

AI 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 REQUIREMENTS

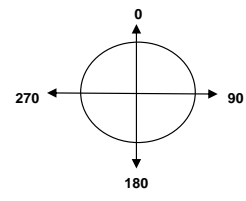
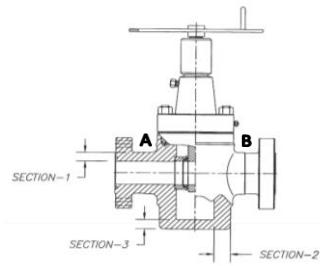
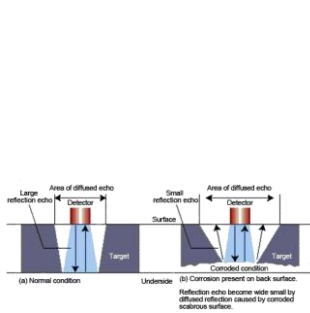
CLIENT:	HALLIBURTON	REPORT No.:	QC-7-04-TSS-NDT-MAJ-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ASTM E709 & ASTM E797 & ASME B31.1
WORK ORDER #	326664620		
DATE OF INSP:	Sunday, April 7, 2024	INSP. DUE DATE:	Sunday, April 6, 2025

TYPE OF INSPECTION: VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING

DESCRIPTION:	GATE VALVE: 3 1/8" 5K	CHOKE MANIFOLD #	12021745
MANUFACTURER:	PETROFACE	SERIAL NO:	030168

INSPECTION DETAILS

Max. Working Pressure:	5000 PSI	Holding Time:	18 Minutes
Low pressure:	300 PSI	Holding Time:	05 Minutes
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



A:12'O CLOCK / FORWARD
 B:3'O CLOCK / CENTER
 C:6'O CLOCK / AFT
 * ALL READINGS IN INCH
 **MINIMUM THICKNESS PROVIDED BY CUSTMER

POINTS	THICKNESS AT POSITION				MINIMUM THICKNESS		
	SECTION-1 A	SECTION-1 B	SECTION-2	SECTION-3	SECTION-1	SECTION-2	SECTION-3
0°	1.063	1.045	1.345	1.447	0.310"	0.940"	1.060"
90°	1.045	1.025	1.356	1.445	0.310"	0.940"	1.060"
180°	1.051	1.028	1.369	1.456	0.310"	0.940"	1.060"
270°	1.079	1.174	1.375	1.469	0.310"	0.940"	1.060"

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	According to ASTM E797
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 ASTM E797

Pressure Test-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 Minutes And Maximum Working pressure 5000 psi Hold 18 Minutes 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	MANUFACTURE	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	MANUFACTURE	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:	3540 lux						

PERSON DETAILS

INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	M.SHAZAD	CLIENT:	
QUALIFICATION:	ASNT CP-1, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HR&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



CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION & WITNESS PRESSURE TEST

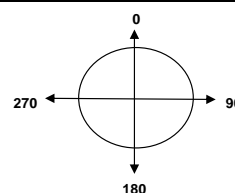
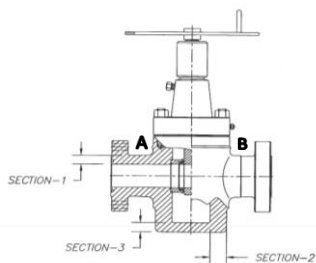
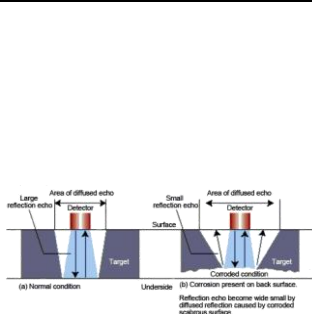
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-7-04-TSS-NDT-MAJ-002
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ASTM E709 & ASTM E797 & ASME B31.1
WORK ORDER #	326664620		
DATE OF INSP:	Sunday, April 7, 2024	INSP. DUE DATE:	Sunday, April 6, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	GATE VALVE: 3 1/8" 5K	CHOKE MANIFOLD #	12021745
MANUFACTURER:	PETROFACE	SERIAL NO:	029789

INSPECTION DETAILS

Max. Working Pressure:	5000 PSI	Holding Time:	18 Minutes
Low pressure:	300 PSI	Holding Time:	05 Minutes
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



A:12'O CLOCK / FORWARD
 B:3'O CLOCK / CENTER
 C:6'O CLOCK / AFT

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

POINTS	THICKNESS AT POSITION				MINIMUM THICKNESS		
	SECTION-1 A	SECTION-1 B	SECTION-2	SECTION-3	SECTION-1	SECTION-2	SECTION-3
0°	1.067	1.059	1.369	1.489	0.310"	0.940"	1.060"
90°	1.045	1.025	1.374	1.448	0.310"	0.940"	1.060"
180°	1.051	1.028	1.375	1.452	0.310"	0.940"	1.060"
270°	1.079	1.035	1.365	1.456	0.310"	0.940"	1.060"

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	According to ASTM E797
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 ASTM E797

Pressure Test-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 Minutes And Maximum Working pressure 5000 psi Hold 18 Minutes 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	MANUFACTURER	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	MANUFACTURER	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:	3540 lux						

PERSON DETAILS

INSPECTOR NAME:	Umaran Shabbir	SENIOR INSPECTOR:	M.SHAZAD	CLIENT:	
QUALIFICATION:	ASNT CP, UT, VT, MPI	INSPECTION SUPERVISOR:	HANI ALI	HS&SIGN	
SIGNATURE & STAMP:				DATE:	

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

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CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-7-04-TSS-NDT-MAJ-003
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ASTM E709 & ASTM E797 & ASME B31.1
WORK ORDER #	326664620		
DATE OF INSP:	Sunday, April 7, 2024	INSP. DUE DATE:	Sunday, April 6, 2025

TYPE OF INSPECTION: VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING

DESCRIPTION:	GATE VALVE: 3 1/8" 5K	CHOKE MANIFOLD #	12021745
MANUFACTURER:	PETROFACE	SERIAL NO:	030173

INSPECTION DETAILS

Max. Working Pressure:	5000 PSI	Holding Time:	18 Minutes
Low pressure:	300 PSI	Holding Time:	05 Minutes
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024

(a) Normal condition
Underside
(b) Corrosion present on back surface.
Reflection echo become wide small by diffused reflection caused by corroded extensive 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°	1.069	1.056	1.356	1.479	0.310"	0.940"	1.060"
90°	1.045	1.025	1.365	1.448	0.310"	0.940"	1.060"
180°	1.051	1.025	1.345	1.452	0.310"	0.940"	1.060"
270°	1.079	1.038	1.349	1.456	0.310"	0.940"	1.060"

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	According to ASTM E797
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 ASTM E797

Pressure Test-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 Minutes And Maximum Working pressure 5000 psi Hold 18 Minutes 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	MANUFACTURE	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	MANUFACTURE	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:	3540 lux						

PERSON DETAILS

INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	M.SHAZAD	CLIENT:	
QUALIFICATION:	ASNT CP-1, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HR&SIGN	
SIGNATURE & STAMP:				DATE:	

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CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-7-04-TSS-NDT-004
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ASTM E709 & ASTM E797 & ASME B31.1
WORK ORDER #	326664620		
DATE OF INSP:	Sunday, April 7, 2024	INSP. DUE DATE:	Sunday, April 6, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	GATE VALVE: 3 1/8" 5K	CHOKE MANIFOLD #	12021745
MANUFACTURER:	PETROFACE	SERIAL NO:	029789
INSPECTION DETAILS			
Max. Working Pressure:	5000 PSI	Holding Time:	18 Minutes
Low pressure:	300 PSI	Holding Time:	05 Minutes
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

A: 12'O CLOCK / FORWARD
B: 3'O CLOCK / CENTER
C: 6'O CLOCK / AFT

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

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°	1.075	1.065	1.356	1.478	0.310"	0.940"	1.060"
90°	1.049	1.029	1.369	1.445	0.310"	0.940"	1.060"
180°	1.051	1.045	1.374	1.452	0.310"	0.940"	1.060"
270°	1.079	1.089	1.365	1.456	0.310"	0.940"	1.060"

INSPECTION RESULT		
VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	According to ASTM E797
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 ASTM E797

Pressure Test-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 Minutes And Maximum Working pressure 5000 psi Hold 18 Minutes 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	MANUFACTURER	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	MANUFACTURER	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:	3540 lux						

PERSON DETAILS				
INSPECTOR NAME:	Usman Shazad	SENIOR INSPECTOR:	M.SHAZAD	CLIENT:
QUALIFICATION:	ASNT, PT, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HS&SIGN
SIGNATURE & STAMP:				DATE:

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CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON		REPORT No.:	QC-7-04-TSS-NDT-005			
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA		SPECIFICATION:	ASTM E709 & ASME B31.1			
WORK ORDER #	326664620						
DATE OF INSP:	Sunday, April 7, 2024		INSP. DUE DATE:	Sunday, April 6, 2025			
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION						
DESCRIPTION:	BLOCK 3 1/8" 5K	CHOKE MANIFOLD #	12021745				
MANUFACTURER:	PETROFAC	SERIAL NO:	1216-9				
INSPECTION DETAILS							
Max. Working Pressure:	5,000 PSI	Holding Time:	18 Min				
Low pressure:	300 PSI	Holding Time:	05 Min				
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024				
				 ONLINE TRACEABILITY			
ACTUAL MEASUREMENT			MAXIMUM ID BORE				
A	B	C	3.150 INCH				
3.088	3.093	3.102					
INSPECTION RESULT							
VT & MPI	Accepted	* ACCORDING TO ASTM E709					
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							
Pressure Test-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 Minutes And Maximum Working pressure 5.000 psi Hold 18 Minutes 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	MANUFACTURE	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	MANUFACTURE	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:	3540 lux						
PERSON DETAILS							
INSPECTOR NAME:		SENIOR INSPECTOR:	M.SHAZAD	CLIENT:			
QUALIFICATION:	ASN ASNT MT,PT,UT,VT,	INSPECTION SUPERVISOR:	HANI ALI	HR&SIGN			
SIGNATURE & STAMP:				DATE:			

CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON		REPORT No.:	QC-7-04-TSS-NDT-006			
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA		SPECIFICATION:	ASTM E709 & ASME B31.1			
WORK ORDER #	326664620						
DATE OF INSP:	Sunday, April 7, 2024		INSP. DUE DATE:	Sunday, April 6, 2025			
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION						
DESCRIPTION:	BLOCK 3 1/8" 5K	CHOKE MANIFOLD #	12021745				
MANUFACTURER:	PETROFAC	SERIAL NO:	1216-10				
INSPECTION DETAILS							
Max. Working Pressure:	5,000 PSI	Holding Time:	18 Min				
Low pressure:	300 PSI	Holding Time:	05 Min				
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024				
				 ONLINE TRACEABILITY			
ACTUAL MEASUREMENT			MAXIMUM ID BORE				
A	B	C	3.150 INCH				
3.097	3.083	3.092					
INSPECTION RESULT							
VT & MPI	Accepted	* ACCORDING TO ASTM E709					
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 E609							
Pressure Test-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 Minutes And Maximum Working pressure 5.000 psi Hold 18 Minutes 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	MANUFACTURE	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	MANUFACTURE	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:	3540 lux						
PERSON DETAILS							
INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	M.SHAZAD	CLIENT:			
QUALIFICATION:	NT 11 02 15 07 001,VT.	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN			
SIGNATURE & STAMP:				DATE:			

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CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON		REPORT No.:	QC-7-04-TSS-NDT-007			
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA		SPECIFICATION:	ASTM E709 & ASME B31.1			
WORK ORDER #	326664620						
DATE OF INSP:	Sunday, April 7, 2024		INSP. DUE DATE:	Sunday, April 6, 2025			
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION						
DESCRIPTION:	BLOCK 3 1/8" 5K	CHOKE MANIFOLD #	12021745				
MANUFACTURER:	PETROFAC	SERIAL NO:	1216-11				
INSPECTION DETAILS							
Max. Working Pressure:	5,000 PSI	Holding Time:	18 Min				
Low pressure:	300 PSI	Holding Time:	05 Min				
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024				
ACTUAL MEASUREMENT				MAXIMUM ID BORE			
A	B	C	3.150 INCH				
3.092	3.084	3.104					
INSPECTION RESULT							
VT & MPI	Accepted	* ACCORDING TO ASTM E709					
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							
Pressure Test-The Above Item was Pressure Tested up to 300 PSI a low Pressure Hold for 5 Minutes And Maximum Working pressure 5.000 psi Hold 18 Minutes 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	MANUFACTURE	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	MANUFACTURE	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:	3540 lux						
PERSON DETAILS							
INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	M.SHAZAD	CLIENT:			
QUALIFICATION:	Nondestructive Testing, UT, VT	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN			
SIGNATURE & STAMP:				DATE:			

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CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON		REPORT No.:	QC-7-04-TSS-NDT-008			
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA		SPECIFICATION:	ASTM E709 & ASME B31.1			
WORK ORDER #	326664620						
DATE OF INSP:	Sunday, April 7, 2024		INSP. DUE DATE:	Sunday, April 6, 2025			
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION						
DESCRIPTION:	BLOCK 3 1/8" 5K	CHOKE MANIFOLD #	12021745				
MANUFACTURER:	PETROFAC	SERIAL NO:	1216-12				
INSPECTION DETAILS							
Max. Working Pressure:	5,000 PSI	Holding Time:	18 Min				
Low pressure:	300 PSI	Holding Time:	05 Min				
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024				
ACTUAL MEASUREMENT				MAXIMUM ID BORE			
A	B	C	3.150 INCH				
3.101	3.083	3.092					
INSPECTION RESULT							
VT & MPI	Accepted	* ACCORDING TO ASTM E709					
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							
Pressure Test-The Above Item was Pressure Tested up to 300 PSI a low Pressure Hold for 5 Minutes And Maximum Working pressure 5.000 psi Hold 18 Minutes 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	MANUFACTURE	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	MANUFACTURE	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:	3540 lux						
PERSON DETAILS							
INSPECTOR NAME:		SENIOR INSPECTOR:	M.SHAZAD	CLIENT:			
QUALIFICATION:	S.N.T. / M.T. / P.T. / U.T. / V.T.	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN			
SIGNATURE & STAMP:				DATE:			



AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq



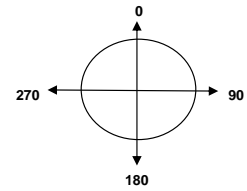
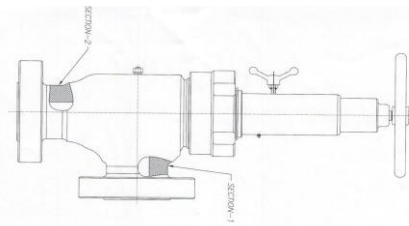
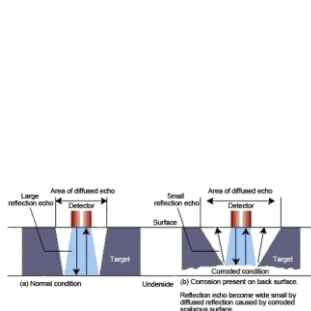
CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-7-04-TSS-NDT-MAJ-009
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ASTM E709 & ASTM E797 & ASME B31.1
WORK ORDER #	326664620		
DATE OF INSP:	Sunday, April 7, 2024	INSP. DUE DATE:	Sunday, April 6, 2025

TYPE OF INSPECTION: VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING

DESCRIPTION:	ADJUSTABLE CHOKE 3 1/8" 5K	CHOKE MANIFOLD #	12021745
MANUFACTURER:	PETROFACE	SERIAL NO:	028545
INSPECTION DETAILS			
Max. Working Pressure:	5000 PSI	Holding Time:	18 Minutes
Low pressure:	300 PSI	Holding Time:	05 Minutes
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



ONLINE TRACEABILITY

A:12'O CLOCK / FORWARD
B:3'O CLOCK / CENTER
C:6'O CLOCK / AFT

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

POINTS	THICKNESS AT POSITION		MINIMUM THICKNESS	
	SECTION 1	SECTION 2	SECTION 1	SECTION 2
0°	1.145	1.107	0.307"	0.283
90°	1.147	1.109		
180°	1.156	1.108		
270°	1.158	1.115		

INSPECTION RESULT		
VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	According to ASTM E797
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 ASTM E797

Pressure Test-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 Minutes And Maximum Working pressure 5000 psi Hold 18 Minutes 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	MANUFACTURER	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	MANUFACTURER	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:	3540 lux						

PERSON DETAILS					
INSPECTOR NAME:	M. SHAZAD	SENIOR INSPECTOR:	M. SHAZAD	CLIENT:	
QUALIFICATION:	LEVEL II MT, PT, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-7-04-TSS-NDT-MAJ-010
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ASTM E709 & ASTM E797 & ASME B31.1
WORK ORDER #	326664620		
DATE OF INSP:	Sunday, April 7, 2024	INSP. DUE DATE:	Sunday, April 6, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	POSITIVE CHOKE 3 1/8" 5K/H2S	CHOKE MANIFOLD #	12021745
MANUFACTURER:	PETROFACE	SERIAL NO:	028559

INSPECTION DETAILS

Max. Working Pressure:	5000 PSI	Holding Time:	18 Minutes
Low pressure:	300 PSI	Holding Time:	05 Minutes
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024

(a) Normal condition
Large reflection echo / Area of diffused echo / Detector / Surface / Target

(b) Corrosion present on back surface.
Under side / Reflection echo because echo small by diffused reflection caused by corroded scabrous surface. / Area of diffused echo / Detector / Surface / Target

A: 12'O CLOCK / FORWARD
B: 3'O CLOCK / CENTER
C: 6'O CLOCK / AFT

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

ONLINE TRACEABILITY

POINTS	THICKNESS AT POSITION		MINIMUM THICKNESS	
	SECTION 1	SECTION 2	SECTION 1	SECTION 2
0°	1.165	1.125	0.307"	0.283"
90°	1.169	1.107		
180°	1.185	1.111		
270°	1.189	1.132		

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	According to ASTM E797
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

UT-The Above Item Was Found Acceptable As Per ASTM E797

Pressure Test-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 Minutes And Maximum Working pressure 5000 psi Hold 18 Minutes 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	MANUFACTURER	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	MANUFACTURER	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:	3540 lux						

PERSON DETAILS

INSPECTOR NAME:	Usmu Shabbir	SENIOR INSPECTOR:	M.SHAZAD	CLIENT:	
QUALIFICATION:	NDT1, MPI, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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Basra, North Rumaila, Quality Control Yard - Iraq

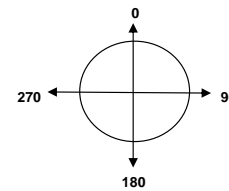
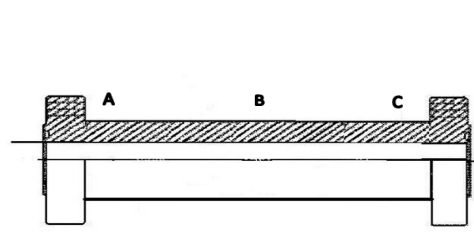
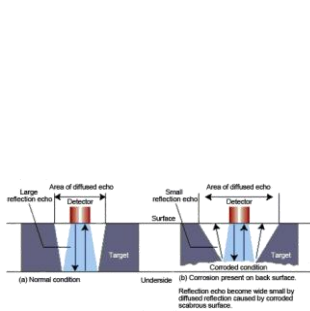


CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-7-04-TSS-NDT-MAJ-011
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ASTM E709 & ASTM E797 & ASME B31.1
WORK ORDER #	326664620		
DATE OF INSP:	Sunday, April 7, 2024	INSP. DUE DATE:	Sunday, April 6, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	SPOOL 3 1/8" 5K	CHOKE MANIFOLD #	12021745
MANUFACTURER:	PETROFACE	SERIAL NO:	1216-1
INSPECTION DETAILS			
Max. Working Pressure:	5000 PSI	Holding Time:	18 Minutes
Low pressure:	300 PSI	Holding Time:	05 Minutes
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024



A:12'O CLOCK / FORWARD
 B:3'O CLOCK / CENTER
 C:6'O CLOCK / AFT
 * ALL READINGS IN INCH
 **MINIMUM THICKNESS PROVIDED BY CUSTOMER

POINTS	THICKNESS AT POSITION			MINIMUM THICKNESS
	A	B	C	
0°	1.359	1.368	1.366	1.190
90°	1.365	1.385	1.356	
180°	1.352	1.318	1.345	
270°	1.329	1.312	1.356	

INSPECTION RESULT		
VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	According to ASTM E797
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 ASTM E797

Pressure Test-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 Minutes And Maximum Working pressure 5000 psi Hold 18 Minutes 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	MANUFACTURE	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	MANUFACTURE	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:	3540 lux						

PERSON DETAILS					
INSPECTOR NAME:	Umm Al-Jabir	SENIOR INSPECTOR:	M.SHAZAD	CLIENT:	
QUALIFICATION:	LEVEL II MT,PT,UT,VT,	INSPECTION SUPERVISOR:	HANI ALI	HR&SIGN	
SIGNATURE & STAMP:				DATE:	



AI 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 REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-7-04-TSS-NDT-MAJ-012
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ASTM E709 & ASTM E797 & ASME B31.1
WORK ORDER #	326664620		
DATE OF INSP:	Sunday, April 7, 2024	INSP. DUE DATE:	Sunday, April 6, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	SPOOL 3 1/8" 5K	CHOKE MANIFOLD #	12021745
MANUFACTURER:	PETROFACE	SERIAL NO:	1216-2
INSPECTION DETAILS			
Max. Working Pressure:	5000 PSI	Holding Time:	18 Minutes
Low pressure:	300 PSI	Holding Time:	05 Minutes
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 and small by diffused reflection caused by corroded surface.

A: 12° O CLOCK / FORWARD
B: 3° O CLOCK / CENTER
C: 6° O CLOCK / AFT

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

ONLINE TRACEABILITY

POINTS	THICKNESS AT POSITION			MINIMUM THICKNESS
	A	B	C	
0°	1.369	1.356	1.345	1.190
90°	1.365	1.385	1.349	
180°	1.352	1.347	1.358	
270°	1.329	1.315	1.347	

INSPECTION RESULT		
VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	According to ASTM E797
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 ASTM E797

Pressure Test-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 Minutes And Maximum Working pressure 5000 psi Hold 18 Minutes 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	MANUFACTURE	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	MANUFACTURE	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:	3540 lux						

PERSON DETAILS				
INSPECTOR NAME:		SENIOR INSPECTOR:	M.SHAZAD	CLIENT:
QUALIFICATION:	LEVEL II MPI, PT, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN
SIGNATURE & STAMP:				DATE:




CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)			Report No:	QC-7-04-TSS-NDT-MAJ-013				
Location:	TSS WORKSHOP & INSPECTION TEST AREA			WORK ORDER	326664620				
Date:	Sunday, April 7, 2024			Next Inspection Date:	Sunday, April 6, 2025				
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" 1/8" 5K X 3"1502 Wing				
				UNIT S/N:	1216-4				
				Choke Manifold SAP NO:	12021745				
				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:		SENIOR INSPECTOR:	M.SHAZAD
S.NO:	201504052	S.NO:	22650	S.NO:	1898977	QUALIFICATION:		SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024	ASNT LEVEL II MT & PT & VT		CLIENT:	
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		STAMP & SIGNATURE:		
3540 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	

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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION													
Client:		HALLIBURTON (TSS)			Report No:		QC-7-04-TSS-NDT-MAJ-014						
Location:		TSS WORKSHOP & INSPECTION TEST AREA			WORK ORDER		326664620						
Date:		Sunday, April 7, 2024			Next Inspection Date:		Sunday, April 6, 2025						
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" 1/8" 5K X 3"1502 Thread							
				UNIT S/N:		1216-3							
				Choke Manifold SAP NO:		12021745							
				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: Usman Shabbir		SENIOR INSPECTOR:	M.SHAZAD				
S.NO:	201504052	S.NO:	22650	S.NO:	1898977			SUPERVISOR:	HANI ALI				
Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024			QUALIFICATION: ASNT LEVEL II MT & PT & VT	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								
3540 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						

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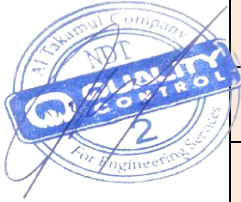
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**AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED**
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-7-04-TSS-NDT-MAJ-015	
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326664620	
Date:	Sunday, April 7, 2024	Next Inspection Date:	Sunday, April 6, 2025	
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:	BLIND FLANGE 3 1/8" 5K		
	UNIT S/N:	PETROFAC 1550-6		
	CHOKER MANIFOLD S/N:	12021745		
	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	Groove areas inspected and found free from cracks and other defects		
	FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED		
COMMENT:				
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: Usman shabbir		SENIOR INSPECTOR:	M.SHAZAD
S.NO:	201504052	S.NO:	22650	S.NO:	1898977			SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024			CLIENT:	
FLUORESCENT 14HF		Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025	STAMP & SIGNATURE:		
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			
3540 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		

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**AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED**
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-7-04-TSS-NDT-MAJ-016	
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326664620	
Date:	Sunday, April 7, 2024	Next Inspection Date:	Sunday, April 6, 2025	
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:	BLIND FLANGE 3 1/8" 5K		
	UNIT S/N:	PETROFAC 1216-5		
	CHOKER MANIFOLD S/N:	12021745		
	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	Groove areas inspected and found free from cracks and other defects		
	FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED		
COMMENT:				
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: Usman shabbir		SENIOR INSPECTOR:	M.SHAZAD
S.NO:	201504052	S.NO:	22650	S.NO:	1898977			SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.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			
3540 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	

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**AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED**
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-7-04-TSS-NDT-MAJ-017	
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326664620	
Date:	Sunday, April 7, 2024	Next Inspection Date:	Sunday, April 6, 2025	
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:	BLIND FLANGE 3 1/8" 5K		
	UNIT S/N:	PETROFAC 1216-6		
	CHOKER MANIFOLD S/N:	12021745		
	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	Groove areas inspected and found free from cracks and other defects		
	FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED		
COMMENT:				
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: Usman shabbir		SENIOR INSPECTOR:	M.SHAZAD	
S.NO:	201504052	S.NO:	22650	S.NO:	1898977			SUPERVISOR:	HANI ALI	
Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024			CLIENT:		
FLUORESCENT 14HF		Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025	STAMP & SIGNATURE:			
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				
3540 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			

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**AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED**
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-7-04-TSS-NDT-MAJ-018	
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326664620	
Date:	Sunday, April 7, 2024	Next Inspection Date:	Sunday, April 6, 2025	
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:	BLIND FLANGE 3 1/8" 5K		
	UNIT S/N:	PETROFAC 1216-8		
	CHOKER MANIFOLD S/N:	12021745		
	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	Groove areas inspected and found free from cracks and other defects		
	FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED		
COMMENT:				
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: Usman shabbir		SENIOR INSPECTOR:	M.SHAZAD
S.NO:	201504052	S.NO:	22650	S.NO:	1898977			SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024			CLIENT:	
FLUORESCENT 14HF		Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025	STAMP & SIGNATURE:		
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			
3540 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			

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CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION & WITNESS PRESSURE TEST

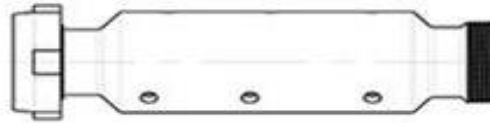
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-TSS-NDT-MAJ-019
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ASTM E709 & ASME B31.1
WORK ORDER #	326664620		
DATE OF INSP:	Sunday, April 7, 2024	INSP. DUE DATE:	Sunday, April 6, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION		

DESCRIPTION:	DATE HEADER 10K 3" 1502 WING X THREAD	CHOKE MANIFOLD #	12021745
		EQ NO:	12010594

INSPECTION DETAILS

Max. Working Pressure:	10,000 PSI	Holding Time:	18 Min
Low pressure:	300 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	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 up to 300 PSI A low Pressure Hold for 5 Minutes And Maximum Working pressure 10.000 psi Hold 18 Minutes 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	MANUFACTURE	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	MANUFACTURE	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:	3540 lux						

PERSON DETAILS

INSPECTOR NAME:	M. Shaizad Ah	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	S.T.I, PT, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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

Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-TSS-NDT-MAJ-020
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ASTM E709 & ASME B31.1
WORK ORDER #	326664620		
DATE OF INSP:	Sunday, April 7, 2024	INSP. DUE DATE:	Sunday, April 6, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION		

DESCRIPTION:	DATE HEADER 10K 3" 1502 WING X THREAD	CHOKE MANIFOLD #	12021745
		EQ NO:	12010597

INSPECTION DETAILS

Max. Working Pressure:	10,000 PSI	Holding Time:	18 Min
Low pressure:	300 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	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 up to 300 PSI A low Pressure Hold for 5 Minutes And Maximum Working pressure 10.000 psi Hold 18 Minutes 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	MANUFACTURE	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	MANUFACTURE	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:	3540 lux						

PERSON DETAILS

INSPECTOR NAME:	M. Shaizad Ah	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	S.T.I, PT, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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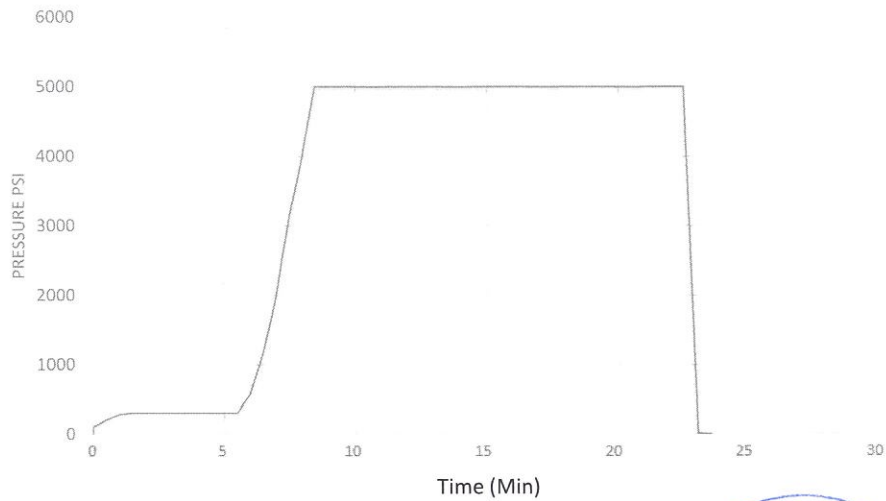


Data Collection Report

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

Run Info	
Start Time	10:00 AM
Stop Time	10:23 AM
Test Date	10-Apr-24
EQ NUMBER	12021745
LAST CALIB	2.Aug.2023

READING



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

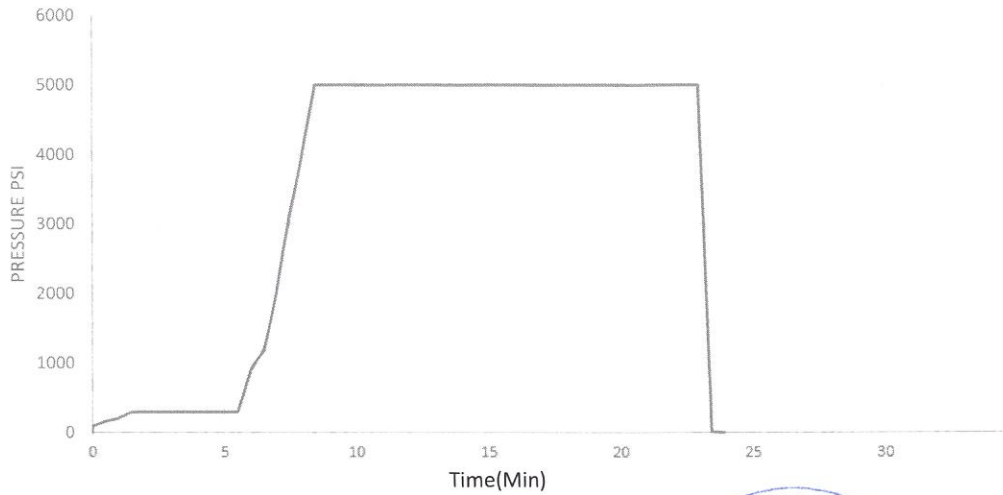


Data Collection Report

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

Run Info	
Start Time	10:30 AM
Stop Time	10:54 AM
Test Date	10-Apr-24
EQ NUMBER	12021745
LAST CALIB	2.Aug.2023

READING



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

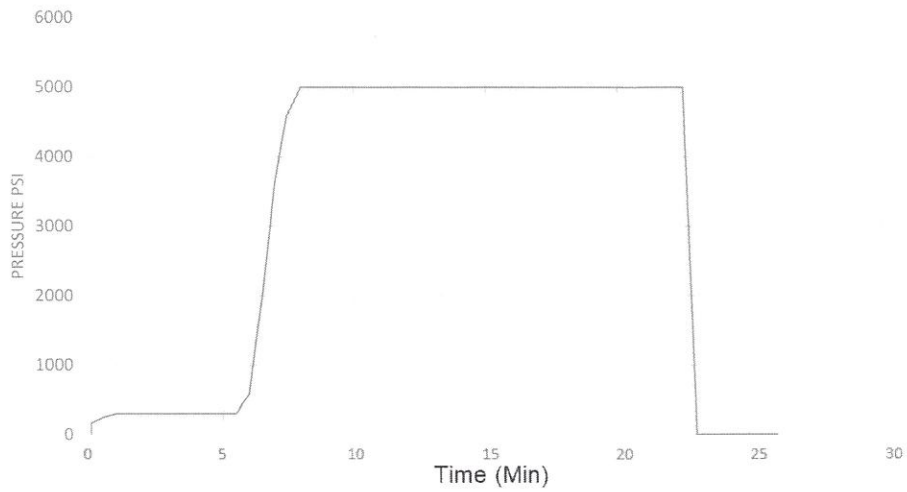


Data Collection Report

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

Run Info	
Start Time	11:00 AM
Stop Time	11:23 AM
Test Date	10-Apr-24
EQ NUMBER	12021745
LAST CALIB	2.Aug.2023

READING



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

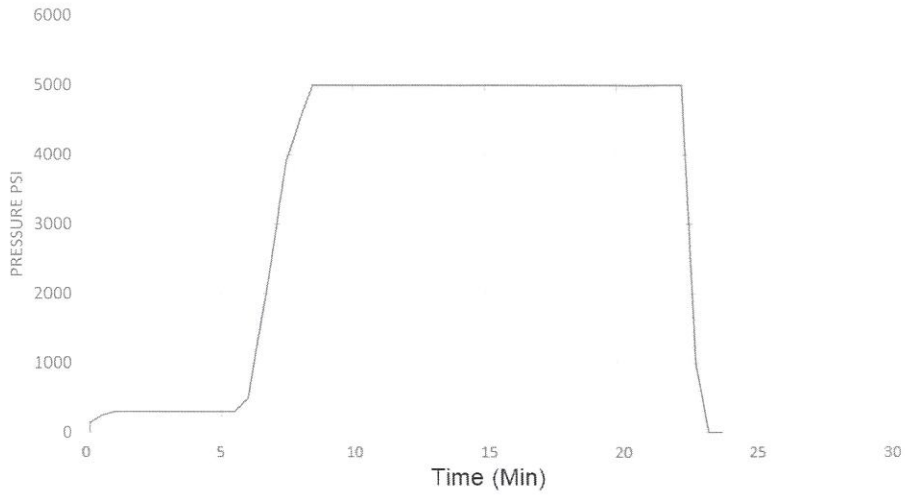


Data Collection Report

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

Run Info	
Start Time	11:30 AM
Stop Time	11:54 AM
Test Date	10-Apr-24
EQ NUMBER	12021745
LAST CALIB	2.Aug.2023

READING



TESTED BY : Feras Abbas
APPROVED BY: Hassan Kamel
COMMENTS: Downstream stream valve from Upstream

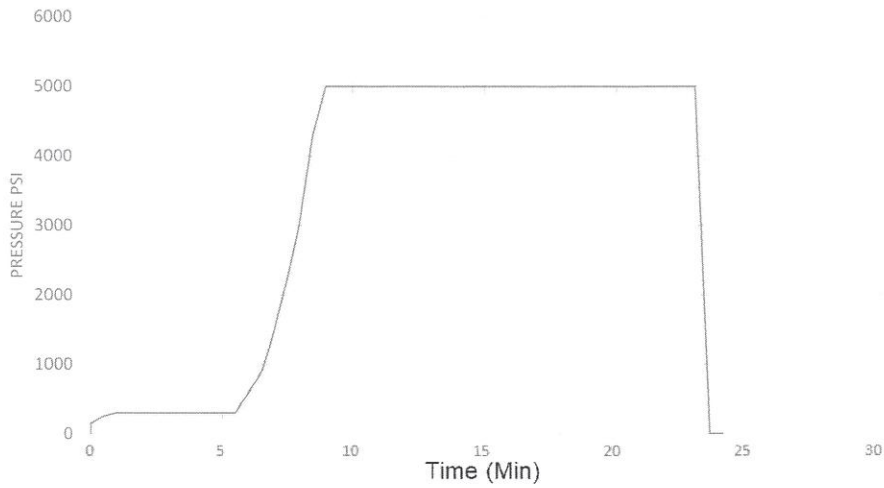


Data Collection Report

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	10-Apr-24
EQ NUMBER	12021745
LAST CALIB	2.Aug.2023

READING



TESTED BY : Feras Abbas
APPROVED BY: Hassan Kamel
COMMENTS: Upstream valve from Downstream

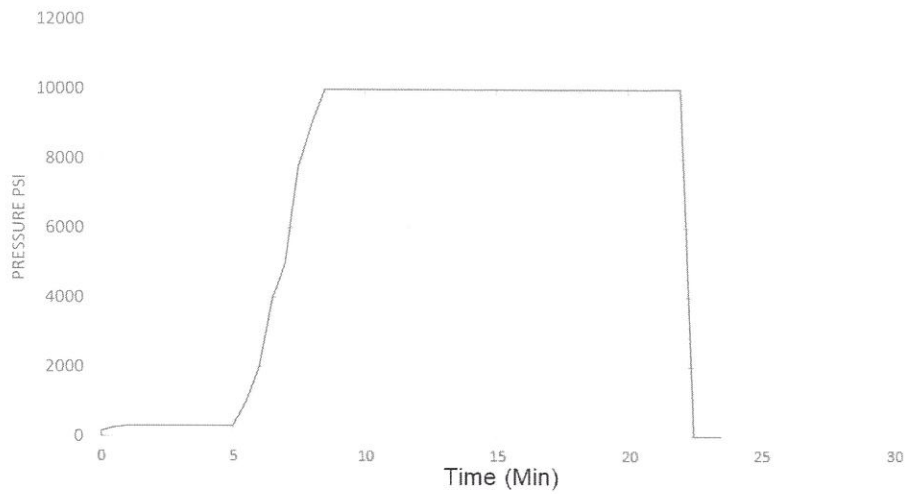


Data Collection Report

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	12:53 PM
Test Date	10-Apr-24
EQ NUMBER	12010597
LAST CALIB	2.Aug.2023

READING



TESTED BY : Feras Abbas
APPROVED BY: Hassan Kamel
COMMENTS: Data Header test

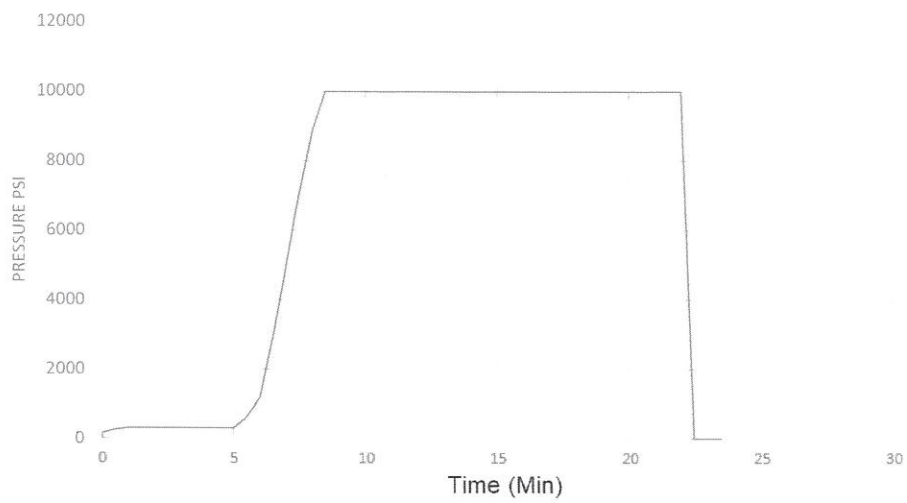


Data Collection Report

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

Run Info	
Start Time	1:00 PM
Stop Time	1:23 PM
Test Date	10-Apr-24
EQ NUMBER	12010594
LAST CALIB	2.Aug.2023

READING



TESTED BY : Feras Abbas
APPROVED BY: Hassan Kamel
COMMENTS: Data Header test

