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DESIGN VALIDATION & BURST TEST CERTIFICATETest Type: Hydro Test Strength Test Proof Test Burst Test

Test Location:	UNIFORGE FACILITIES; HOUSTON; USA	Test Date:	28 March, and 1st & 2nd May, 2018
Fitting Description:	12"600 Line stop Fitting c/w Completion plug	Design Pressure:	1480 psi
Fitting Serial No.:	1132-01	Test Medium:	Water
Applicable Procedure :	PROCEDURE HOT TAP & LINE STOP TEES –DESIGN & MANUFACTURING VALIDATION Doc. No.: UF-OSE-DM-18-01 version B		

	Applicable Code	Test Pressure	Hold Time	Temperature	Test Date	Result
Hydro Test	ASME VIII Div.1 & ASME B31.1 / B31.3 / B31.4 /B31.8	2200 psi	4 Hours	Ambient	28th Mar & 1st May 2018	Pass
Strength Test	DOT 49 CFR Part 192	2960 psi	4 Hours	Ambient	2nd May 2018	Pass
Proof Test	ASME B16.9	3700 psi	3 minutes	Ambient	2nd May 2018	Pass

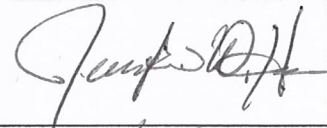
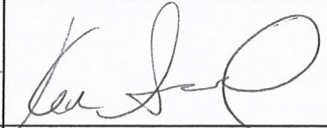

Burst Test

Failure Pressure	4750 psi	Failure Location	Collet on completion plug
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	Serial No.	Range	Calibration Due Date	Certificate No.
Pressure Gauge 1	25503	0 to 5000 psi	31st Oct 2018	23255R
Pressure Gauge 2	1316055	0 to 5000 psi	12th July 2018	252215
Chart Recorder	28151	0 to 5000 psi	30th Oct 2018	23255R
Temperature Recorder	N/A	N/A	N/A	N/A

Remarks

At 4750 psi, one of the collets on the completion plug was damaged. The system survived a pressure greater than 3 times the design pressure. Bureau Veritas Inspector did not witness the Burst Test.

	UNI-FORGE		THIRD PARTY AGENCY
	Tested By:	Witnessed By:	Witnessed by:
Name:	Jackie Haas	Ken Seaux	Juan Rodriguez
Designation:	Hydro Test Technician	GM Manager	Bureau Veritas Inspector
Signature & Seal:			
Date:	9/18/18	9-18-18	07/SEP/2018

