Nineveh; 35. Bowler; 36. Nineveh; 37. Bowler; 38. Nineveh; 39. Bowler; 40. Nineveh; 41. Bowler; 42. Nineveh; 43. Bowler; 44. Nineveh; 45. Bowler; 46. Nineveh; 47. Bowler; 48. Nineveh; 49. Bowler; 50. Nineveh; 51. Bowler; 52. Nineveh; 53. Bowler; 54. Nineveh; 55. Bowler; 56. Nineveh; 57. Bowler; 58. Nineveh; 59. Bowler; 60. Nineveh; 61. Bowler; 62. Nineveh; 63. Bowler; 64. Nineveh; 65. Bowler; 66. Nineveh; 67. Bowler; 68. Nineveh; 69. Bowler; 70. Nineveh; 71. Bowler; 72. Nineveh; 73. Bowler; 74. Nineveh; 75. Bowler; 76. Nineveh; 77. Bowler; 78. 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