Subsea Baker #1

Hole Dimensions		
Depth (MD/TVD)	11,090	feet
9 5/8" Casing shoe	7,800	feet
Hole size	8 ½	inch
Current mud weight	13.5	ppg
Air gap	80	feet
Water depth	740	feet
Internal Capacities		
6 ½ " Drill collars (length 900 feet)	0.00768	bbl/foot
5" Drill pipe - capacity	0.01776	bbl/foot
5" Drill pipe - metal displacement	0.00650	bbl/foot
5" Drill pipe- closed end displacement	0.02426	bbl/foot
Choke line	0.006	bbl/foot
Marine riser	0.39	bbl/foot
Annular Capacities		
Open hole / Drill collar	0.0292	bbl/foot
Open hole / Drill pipe	0.0459	bbl/foot
Casing / Drill pipe	0.0505	bbl/foot
LOT		
Shoe test mud weight	12	ppg
Leak off pressure	2725	psi
Pump Details		
Pump output	0.109	bbl/stk
SCR pressure up Riser at 40 SPM	550	psi
Choke line friction at 40 SPM	300	psi
Shut in data		
SIDPP	200	psi
SICP	600	psi
Pit gain	12	bbls

Use Subsea Baker #1 Kill Sheet to answer the following questions

1. Maximum allowable mud weight before the kick
   _____ ppg

2. MAASP before the kick
   _____ psi

3. Kill mud weight
   _____ ppg

4. Initial circulating pressure
   _____ psi

5. Final circulating pressure
   _____ psi

6. MAASP after well has been killed
   _____ psi

7. Dynamic (adjusted) casing pressure after pump start-up
   _____ psi

8. Pressure drop per step (one-tenth of strokes to Bit)
   _____ psi

9. Pressure drop per 100 strokes from surface to bit
   _____ psi

10. Strokes from surface to bit
    _____ strokes

11. Strokes to displace choke line
    _____ strokes

12. Strokes from bit to surface through choke line
    _____ strokes

13. Strokes from bit to shoe
    _____ strokes

Subsea Baker #2

Hole Dimensions		
Depth(MD/TVD)	10800	feet
9 $^{5}/_{8}$" Casing shoe	8950	feet
Hole size	8 ½	inch
Current mud weight	11.3	ppg
Air gap	70	feet
Water depth	400	feet
Internal Capacities		
6 ½ " Drill collars (length 600 feet)	0.00768	bbl/foot
5" Drill pipe - capacity	0.01776	bbl/foot
5" Drill pipe - metal displacement	0.00650	bbl/foot
5" Drill pipe- closed end displacement	0.02426	bbl/foot
Choke line	0.006	bbl/foot
Marine riser	0.39	bbl/foot
Annular Capacities		
Open hole / Drill collar	0.0292	bbl/foot
Open hole / Drill pipe	0.0459	bbl/foot
Casing / Drill pipe	0.0505	bbl/foot
Riser / Drill pipe	0.3657	bbl/foot
LOT		
Shoe test mud weight	10.5	ppg
Leak off pressure	1950	psi
Pump Details		
Pump output	0.109	bbl/stk
SCR pressure up Riser at 40 SPM	450	psi
Choke line friction at 40 SPM	150	psi
Shut in data		
SIDPP	500	psi
SICP	700	psi
Pit gain	15	bbls

Use Subsea Baker #2 Kill Sheet to answer the following questions.

1. Maximum allowable mud weight before the kick
   _____ ppg

2. MAASP before the kick
   _____ psi

3. Kill mud weight
   _____ ppg

4. Initial circulating pressure
   _____ psi

5. Final circulating pressure
   _____ psi

6. MAASP after well has been killed
   _____ psi

7. Dynamic (adjusted) casing pressure after pump start-up
   _____ psi

8. Pressure drop per step (one-tenth of strokes to Bit)
   _____ psi

9. Pressure drop per 100 strokes from surface to bit
   _____ psi

10. Strokes from surface to bit
    _____ strokes

11. Strokes to displace choke line
    _____ strokes

12. Strokes from bit to surface through choke line
    _____ strokes

13. Strokes from bit to shoe
    _____ strokes

Kill Sheet Answers

Subsea Baker #1

1. 18.7 ppg
2. 2109 – 2117 psi
3. 13.9 ppg
4. 750 psi
5. 563 – 568 psi
6. 1946 – 1979 psi
7. 300 psi
8. 18 – 19 psi
9. 9 – 11 psi
10. 1718 – 1728 strokes
11. 44 – 47 strokes
12. 4521 – 4531 strokes
13. 1228 – 1268 strokes

Subsea Baker #2

1. 14.6 ppg
2. 1535 – 1578 psi
3. 12.2 ppg
4. 950 psi
5. 485 - 487 psi
6. 1115 - 1164 psi
7. 550 psi
8. 45 – 47 psi
9. 27 – 29 psi
10. 1699 – 1709 strokes
11. 25 – 27 strokes
12. 4632- 4652 strokes
13. 667 – 707 strokes