Gaucho Unit 82H

Casing Assumptions and Load Cases

Surface

Surface Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Displace to Gas	Formation Pore Pressure	Dry gas from next casing point

Surface Casing Collapse Design		
Load Case	External Pressure	Internal Pressure
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Surface Casing Tension Design	
Load Case Assumptions	
Overpull	100kips
Runing in hole	3 ft/s
Service Loads	N/A

Gaucho Unit 82H

Casing Assumptions and Load Cases

Intermediate

Intermediate Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Fracture @ Shoe	Formation Pore Pressure	Dry gas

Intermediate Casing Collapse Design		
Load Case	External Pressure	Internal Pressure
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Intermediate Casing Tension Design		
Load Case Assumptions		
Overpull	100kips	
Runing in hole	2 ft/s	
Service Loads	N/A	

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Casing Assumptions and Load Cases

Intermediate

Intermediate Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Fracture @ Shoe	Formation Pore Pressure	Dry gas

Intermediate Casing Collapse Design		
Load Case	External Pressure	Internal Pressure
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Intermediate Casing Tension Design	
Load Case Assumptions	
Overpull	100kips
Runing in hole	2 ft/s
Service Loads	N/A

Gaucho Unit 82H Casing Assumptions and Load Cases Production

Production Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Fluid in hole (water or produced water) + test psi
Tubing Leak	Formation Pore Pressure	Packer @ KOP, leak below surface 8.6 ppg packer fluid
Stimulation	Formation Pore Pressure	Max frac pressure with heaviest frac fluid

Production Casing Collapse Design			
Load Case	External Pressure	Internal Pressure	
Full Evacuation	Water gradient in cement, mud above TOC.	None	
Cementing	Wet cement weight	Water (8.33ppg)	

Production Casing Tension Design	
Load Case Assumptions	
Overpull	100kips
Runing in hole	2 ft/s
Service Loads	N/A







