Al 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

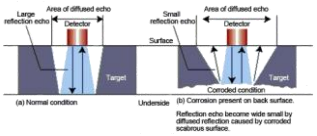
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

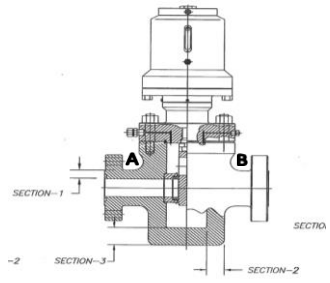
CLIENT:	HALLIBURTON	REPORT No.:	QC-24-05-TSS-NDT-021
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E797 & ASME SECTION V ARTICLE 5,10 & 27 & ASME B31.1, H2S STANDARD NACE MQ-01-75
WORK ORDER #	326589884		
DATE OF INSP:	Monday, May 13, 2024	INSP. DUE DATE:	Monday, May 12, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

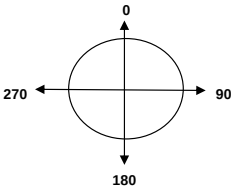
DESCRIPTION:	SSV 3 1/16" 15K	CHOKE MANIFOLD #	11483048
MANUFACTURER:	WORD WIDE OIL FIELD	SERIAL NO:	101869561

INSPECTION DETAILS

Max. Working Pressure:	15,000 PSI	Holding Time:	18 Min
Low pressure:	300 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	218230280019 Cal DUE. MARCH.2025







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		
	SECTION-1 A	SECTION-1 B	SECTION-2	SECTION-3	SECTION-1	SECTION-2	SECTION-3
0°	1.452	1.480	2.965	2.904	1.290	2.650	2.460
90°	1.464	1.478	2.951	2.919	1.290	2.650	2.460
180°	1.471	1.489	2.903	2.861	1.290	2.650	2.460
270°	1.475	1.481	2.940	2.954	1.290	2.650	2.460

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	According to 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 ASTM E709

U.T-The Above Item Was Found Acceptable As Per 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 15.000 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:	201504052	CAL DUE DATE	12-Aug-24
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	14-Aug-24
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	14-Aug-24
ASTM Test Block:	1657	CAL DUE DATE	12-Aug-24
WHITE LIGHT INTENSITY:	3620 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 Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	[illegible]	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

Al TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq

CERTIFICATION OF VISUAl, THOROUGH EXAMINATON & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON(TSS)	**Report No:**	QC-24-05-TSS-MAJ-NDT-022
Location:	TSS (Burjesia Halliburton Camp)	**WO Number:**	326589884
Date:	Monday, May 13, 2024	**Next Inspection Date:**	Monday, May 12, 2025
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	**Specification:**	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API6A
		UNIT DESCRIPTION:	FLANGE 3 1/16" 15 K X 3" 1502 THREAD
		UNIT S/N:	12421

INSPECTION RESULT :

VISUAL , THOROUGH EXAMINATION	Unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage
MAGNETIC PARTICLE INSPECTION	Thread & Avaliable critical areas inspected and found free from cracks and other defects
FINAL RESULTS	unit found satisfactory and free of defects at the time of inspection

COMMENT:

(MPI Wet Flourocent Inspection Thread With UltraViolet Light)
Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast

EQUIPMENT DETAILS

EQUIPMENT :	AC/DC HAND Yoke	**EQUIPMENT :**	Shooting Coil DC	**EQUIPMENT :**	UV BLACK LIGHT: 3120 µw/cm²
S.NO:	201504052	**S.NO:**	22650	**S.NO:**	1898977
Cal Due Date:	12.AUG.2024	**Cal Due Date:**	12.AUG.2024	**Cal Due Date:**	12.AUG.2024

FLUORESCENT 14HF	Magnaflux	**Batch No:**	220306	EXPIRE DATE:	MARCH,2025
Whie Contrast Paint Manufacture:	Magnaflux	**Batch No:**	220602	EXPIRE DATE:	JUN,2025

Digital Lux Meter WHITE LIGHT INTENSITY:	**TECHNICAL DETAILS**		**Black Magnetic Ink Manufacture:7HF**
3580 Lux/S.NO:2722003	Wet FLUORESCENT Particle Concentration 14 HF	0.1 to 0.4 ml/100 ml	Batch No:220605
Cal Due Date:14.AUG.2024	Black Magnetic Ink Concentration 7 HF	1.2 to 2.4 ml/100 ml	EXPIRE DATE: Jul-25

PERSON DETAILS

INSPECTOR NAME: M.SHAHZAD AHMED	
QUALIFICATION: ASNT LEVEL II MT & PT & VT	
STAMP & SIGNATURE:	Al Takamul Company NDT QUALITY CONTROL 2 For Engineering Services

REVIEW BY

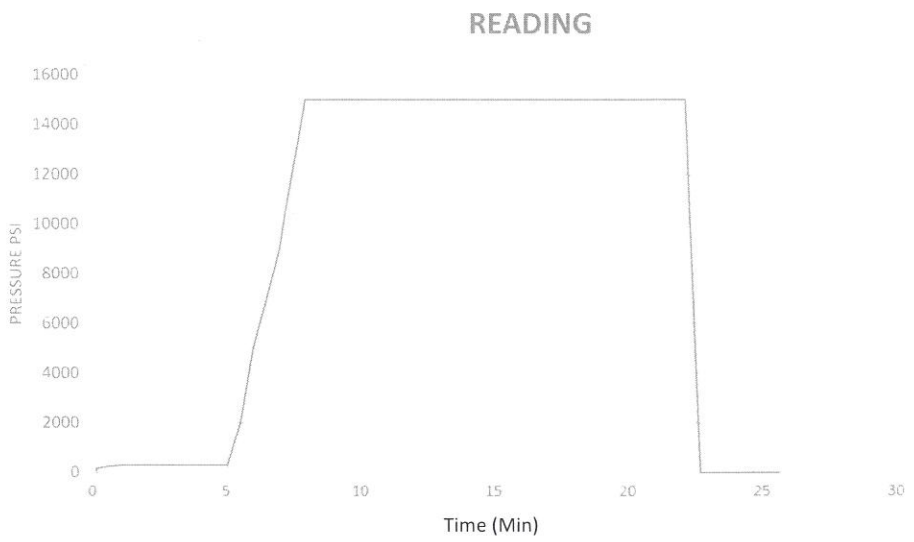
SENIOR INSPECTOR:	NAVEED HUSSAIN
SUPERVISOR:	HANI ALI
CLIENT:	

Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 NOV 2021

Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	**30000 PSI**

Run Info	
Start Time	8:30 AM
Stop Time	8:53 AM
Test Date	13-May-24
EQ NUMBER	11483048
LAST CALIB	7-Mar-24



TESTED BY : Feras Abbas SIGN:

APPROVED BY: Hassan Kamel SIGN:

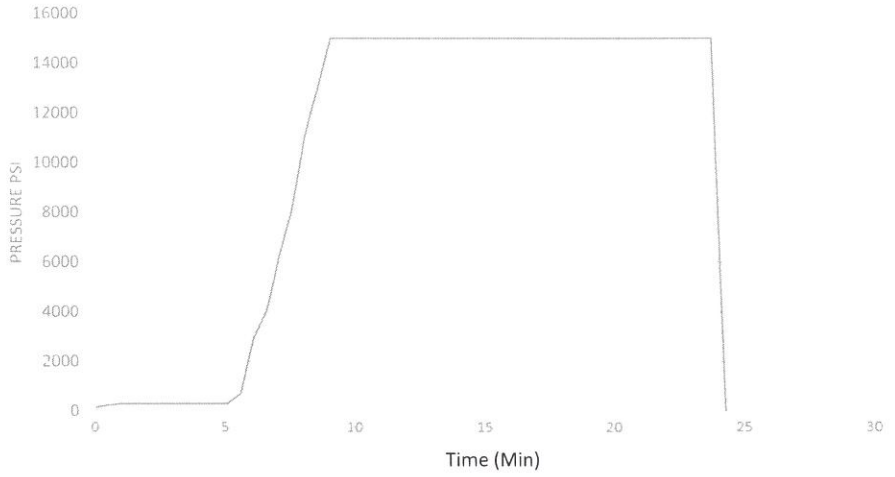
COMMENTS: Body Test

Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	**30000 PSI**

Run Info	
Start Time	9:00 AM
Stop Time	9:24 AM
Test Date	13-May-24
EQ NUMBER	11483048
LAST CALIB	7-Mar-24

READING



TESTED BY : Feras Abbas SIGN:

APPROVED BY: Hassan Kamel SIGN: H Kamel

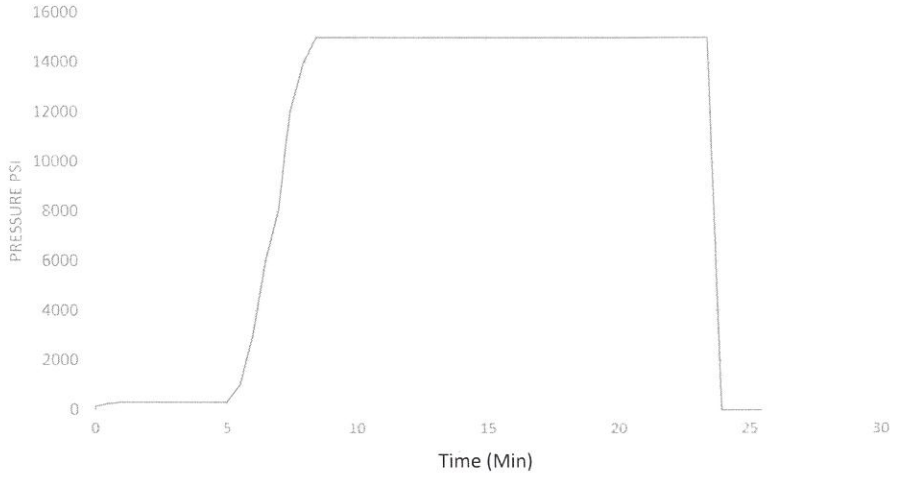
COMMENTS: Upstream

Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	**30000 PSI**

Run Info	
Start Time	9:30 AM
Stop Time	9:54 AM
Test Date	13-May-24
EQ NUMBER	11483048
LAST CALIB	7-Mar-24

READING



TESTED BY : Feras Abbas SIGN:

APPROVED BY: Hassan Kamel SIGN: H.Kamel

COMMENTS: Downstream

Kamul Company NDT QUALITY CONTROL 2 For Engineering Services