AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

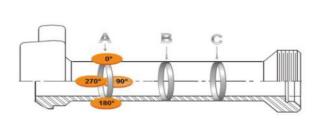
Basra, North Rumaila, Quality Control Yard - Iraq

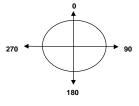


CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

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CLIENT:	HALLIBURTON	REPORT NO.:	QC-24-05-TSS-NDT-008			
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:	3" STRAIGHT JOINT 5FT H2S 3" 1502 WING X THREAD	SERIAL NO:	485112			
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

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THICKNESS POINTS AREA	WALL THICKNESS RESULT				MINIMUM THICKNESS	
	0°	90°	180°	270°	IN INCHES	
A	0.551	0.559	0.542	0.533		
В	0.543	0.531	0.537	0.529	0.345 INCH	
С	0.536	0.535	0.548	0.551		
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

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 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 10.000 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.Shabzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN		CLIENT:		
QUALIFICATION:	G THE STATE	INSPECTION SUPERVISOR:	HANI ALI		HB&SIGN		
SIGNATURE & STAMP:				DATE:			



















