

MAJOR INSPECTION CERTIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-TSS-NDT-MAJ-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA BASRA YARD	STANDARD:	ASTM E709 & ASTM E797 & ASME SECTION V ARTICLE 5,10 & 27 & ASME B31.1
WORK ORDER #	326418689	SPECIFICATION:	Halliburton Acceptance Criteria H2S STANDARD NACE MQ-01-76
DATE OF INSP:	Wednesday, April 3, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	SSV 3 1/16" 10K	CHOKE MANIFOLD #	12007250
MANUFACTURER:	WORD WIDE OIL FIELD	SERIAL NO:	IO10926-1
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) Normal condition
(b) Corrosion present on back surface
Reflection echo become wide small by diffused reflection caused by corroded roughest surface.

SECTION-1
SECTION-2
SECTION-3

0
270 ← → 90
180

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	1.225	2.070	2.086	1.060	1.450	1.250
90°	1.199	1.202	2.055	2.107	1.060	1.450	1.250
180°	1.206	1.224	2.014	2.048	1.060	1.450	1.250
270°	1.215	1.223	2.046	2.084	1.060	1.450	1.250

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

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504052	CAL DUE DATE	12-Aug-24	White Contrast WCP-2	MANUFACTUR E	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	14-Aug-24		Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24	Black Magnetic Ink 7HF	MANUFACT URE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	14-Aug-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	12-Aug-24	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3490 lux						

PERSON DETAILS				
INSPECTOR NAME:	M. Shanzad Ali	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:
QUALIFICATION:	SA, LE, PT, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN
SIGNATURE & STAMP:				DATE:

MAJOR INSPECTION CERTIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-24-04-TSS-NDT-MAJ-002	
Location:	TSS WORKSHOP & INSPECTION TEST AREA BASRA YARD	WORK ORDER	326418689	
Date:	Wednesday, April 3, 2024	Next Inspection Date:	ANNUAL INSPECTION	
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A	
	UNIT DESCRIPTION:	FLANGE 3 1/16" 10K X 3" 1502 THREAD		
	UNIT S/N:	M0073-2-2		
	SSV SAP:	12007250		
	INSPECTION RESULT :			
	VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION		
	MAGNETIC PARTICLE INSPECTION	Thread & Groove areas inspected and found free from cracks and other defects		
	FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED		
	COMMENT: (MPI Wet Fluorescent inspection Thread With UltraViolet Light) Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast			

EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY		
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3041 μw/cm ²	INSPECTOR NAME: M.SHAHZAD AHMED		SENIOR INSPECTOR:	NAVEED HUSSAIN	
S.NO:	201504052	S.NO:	22650	S.NO:	1898977			QUALIFICATION: ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024			STAMP & SIGNATURE:	CLIENT:	
FLUORESCENT 14HF		Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025				
Whie Contrast Paint Manufacture:		Magnaflux	Batch No:	220602	EXPIRE DATE:	JUN,2025				
TECHNICAL DETAILS					Black Magnetic Ink Manufacture:7HF					
Digital Lux Meter WHITE LIGHT INTENSITY:					Batch No:220605					
3490 Lux/S.NO:2722003		Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml						
Cal Due Date:14.AUG.2024		Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE:	Jul-25			

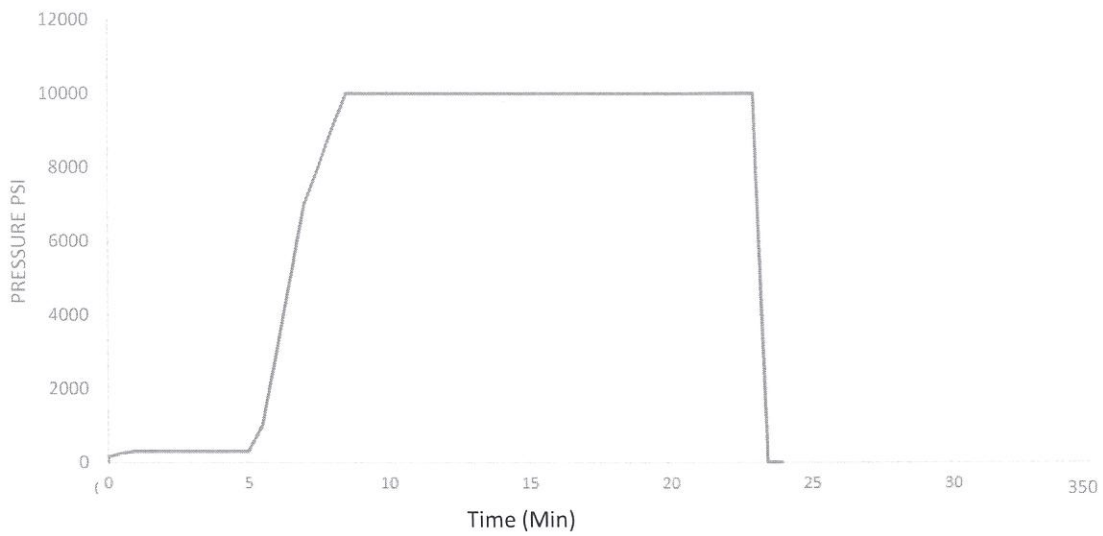
Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 NOV 2021

Data Collection Report

Gauge Information	
Serial Number	468066
Model	XP2I
Message Store	TSS test area
Units	PSI
SCALE	15000 PSI

Run Info	
Start Time	8:30 AM
Stop Time	8:54 AM
Test Date	6-Apr-24
EQ NUMBER	12007250
LAST CALIB	2.Aug.2023

READING



TESTED BY : Haider Emad
APPROVED BY: Hassan Kamel
COMMENTS: Body Test

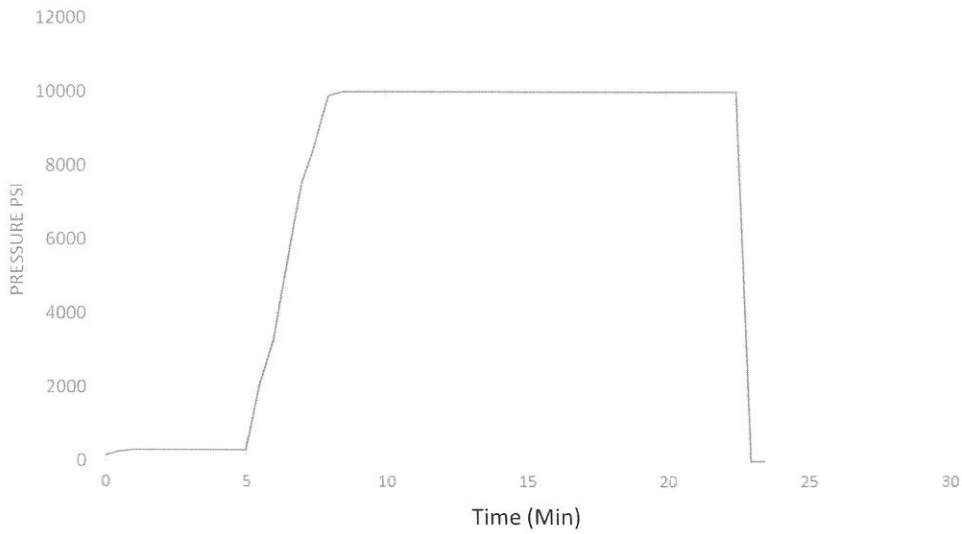


Data Collection Report

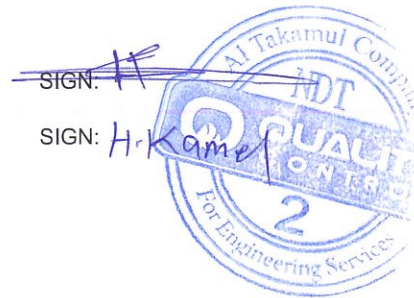
Gauge Information	
Serial Number	468066
Model	XP2I
Message Store	TSS test area
Units	PSI
SCALE	15000 PSI

Run Info	
Start Time	9:00 AM
Stop Time	9:24 AM
Test Date	6-Apr-24
EQ NUMBER	12007250
LAST CALIB	2.Aug.2023

READING



TESTED BY : Haider Emad
APPROVED BY: Hassan Kamel
COMMENTS: Upstream Test

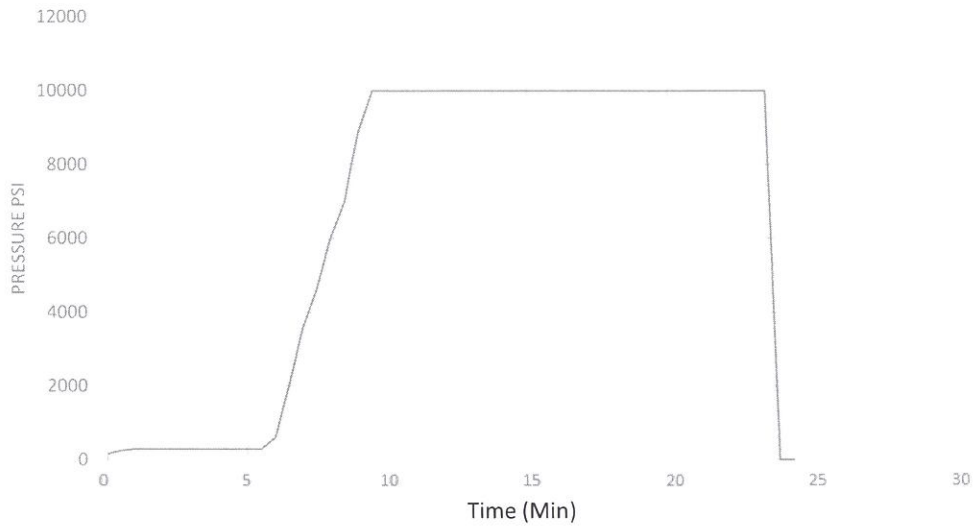


Data Collection Report

Gauge Information	
Serial Number	468066
Model	XP2I
Message Store	TSS test area
Units	PSI
SCALE	15000 PSI

Run Info	
Start Time	9:30 AM
Stop Time	9:54 AM
Test Date	6-Apr-24
EQ NUMBER	12007250
LAST CALIB	2.Aug.2023

READING



TESTED BY : Haider Emad
APPROVED BY: Hassan Kamel
COMMENTS: Downstream Test

SIGN: 
SIGN: 
