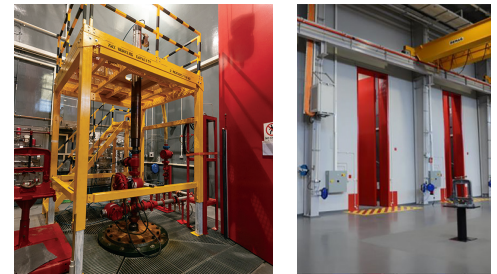


# Singapore Design, Build and Test Center

## Pressure Test Facilities

Facility	Pressure Rating	Temperature Rating	Depth/Length	Hook Height	Cells	Test Mediums
High-Temperature Gas Test Facility, Vertical Bunker	40,000 psi at 4 ft <sup>3</sup>	-115°F to 700°F	45 ft Depth	45 ft	4	Nitrogen, Fluids
High-Temperature Gas Test Facility, Horizontal Bunker	40,000 psi at 4 ft <sup>3</sup>	Ambient	50 ft Length	-	1	Nitrogen, Fluids
API Flow Test	30,000 psi at 4 ft <sup>3</sup>	Ambient	-	45 ft	2	Nitrogen, Fluids, Slurry
Engineering Building (EB)3	20,000 psi at 4 ft <sup>3</sup>	Ambient to 400°F	40 ft Length	-	3	Fluids
Deep Well Simulators	25,000 psi at .8 ft <sup>3</sup>	20°F to 700°F	80 ft Depth	69 ft	2	Nitrogen, Fluids
Swell Technology Laboratories	20,000 psi at 4 ft <sup>3</sup>	Ambient to 400°F	30 ft Length	-	4	Fluids
EB Horizontal Bunkers	20,000 psi at 4 ft <sup>3</sup>	Ambient	50 ft Length	-	2	Fluids
EB Vertical Bunkers	7,000 psi at 1 ft <sup>3</sup>	Ambient	20 ft Depth	30 ft	2	Nitrogen, Fluids
Small-Scale Swell Donuts	-	Ambient to 350°F	-	-	24	Fluids
Small-Scale Swell Force	-	Ambient to 350°F	-	-	8	Fluids



## Test Well

Facility Name	Liner			Vertical	Horizontal
	20 in., Surface-302 ft	13 3/8 in., 302-4,654 ft	9 5/8 in., 4,654-8,745 ft		
Singapore Test Well	20 in., Surface-302 ft	13 3/8 in., 302-4,654 ft	9 5/8 in., 4,654-8,745 ft	7,322 ft	600 ft

## Flow Loop

Facility Name	Flow Rate	Temperature	Control	Pumps
Singapore Flow Loop	18 bbl/min	Ambient to 200°F	Remote Data Acquisition	(3) HT-400™ pump (1) Panther™ Skid



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