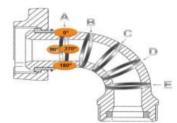
## AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

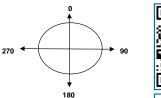


Basra, North Rumaila, Quality Control Yard - Iraq

## CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION & WITNESS PRESSURE TEST

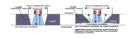
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS							
CLIENT:	HALLIBURTON	REPORT NO.:	QC-24-06-TSS-NDT-003 ASTM E709 & ASTM E797 & ASME B31.1 Halliburton Acceptance Criteria WM-GL-HAL-SWT-501 Monday, June 9, 2025				
LOCATION:	TSS YARD	STANDARD:					
WORK ORDER #		HALLIBURTON DOC					
DATE OF INSPECTION:	Monday, June 10, 2024	NEXT INSPECTION DATE:					
TYPE OF INSPECTION:	TYPE OF INSPECTION: VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING & WITNESS PRESSURE TEST						
DESCRIPTION:	4" 90 DEGREE ELBOW H2S 4" 206 WING X THREAD SERIAL NO:		22-1147				
Pump NO:	13119220	Pressure Gauge NO:	486066				
rump NO:	CAL DUE DATE 27.AUG.2024	Tressure Gauge NO.	CAL DUE DATE 02.AUG.2024				







ALL READINGS IN INCHS MINIMUM THICKNESS PROVIDED BY CUSTMER



THICKNESS POINTS AREA		MINIMUM THICKNESS					
THICKNESS POINTS AREA	0°	90°	180°	270°	IN INCHES		
А	0.319	0.331	0.317	0.322			
В	0.324	0.312 0.318 0.319					
С	0.322	0.316	0.329 0.334		0.218 INCH		
D	0.329	0.317	0.323	0.319			
E	0.325	0.328 0.334		0.338			
INSPECTION RESULT							
VT & MPI	Accepted	According to ASTM E709					
UT	Accepted	According to ASTM E 797 & Halliburton Procedure WM-GL-SWT-501					
BODY	Accepted	*** These Are The Actual Readings Need To Follow The Halliburton Procedure					

INSPECTION RESULT							
VT & MPI	VT & MPI Accepted According to ASTM E709						
UT Accepted According to ASTM E 797 & Halliburton Procedure WM-GL-SWT-501					/M-GL-SWT-501		
BODY Accepted *** These Are The Actual Readings Need To Follow The Halliburton Procedure					alliburton Procedure		
In an action Function							

INSPECTION RESULT						
VT & MPI Accepted According to ASTM E709						
UT	Accepted	According to ASTM E 797 & Halliburton Procedure WM-GL-SWT-501				
BODY Accepted *** These Are The Actual Readings Need To Follow The Halliburton Procedure		*** These Are The Actual Readings Need To Follow The Halliburton Procedure				
Inspection Evaluation						

	Inspection Evaluation						
BODY Accepted *** These Are The Actual Readings Need To Follow The Halliburton Procedure		*** These Are The Actual Readings Need To Follow The Halliburton Procedure					
	UT Accepted According to ASTM E 797 & Halliburton Procedure WM-GL-SWT-501		According to ASTM E 797 & Halliburton Procedure WM-GL-SWT-501				
VT & MPI Accepted According to ASTM E709							

MPI -The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable According to ASTM E709

Note:MPI Wet Fluorescent inspection Thread With UltraViolet Light

Magnetic Particle Inspection With A/C Hand Yoke Welds & Avaliable Areas

U.T-The Above Item Was Found Acceptable As Per ASTM E797 & Halliburton Procedure WM-GL-SWT-501

Pressure TestWitness-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 2.000 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

	INSPECTION EQUIPM	IENT DETAILS	TECHNICAL DETAILS				
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24	WCP-2	Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic	MANUFACT URE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24	Ink 7HF	Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink	MANUFACT URE	BATCH NO	EXPIRE DATE
DC COIL:	22650	CAL DUE DATE	15-Oct-24	14HF	Magnaflux	220306	March.2025
UV BLACK LIGHT:	1898977	CAL DUE DATE	14-Oct-24	Concentration of 14HF:		0.1 to 0.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3630 lux	UV BLACK LIGHT INTENSITY:	3140 µw/cm <sup>2</sup>	Concentration	of 7HF:	1.2 to2.4 ml/100 ml	
PERSON I	DETAILS	REVIEW BY					
INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN		CLIENT:		
QUALIFICATION:	ASNT LEVEL II MT DT	INSPECTION SUPERVISOR:	HANI ALI		HB&SIGN		
SIGNATURE & STAMP:	ASNT/EVEL						
Original - Client Files Conv - Area Office OCEN/P2/07/ Rev.00 DATED 07 NOV 2021							

Origina







