

General Input Data		Convergence			
		New Min.	New Max.	Description	
Field	Wattenberg	Section 1			CONVERGED
Well Name	Simpson FD Pad	Section 2			NO INPUT FOR THIS HOLE SECTION
RT-MSL	0 ft	Section 3			NO INPUT FOR THIS HOLE SECTION
Water Depth	0 ft	Section 4			NO INPUT FOR THIS HOLE SECTION
Water Gradient	0.433 psi/ft	Section 5			NO INPUT FOR THIS HOLE SECTION
		Section 6			NO INPUT FOR THIS HOLE SECTION
		Section 7			NO INPUT FOR THIS HOLE SECTION

Hole/Section Input Data	Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7
Casing Size	9-5/8 inch	5-1/2 inch	4-1/2 inch	0 inch	0 inch	0 inch	0 inch
Casing Shoe TVD (RKB)	1250 ft	7200 ft	11100 ft	0 ft	0 ft	0 ft	0 ft
Fracture Gradient @ Casing Shoe	0.73 psi/ft	0.89 psi/ft					
EMW @ Casing Shoe	14.00 PPG	17.02 PPG					
Next Hole Size	7-7/8 inch	0 inch	0 inch	0 inch	0 inch	0 inch	
Next Casing Size	5-1/2 inch	4-1/2 inch					
Selected Casing Shoe TVD (RKB)	7200 ft	11100 ft					
Kick Intensity	0.01 PPG	0.01 PPG					
Mud Weight	10.00 PPG	10.00 PPG					
Gas Gradient	0.100 psi/ft	0.100 psi/ft					
Kick Tolerance	6.0 bbl	0.0 bbl					
Drill Pipe Outside Diameter	4-1/2 inch	2-3/8 inch					
Minimum Depth Allowable TVD (RKB)	1250 ft						
Maximum Depth Allowable TVD (RKB)	7300 ft						
Min. Converge Starting Point TVD (RKB)	1000 ft	10000 ft	10000 ft	15000 ft	16500 ft	12000 ft	12000 ft
Max. Converge Starting Point TVD (RKB)	5000 ft	12700 ft	13000 ft	18000 ft	19000 ft	20000 ft	20000 ft
First approximation for Gas Gradient	0.060 psi/ft	0.089 psi/ft					
Casing Shoe TVD (BML)	7200 ft						
Casing Shoe TVD (SSL)	7200 ft						
Distance to Previous Shoe	5950 ft						
BHP @ TVD	3748 psi						

Comments: Well will not be drilled underbalanced.
 Kick Tolerance calculations based on swabbing in a kick during a trip. So kick intensity is essentially zero.
 Max depth of well = 7200' TVD (Codell), Max allowable based on Kick Tolerance = 7300' TVD.

Wattenberg Simpson FD Pad
Kick Tolerance Summary

