Sample Χ well depth h1 h2 h3 h4 h5 h6 read.csv("petrophysics_bertolini_2020 RB TG-27 1.25 25.98 26.86 25.70 26.56 25.46 25.93 26 RB TG-27 1.90 44.92 44.93 45.04 44.94 44.78 TG-27 2.90 44.04 43.49 43.50 42.96 42.76 43.45 43 RB RB TG-27 3.90 47.45 46.67 46.45 46.14 46.52 47.06 47 4 5 RB TG-27 4.90 45.59 45.43 45.28 45.34 45.30 45.24 45 6 RB TG-27 89.50 46.04 45.92 45.61 45.21 45.32 46.06 45 RB TG-27 97.20 66.27 66.45 66.88 66.22 66.24 66.12 66 8 TG-27 97.70 48.28 48.54 48.38 48.14 48.00 48.35 48 RB 9 RB TG-27 98.30 39.79 40.02 39.80 39.68 39.82 39.68 39 10 RB TG-27 98.55 47.79 47.75 47.87 47.40 47.54 47.77 47 11 TG-27 99.00 52.47 51.84 52.36 52.15 52.23 51.95 51 12 RB 11 TG-100 223.00 44.78 44.73 44.82 44.88 45.62 44.86 44 13 RB 12 TG-100 223.50 51.78 51.72 51.89 51.72 51.76 51.99 51 14 RB 13 TG-100 224.50 47.66 47.47 47.10 46.98 47.03 47.21 47 15 RB 14 TG-100 228.50 50.44 50.11 50.38 50.62 50.22 49.98 50 16 RB 15 TG-100 232.40 39.59 39.46 39.21 39.46 39.45 39.41 39 17 RB 16 TG-100 236.40 50.84 50.63 50.90 50.86 50.72 51.33 51 18 RB 17 TG-100 240.40 41.66 40.27 41.99 41.88 42.07 42.09 41 19 RB 18 TG-100 246.25 47.34 47.20 47.64 47.25 47.01 47.43 47 20 RB 19 TG-100 252.60 30.77 30.51 29.92 29.11 29.67 30.85 29 21 RB 20 TG-100 259.50 48.92 48.57 48.72 49.08 48.90 48.75 48 22 RB 21 TG-100 268.50 33.70 33.34 33.38 33.95 33.65 33.03 33 23 RB 22 TG-100 277.95 38.07 38.12 37.93 38.05 37.97 38.13 38 24 RB 23 TG-100 286.70 46.93 46.92 46.85 46.88 46.79 46.44 46 25 RB 24 TG-100 297.80 48.63 49.11 48.40 48.74 49.17 49.09 48 26 RB 25 TG-100 305.10 39.34 39.56 39.42 39.79 39.51 39.42 39 27 RB 26 TG-100 312.80 50.64 50.28 50.57 50.23 50.24 50.43 50 28 RB 27 TG-100 316.85 49.58 48.64 49.72 48.68 48.65 49.09 49 29 RB 28 TG-179 286.35 51.50 51.46 51.54 51.27 51.26 51.04 51 30 RB 29 TG-179 284.35 48.63 49.03 48.83 48.47 48.91 48.81 48 31 RB 30 TG-179 281.90 51.34 51.61 51.47 51.91 51.37 51.35 51

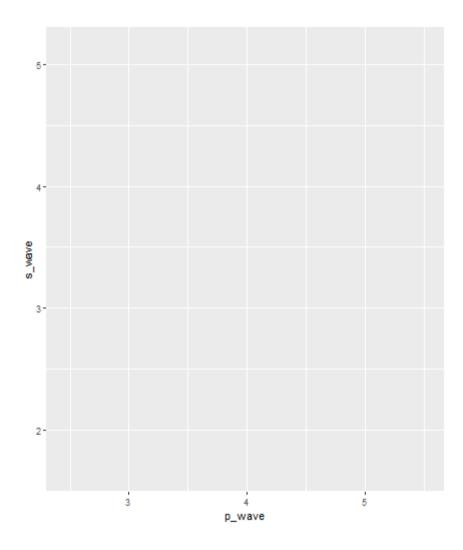
```
read.csv("petrophysics_bertolini_2020
   as_tibble()
```

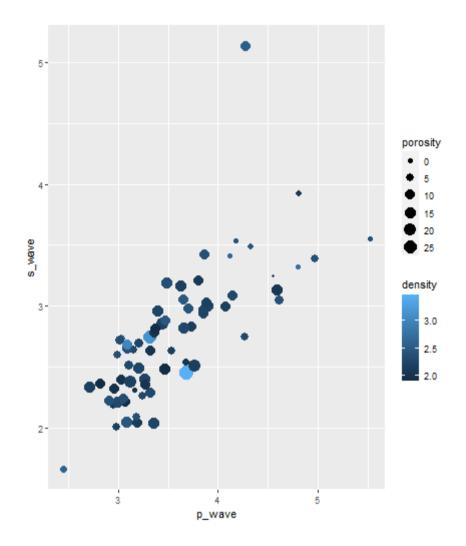
```
# A tibble: 72 × 29
   Sample
              X well
                       depth
                                h1
                                      h2
                                             h3
                                                   h4
                                                         h5
                                                                h6
   <chr> <int> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <</pre>
 1 RB
              1 TG-27 1.25
                              26.0
                                    26.9
                                           25.7
                                                 26.6
                                                       25.5
                                                              25.9
 2 RB
              2 TG-27 1.9
                              44.9
                                    44.9
                                           45.0
                                                 44.9
                                                       44.8
                                                             44.8
 3 RB
              3 TG-27 2.9
                              44.0
                                    43.5
                                           43.5
                                                 43.0
                                                       42.8
                                                              43.4
 4 RB
              4 TG-27
                       3.9
                              47.4
                                    46.7
                                           46.4
                                                 46.1
                                                       46.5
                                                              47.1
 5 RB
              5 TG-27 4.9
                              45.6
                                    45.4
                                           45.3
                                                 45.3
                                                       45.3
                                                              45.2
 6 RB
              0 TG-27 89.5
                              46.0
                                    45.9
                                           45.6
                                                 45.2
                                                       45.3
                                                              46.1
 7 RB
              6 TG-27 97.2
                              66.3
                                    66.4
                                           66.9
                                                 66.2
                                                       66.2
                                                              66.1
 8 RB
              7 TG-27 97.7
                              48.3
                                    48.5
                                           48.4
                                                 48.1
                                                       48
                                                              48.4
 9 RB
              8 TG-27 98.3
                              39.8
                                    40.0
                                           39.8
                                                 39.7
                                                       39.8
                                                             39.7
10 RB
              9 TG-27 98.6
                              47.8
                                    47.8
                                           47.9
                                                 47.4
                                                       47.5
                                                             47.8
# ... with 62 more rows, and 15 more variables: h mean <dbl>, pw t1
    pw t3 <dbl>, sw t1 <dbl>, sw t2 <dbl>, p wave <dbl>, s wave <
    subm mass <dbl>, sat mass <dbl>, bulk vol <dbl>, pore volum <</pre>
```

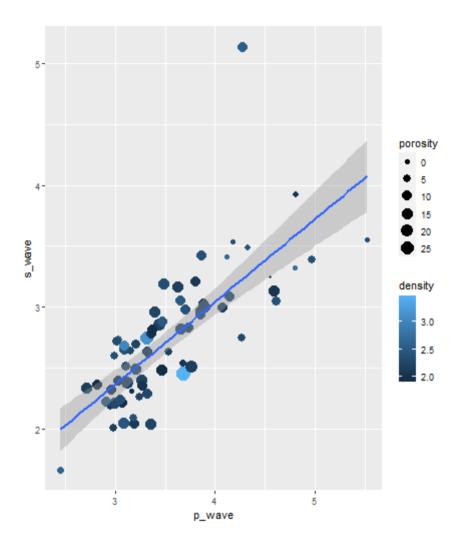
density <dbl>

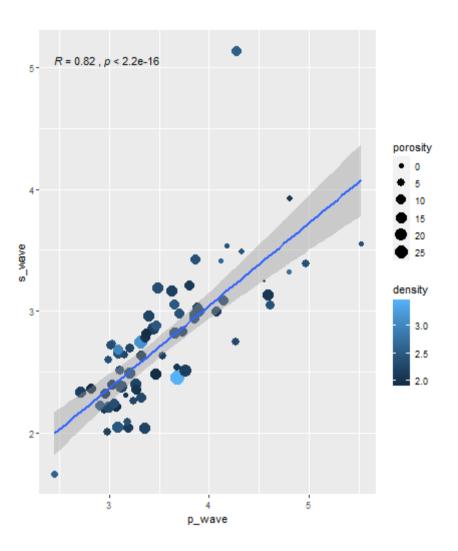
```
read.csv("petrophysics_bertolini_2020
  as_tibble() %>%
  drop_na(p_wave,s_wave)
```

```
# A tibble: 69 × 29
   Sample
              X well
                      depth
                               h1
                                      h2
                                            h3
                                                  h4
                                                         h5
                                                               h6
   <chr> <int> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <</pre>
 1 RB
              1 TG-27 1.25
                              26.0
                                    26.9
                                          25.7
                                                 26.6
                                                       25.5
                                                             25.9
 2 RB
              2 TG-27 1.9
                              44.9
                                    44.9
                                          45.0
                                                44.9
                                                       44.8
                                                             44.8
 3 RB
              3 TG-27 2.9
                              44.0
                                    43.5
                                          43.5
                                                43.0
                                                       42.8
                                                             43.4
 4 RB
              4 TG-27
                       3.9
                              47.4
                                    46.7
                                          46.4
                                                 46.1
                                                       46.5
                                                             47.1
 5 RB
              5 TG-27 4.9
                              45.6
                                    45.4
                                          45.3
                                                 45.3
                                                       45.3
                                                             45.2
 6 RB
              0 TG-27 89.5
                              46.0
                                    45.9
                                          45.6
                                                45.2
                                                       45.3
                                                             46.1
 7 RB
              6 TG-27 97.2
                              66.3
                                    66.4
                                          66.9
                                                66.2
                                                       66.2
                                                             66.1
 8 RB
              7 TG-27 97.7
                              48.3
                                    48.5
                                          48.4
                                                48.1
                                                       48
                                                             48.4
 9 RB
              8 TG-27 98.3
                              39.8
                                    40.0
                                          39.8
                                                39.7
                                                       39.8
                                                             39.7
10 RB
              9 TG-27 98.6
                              47.8
                                    47.8
                                         47.9
                                                47.4
                                                       47.5
                                                             47.8
# ... with 59 more rows, and 15 more variables: h mean <dbl>, pw t1
    pw t3 <dbl>, sw t1 <dbl>, sw t2 <dbl>, p wave <dbl>, s wave <
    subm mass <dbl>, sat mass <dbl>, bulk vol <dbl>, pore volum <</pre>
    density <dbl>
```

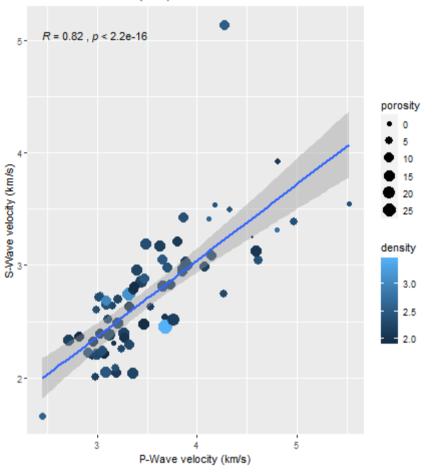








Petrophysical correlation Botucatu Formation Source= Bertolini et al. (2020)



Petrophysical correlation Botucatu Formation Source= Bertolini et al. (2020)

