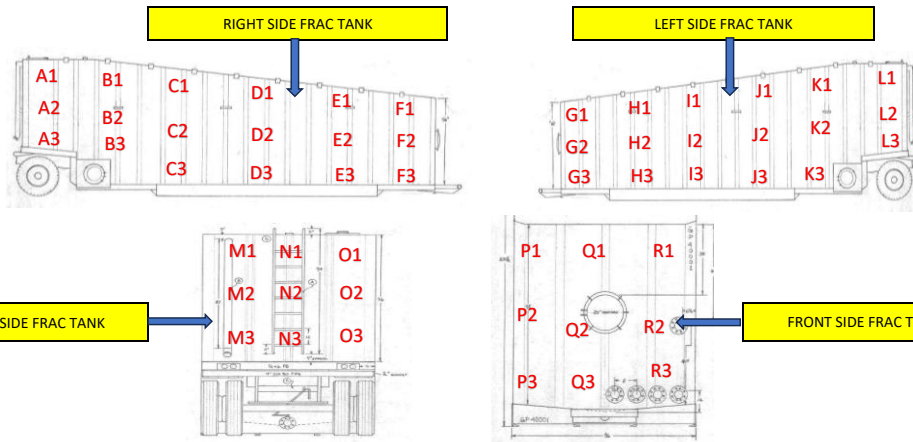


MAJOR INSPECTION CERIFICATE

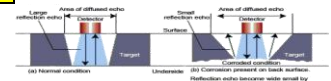
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-67-TSS-NDT-MAJ-002
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	180424
WORK ORDER #		SPECIFICATION:	ASTM E709 & ASTM E 797
INSPECTION DATE:	Thursday, April 18, 2024	NEXT INSPECTION DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	FRAC TANK 500 BBL	SAP NO.:	11243967
MANUFACTURER:	Alshirawi Equipment Company		

INSPECTION DETAILS



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



ANGLE	THICKNESS AT POSITION						MINIMUM THICKNESS	FINAL REMARKS
	A	B	C	D	E	F		
RIGHT SIDE TOP 1	7.52	7.57	7.50	7.36	7.62	7.68	4.67 MM	SATISFACTORY
RIGHT SIDE MIDDEL 2	7.57	7.65	7.70	7.76	7.99	7.91		
RIGHT SIDE BOTTOM 3	7.66	7.68	7.45	7.48	7.40	7.44		
	G	H	I	J	K	L		
LEFT SIDE TOP 1	7.83	7.75	7.80	7.86	7.90	7.82		
LEFT SIDE MIDDEL 2	7.92	7.94	7.56	7.59	7.51	7.55		
LEFT SIDE BOTTOM 3	7.78	7.80	7.63	7.66	7.58	7.62		
	M		N		O			
BACK SIDE TOP 1	8.84		9.08		9.12			
BACK SIDE MIDDEL 2	8.93		9.07		8.72			
BACK SIDE BOTTOM 3	9.02		8.81		9.00			
	P		Q		R			
FRONT SIDE TOP 1	9.05		8.81		8.85			
FRONT SIDE MIDDEL 2	9.14		8.81		8.99			
FRONT SIDE BOTTOM 3	8.87		9.02		8.73			

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	ACCORDING TO ASTM E 797

Inspection Evaluation

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

U.T-The Above Item Was Found Acceptable As Per ASTM E 797

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
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3620 lux						

PERSON DETAILS

INSPECTOR NAME:	M. Saad Ahmad	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP	INSPECTION SUPERVISOR:	HANI ALI	DESIGN:	
SIGNATURE & STAMP:				DATE:	

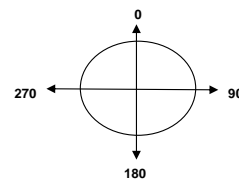
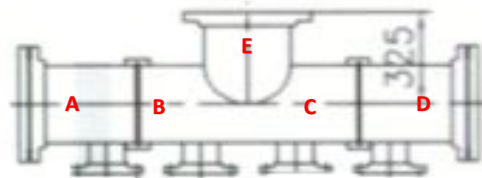


MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

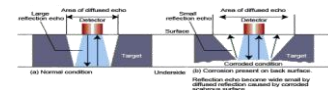
CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-67-TSS-NDT-MAJ-003
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	180424
WORK ORDER #		SPECIFICATION:	ASTM E709 & ASTM E 797
INSPECTION DATE:	Thursday, April 18, 2024	NEXT INSPECTION DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	FRAC TANK MANIFOLD	FRAC TANK SAP NO.:	11243967

INSPECTION DETAILS



ONLINE TRACEABILITY

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



ANGLE	THICKNESS AT POSITION					MINIMUM THICKNESS	FINAL REMARKS
	A	B	C	D	E		
0°	9.09	9.26	9.23	9.16	8.95	4.67 MM	SATISFACTORY
90°	9.03	8.95	9.00	9.06	9.18		
180°	9.15	9.17	9.14	9.17	9.09		
270°	8.90	8.92	8.92	9.10	9.07		

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	ACCORDING TO ASTM E 797

Inspection Evaluation

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

U.T.-The Above Item Was Found Acceptable As Per ASTM E 797

INSPECTION EQUIPMENT DETAILS

TECHNICAL 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
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3620 lux						

PERSON DETAILS

INSPECTOR NAME:	M. Shehbaz Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT LEVEL 3	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

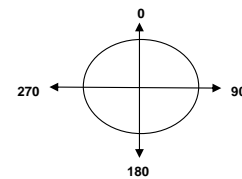
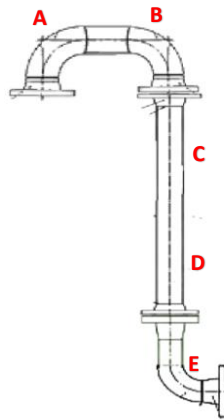


MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

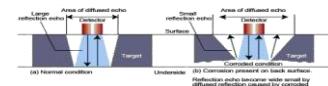
CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-67-TSS-NDT-MAJ-004
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	180424
WORK ORDER #		SPECIFICATION:	ASTM E709 & ASTM E 797
INSPECTION DATE:	Thursday, April 18, 2024	NEXT INSPECTION DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	FRAC TANK RELIEF LINE	FRAC TANK SAP NO.:	11243967

INSPECTION DETAILS



ONLINE TRACEABILITY

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



ANGLE	THICKNESS AT POSITION				MINIMUM THICKNESS	FINAL REMARKS
	0°	90°	180°	270°		
A	6.62	6.74	6.57	6.48	4.67 MM	SATISFACTORY
B	6.70	6.62	6.67	6.71		
C	6.65	6.67	6.62	6.65		
D	6.58	6.50	6.55	6.61		
E	6.62	6.64	6.55	6.58		

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	ACCORDING TO ASTM E 797

Inspection Evaluation

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

U.T. The Above Item Was Found Acceptable As Per ASTM E 797

INSPECTION EQUIPMENT DETAILS

TECHNICAL 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
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3620 lux						

PERSON DETAILS

INSPECTOR NAME:	M. Saad Ahmad	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP-1	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



AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq



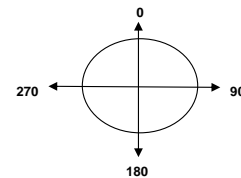
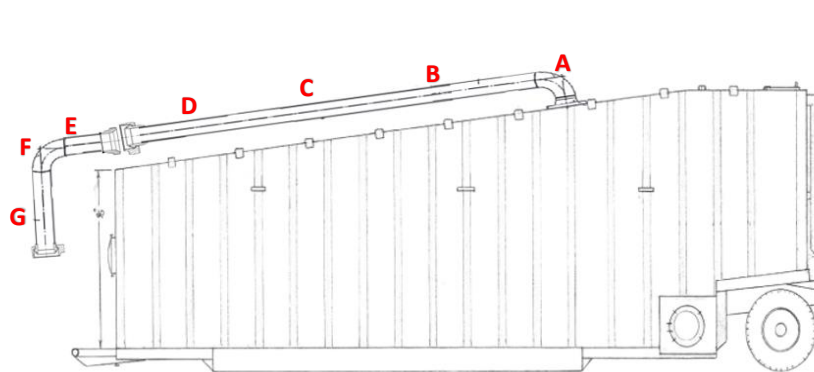
MAJOR INSPECTION CERTIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-67-TSS-NDT-MAJ-012
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	180424
WORK ORDER #		SPECIFICATION:	ASTM E709 & ASTM E 797
INSPECTION DATE:	Thursday, April 18, 2024	NEXT INSPECTION DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

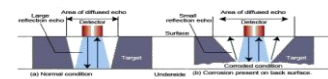
DESCRIPTION:	FRAC TANK FILL LINE	FRAC TANK SAP NO.:	11243967
--------------	---------------------	--------------------	----------

INSPECTION DETAILS



ONLINE TRACEABILITY

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



ANGLE	THICKNESS AT POSITION				MINIMUM THICKNESS	FINAL REMARKS
	0°	90°	180°	270°		
A	6.72	6.75	6.68	6.50	4.67 MM	SATISFACTORY
B	6.71	6.63	6.68	6.72		
C	6.66	6.68	6.63	6.66		
D	6.53	6.45	6.50	6.56		
E	6.61	6.53	6.58	6.62		
F	6.56	6.58	6.41	6.62		
G	6.57	6.59	6.56	6.65		

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	ACCORDING TO ASTM E 797

Inspection Evaluation

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

U.T-The Above Item Was Found Acceptable As Per ASTM E 797

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
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24	Magnaflux	220605	JULY.2025	
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3620 lux						



PERSON DETAILS

INSPECTOR NAME:	M. Shukhad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP-1	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



MAJOR INSPECTION CERIFICATE



Client:	HALLIBURTON (TSS)	Report No:	QC-24-04-67-TSS-NDT-MAJ-005
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	
Inspection Date:	Thursday, April 18, 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: 4" 150 CL X 4" 206 THREAD
		UNIT S/N:	184-01
		FRAC TANK SAP NO:	11243967
		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 & Availiable critical 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			
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC
S.NO:	201504048	S.NO:	22650
Cal Due Date:	14.OCT.2024	Cal Due Date:	15.OCT.2024
FLUORESCENT 14HF	Magnaflux	Batch No:	220306
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602
UV BLACK LIGHT:	3210 µw/cm²	EXPIRE DATE:	MARCH,2025
S.NO:	201504048	S.NO:	22650
Cal Due Date:	14.OCT.2024	Cal Due Date:	14.OCT.2024
FLUORESCENT 14HF	Magnaflux	Batch No:	220306
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602
EXPIRE DATE:	MARCH,2025	EXPIRE DATE:	JUN,2025
TECHNICAL DETAILS			
Digital Lux Meter	Black Magnetic Ink Manufacture:7HF		Batch No:220605
WHITE LIGHT INTENSITY:	Wet FLUORESCENT Particle Concentration 14 HF	0.1 to 0.4 ml/100 ml	
3620 Lux/S.NO:2722003	Black Magnetic Ink Concentration 7 HF	1.2 to 2.4 ml/100 ml	EXPIRE DATE: Jul-25
Cal Due Date:16.OCT.2024			

Original - Client Files

Copy - Area Office




QC/FN/MPI/065 Rev.00 DATED 07 NOV 2021

MAJOR INSPECTION CERIFICATE

Client: HALLIBURTON (TSS)		Report No: QC-24-04-67-TSS-NDT-MAJ-006	
Location: TSS WORKSHOP & INSPECTION TEST AREA		WORK ORDER	
Inspection Date: Thursday, April 18, 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: 4" 150 CL X 4" 206 THREAD	
		UNIT S/N: 184-02	
		FRAC TANK SAP NO: 11243967	
		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 & Availible critical 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			
EQUIPMENT : AC/DC HAND Yoke	EQUIPMENT : Shooting Coil DC	EQUIPMENT : UV BLACK LIGHT: 3210 μw/cm²	INSPECTOR NAME: M.Shahzad Ahmed QUALIFICATION: ASNT LEVEL II MT & PT & VT STAMP & SIGNATURE: 
S.NO: 201504048	S.NO: 22650	S.NO: 1898977	
Cal Due Date: 14.OCT.2024	Cal Due Date: 15.OCT.2024	Cal Due Date: 14.OCT.2024	
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:	Wet FLUORESCENT Particle Concentration 14 HF	0.1 to 0.4 ml/100 ml	Batch No:220605
3620 Lux/S.NO:2722003	Black Magnetic Ink Concentration 7 HF	1.2 to 2.4 ml/100 ml	EXPIRE DATE: Jul-25
Cal Due Date:16.OCT.2024			
PERSON DETAILS		REVIEW BY	
		SENIOR INSPECTOR:	NAVEED HUSSAIN
		SUPERVISOR:	HANI ALI
		CLIENT:	



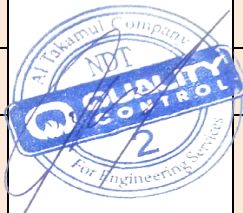
Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 NOV 2021

MAJOR INSPECTION CERIFICATE

Client: HALLIBURTON (TSS)		Report No: QC-24-04-67-TSS-NDT-MAJ-007	
Location: TSS WORKSHOP & INSPECTION TEST AREA		WORK ORDER	
Inspection Date: Thursday, April 18, 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: 4" 150 CL X 4" 206 WING
		UNIT S/N:	184-03
		FRAC TANK SAP NO:	11243967
		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 & Availible critical 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			
EQUIPMENT : AC/DC HAND Yoke	EQUIPMENT : Shooting Coil DC	EQUIPMENT : UV BLACK LIGHT: 3210 μw/cm²	INSPECTOR NAME: M.Shahzad Ahmed
S.NO: 201504048	S.NO: 22650	S.NO: 1898977	
Cal Due Date: 14.OCT.2024	Cal Due Date: 15.OCT.2024	Cal Due Date: 14.OCT.2024	
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		STAMP & SIGNATURE: 
Digital Lux Meter WHITE LIGHT INTENSITY:	Batch No:220605		
3620 Lux/S.NO:2722003	Wet FLUORESCENT Particle Concentration 14 HF	0.1 to 0.4 ml/100 ml	
Cal Due Date:16.OCT.2024	Black Magnetic Ink Concentration 7 HF	1.2 to 2.4 ml/100 ml	
EXPIRE DATE: Jul-25			
PERSON DETAILS		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

MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-24-04-67-TSS-NDT-MAJ-008
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	
Inspection Date:	Thursday, April 18, 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: 4" 150 CL X 4" 206 WING
		UNIT S/N:	184-04
		FRAC TANK SAP NO:	11243967
		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 & Availible critical 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			
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC
S.NO:	201504048	S.NO:	22650
Cal Due Date:	14.OCT.2024	Cal Due Date:	15.OCT.2024
FLUORESCENT 14HF	Magnaflux	Batch No:	220306
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602
UV BLACK LIGHT:	3210 µw/cm²	Cal Due Date:	14.OCT.2024
INSPECTOR NAME:	M.Shahzad Ahmed	EXPIRE DATE:	MARCH,2025
QUALIFICATION:	ASNT LEVEL II MT & PT & VT	EXPIRE DATE:	JUN,2025
STAMP & SIGNATURE:			
SENIOR INSPECTOR:	NAVEED HUSSAIN		
SUPERVISOR:	HANI ALI		
CLIENT:			
TECHNICAL DETAILS			
Digital Lux Meter	Wet FLUORESCENT Particle Concentration 14 HF		Black Magnetic Ink Manufacture:7HF
WHITE LIGHT INTENSITY:	0.1 to 0.4 ml/100 ml		Batch No:220605
3620 Lux/S.NO:2722003	1.2 to 2.4 ml/100 ml		EXPIRE DATE: Jul-25
Cal Due Date:16.OCT.2024			




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

MAJOR INSPECTION CERIFICATE

Client: HALLIBURTON (TSS)		Report No: QC-24-04-67-TSS-NDT-MAJ-009	
Location: TSS WORKSHOP & INSPECTION TEST AREA		WORK ORDER	
Inspection Date: Thursday, April 18, 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: 4" 150 CL X 4" 206 WING
		UNIT S/N:	184-05
		FRAC TANK SAP NO:	11243967
		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 & Availible critical 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			
EQUIPMENT : AC/DC HAND Yoke	EQUIPMENT : Shooting Coil DC	EQUIPMENT : UV BLACK LIGHT: 3210 µw/cm²	INSPECTOR NAME: M.Shahzad Ahmed QUALIFICATION: ASNT LEVEL II MT & PT & VT STAMP & SIGNATURE: 
S.NO: 201504048	S.NO: 22650	S.NO: 1898977	
Cal Due Date: 14.OCT.2024	Cal Due Date: 15.OCT.2024	Cal Due Date: 14.OCT.2024	
FLUORESCENT 14HF	Magnaflux	Batch No: 220306	EXPIRE DATE: MARCH,2025
Whie Contrast Paint Manufacture:	Magnaflux	Batch No: 220602	EXPIRE DATE: JUN,2025
TECHNICAL DETAILS			REVIEW BY SENIOR INSPECTOR: NAVEED HUSSAIN SUPERVISOR: HANI ALI CLIENT:
Digital Lux Meter WHITE LIGHT INTENSITY:	Black Magnetic Ink Manufacture:7HF		
3620 Lux/S.NO:2722003	Wet FLUORESCENT Particle Concentration 14 HF	0.1 to 0.4 ml/100 ml	
Cal Due Date:16.OCT.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

MAJOR INSPECTION CERIFICATE

Client: HALLIBURTON (TSS)		Report No: QC-24-04-67-TSS-NDT-MAJ-010	
Location: TSS WORKSHOP & INSPECTION TEST AREA		WORK ORDER	
Inspection Date: Thursday, April 18, 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: 4" 150 CL X 4" 206 WING
		UNIT S/N:	184-06
		FRAC TANK SAP NO:	11243967
		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 & Availible critical 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			
EQUIPMENT : AC/DC HAND Yoke	EQUIPMENT : Shooting Coil DC	EQUIPMENT : UV BLACK LIGHT: 3210 µw/cm²	INSPECTOR NAME: M.Shahzad Ahmed
S.NO: 201504048	S.NO: 22650	S.NO: 1898977	
Cal Due Date: 14.OCT.2024	Cal Due Date: 15.OCT.2024	Cal Due Date: 14.OCT.2024	
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		STAMP & SIGNATURE:
Digital Lux Meter WHITE LIGHT INTENSITY:	Wet FLUORESCENT Particle Concentration 14 HF	0.1 to 0.4 ml/100 ml	
3620 Lux/S.NO:2722003	Black Magnetic Ink Concentration 7 HF	1.2 to 2.4 ml/100 ml	
Cal Due Date:16.OCT.2024		EXPIRE DATE: Jul-25	
PERSON DETAILS		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

MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-24-04-67-TSS-NDT-MAJ-011
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	
Inspection Date:	Thursday, April 18, 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: 4" 150 CL X 4" 206 WING
		UNIT S/N:	184-07
		FRAC TANK SAP NO:	11243967
		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 & Availible critical 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			
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC
S.NO:	201504048	S.NO:	22650
Cal Due Date:	14.OCT.2024	Cal Due Date:	15.OCT.2024
FLUORESCENT 14HF	Magnaflux	Batch No:	220306
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602
UV BLACK LIGHT:	3210 µw/cm²	Cal Due Date:	14.OCT.2024
INSPECTOR NAME:	M.Shahzad Ahmed	EXPIRE DATE:	MARCH,2025
QUALIFICATION:	ASNT LEVEL II MT & PT & VT	EXPIRE DATE:	JUN,2025
TECHNICAL DETAILS		Black Magnetic Ink Manufacture:	7HF
Digital Lux Meter WHITE LIGHT INTENSITY:	3620 Lux/S.NO:2722003	Wet FLUORESCENT Particle Concentration 14 HF	0.1 to 0.4 ml/100 ml
Cal Due Date:16.OCT.2024	Black Magnetic Ink Concentration 7 HF	1.2 to 2.4 ml/100 ml	Batch No:220605
	EXPIRE DATE:	Jul-25	
PERSON DETAILS		REVIEW BY	
		SENIOR INSPECTOR:	NAVEED HUSSAIN
		SUPERVISOR:	HANI ALI
		CLIENT:	

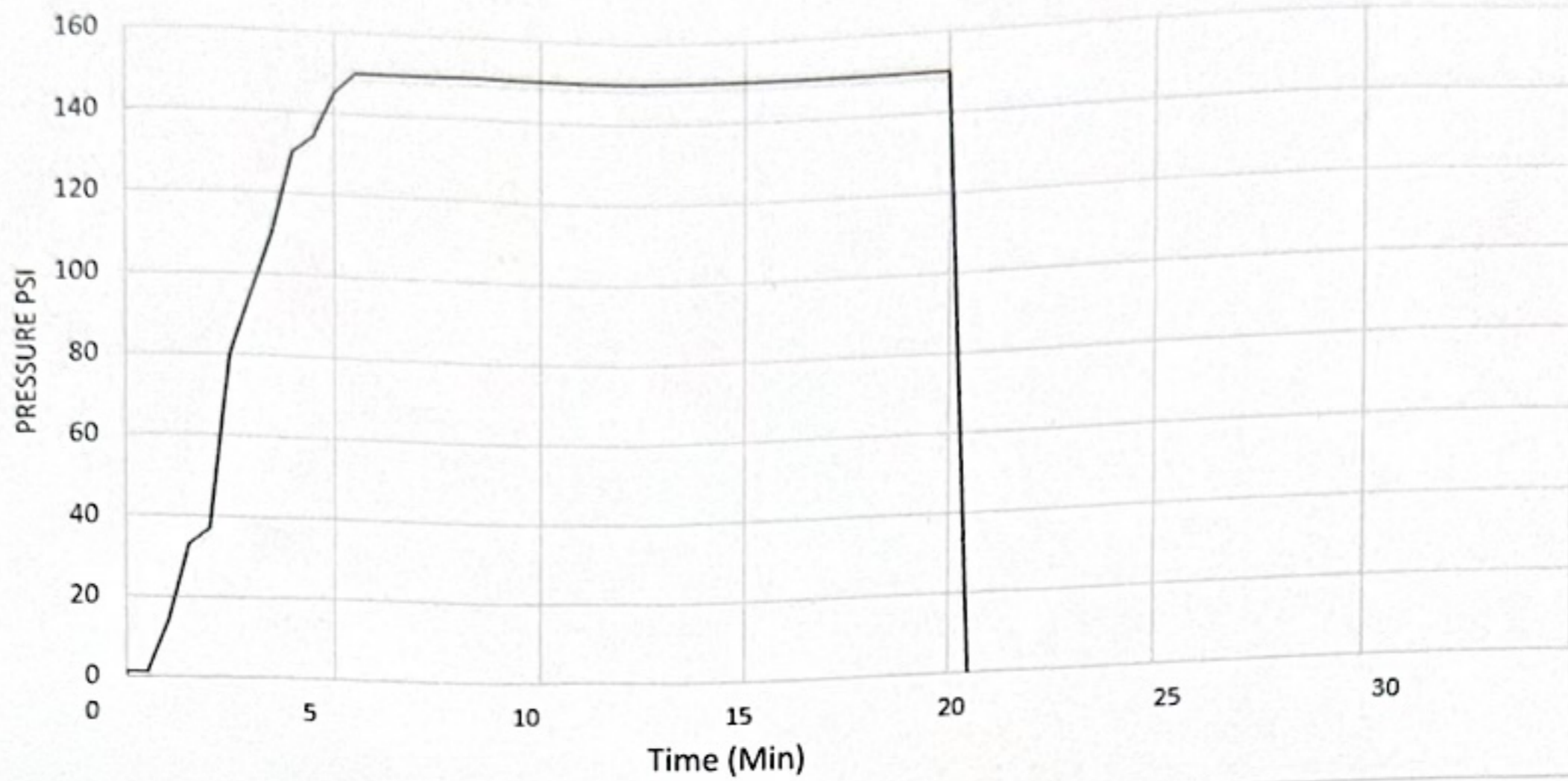
Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 NOV 2021

Data Collection Report

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

Run Info	
Start Time	11:00 AM
Stop Time	11:21 AM
Test Date	20-Apr-24
EQ NUMBER	11243967
CAL DATE	2.Aug.2023

READING



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

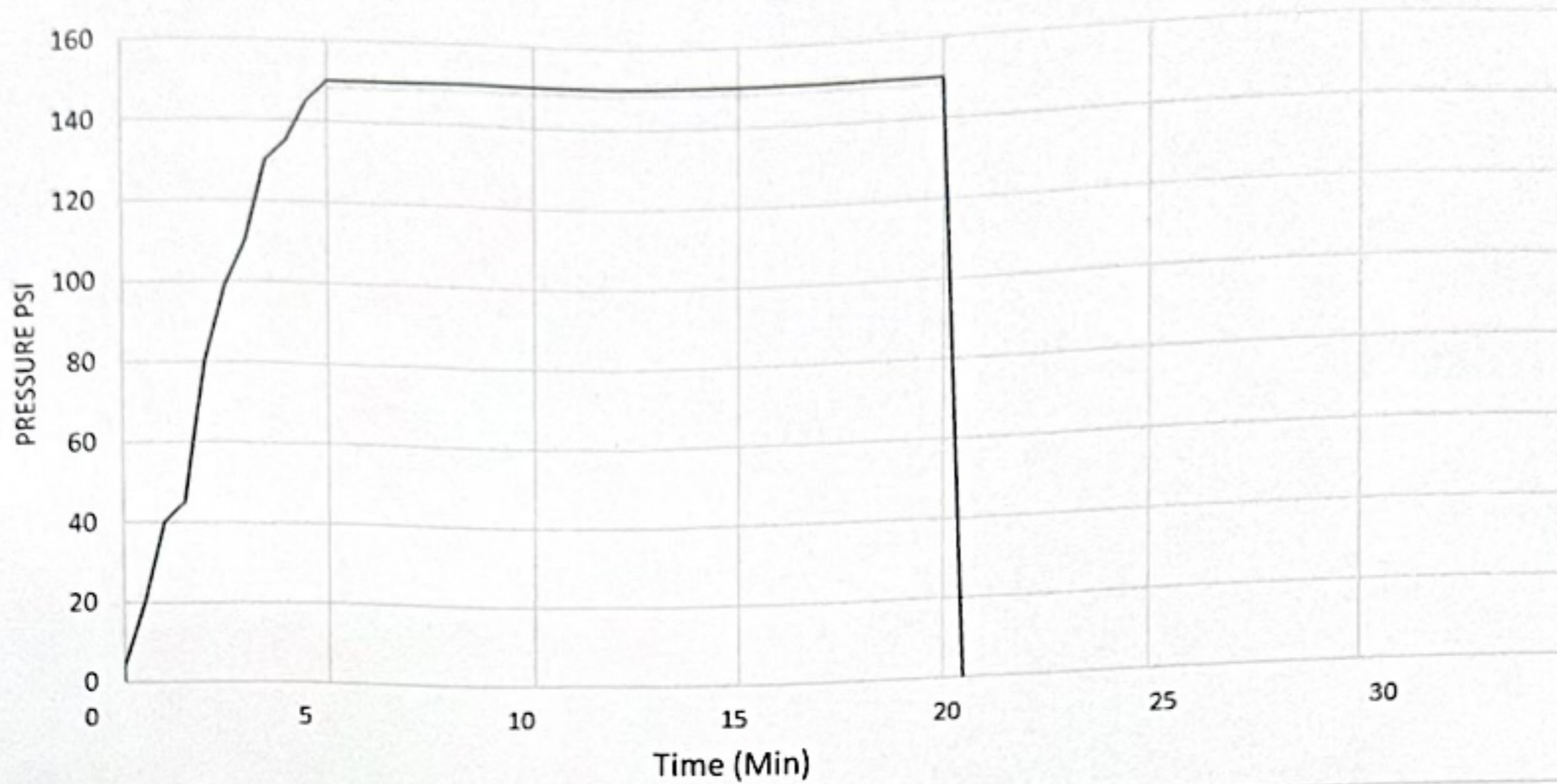


Data Collection Report

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

Run Info	
Start Time	11:41 AM
Stop Time	12:02 PM
Test Date	20-Apr-24
EQ NUMBER	11243967
CAL DATE	2.Aug.2023

READING



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

