

OKLAHOMA CORPORATION COMMISSION-OIL & GAS CONSERVATION DIVISION  
 WORK SHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (Pc or Pw)  
 FORM 1016C (1969)

Company: REED & STEVENS

LEASE: CARRASCO NO. 1

Well No.: 1

Date: 4-1-82

L: 12127 H: 1212/ L/H: 1.0000 G: .608 %CO2: 1.15 %N2: .25 %H2S: .00

Pcr: 678

Tcr: 344

FLOW RATE NO. 1

DOWN HOLE CALCULATION

|                |          |             |                          |                 |     |          |        |          |
|----------------|----------|-------------|--------------------------|-----------------|-----|----------|--------|----------|
| INTERVAL NO. 1 |          | ID: 1.995   | Fr: .0149173             | Qm: .423 MMCFPD |     |          |        |          |
|                |          | OD: .000    | (L/H) (FrQm) 2: .0000398 |                 |     |          |        |          |
| H              | GH       | 37.5GH      | P(n)                     | P(r)            | T   | T(r)     | Z      | P/Z      |
| P/TZ           | (P/TZ) 2 | L/H(FrQm) 2 | 11+12                    | I(n)            | M   | N        | M*N    | SUM(M*N) |
| 0              | .00      | 0           | 2145.20                  | 3.17            | 534 | 1.50     | .77300 | 2775     |
| 5.19/          | .02701   | .00004      | .027048                  | 192.138         | 0   | .000     | 0      | 0        |
| 6030           | 3665.22  | 137445      | 2490.20                  | 3.68            | 604 | 1.70     | .85600 | 2909     |
| 4.816          | .02319   | .00004      | .023229                  | 207.306         | 344 | 399.4441 | 137006 | 137006   |
| 12060          | 7330.43  | 274891      | 2811.83                  | 4.16            | 674 | 1.89     | .91500 | 3073     |
| 4.558          | .02077   | .00004      | .020814                  | 218.979         | 321 | 426.2851 | 137109 | 274916   |

DELTA P = 664.9 Psi P(N) = 2810.1 Psia AT 12060 Ft

|                |         |            |                         |                 |     |         |        |          |
|----------------|---------|------------|-------------------------|-----------------|-----|---------|--------|----------|
| INTERVAL NO. 2 |         | ID: 4.154  | Fr: .0022380            | Qm: .423 MMCFPD |     |         |        |          |
|                |         | OD: .000   | (L/H) (FrQm)2: .0000009 |                 |     |         |        |          |
| H              | GH      | 37.5GH     | P(n)                    | P(r)            | T   | T(r)    | Z      | P/Z      |
| P/TZ           | (P/TZ)2 | L/H(FrQm)2 | 11+12                   | I(n)            | M   | N       | M*N    | SUM(M*N) |
| 12060          | 7330.43 | 274891     | 2810.08                 | 4.16            | 674 | 1.89    | .91500 | 3071     |
| 4.555          | .02075  | .00000     | .020750                 | 219.526         | 321 | .000    | 0      | 274916   |
| 12093          | 7350.79 | 275654     | 2811.82                 | 4.16            | 674 | 1.90    | .91800 | 3062     |
| 4.540          | .02061  | .00000     | .020616                 | 220.237         | 1   | 439.763 | 764    | 275655   |
| 12127          | 7371.16 | 276418     | 2813.55                 | 4.16            | 675 | 1.90    | .91800 | 3064     |
| 4.541          | .02062  | .00000     | .020617                 | 220.228         | 1   | 440.465 | 763    | 276419   |

DELTA P = 3.5 Psi P(N) = 2813.5 Psia AT 12127 Ft

UPHOLE CALCULATION

|       |         |            |         |         |     |          |        |          |
|-------|---------|------------|---------|---------|-----|----------|--------|----------|
| H     | GH      | 37.5GH     | P(n)    | P(r)    | T   | T(r)     | Z      | P/Z      |
| P/TZ  | (P/TZ)2 | L/H(FrQm)2 | 11+12   | I(n)    | M   | N        | M*N    | SUM(M*N) |
| 12127 | 7371.16 | 276418     | 2813.55 | 4.16    | 675 | 1.90     | .91800 | 3064     |
| 4.541 | .02062  | .00000     | .020616 | 220.238 | 0   | .000     | 0      | 276419   |
| 6063  | 3685.58 | 138209     | 2490.66 | 3.68    | 604 | 1.70     | .85600 | 2909     |
| 4.813 | .02317  | .00000     | .023168 | 207.757 | 322 | 427.9951 | 138192 | 138225   |
| 0     | .00     | 0          | 2145.38 | 3.17    | 534 | 1.50     | .77300 | 2775     |
| 5.19/ | .02701  | .00000     | .027013 | 192.405 | 345 | 400.1621 | 138167 | 57       |

DELTA P = 666.8 Psi P(N) = 2146.8 Psia AT 0 Ft