

# Petroleum Exploration (Pvt.) Limited

## DOWNHOLE COMPLETION EQUIPMENT (WASU-I)

S. No	Description	Unit	Quantity Required
<b>1</b>	<b>Completion Assembly</b>		
1	<b>Half Mule shoe/Wireline Re-entry Guide:</b> Wireline re-entry guide with half mule shoe. Size 3 ½" 9.2 ppf Gas Tight Premium connection Box Up . Material: L-80 or equivalent	No	1
2	<b>Spacer Tube:</b> 10 ft long, 3 ½" 9.2 ppf Gas Tight Premium connection Box Up x Pin Down. Material: L-80 or equivalent	No	2
3	<b>Bottom No-Go Landing nipple:</b> Size 2.75". No-Go ID=2.635 Profile OTIS Type "XN" or Baker Type "R", 3 ½" 9.2 ppf Gas Tight Premium connection Box Up x Pin Down. Material: Flow wetted 9Cr-1 Mo L-80 or equivalent	No	1
4	<b>Perforated Pup joint:</b> 10 ft long, 3 ½" 9.2 ppf Gas Tight Premium connection Box Up x Pin Down. Material: L-80 or equivalent	No	1
5	<b>Top No-Go Landing nipple:</b> Size 2.75", Profile OTIS Type "X" or Baker Type "F", 3 ½" 9.2 ppf Gas Tight Premium connection Box Up x Pin Down. Material: Flow wetted 9Cr-1 Mo L-80 or equivalent	No	1
6	<b>Spacer Tube:</b> 10 ft long, 3 ½" 9.2 ppf Gas Tight Premium connection Box Up x Pin Down. Material: L-80 or equivalent	No	1
7	<b>Casing Sub/X-over:</b> To connect Spacer tube with Permanent Packer Bottom. Material: L-80 or equivalent	No	1
11	<b>Production Packer:</b> Hydraulic Set, Permanent type, to be Set in 7", 23-32 ppf Casing, Packer Seal Bore ID 4", Rubber Elements compatible with 2~5% CO <sub>2</sub> , H <sub>2</sub> S = 0 ppm, Pressure Rating 5000 psi & Temperature ±300 °F . Material: L-80 or equivalent.	Set	1
12	<b>Sub/X-over:</b> To connect Spacer tube with Permanent Packer Top. Material: L-80 or equivalent , Top Connection 3½" 9.2 ppf Gas Tight Premier Connection	Set	1
<b>2</b>	<b>Subsurface Flow Control Equipment</b>		
1	<b>Sliding Sleeve Door:</b> Profile: OTIS 'X' or Baker "F" Equivalent ; ID 2.813", Elastomers: Non-Elastomeric Seals, Connections: 3-1/2" 9.2 lbs/ft Gas Tight Premium connection Box up X 3-1/2" 9.2 lbs/ft Gas Tght Premium Connection Pin down. Material: L-80 or equivalent	No	1

# Petroleum Exploration (Pvt.) Limited

## DOWNHOLE COMPLETION EQUIPMENT (WASU-1)

	2	<b>Shifting Tool:</b> For Sliding Sleeve door of 2.813"	No	1
	3	<b>Separation Sleeve:</b> Separation Sleeve for Sliding Sleeve Door of 2.813 profile: w/equilizing feature for retrieval) Rubber Elements compatible with 2~5% CO <sub>2</sub> , H <sub>2</sub> S = 0 ppm, Pressure Rating 5000 psi & Temperature ±300 °F, Mention ID through separation sleeve.	No	1
	4	<b>Redress Kit:</b> for Separation Sleeve of 2.813, Rubber Elements compatible with 2~5% CO <sub>2</sub> , H <sub>2</sub> S = 0 ppm, Pressure Rating 5000 psi & Temperature ±300 °F	Set	1
	5	Running Tool Assembly: For separation sleeve of 2.813"	Set	1
	6	Pulling Tool Assembly: For separation sleeve of 2.813"	Set	1
	7	Flow Coupling: (To be installed above & below TRSCSSSV), 3-1/2" 9.2 lbs/ft Gas Tight Premium Connection Box up X 3-1/2" 9.2 lbs/ft Gas Tight Premium Connection Pin down. Material: L-80 or equivalent.	No	2
	8	<b>TRSCSSSV:</b> Tubing Retrievable Surface Controlled Sub Surface Safety Valve: With Self Equalizing Feature C/W Nipple Adapter Lock profile & Bottom Sub, Max OD should be less than 6", Size: 3-1/2", Metallurgy compatible to 2~5% CO <sub>2</sub> , H <sub>2</sub> S = 0 ppm, Working Pressure: 5,000 psi, Connection: 3-1/2" 9.2 lbs/ft Gas Tight Premium Connection Pin x 3-1/2" 9.2 lbs/ft Gas Tight Premium Connection Box; Profile: OTIS 'X' or Equivalent ; ID: 2.813", Temperature rating: 20-300°F; Type: Flapper. Flow wettted material: 13Cr-L-80 or equivalent (Including 2 sets of: Jam Nut, Front & Rear ferrule fittings for 1/4" continuous hydraulic control line)	No	1
	9	<b>Control Line for TRSCSSSV:</b> Bare Seamless Control Line for TRSCSSSV, Size: 1/4" X 400 ft long, Material: 316 stainless steel	Roll	1
	10	<b>Band-IT Buckles:</b> size 3/4"	No	100
	11	<b>Banding straps</b>	Ft	100
	12	<b>Control Line Tube Cutter</b>	No	1
	13	<b>Band It-Tool</b>	No	1
	14	Hold Open Sleeve (for TRSCSSSV 2.813")	No	1

# Petroleum Exploration (Pvt.) Limited

## DOWNHOLE COMPLETION EQUIPMENT (WASU-1)

	15	Running Tool Assembly: for Hold open Sleeve of 2.813" TRSCSSSV	Set	1
	16	Pulling Tool Assembly: for Hold open Sleeve of 2.813" TRSCSSSV	Set	1
	17	<b>Blanking Plug Assembly:</b> For Top No-Go Landing Nipple, OTIS "X" or Baker "F", size 2.75". Rubber Elements compatible with 2~5% CO <sub>2</sub> , H <sub>2</sub> S = 0 ppm, Pressure Rating 5000 psi & Temperature ±300 °F	Set	1
	18	<b>Redress Kit:</b> For Blanking Plug assembly size 2.75", Top No-Go Landing Nipple, Rubber Elements compatible with 2~5% CO <sub>2</sub> , H <sub>2</sub> S = 0 ppm, Pressure Rating 5000 psi & Temperature ±300 °F	Set	1
	19	<b>Running Tool Assembly:</b> for Blanking Plug of Top No-Go Nipple 2.75"	Set	1
	20	<b>Pulling Tool Assembly:</b> for Blanking Plug of Top No-Go Nipple 2.75"	Set	1
	21	<b>Instrument Gauge Hanger:</b> To be set in bottom No-Go profile size 2.635", OTIS "XN" Nipple or Baker Type "R", Vendor is requested to mention the flow area through hanger.	Set	1
	22	<b>Running Tool Assembly:</b> for Gauge Hanger of 2.635" profile	Set	1
	23	<b>Pulling Tool Assembly:</b> for Gauge Hanger of 2.635" profile	Set	1