

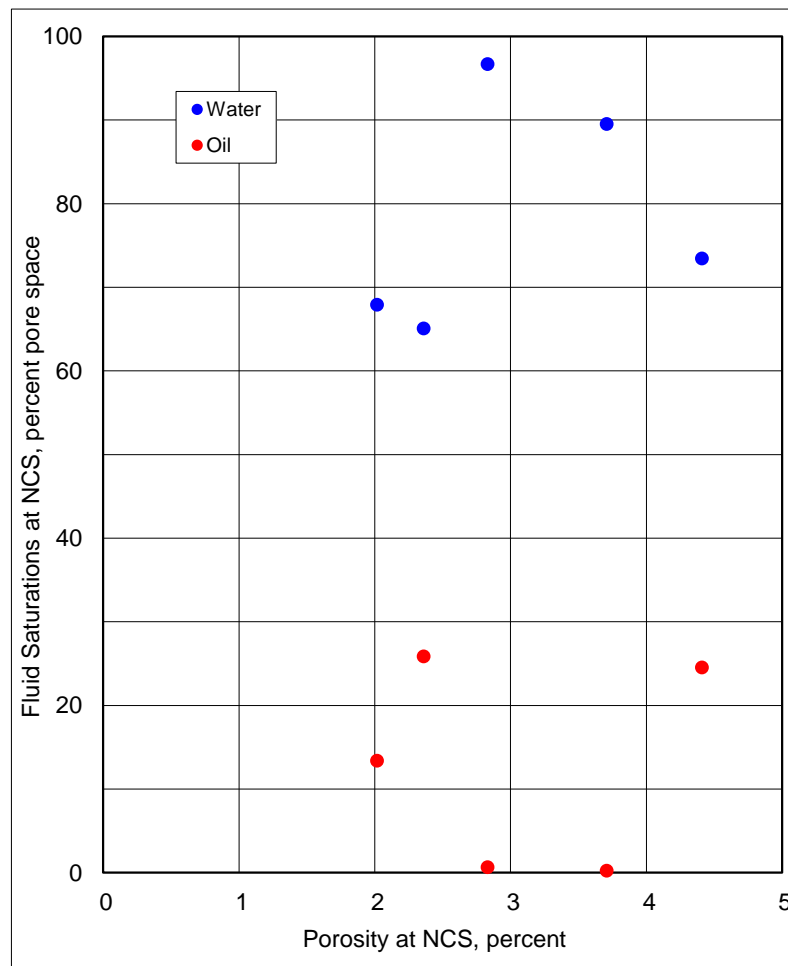
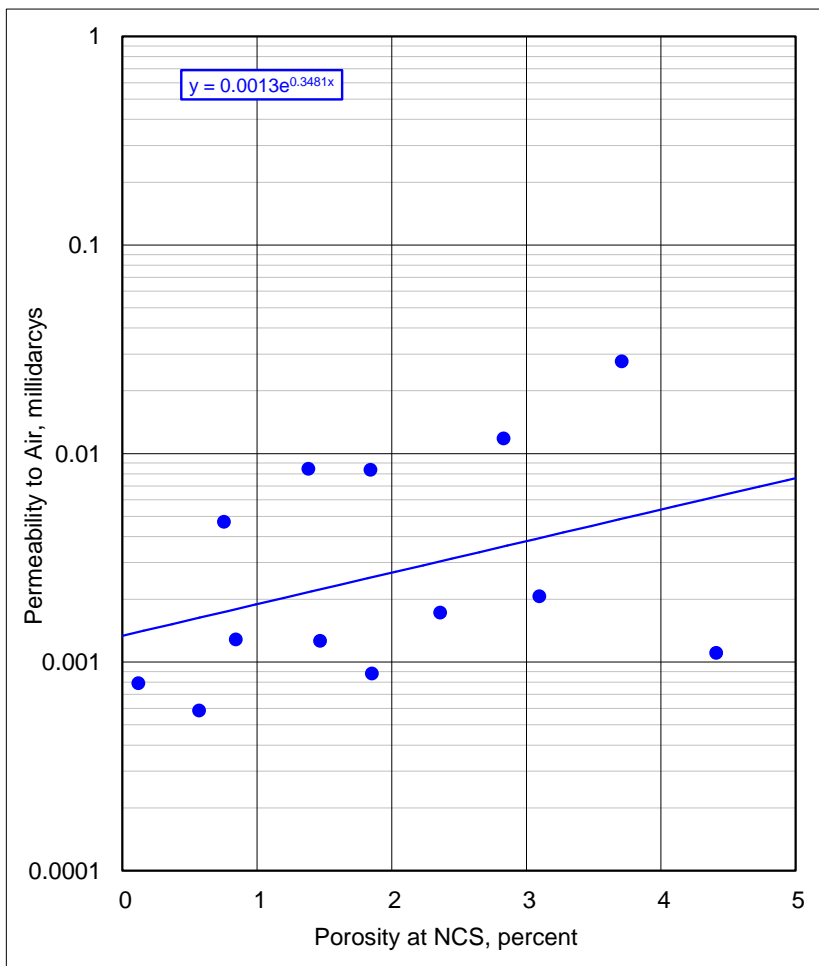


PERMEABILITY AND FLUID SATURATIONS VERSUS POROSITY

Vacuum Oven Dried at 180° F Net Confining Stress: 3,000 psi

Pioneer Natural Resources
ParkerTrust 33-22 Well
Wildcat Field

Lincoln County, Colorado
File No.: CO-64270
Date: 8/28/2013





SUMMARY OF ROUTINE CORE ANALYSES RESULTS

Vacuum Oven Dried at 180° F Net Confining Stress: 3,000 psi

Pioneer Natural Resources
ParkerTrust 33-22 Well
Wildcat Field

Lincoln County, Colorado
File No.: CO-64270
Date: 8/28/2013

| Core Number | Sample Number | Sample Depth, feet | Permeability, millidarcys | | Porosity, percent | | Grain Density, gm/cc | Fluid Saturations, percent | | |
|-----------------|---------------|--------------------|---------------------------|-------------|-------------------|-----|----------------------|----------------------------|------|-------|
| | | | to Air | Klinkenberg | Ambient | NCS | | Water | Oil | Total |
| 2 | 2-3 | 6,288.30 | 0.0085 | 0.0036 | 1.5 | 1.4 | 2.71 | | | ** |
| 2 | 2-5 | 6,290.45 | <0.0001 | | 1.4 | 1.3 | 2.83 | | | ** |
| 2 | 2-45A | 6,330.75 | <0.0001 | | 2.1 | 2.0 | 2.83 | 67.9 | 13.4 | 81.3 |
| 2 | 2-46 | 6,331.50 | 0.0009 | 0.0002 | 2.0 | 1.9 | 2.80 | | | ** |
| 2 | 2-55c | 6,340.80 | 0.0043 | 0.0016 | 0.2 | | 2.71 | | | ** |
| 2 | 2-63(f) | 6,348.75 | 0.0047 | 0.0018 | 0.8 | 0.8 | 2.72 | | | ** |
| 2 | 2-89 | 6,374.30 | 0.0008 | 0.0002 | 0.1 | 0.1 | 2.71 | | | ** |
| 3 | 3-29c | 6,407.20 | <0.0001 | | 0.7 | | 2.71 | | | ** |
| 3 | 3-34 | 6,412.50 | 0.0006 | 0.0001 | 0.6 | 0.6 | 2.73 | | | ** |
| 3 | 3-36 | 6,414.50 | <0.0001 | | 0.6 | 0.5 | 2.71 | | | ** |
| 3 | 3-44 | 6,422.50 | <0.0001 | | 0.5 | 0.5 | 2.79 | | | ** |
| 3 | 3-58 | 6,436.35 | <0.0001 | | 0.6 | 0.5 | 2.73 | | | ** |
| 3 | 3-61 | 6,439.70 | 0.0011 | 0.0003 | 4.6 | 4.4 | 2.71 | 73.4 | 24.5 | 98.0 |
| 3 | 3-65(f) | 6,443.35 | 0.0084 | 0.0036 | 1.9 | 1.8 | 2.73 | | | ** |
| 3 | 3-72 | 6,450.50 | <0.0001 | | 5.4 | 5.3 | 2.70 | 59.6 | 11.4 | 71.0 |
| 3 | 3-78 | 6,456.50 | <0.0001 | | 0.2 | 0.2 | 2.76 | | | ** |
| 3 | 3-81 | 6,459.80 | 0.012 | 0.0055 | 3.0 | 2.8 | 2.75 | 96.7 | 0.7 | 97.3 |
| 3 | 3-83 | 6,461.50 | 0.0017 | 0.0005 | 2.5 | 2.4 | 2.74 | 65.1 | 25.9 | 90.9 |
| 3 | 3-87 | 6,465.50 | 0.028 | 0.015 | 3.8 | 3.7 | 2.69 | 89.5 | 0.2 | 89.8 |
| 3 | 3-89A | 6,467.50 | 0.0013 | 0.0003 | 1.6 | 1.5 | 2.69 | | | ** |
| 3 | 3-92 | 6,470.50 | <0.0001 | | 0.4 | 0.4 | 2.78 | | | ** |
| 4 | 4-2 | 6,472.50 | 0.0021 | 0.0006 | 3.2 | 3.1 | 1.99 | | | ** |
| 4 | 4-8 | 6,478.30 | <0.0001 | | 0.4 | 0.4 | 2.74 | | | ** |
| 4 | 4-10(F) | 6,480.50 | + | | 3.0 | | 2.58 | 58.6 | 34.0 | 92.6 |
| 4 | 4-18 | 6,488.50 | 0.0013 | 0.0003 | 0.9 | 0.8 | 2.79 | | | ** |
| 5 | 5-1 | 6,522.40 | <0.0001 | | 0.7 | 0.7 | 2.73 | | | ** |
| Average values: | | | 0.0054 | 0.0024 | 1.6 | 1.6 | 2.71 | 73.0 | 15.7 | 88.7 |

+ Indicates the sample is unsuitable for this type of measurement

** Indicates pore volume / water out was insufficient to report saturations

(f) Indicates the sample has a visible fracture or lamination that may affect permeability

(F) Indicates the sample is fractured into multiple pieces

c Indicates the sample is chipped