AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

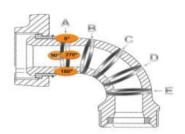
Basra, North Rumaila, Quality Control Yard - Iraq

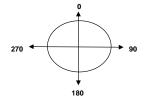


CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT NO.:	QC-24-05-TSS-NDT-007					
LOCATION:	TSS YARD	STANDARD:	ASTM E709 & ASTM E797 & ASME B31.1					
WORK ORDER #	****	HALLIBURTON DOC	Halliburton Acceptance Criteria WM-GL-HAL-SWT-501					
DATE OF INSPECTION:	Saturday, May 25, 2024	NEXT INSPECTION DATE:	Saturday, May 24, 2025					
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:	379388					
Pump NO:	13119220 CAL DUE DATE 27.AUG.2024	Pressure Gauge NO:	486066 CAL DUE DATE 02.AUG.2024					







- ALL READINGS IN INCHS
- **MINIMUM THICKNESS PROVIDED BY CUSTMER



	WALL THICKNESS RESULT				MINIMUM THICKNESS		
THICKNESS POINTS AREA							
	0°	90°	180°	270°	IN INCHES		
Α	0.317	0.329	0.315	0.314	0.218 INCH		
В	0.321	0.318	0.315	0.320			
С	0.319	0.322	0.327	0.324			
D	0.326	0.314	0.320	0.316			
E	0.308	0.311	0.317	0.321			
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 Evaluation							

Inspection Evaluation

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 EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACT URE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 14HF	MANUFACT URE	BATCH NO	EXPIRE DATE
DC COIL:	22650	CAL DUE DATE	15-Oct-24		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:	3620 lux	UV BLACK LIGHT INTENSITY:	3140 μw/cm ²	Concentration of 7HF:		1.2 to2.4 ml/100 ml	
PERSON 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:					DATE:		
Original - Client Files Cony - Area Office OCFN/P2/07// Rey 00 DATED 07 NOV. 2021							



















