

Permit # PAS2D701BALL

| Calculate Fracture Gradient                   |      |          |     |      |          |
|-----------------------------------------------|------|----------|-----|------|----------|
| $FG = [(ISIP + (.433 \times SG \times D))/D]$ | ISIP | SG Water | SG  | D    | FG       |
|                                               | 1446 | 0.433    | 1.1 | 1910 | 1.233368 |

| Calculate MIP (Surface)                  |      |          |      |      |          |
|------------------------------------------|------|----------|------|------|----------|
| $MIP = [FG - (.433 \times SG)] \times D$ | FG   | SG Water | SG   | D    | MIP      |
|                                          | 1.23 | 0.433    | 1.11 | 1896 | 1420.806 |

| Calculate Bottom Hole Pressure          |          |      |      |      |          |          |
|-----------------------------------------|----------|------|------|------|----------|----------|
| $BHP = (.433 \times SG \times D) + MIP$ | SG Water | SG   | D    | MIP  | HP       | BHP      |
|                                         | 0.433    | 1.11 | 1896 | 1420 | 911.2745 | 2331.274 |