

AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

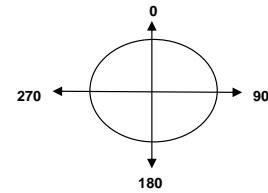
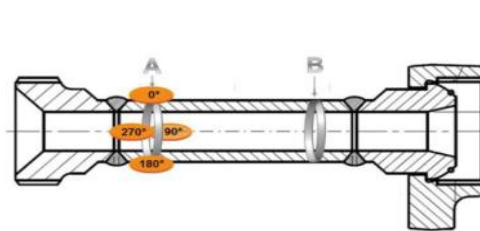
Basra, North Rumaila, Quality Control Yard - Iraq



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

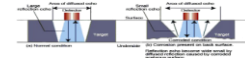
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT NO.:	QC-24-01-TSS-NDT-001
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:	Thursday, January 25, 2024	NEXT INSPECTION DATE:	Friday, January 24, 2025
TYPE OF INSPECTION: VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING & WITNESS PRESSURE TEST			
DESCRIPTION:	4" STRAIGHT JOINT 2FT H2S 4" 206 WING X THREAD	SERIAL NO:	359549
Pump NO:	13119220 CAL DUE DATE 27.AUG.2024	Pressure Gauge NO:	486066 CAL DUE DATE 02.AUG.2024



ONLINE TRACEABILITY

* ALL READINGS IN INCHS
**MINIMUM THICKNESS PROVIDED BY CUSTOMER



THICKNESS POINTS AREA	WALL THICKNESS RESULT				MINIMUM THICKNESS
	0°	90°	180°	270°	
A	0.317	0.325	0.313	0.316	0.218 INCH
B	0.315	0.312	0.327	0.315	

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 Welds & Available 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

INSPECTION EQUIPMENT DETAILS	TECHNICAL DETAILS
AC YOKE S.N: 201504052 CAL DUE DATE 14-Feb-24	White Contrast WCP-2 MANUFACTURE BATCH NO EXPIRE DATE Magnaflux 220602 JUN.2025
Digital Lux Meter WHITE LIGHT 2722003 CAL DUE DATE 16-Feb-24	
UT THICKNESS GAUGE: 3997 CAL DUE DATE 16-Feb-24	Black Magnetic Ink 7HF MANUFACTURE BATCH NO EXPIRE DATE Magnaflux 220605 JULY.2025
UT TEST BLOCK: NoBo5088 CAL DUE DATE 16-Feb-24	
ASTM Test Block: 1657 CAL DUE DATE 14-Feb-24	Fluorescent Magnetic Ink 14HF MANUFACTURE BATCH NO EXPIRE DATE Magnaflux 220306 March.2025
DC COIL: 22650 CAL DUE DATE 14-Feb-24	
UV BLACK LIGHT: 1932401 CAL DUE DATE 14-Feb-24	Concentration of 14HF: 0.1 to 0.4 ml/100 ml
WHITE LIGHT INTENSITY: 3540 lux	UV BLACK LIGHT INTENSITY: 3080 µw/cm² Concentration of 7HF: 1.2 to2.4 ml/100 ml

PERSON DETAILS

REVIEW BY

INSPECTOR NAME: M. Shabrad Ahmed	SENIOR INSPECTOR: NAVEED HUSSAIN	CLIENT:
QUALIFICATION: [Stamp]	INSPECTION SUPERVISOR: HANI ALI	HB&SIGN
SIGNATURE & STAMP: [Stamp]		DATE:

Original - Client Files Copy - Area-Office QC/FN/PT/07 Rev.00 DATED 07.NOV. 2021

