Petroleum Exploration (Pvt.) Limited

WELLHEAD & X-MASS TREE FOR AYUB-I WELL

S. No	Description	Unit	Qty		
	Casing Head Housing, Tubing Head Spool, X-Mass Tree And Accessories				
ı	Section A + Accessories [CASING HEAD HOUSING] (API 6A 5K, MC: "BB", Temperature "PU"	, PSL-I, PRI)			
	Casing Head Housing:				
1.1	Top Connection: 13-5/8"-5K Flange; Bottom Connection: 13-3/8" SOW; C/W 2 Side Outlets Size: 2" LP	No	ı		
	Threaded Box; With Lock Down Screws & VR Plug				
1.2	Ring Gasket: 13-5/8"-5K ; Size: BX-160	No	2		
1.3	Stud Assembly: Complete with two nuts for 13-5/8" Flange; Size: 1-5/8" x 12 3/4"	No	18		
1.4	Gate Valve: For Side Outlets: Size $2\frac{1}{16}$ "-5K; Type: 2" LP Threaded Box	No	2		
1.5	Nipples: 2" LP Pin x Pin, 6" Long	No	2		
1.6	Bull Plugs: 2" LP Threaded, Pin X 1/2" NPT ; Pressure Rating: 5000 psi	No	2		
1.7	Needle Valve: 1/2" NPT ; Connection: M x F ; Pressure Rating: 5000 psi	No	2		
1.8	Pressure Gauge: Range 0-5000 psi ; Connection: 1/2" Male ; Connection Size: 4½" OD	No	2		
1.9	Wear Bushing: Size 13-5/8" NOM	No	I		
1.10	Tool, Combination, Running & Retrieving: 13-5/8" NOM	No	I		
1.11	Replacement Seal for Wear Bushing: 13-5/8" NOM	No	1		
1.12	Replacement Seal for Combination Test Tool: 13-5/8" NOM	No	I		
1.13	Casing Hanger: 13-5/8" x 9-5/8" ; Type Slip & Seal ; C/W Allen Wrench	No	I		

2	Section B + Accessories [Tubing Head Spool] (API 6A 10K, MC: "CC", Temperature "PU", PSL-2,	, PR-2)	
2.1	Tubing Head Spool: Top Connection: I1"-10K Flange; Bottom Connection 13-5/8"-5K Flange; C/W 2 Side Outlets Size: 2 ¹/16" Studded w/ VR Plug. (Internal Profile of Tubing head spool: To accommodate Mandrel type Tubing hanger of II" Nominal size at the top and at bottom having prep to accommodate neck part of 9-5/8" casing Stub with P-seals)	No	ı
2.2	Ring Gasket: 11"-10K; Size: RX-54	No	2
2.3	Stud Assembly: Complete with two nuts for 11" Flange; Size: 1 1/8" x 14-1/2"	No	16
2.4	Gate Valve: Side Outlets: Size 21/16"-10K; Flanged End	No	2
2.5	Ring Gasket: $2\frac{1}{16}$ " - 10K Flange ; Size: RX-24	No	4
2.6	Companion Flange: Size 2 1/16"-10K x 2" LP Threaded	No	2
2.7	Stud & Bolts: 2 1/16"-10K	No	18
2.8	Bull Plugs: 2" LP Threaded ; Pressure Rating: 10000 psi	No	2
2.9	Needle Valve: 1/2" NPT; Connection: M x F; Pressure Rating: 10000 psi; Angled	No	2
2.10	Wear Bushing: Size 11" NOM	No	I
2.11	Tool, Combination, Running & Retrieving: NOM	No	I
2.12	Replacement Seal for Wear Bushing: NOM	No	I
2.13	Replacement Seal for Combination Test Tool: NOM	No	I
2.14	Hand Pump and Grease Injection Gun	No	I
3	Section C + Accessories [Tubing Hanger, Tubing Head Adapter & X-mass Tree] (API 6A 10K, MC	: "FF", Tempe	erature
3.1	Tubing Hanger Assembly: 11" Nominal to be seated in 11"-5K with 3" NOM BPV, Lift Threads, 3-1/2" 9.2 ppf Gas Tight Premium Connection Box, Suspension Thread 3-1/2" 9.2 ppf Gas Tight Premium Threads Connection Box, Complete with body and hanger neck seals with 1/4" Continuous Control Line ports., Material class shound be compatible for CO2 envirement	No	ı
3.2	Redress Kit: for 11" Nominal Tubing Hanger Assembly, Body and Neck seals	No	I
3.3	Tubing Head Adapter/Bonnet Assembly: 11"- 10K x 3-1/8" 10K 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	ı
3.4	Ring Gasket: 11" - 10K Flange: Size RX-54	No	2
3.5	Manual Gate Valves: X-mas Tree: 3 1/8" 10K Flanged Ends	No	4

2.4	Surface Safety Valve: 3 1/8" 10K Flanged Ends; Reverse Acting Prep for Pneumatic Actuator; Diaphragm	No	I
3.6	Pneumatic Actuator C/W Bonnet Assy For 3-1/8" 10K Reverse Acting Gate Valve. Actuator Requires 100 psi To open Valve at Full Differential		
3.7	Manual Override for Surface Safety Valve	No	I
3.8	Cross Assembly: 3 1/8' 10K All Sides; Studded All Sides	No	I
3.9	Stud Assembly: complete with two nuts for 3 1/8" 10K Flanges ; Size 1 1/8" x 8-1/2"	No	48
3.1	Companion Flange: 3 1/8" Flange with 1/2" NPT Port	No	2
3.1	Instrument Flange: 3 1/18" Flange ; Qty 2: ½" NPT Port ; Qty 1: 3/4" Thermowell	No	2
3.1	Needle Valve: 1/2" NPT ; Connection: M x F ; Pressure Rating: 10000 psi	No	3
3.1	Pressure Gauge: Range 0-10000 psi ; Connection: 1/2" Male ; Dial Size: 4½" OD	No	4
3.1	Pressure Gauge: Range 0-10000 psi ; Connection: 1/4" Male ; Dial Size: 3" OD	No	2
3.2	Tree Cap: 3 1/8" Flange with ½" NPT Port w/ Hammer Union Connection	No	I
3.2	Ring Gasket: 3 1/8" - 10K Flange: Size RX35	No	18
3.2	Weld Neck Flange: 3 1/8" 10K Flanged Ends ; Min ID 4" NOM Weld Prep	No	2
3.2	Adjustable Choke Assembly: 3 1/8" 10K Flanged Ends; 2" NOM	No	I
3.2	Spare Kit For Repair Of Adjustable Choke Including Needle For Above Choke	No	2
3.2	Fixed Choke Assembly: 3 1/8" 10K Flanged Ends ; 2" NOM	No	I
3.2	Additional Choke Beans: 16/64", 20/64", 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
3.2	Back Pressure Valve: Type H ; 3" NOM	No	I
3.2	Two Way Check Valve: Type H ; 3" NOM	No	I
3.2	Spare Kits for BPV & TWCV	No	3
3.3	BPV Running & Retrieving Tool	No	2