

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

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-NDT-MAJ-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A , ASME B31.1
WORK ORDER #	*****		
DATE OF INSP:	Thursday, May 30, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND PRESSURE TEST WITNESS		

DESCRIPTION:	FLANGE 3" 600 X 3" 206 WING	DIVERTER MANIFOLD SAP NO:	12405462
		SERIAL NO:	TSS-2

INSPECTION DETAILS

Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	100 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



ONLINE TRACEABILITY

Inspection Evaluation

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

Note: MPI Wet Fluorescent inspection Thread With UltraViolet Light

Pressure Test-The Above Item was Pressure Tested to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN.2025
DC COIL:	22650	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UV BLACK LIGHT:	1932401	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
WHITE LIGHT INTENSITY:	3620 lux				Magnaflux	220306	March.2025

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M. Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CPVT	INSPECTION SUPERVISOR:	HANI ALI	HB SIGN	
SIGNATURE & STAMP:				DATE:	

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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

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-NDT-MAJ-003
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A , ASME B31.1
WORK ORDER #	*****		
DATE OF INSP:	Thursday, May 30, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND PRESSURE TEST WITNESS		

DESCRIPTION:	FLANGE 3" 600 X 3" 206 WING	DIVERTER MANIFOLD SAP NO:	12405462
		SERIAL NO:	TSS-4

INSPECTION DETAILS

Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	100 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



Inspection Evaluation

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

Note: MPI Wet Fluorescent inspection Thread With UltraViolet Light

Pressure Test-The Above Item was Pressure Tested to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN,2025
DC COIL:	22650	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UV BLACK LIGHT:	1932401	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
WHITE LIGHT INTENSITY:	3620 lux				Magnaflux	220306	March,2025

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M. Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CPVT	INSPECTION SUPERVISOR:	HANI ALI	HB SIGN	
SIGNATURE & STAMP:				DATE:	

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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

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-NDT-MAJ-003
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A , ASME B31.1
WORK ORDER #	*****		
DATE OF INSP:	Thursday, May 30, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND PRESSURE TEST WITNESS		

DESCRIPTION:	FLANGE 3" 600 X 3" 206 WING	DIVERTER MANIFOLD SAP NO:	12405462
		SERIAL NO:	TSS-3

INSPECTION DETAILS

Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	100 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



ONLINE TRACEABILITY

Inspection Evaluation

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

Note: MPI Wet Fluorescent inspection Thread With UltraViolet Light

Pressure Test-The Above Item was Pressure Tested to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN.2025
DC COIL:	22650	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UV BLACK LIGHT:	1932401	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
WHITE LIGHT INTENSITY:	3620 lux				Magnaflux	220306	March.2025

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M. Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CPVT	INSPECTION SUPERVISOR:	HANI ALI	HB SIGN	
SIGNATURE & STAMP:				DATE:	

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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

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-NDT-MAJ-004
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A , ASME B31.1
WORK ORDER #	*****		
DATE OF INSP:	Thursday, May 30, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND PRESSURE TEST WITNESS		

DESCRIPTION:	FLANGE 3" 600 X 3" 206 THREAD	DIVERTER MANIFOLD SAP NO:	12405462
		SERIAL NO:	TSS-1

INSPECTION DETAILS

Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	100 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



ONLINE TRACEABILITY

Inspection Evaluation

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

Note: MPI Wet Fluorescent inspection Thread With UltraViolet Light

Pressure Test-The Above Item was Pressure Tested to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN.2025
DC COIL:	22650	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UV BLACK LIGHT:	1932401	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
WHITE LIGHT INTENSITY:	3620 lux				Magnaflux	220306	March.2025

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M. Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CPVT	INSPECTION SUPERVISOR:	HANI ALI	HB SIGN	
SIGNATURE & STAMP:				DATE:	

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THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

DESCRIPTION:	3" 600 BALLON VALVE	DIVERTER MANIFOLD SAP NO:	12405462
		SERIAL NO:	00MQX

Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	100 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



Inspection Evaluation

Pressure Test-The Above Item was Pressure Tested to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

PERSON DETAILS		REVIEW BY			
INSPECTOR NAME:	M. Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	WILLIAMSON, J. D. VI	INSPECTION SUPERVISOR:	HANI ALI	HDR SIGN	
SIGNATURE & STAMP:				DATE:	

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MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-NDT-MAJ-006
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & ASME B31.1
WORK ORDER #	*****		
DATE OF INSP:	Thursday, May 30, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND PRESSURE TEST WITNESS		

DESCRIPTION:	3" 600 BALLON VALVE	DIVERTER MANIFOLD SAP NO:	12405462
		SERIAL NO:	00MR1

INSPECTION DETAILS

Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	100 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



ONLINE TRACEABILITY

Inspection Evaluation

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

Pressure Test-The Above Item was Pressure Tested to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTUR E	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN,2025
DC COIL:	22650	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACT URE	BATCH NO	EXPIRE DATE
UV BLACK LIGHT:	1932401	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 14HF	MANUFACT URE	BATCH NO	EXPIRE DATE
WHITE LIGHT INTENSITY:	3620 lux				Magnaflux	220306	March,2025

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP-105, NDT, UT, MT, PT, ET, RT, VT, AT, ST, DT, FT, GT, HT, IT, JT, KT, LT, MT, NT, OT, PT, QT, RT, ST, TT, UT, VT, WT, XT, YT, ZT	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-NDT-MAJ-007
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & ASME B31.1
WORK ORDER #	*****		
DATE OF INSP:	Thursday, May 30, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND PRESSURE TEST WITNESS		

DESCRIPTION:	3" 600 BALLON VALVE	DIVERTER MANIFOLD SAP NO:	12405462
		SERIAL NO:	00MQV

INSPECTION DETAILS

Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	100 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



ONLINE TRACEABILITY

Inspection Evaluation

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

Pressure Test-The Above Item was Pressure Tested to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTUR E	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN,2025
DC COIL:	22650	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACT URE	BATCH NO	EXPIRE DATE
UV BLACK LIGHT:	1932401	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 14HF	MANUFACT URE	BATCH NO	EXPIRE DATE
WHITE LIGHT INTENSITY:	3620 lux				Magnaflux	220306	March.2025

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP NDT, NDT, NDT	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-NDT-MAJ-008
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & ASME B31.1
WORK ORDER #	*****		
DATE OF INSP:	Thursday, May 30, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND PRESSURE TEST WITNESS		

DESCRIPTION:	3" 600 BALLON VALVE	DIVERTER MANIFOLD SAP NO:	12405462
		SERIAL NO:	147N

INSPECTION DETAILS

Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	100 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



ONLINE TRACEABILITY

Inspection Evaluation

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

Pressure Test-The Above Item was Pressure Tested to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTUR E	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN,2025
DC COIL:	22650	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACT URE	BATCH NO	EXPIRE DATE
UV BLACK LIGHT:	1932401	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 14HF	MANUFACT URE	BATCH NO	EXPIRE DATE
WHITE LIGHT INTENSITY:	3620 lux				Magnaflux	220306	March.2025

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP-105, NDT, UT, MT, PT, ET, RT, VT, ST, AT, DT, FT, GT, HT, IT, JT, KT, LT, MT, NT, OT, PT, QT, RT, ST, TT, UT, VT, WT, XT, YT, ZT	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-NDT-MAJ-009
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & ASME B31.1
WORK ORDER #	*****		
DATE OF INSP:	Thursday, May 30, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND PRESSURE TEST WITNESS		

DESCRIPTION:	3" 600 BALLON VALVE	DIVERTER MANIFOLD SAP NO:	12405462
		SERIAL NO:	00MQJ

INSPECTION DETAILS

Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	100 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



ONLINE TRACEABILITY

Inspection Evaluation

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

Pressure Test-The Above Item was Pressure Tested to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTUR E	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN,2025
DC COIL:	22650	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACT URE	BATCH NO	EXPIRE DATE
UV BLACK LIGHT:	1932401	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 14HF	MANUFACT URE	BATCH NO	EXPIRE DATE
WHITE LIGHT INTENSITY:	3620 lux				Magnaflux	220306	March,2025

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT, NDT, NDT, NDT	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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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

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-NDT-MAJ-010
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & ASME B31.1
WORK ORDER #	*****		
DATE OF INSP:	Thursday, May 30, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND PRESSURE TEST WITNESS		

DESCRIPTION:	TEE FLANGE 3" 600 X FLANGE 3" 600 X FLANGE 3" 600	DIVERTER MANIFOLD SAP NO:	12405462
		SERIAL NO:	TSS-5

INSPECTION DETAILS

Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	100 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



ONLINE TRACEABILITY

Inspection Evaluation

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

Pressure Test-The Above Item was Pressure Tested to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURER	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN,2025
DC COIL:	22650	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURER	BATCH NO	EXPIRE DATE
UV BLACK LIGHT:	1932401	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 14HF	MANUFACTURER	BATCH NO	EXPIRE DATE
WHITE LIGHT INTENSITY:	3620 lux				Magnaflux	220306	March,2025

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M. Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED	INSPECTION SUPERVISOR:	HANI ALI	HB SIGN	
SIGNATURE & STAMP:				DATE:	

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MAJOR INSPECTION CERTIFICATE

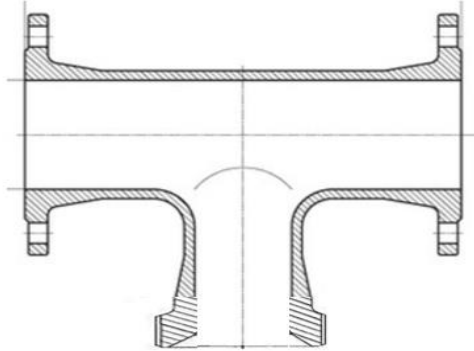
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-NDT-MAJ-011
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & ASME B31.1
WORK ORDER #	*****		
DATE OF INSP:	Thursday, May 30, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND PRESSURE TEST WITNESS		

DESCRIPTION:	TEE FLANGE 3" 600 X FLANGE 3" 600 X 3" 206 THREAD	DIVERTER MANIFOLD SAP NO:	12405462
		SERIAL NO:	TSS-6

INSPECTION DETAILS

Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	100 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



ONLINE TRACEABILITY

Inspection Evaluation

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

Note: MPI Wet Fluorescent inspection Thread With UltraViolet Light

Pressure Test-The Above Item was Pressure Tested to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN.2025
DC COIL:	22650	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UV BLACK LIGHT:	1932401	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
WHITE LIGHT INTENSITY:	3620 lux				Magnaflux	220306	March.2025

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M. Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP-105 VT	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

Original - Client Files Copy - Area Office QC/FN/PT/077 Rev.00 DATED 07.NOV. 2021

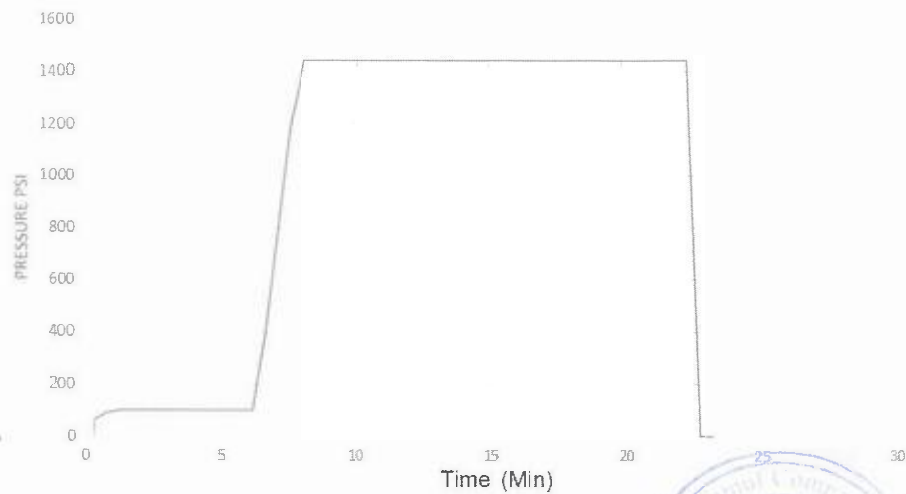


Data Collection Report

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

Run Info	
Start Time	11:30 AM
Stop Time	11:54 AM
Test Date	31-May-24
EQ NUMBER	12405462
LAST CALIB	2.Aug.2023

READING



TESTED BY: Feras Abbas
APPROVED BY: Hassan Kamel
COMMENTS: Body Test

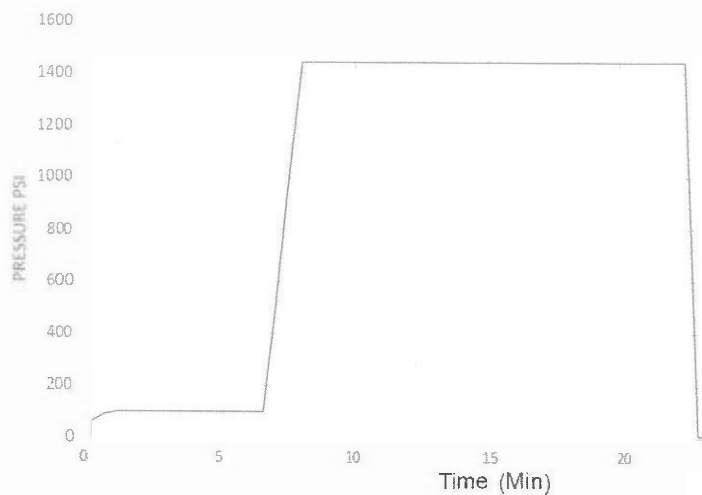


Data Collection Report

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

Run Info	
Start Time	12:00 PM
Stop Time	12:24 PM
Test Date	31-May-24
EQ NUMBER	12405462
LASTCALIB	2.Aug.2023

READING



TESTED BY: Feras Abbas
APPROVED BY: Hassan Kamel
COMMENTS: Downstream



Data Collection Report

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

Run Info	
Start Time	12:30 PM
Stop Time	12:54 PM
Test Date	31-May-24
EQ NUMBER	12405462
LASTCALIB	2.Aug.2023

READING



TESTED BY: Feras Abbas
APPROVED BY: Hassan Kamel
COMMENTS: Upstream

