

Well Name: Paramount et al Netla M-23				Onshore
	RT (m)	4.50		
	Water Depth (m)	0.00		
	Total Depth (TVD, (m))	2300.00		
	Mud Weight (kg/cu. m)	1150.00		
Line # in Casing Database	243	96	11	
Type	Surface	Production	Liner	NOTES:
Mud Weight (kg/cu. m)	1150.00	1150.00	1150.00	In well M-23: Schematic shows an intermediate 244.5mm but not mentioned in casing description.. I am assuming they are not running an intermediate in my calculations? Casing indicates a TD of 2330, I used 2300 Td because that is what is in the Approval.
Next Casing Mud Weight	1150.00	1150.00	1150.00	
Top Depth (m RT)	4.50	4.50	1897.00	
Bottom Depth (TVD, (m RT))	499.08	1997.00	2300.00	
Next Casing Depth (m RT)	1997.00	2300.00	2300.00	In their underbalance drilling section pg 10, an equivalent mud weight for a pressure of 17306 kPa @ 1957m is 901 not 1130 kg/m ³ : however I used a gradient of 11 kPa/m (1121 kg/m ³ EMD) until I noticed that an EMD of 1150 was expected in the Arnica at 1960m. Anyway this is the pressures I used but will be less because they are drilling underbalanced.
Grade	K-55	L-80	L-80	
Casing Size, O.D. (mm)	339.70	177.80	114.30	
Casing Weight (kg/m)	81.10	34.23	17.26	
Collapse (kPa)	7800	26400	43800	
Burst (kPa)	18800	43700	53600	
Tensile (kN)	243300	193500	94300	
% Cased	24.99%	86.83%	100.00%	
Safety Factor				
Collapse	1.39	1.17	3.38	
Burst	1.71	1.94	5.64	
Tensile	6.18	2.89	13.82	
Satisfaction				
Collapse	OK	OK	OK	
Burst	OK	OK	OK	
Tensile	OK	OK	OK	

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Grade	J-55	L-80	L-80	
Casing Size, O.D. (mm)	339.70	177.80	114.30	
Casing Weight (kg/m)	81.10	34.23	17.26	
Collapse (kPa)	7800	26400	43800	
Burst (kPa)	18800	43700	53600	
Tensile (kN)	228600	193500	94300	
% Cased	24.99%	86.83%	100.00%	
Safety Factor				
Collapse	1.39	1.17	3.38	
Burst	1.71	1.94	5.64	
Tensile	5.81	2.89	13.82	
Satisfaction				
Collapse	OK	OK	OK	
Burst	OK	OK	OK	
Tensile	OK	OK	OK	