

# Petroleum Exploration (Pvt.) Limited

## WELLHEAD & X-MASS TREE FOR BADAR-3 WELL

S. No	Description	Unit	Quantity Required
	<b>Casing Head Housing, Tubing Head Spool, X-Mass Tree And Accessories</b>		
<b>1</b>	<b>Section A + Accessories [CASING HEAD HOUSING] (API 6A 5K, MC: "CC", Temperature "PU", PSL-1, PRI)</b>		
1.1	<b>Casing Head Housing</b> Top Connection: 11"-5K ; Bottom Connection: 9 5/8" SOW ; C/W 2 Side Outlets Size: 2" LP Threaded Box; With Lock Down Screws & VR Plug	No	1
1.2	<b>Ring Gasket:</b> 11"-5K ; Size: RX-54	No	2
1.3	<b>Stud Assembly:</b> Complete with two nuts for 11" Flange ; Size: 1 7/8" x 13 3/4"	No	16
1.4	<b>Gate Valve:</b> For Side Outlets: Size 2 1/16"-5K ; Type: 2" LP Threaded Box	No	2
1.5	<b>Nipples:</b> 2" LP Pin x Pin, 6" Long	No	2
1.6	<b>Bull Plugs:</b> 2" LP Threaded, Pin X 1/2" NPT ; Pressure Rating: 5000 psi	No	2
1.7	<b>Needle Valve:</b> 1/2" NPT ; Connection: M x F ; Pressure Rating: 5000 psi	No	2
1.8	<b>Pressure Gauge:</b> Range 0-5000 psi ; Connection: 1/2" Male ; Connection Size: 4 1/2" OD	No	2
1.9	<b>Wear Bushing:</b> Size 11" NOM	No	1
1.10	<b>Tool, Combination, Running &amp; Retrieving:</b> 11" NOM	No	1
1.11	<b>Replacement Seal for Wear Bushing:</b> 11" NOM	No	1
1.12	<b>Replacement Seal for Combination Test Tool:</b> 11" NOM	No	1
1.13	<b>Casing Hanger:</b> 11" x 7"; Type Slip & Seal ; C/W Allen Wrench (For Hanging 7" Casing inside 9 5/8")	No	1
<b>2</b>	<b>Section B + Accessories [Tubing Head Spool] (API 6A 5K, MC: "CC", Temperature "PU", PSL-2, PR-2)</b>		
2.1	<b>Tubing Head Spool</b> Top Connection: 11"-5K ; Bottom Connection 11"-5K ; C/W 2 Side Outlets Size: 2 1/16" Studded w/ VR Plug. (Internal Profile of Tubing head spool: To accomodate Mandrel type Tubing hanger of 11" Nominal size at the top and at bottom having prep to accommodate neck part of 7")	No	1
2.2	<b>Ring Gasket:</b> 11"-5K ; Size: RX-54	No	2

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2.3	<b>Stud Assembly:</b> Complete with two nuts for 11" Flange ; Size: 1 7/8" x 13 3/4"	No	16
2.4	<b>Gate Valve:</b> Side Outlets: Size 2 1/16"-5K ; Flanged End	No	2
2.5	<b>Ring Gasket:</b> 2 1/16" - 5K Flange ; Size: RX-24	No	4
2.6	<b>Companion Flange:</b> Size 2 1/16"-5K x 2" LP Threaded	No	2
2.7	<b>Stud &amp; Bolts:</b> 2 1/16"-5K	No	16
2.8	<b>Bull Plugs:</b> 2" LP Threaded ; Pressure Rating: 5000 psi	No	2
2.9	<b>Needle Valve:</b> 1/2" NPT ; Connection: M x F ; Pressure Rating: 5000 psi ; Angled	No	2
2.10	Hand Pump and Grease Injection Gun	No	1
<b>3</b>	<b>Section C + Accessories [Tubing Hanger, Tubing Head Adapter &amp; X-mass Tree] (API 6A 5K, MC: "FF 1.5", Temperature "PU", PSL-2, PR2)</b>		
3.1	<b>Tubing Hanger Assembly:</b> 11" Nominal to be seated in 11"-5K casing spool with 3 1/2" NOM BPV threads, 3-1/2" 9.3 ppf JFE Bear Premium connection. Complete with body and hanger neck seals with 1/4" Continuous Control Line ports.	No	1
3.3	<b>Tubing Head Adapter/Bonnet Assembly:</b> 11"- 5K x 3-1/8" 5K studded top. C/W Prep for 1/4" Continuous control line port. Prepared to accommodate the extended neck of tubing hanger with 1/4 C.L exit Block, complete with studs & bolts.	No	1
3.5	<b>Manual Gate Valves:</b> X-mas Tree: 3 1/8" 5K Flanged Ends	No	4
3.6	<b>Surface Safety Valve:</b> 3 1/8" 5K Flanged Ends ; Reverse Acting Prep for Pneumatic Actuator ; Diaphragm Pneumatic Actuator C/W Bonnet Assy For 3-1/8" 5K Reverse Acting Gate Valve. Actuator Requires 100 psi To open Valve at Full Differential	No	1
3.7	Manual Override for Surface Safety Valve	No	1
3.8	<b>Cross Assembly:</b> 3 1/8" 5K All Sides ; Studded All Sides	No	1
3.9	<b>Stud Assembly:</b> complete with two nuts for 3 1/8" 5K Flanges ; Size 1 1/8" x 7 1/4"	No	48

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3.10	<b>Blind Flange:</b> 3 1/8" Flange with 1/2" NPT Port	No	2
3.11	<b>Instrument Flange:</b> 3 1/8" Flange ; Qty 2: 1/2" NPT Port ; Qty 1: 3/4" Thermowell	No	2
3.12	<b>Needle Valve:</b> 1/2" NPT ; Connection: M x F ; Pressure Rating: 5000 psi	No	3
3.13	<b>Pressure Gauge:</b> Range 0-5000 psi ; Connection: 1/2" Male ; Dial Size: 4 1/2" OD	No	4
3.14	<b>Pressure Gauge:</b> Range 0-5000 psi ; Connection: 1/4" Male ; Dial Size: 3" OD	No	2
3.15	<b>Tree Cap:</b> 3 1/8" Flange with 1/2" NPT Port w/ 6-1/4" Hammer Union Connection	No	1
3.16	<b>Ring Gasket:</b> 3 1/8" - 5K Flange: Size RX35	No	18
3.17	<b>Weld Neck Flange:</b> 3 1/8" 5K Flanged Ends ; Min ID 3" NOM Weld Prep	No	2
3.18	<b>Adjustable Choke Assembly:</b> 3 1/8" 5K Flanged Ends ; 2" NOM	No	1
3.19	Spare Kit For Repair Of Adjustable Choke Including Needle For Above Choke	No	2
3.20	<b>Fixed Choke Assembly:</b> 3 1/8" 5K Flanged Ends ; 2" NOM	No	1
3.21	<b>Additional Choke Beans:</b> 16/64", 24/64", 28/64", 32/64", 36/64", 40/64", 44/64", 48/64", 52/64", 56/64", 64/64", 72/64", 96/64" Along With Choke Bean Wrench	Set	1
3.22	<b>Back Pressure Valve:</b> Type H ; 3" NOM	No	1
3.23	<b>Two Way Check Valve:</b> Type H ; 3" NOM	No	1
3.24	Spare Kits for BPV & TWCV	No	3
3.25	BPV Running & Retrieving Tool	No	2
3.26	Spanner Tool Kit, Compatible w/Range of the bolt sizes of X-mass Tree and Well Head Assy	No	1