

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

Basra, North Rumaila, Quality Control Yard - Iraq



**MAJOR INSPECTION CERTIFICATE**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

<b>CLIENT:</b>	<b>HALLIBURTON</b>	<b>REPORT No.:</b>	QC-24-01-TSS-013-NDT-MAJ-001
<b>LOCATION:</b>	TSS WORKSHOP & INSPECTION TEST AREA	<b>STANDARD:</b>	ASTM E709 & ASTM E797 & ASME SECTION V ARTICLE 5,10 & 27 & ASME B31.1
<b>WORK ORDER #</b>	326102061	<b>SPECIFICATION:</b>	Halliburton Acceptance Criteria H2S STANDARD NACE MQ-01-76
<b>DATE OF INSP:</b>	Thursday, January 25, 2024	<b>INSP. DUE DATE:</b>	<b>ANNUAL INSPECTION</b>
<b>TYPE OF INSPECTION:</b>	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

<b>DESCRIPTION:</b>	GATE VALVE: 3 1/16" 10K	<b>CHOKE MANIFOLD #</b>	12516007
<b>MANUFACTURER:</b>	WORLD WIDE OIL FIELD	<b>SERIAL NO:</b>	10120874-1-1

**INSPECTION DETAILS**

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

(a) Normal condition: Large reflection echo / Detector, Area of diffused echo, Target.

(b) Corroded condition: Small reflection echo / Surface, Area of diffused echo, Corroded condition, Target. Reflection echo become wide small by diffused reflection caused by corroded irregular surface.

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 TRACEABILITY

POINTS	THICKNESS AT POSITION				MINIMUM THICKNESS		
	SECTION-1 A	SECTION-1 B	SECTION-2	SECTION-3	SECTION-1	SECTION-2	SECTION-3
0°	1.192	1.260	2.138	2.155	1.060	1.450	1.250
90°	1.199	1.202	2.055	2.107	1.060	1.450	1.250
180°	1.209	1.254	2.167	2.201	1.060	1.450	1.250
270°	1.215	1.223	2.120	2.149	1.060	1.450	1.250

**INSPECTION RESULT**

<b>VT &amp; MPI</b>	Accepted	* ACCORDING TO ASTM E709(70.94158).
<b>UT</b>	Accepted	According to Halliburton Procedure (H2S STANDERD NACE MQ-01-76) ASME SECTION V ARTICLE 5 (ASTM E 797)
<b>BODY</b>	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 19 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
<b>AC YOKE S.N:</b>	201504048	<b>CAL DUE DATE</b>	14-Feb-24	White Contrast WCP-2	<b>MANUFACTURER</b>	<b>BATCH NO</b>	<b>EXPIRE DATE</b>
<b>Digital Lux Meter WHITE LIGHT</b>	2722003	<b>CAL DUE DATE</b>	16-Feb-24		Magnaflux	220602	JUN,2025
<b>UT THICKNESS GAUGE:</b>	3997	<b>CAL DUE DATE</b>	16-Feb-24	Black Magnetic Ink 7HF	<b>MANUFACTURE</b>	<b>BATCH NO</b>	<b>EXPIRE DATE</b>
<b>UT TEST BLOCK:</b>	NoBo5087	<b>CAL DUE DATE</b>	16-Feb-24		Magnaflux	220605	JULY,2025
<b>ASTM Test Block:</b>	1657	<b>CAL DUE DATE</b>	14-Feb-24	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
<b>WHITE LIGHT INTENSITY:</b>	3578 lux						

**PERSON DETAILS**

<b>INSPECTOR NAME:</b>	M. Shanzad Ali	<b>SENIOR INSPECTOR:</b>	NAVEED HUSSAIN	<b>CLIENT:</b>	
<b>QUALIFICATION:</b>	SI, UT, MPI, PT, UT, VT	<b>INSPECTION SUPERVISOR:</b>	HANI ALI	<b>HR&amp;SIGN</b>	
<b>SIGNATURE &amp; STAMP:</b>				<b>DATE:</b>	

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