

Surface Baker #1

Hole Dimensions		
Depth (MD/TVD)	10800	feet
9 5/8" Casing shoe	8950	feet
Hole size	8 1/2	inch
Current mud weight	11.3	ppg
Internal Capacities		
6 1/2" 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
5" HWDP (length 500feet) - capacity	0.0088	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	10.5	ppg
Leak off pressure	1850	psi
Pump Details		
Pump Output	0.119	bbl/stk
SCR at 40 SPM	450	psi
Shut in data		
SIDPP	500	psi
SICP	700	psi
Pit gain	12	bbls

Use Surface 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. Strokes from surface to bit
_____ strokes

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

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

9. MAASP after well has been killed
_____ psi

10. Strokes from bit to surface
_____ strokes

11. Strokes from bit to shoe
_____ strokes

Surface Baker #2

Hole Dimensions		
Depth	MD 12,200 feet	TVD 11,850 feet
9 ⁵ / ₈ " Casing shoe		8750 feet
Hole size		8 ½ inch
Current mud weight		10 ppg
Internal Capacities		
6 ½" Drill collars (length 600 feet)		0.0077 bbl/foot
5" Drill pipe - capacity		0.01776 bbl/foot
5" Drill pipe - metal displacement		0.0065 bbl/foot
5" Drill pipe- closed end displacement		0.0246 bbl/foot
5" HWDP (length 650feet) - capacity		0.0086 bbl/foot
Annular Capacities		
Open hole / Drill collar		0.0292 bbl/foot
Open hole / Drill pipe		0.0459 bbl/foot
Casing / Drill pipe		0.0489 bbl/foot
LOT		
Shoe test mud weight		10 ppg
Leak off pressure		1175 psi
Pump Details		
Pump Output		0.119 bbl/stk
SCR at 40 SPM		695 psi
Shut in data		
SIDPP		580 psi
SICP		840 psi
Pit gain		20 bbls

Use Surface 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. Strokes from surface to bit
_____ strokes
7. Pressure drop per step (one-tenth of strokes to Bit)
_____ psi
8. Pressure drop per 100 strokes from surface to bit
_____ psi
9. MAASP after well has been killed
_____ psi
10. Strokes from bit to surface
_____ strokes
11. Strokes from bit to shoe
_____ strokes

Kill Sheet Answers

Surface Baker #1

1. 14.4 ppg
2. 1442 – 1478 psi
3. 12.2 ppg
4. 950 psi
5. 485 – 487 psi
6. 1518 – 1528 strokes
7. 45 - 47 psi
8. 30 – 31 psi
9. 1023 – 1066 psi
10. 4417 - 4437 strokes
11. 609 - 649 strokes

Surface Baker #2

1. 12.5 ppg
2. 1137 – 1180 psi
3. 11.0 ppg
4. 1275 psi
5. 760 - 768 psi
6. 1710 - 1730 strokes
7. 50 – 52 psi
8. 29 – 31 psi
9. 680 – 751 psi
10. 4832 – 4852 strokes
11. 1237 – 1257 strokes