Al TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED
Basra, North Rumaila, Quality Control Yard - Iraq

MAJOR INSPECTION CERIFICATE

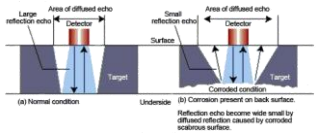
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

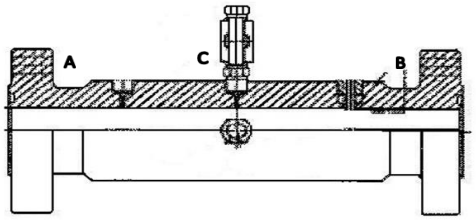
CLIENT:	HALLIBURTON	REPORT No.:	QC-24-01-TSS-013-NDT-MAJ-018
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E797 & ASME SECTION V ARTICLE 5,10 & 27 & ASME B31.1
WORK ORDER #	326171799	SPECIFICATION:	Halliburton Acceptance Criteria H2S STANDARD NACE MQ-01-76
DATE OF INSP:	Thursday, January 25, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

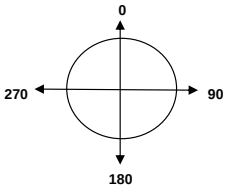
DESCRIPTION:	DATE HEADER 3 1/16" 10K	SAP NO:	11653884
MANUFACTURER:	WORLD WIDE OIL FIELD	SERIAL NO:	10120876-12-1

INSPECTION DETAILS

Max. Working Pressure:	10,000 PSI	Holding Time:	19 Min
Low pressure:	300 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024







A:12'O CLOCK / FORWARD
B:3'O CLOCK / CENTER
C :6'O CLOCK / AFT

* ALL READINGS IN INCH
**MINIMUM THICKNESS PROVIDED BY CUSTMER

ONLINE TRACEBILITY

POINTS	THICKNESS AT POSITION			MINIMUM THICKNESS
	A	B	C	
0°	1.311	1.379	1.766	1.190
90°	1.318	1.321	1.686	
180°	1.332	1.355	1.789	
270°	1.350	1.358	1.752	

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709(70.94158).
UT	Accepted	According to Halliburton Procedure (H2S STANDERD NACE MQ-01-76) ASME SECTION V ARTICLE 5 (ASTM E 797)
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Halliburton Acceptance Criteria

Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To The Halliburton Specification ASTM E709 (70.94158)

U.T-The Above Item Was Found Acceptable As Per Halliburton Procedure H2S STANDARD NACE MQ-01-76 ASME SECTION V ARTICLE 5 (ASTM E 797)

Pressure Test-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 18 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS

AC YOKE S.N:	201504048	CAL DUE DATE	14-Feb-24
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Feb-24
UT THICKNESS GAUGE:	3997	CAL DUE DATE	16-Feb-24
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	16-Feb-24
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-24
WHITE LIGHT INTENSITY:	3570 lux		

TECHNICAL DETAILS

White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
	Magnaflux	220602	JUN,2025
Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
	Magnaflux	220605	JULY.2025
Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		

PERSON DETAILS

INSPECTOR NAME:	M.Shahzad A[illegible]	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:
QUALIFICATION:	A[illegible] MT,PT,UT,VT,	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN
SIGNATURE & STAMP:				DATE: