

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

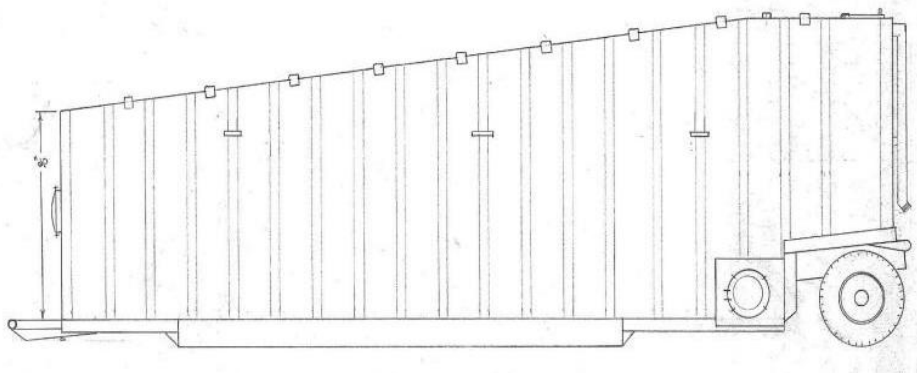
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATE OF QUALIFICATION VISUAL AND WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-107-TSS-NDT-MAJ-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	300424
WORK ORDER #		SPECIFICATION:	ASME B31.1 / CUSTOMER SPECIFICATION
DATE OF INSPECTION :	Wednesday, May 1, 2024	INSP. DUE DATE:	Wednesday, April 30, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION AND WITNESS PRESSURE TEST		
DESCRIPTION:	FRAC TANK 500 BBL	SAP NO:	11218107
INLET PRESSURE TEST	150 Psi	HOLDING TIME:	15 MINUTES
OUTLET PRESSURE TEST	150 Psi	HOLDING TIME:	15 MINUTES
Pump NO.::	EQ NO:13119220	CAL DUE DATE:	27-AUG.2024
Pressure Gauge NO.:	468066	CAL DUE DATE:	01-AUG.2024



ONLINE TRACEABILITY

PRESSURE TEST WITNESS RESULT

INLET PRESSURE TEST 1:	The Above Item was Pressure Tested Up to 150 PSI Maximum Working pressure, Hold For 15 Minutes no Leak was Found while testing & Pressure Was Stable According To Chart Recorder
OUTLET PRESSURE TEST 2:	The Above Item was Pressure Tested Up to 150 PSI Maximum Working pressure, Hold For 15 Minutes no Leak was Found while testing & Pressure Was Stable According To Chart Recorder

PERSON DETAILS		REVIEW BY		
INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:
QUALIFICATION:	ASNT CVT III M T SNT-TC-1	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN
SIGNATURE & STAMP:				DATE:

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MAJOR INSPECTION CERIFICATE

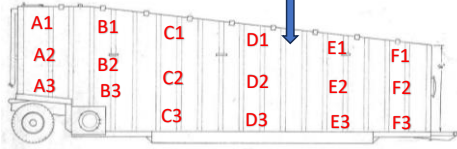
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-07-TSS-NDT-MAJ-002
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	300424
WORK ORDER #		SPECIFICATION:	ASTM E709 & ASTM E 797
INSPECTION DATE:	Tuesday, April 30, 2024	NEXT INSPECTION DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

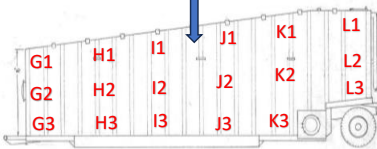
DESCRIPTION:	FRAC TANK 500 BBL	SAP NO.:	11218107
MANUFACTURER:	Alshirawi Equipment Company		

INSPECTION DETAILS

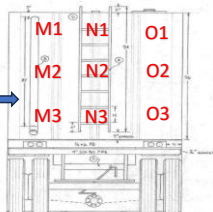
RIGHT SIDE FRAC TANK



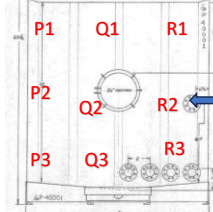
LEFT SIDE FRAC TANK



BACK SIDE FRAC TANK



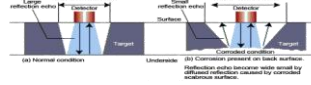
FRONT SIDE FRAC TANK





ONLINE TRACEABILITY

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



ANGLE	THICKNESS AT POSITION						MINIMUM THICKNESS	FINAL REMARKS
	A	B	C	D	E	F		
RIGHT SIDE TOP 1	7.74	7.77	7.74	7.65	7.65	7.83	4.67 MM	SATISFACTORY
RIGHT SIDE MIDDEL 2	7.65	7.57	7.62	7.68	7.72	7.57		
RIGHT SIDE BOTTOM 3	7.87	7.91	7.65	7.68	7.60	7.69		
	G	H	I	J	K	L		
LEFT SIDE TOP 1	7.68	7.60	7.65	7.71	7.39	7.31		
LEFT SIDE MIDDEL 2	7.77	7.79	7.79	7.82	7.74	7.78		
LEFT SIDE BOTTOM 3	7.63	7.65	7.28	7.40	7.28	7.32		
	M		N		O			
BACK SIDE TOP 1	9.09			8.87		8.91		
BACK SIDE MIDDEL 2	9.32			9.41		9.28		
BACK SIDE BOTTOM 3	9.41			9.20		8.79		
	P		Q		R			
FRONT SIDE TOP 1	9.05			8.92		8.96		
FRONT SIDE MIDDEL 2	9.14			9.20		9.33		
FRONT SIDE BOTTOM 3	9.26			9.02		8.84		

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	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:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	UT-VTL	INSPECTION SUPERVISOR:	HANI ALI	DESIGN:	
SIGNATURE & STAMP:				DATE:	

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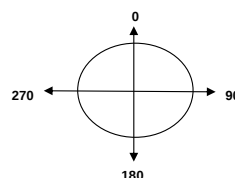
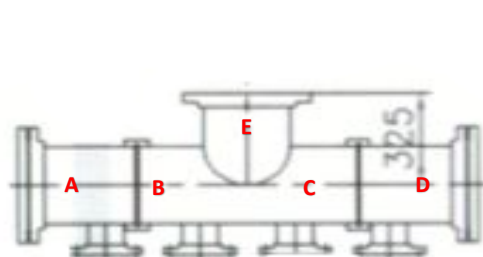


MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

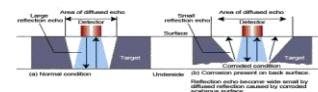
CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-07-TSS-NDT-MAJ-003
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	300424
WORK ORDER #		SPECIFICATION:	ASTM E709 & ASTM E 797
INSPECTION DATE:	Tuesday, April 30, 2024	NEXT INSPECTION DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	FRAC TANK MANIFOLD	FRAC TANK SAP NO.:	11218107
INSPECTION DETAILS			



ONLINE TRACEABILITY

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



ANGLE	THICKNESS AT POSITION					MINIMUM THICKNESS	FINAL REMARKS
	A	B	C	D	E		
0°	9.31	9.43	9.36	9.29	9.09	4.67 MM	SATISFACTORY
90°	9.14	9.06	9.11	9.17	9.21		
180°	9.19	9.21	9.31	9.34	9.26		
270°	9.18	9.20	8.94	9.07	9.03		

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:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	UT-VT	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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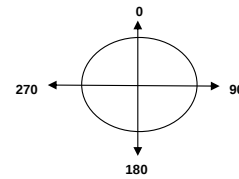
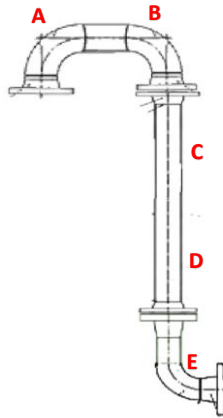
MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-07-TSS-NDT-MAJ-004
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	300424
WORK ORDER #		SPECIFICATION:	ASTM E709 & ASTM E 797
INSPECTION DATE:	Tuesday, April 30, 2024	NEXT INSPECTION DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

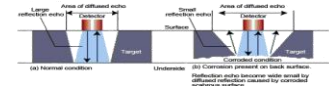
DESCRIPTION:	FRAC TANK RELIEF LINE	FRAC TANK SAP NO.:	11218107
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INSPECTION DETAILS



ONLINE TRACEABILITY

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



ANGLE	THICKNESS AT POSITION				MINIMUM THICKNESS	FINAL REMARKS
	0°	90°	180°	270°		
A	6.28	6.37	6.30	6.21	4.67 MM	SATISFACTORY
B	6.32	6.24	6.29	6.35		
C	6.41	6.43	6.25	6.28		
D	6.34	6.26	6.31	6.37		
E	6.38	6.40	6.31	6.34		

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

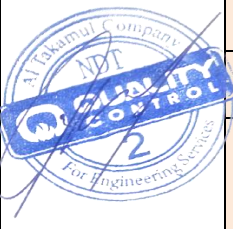
INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN.2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic 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:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	201504048	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

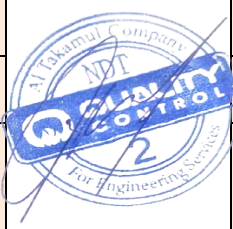
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MAJOR INSPECTION CERIFICATE											
Client:	HALLIBURTON (TSS)				Report No:	QC-24-04-07-TSS-NDT-MAJ-005					
Location:	TSS WORKSHOP & INSPECTION TEST AREA				WORK ORDER						
Inspection Date:	Tuesday, April 30, 2024				Next Inspection Date:	ANNUAL 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:	184-08					
					FRAC TANK SAP NO:	11218107					
					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 & Available 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						PERSON DETAILS		REVIEW BY			
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3210 μw/cm ²	INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN		
S.NO:	201504048	S.NO:	22650	S.NO:	1898977	QUALIFICATION:	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI		
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	
White Contrast Paint Manufacture:		Magnaflux	Batch No:	220602	EXPIRE DATE:					JUN,2025	
TECHNICAL DETAILS											
Digital Lux Meter WHITE LIGHT INTENSITY:					Black Magnetic Ink Manufacture:7HF		STAMP & SIGNATURE:		CLIENT:		
3620 Lux/S.NO:2722003		Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml		Batch No:220605					
Cal Due Date:16.OCT.2024		Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE: Jul-25					

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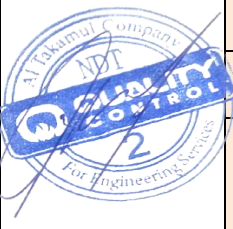
MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-24-04-07-TSS-NDT-MAJ-007						
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER							
Inspection Date:	Tuesday, April 30, 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:	184-10						
		FRAC TANK SAP NO:	11218107						
		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 & Available 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						PERSON DETAILS		REVIEW BY	
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3210 µw/cm ²	INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.NO:	201504048	S.NO:	22650	S.NO:	1898977	QUALIFICATION:	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
Cal Due Date:	14.OCT.2024	Cal Due Date:	15.OCT.2024	Cal Due Date:	14.OCT.2024			CLIENT:	
FLUORESCENT 14HF	Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025				
White Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	EXPIRE DATE:	JUN,2025				
Digital Lux Meter WHITE LIGHT INTENSITY:	TECHNICAL DETAILS				Black Magnetic Ink Manufacture:7HF				
3620 Lux/S.NO:2722003	Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml		Batch No:220605				
Cal Due Date:16.OCT.2024	Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE:	Jul-25			

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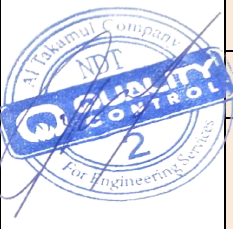
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Client:	HALLIBURTON (TSS)				Report No:	QC-24-04-07-TSS-NDT-MAJ-008					
Location:	TSS WORKSHOP & INSPECTION TEST AREA				WORK ORDER						
Inspection Date:	Tuesday, April 30, 2024				Next Inspection Date:	ANNUAL INSPECTION					
Type Of Inspection:	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:	184-11					
					FRAC TANK SAP NO:	11218107					
					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 & Available 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						PERSON DETAILS		REVIEW BY			
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3210 µw/cm ²	INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN		
S.NO:	201504048	S.NO:	22650	S.NO:	1898977	QUALIFICATION:	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI		
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	
White Contrast Paint Manufacture:		Magnaflux	Batch No:	220602	EXPIRE DATE:					JUN,2025	
TECHNICAL DETAILS											
Digital Lux Meter WHITE LIGHT INTENSITY:					Black Magnetic Ink Manufacture:7HF		STAMP & SIGNATURE:		CLIENT:		
3620 Lux/S.NO:2722003		Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml		Batch No:220605					
Cal Due Date:16.OCT.2024		Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE: Jul-25					

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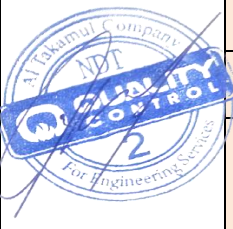
MAJOR INSPECTION CERIFICATE											
Client:	HALLIBURTON (TSS)				Report No:	QC-24-04-07-TSS-NDT-MAJ-009					
Location:	TSS WORKSHOP & INSPECTION TEST AREA				WORK ORDER						
Inspection Date:	Tuesday, April 30, 2024				Next Inspection Date:	ANNUAL INSPECTION					
Type Of Inspection:	VISUAL, THOROUGH 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:	184-12					
					FRAC TANK SAP NO:	11218107					
					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 & Available 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						PERSON DETAILS		REVIEW BY			
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3210 µw/cm ²	INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN		
S.NO:	201504048	S.NO:	22650	S.NO:	1898977	QUALIFICATION:	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI		
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	
White Contrast Paint Manufacture:		Magnaflux	Batch No:	220602	EXPIRE DATE:					JUN,2025	
TECHNICAL DETAILS											
Digital Lux Meter WHITE LIGHT INTENSITY:					Black Magnetic Ink Manufacture:7HF		STAMP & SIGNATURE:		CLIENT:		
3620 Lux/S.NO:2722003		Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml		Batch No:220605					
Cal Due Date:16.OCT.2024		Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE: Jul-25					

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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-24-04-07-TSS-NDT-MAJ-010								
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER									
Inspection Date:	Tuesday, April 30, 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:	184-13								
		FRAC TANK SAP NO:	11218107								
		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 & Available 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						PERSON DETAILS		REVIEW BY			
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3210 µw/cm ²	INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN		
S.NO:	201504048	S.NO:	22650	S.NO:	1898977	QUALIFICATION:	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI		
Cal Due Date:	14.OCT.2024	Cal Due Date:	15.OCT.2024	Cal Due Date:	14.OCT.2024			CLIENT:			
FLUORESCENT 14HF	Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025						
White Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	EXPIRE DATE:	JUN,2025						
Digital Lux Meter WHITE LIGHT INTENSITY:	TECHNICAL DETAILS				Black Magnetic Ink Manufacture:7HF						
3620 Lux/S.NO:2722003	Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml		Batch No:220605						
Cal Due Date:16.OCT.2024	Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE:	Jul-25					

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MAJOR INSPECTION CERIFICATE										
Client:	HALLIBURTON (TSS)				Report No:	QC-24-04-07-TSS-NDT-MAJ-011				
Location:	TSS WORKSHOP & INSPECTION TEST AREA				WORK ORDER					
Inspection Date:	Tuesday, April 30, 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:	184-14				
					FRAC TANK SAP NO:	11218107				
					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 & Available 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						PERSON DETAILS		REVIEW BY		
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3210 µw/cm ²	INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	
S.NO:	201504048	S.NO:	22650	S.NO:	1898977	QUALIFICATION:	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI	
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
White Contrast Paint Manufacture:		Magnaflux	Batch No:	220602	EXPIRE DATE:					JUN,2025
TECHNICAL DETAILS										
Digital Lux Meter WHITE LIGHT INTENSITY:				Black Magnetic Ink Manufacture:7HF		STAMP & SIGNATURE:		CLIENT:		
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				

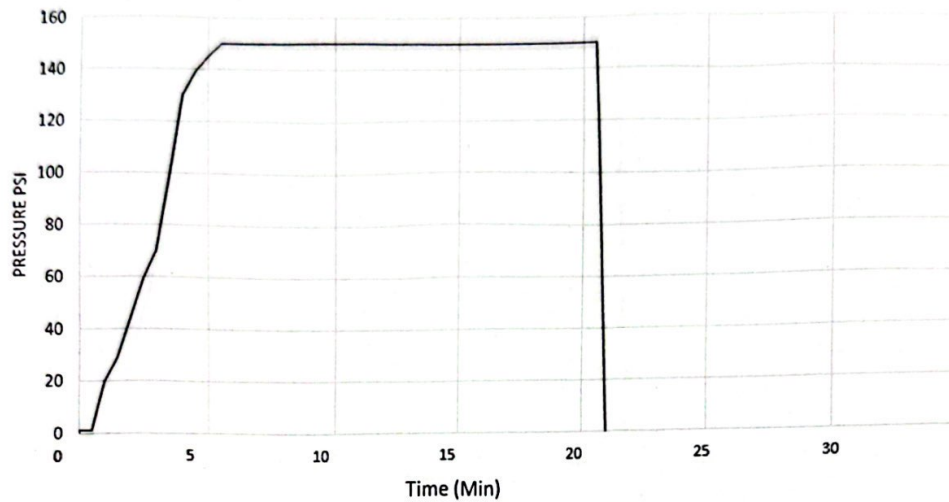
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Data Collection Report

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	8:51 AM
Test Date	01 May 24
EQ NUMBER	11218107
CAL DATE	2.Aug.2023

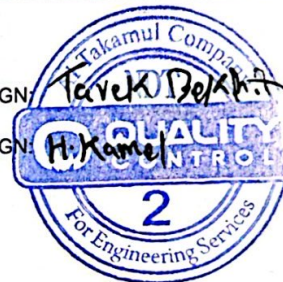
READING



TESTED BY: Tarek Bekhit
APPROVED BY: Hassan Kamel
COMMENTS: Inlet Test

SIGN:

SIGN:

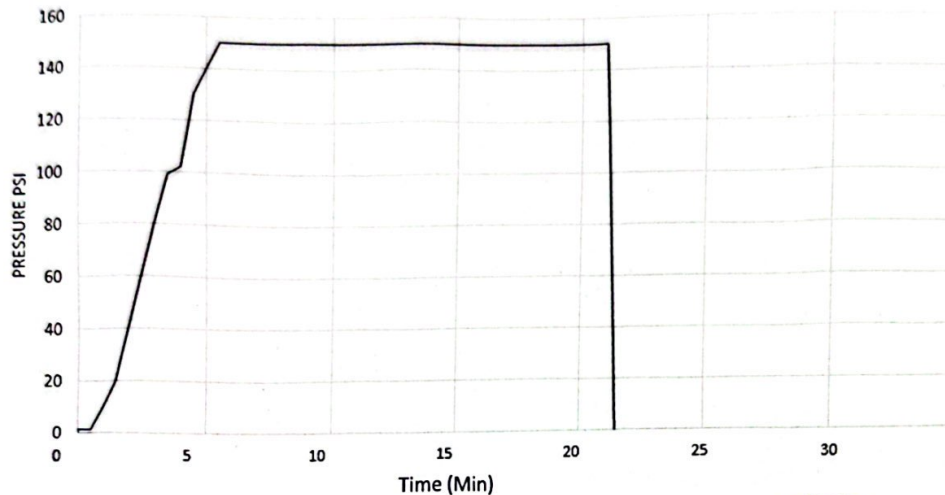


Data Collection Report

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

Run Info	
Start Time	8:58 AM
Stop Time	9:20 AM
Test Date	01 May 24
EQ NUMBER	11218107
CAL DATE	2.Aug.2023

READING



TESTED BY: Tarek Bekhit

APPROVED BY: Hassan Kamel

COMMENTS: Outlet Test

SIGN:

SIGN:

