CUSTOMER WELL: SURVEY DATA for Asta - Centralizer placement model **Computational Results**

We are pleased to give you the best possible well recommendations, hence it is highly appreciated to you to fill the following survey data accurately:

Well Survey:

The survey data is very important in determining the wellbore trajectory and doglegs. [Please insert additional row if required].

M. DEPTH	INC [deg]	AZIMUTH [deg]
WI. DEI III	into [deg]	Azilvio III [deg]

Wellbore intervals [from top down]:

Description	:	ID [in]	MD [ft]	Fricti	on Factor
Case Hole	:				
Open Hole	:				
	:				
	:				
Pipe & Centralizer Properties:					
Traveling Assembly Weigh [TAW]	: _	[lbf]			
Size of Casing/Tubing/Tubular	: _			[in]	
Weight	:			[ppf]	
Grade & Type of Connection	: -				
Average Joint Length	:	ft	ft	ft	ft
Centralizer Req'd per Joint Length	:	Bow	Rigid		
Stand Off or Spacing Req'd	:		% or		ft
If Consider casing flotation, please s	specif	y:			
Air section length	:				[ft]
Maximum air section length	:				[ft]
Operation Data and Fluids:					
Tripping Speed	:				[ft/min]
Rotation speed	:				[rpm]
Pipe end drag or WOB	:				[lbf]
Pipe end torque or TOB	:				[ft-lb]
Mud weight in annulus during					
tripping					[ppg]
Mud inside pipe during tripping	:				[ppg]
Mud weight inside pipe after					
cementing	-				[ppg]

Fluids in well after cement job:

#	Annular fluids	Density (ppg)	Top MD (ft)
1	mud		
2	Slurry		
3			
4			