

		SINJHORO PLANT PRODUCED WATER DISPOSAL				CONSULTANT 	
DOC. TITLE		DATASHEET FOR PRESSURE RELIEF VALVE					
DOC. NO.		4946-PDS-003		REV. -2			

S.No.	DESCRIPTION	PRV-001A	PRV-001B
1	SERVICE	PRODUCED WATER	PRODUCED WATER
2	LINE NO. / VESSEL NO	4"-PW-011-B1	4"-PW-012-B1
3	FULL NOZZLE / SEMI NOZZLE	FULL	FULL
4	SAFETY OR RELIEF	RELIEF	RELIEF
5	CONV. / BELLOWS / PILOT OP	CONVENTIONAL	CONVENTIONAL
6	BONNET TYPE	CLOSED	CLOSED
7	SIZE INLET OUTLET	1" 2"	1 2"
8	FLANGE RATING	300 X 150	300 X 150
9	TYPE OF FACING	RF x RF	RF x RF
10	BODY AND BONNET	ASME SA-216,GR,WCB,CARBON STEEL	ASME SA-216,GR,WCB,CARBON STEEL
11	NOZZLE AND DISC	SS316L	SS316L
12	GUIDE AND RINGS	SS316L	SS316L
13	SPRING	ALUMINISED C.S	ALUMINISED C.S
14	LIFTING GEAR-TYPE	REQUIRED	REQUIRED
15	TEST GAG	REQUIRED	REQUIRED
16	CAP- SCREWED OR BOLTED	SCREWED	SCREWED
17	TEST CONNECTION	YES-CARBON STEEL	YES-CARBON STEEL
18	MANUAL BLOWDOWN	YES-CARBON STEEL	YES-CARBON STEEL
19	BACK FLOW PREVENTER	NO	NO
20	CODE	API RP-520-521	API RP-520-521
21	LEAKAGE CODE	ANSI / API 527	ANSI / API 527
22	SIZING BASIS	BLOCK DISCHARGE	BLOCK DISCHARGE
23	FLUID	PRODUCED WATER	PRODUCED WATER
24	FLUID STATE	LIQUID	LIQUID
25	SPECIFIC GRAVITY	0.96-0.99	0.96-0.99
26	OPER. PRESS. (psig) SET PRES. (psig)	700 725	700 725
27	OPER. TEMP. (°F) MAX TEMP. (°F)	80-120 150	80-120 150
28	COLD BENCH TEST PRESSURE	VTS	VTS
29	% ALLOWABLE OVERPRESSURE	0.1	0.1
30	OVERPRESSURE FACTOR	N/A	N/A
31	FLOW MAX (kg/hr.)	23000	23000
32	VISCOSITY cP	0.61	0.61
33	DISCHARGE COEF kd	0.65	0.65
34	CHANGE OF STATE COEF. C	VTS	VTS
35	P&ID NO.	4946-PID-002	4946-PID-002
36	CALC. AREA SQ. IN.	0.145	0.145
37	SELECTED AREA SQ. IN.	0.196	0.196
38	ORIFICE DESIGNATION	E	E
39	MANUFACTURER	-	-
40	MODEL NUMBER	VTS	VTS

NOTES:
 1. VENDOR TO CONFIRM THE SUITABILITY OF THIS MODEL FOR THE REQUIRED SERVICE.
 2. VTS = VENDOR TO SPECIFY/CONFIRM
 3. VENDOR TO CONFIRM THE PRV MATERIAL SUITABILITY WITH THE PRODUCED WATER ANALYSIS ATTACHED.

2	17-12-19	Re-Issued For Review	SHR	BA	AJ
1	24-12-18	Re-Issued For Review	SOH	BA	AJ
0	08-03-18	Issued For Review	RK	NWS	AJ
Rev	Date	Description	Prepared	Checked	Approved

CLIENT		SINJHORO PLANT PRODUCED WATER DISPOSAL				CONSULTANT	
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Produced Water Analysis (NOTE-3)							
Parameters				Value			
Conductivity				>90,000 $\mu\text{S}/\text{cm}$			
pH				6.27			
Chloride (as Cl)				48850 ppm			
Iron				78 ppm			
Zinc				1.03 ppm			
Free Chlorine				0.62 ppm			
TDS				99775 ppm			
TSS				100 ppm			
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