

MAJOR INSPECTION CERIFICATE

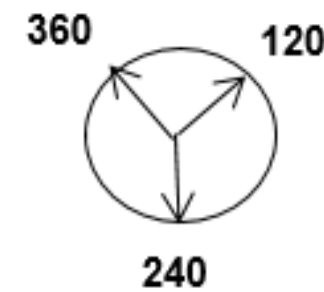
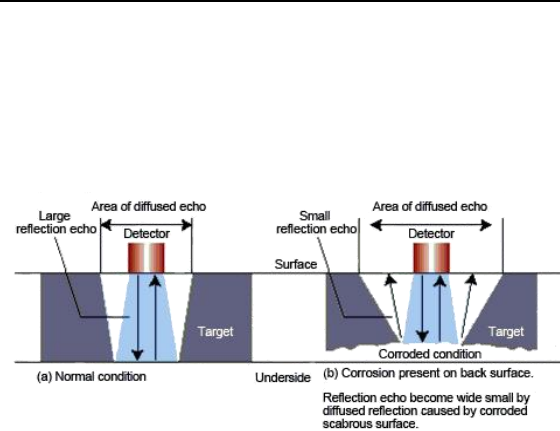
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-01-TSS-004-NDT MAJ-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASME SECTION VIII DIV 1 Latest Edition
WORK ORDER #	325816708	SPECIFICATION:	Halliburton Acceptance Criteria H2S STANDARD NACE MQ-01-75 Manufacturing Date Book Specialist Services
DATE:	01-JAN-2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	SURGE TANK VESSEL 50BBL 50PSI	SAP NO.:	11520759
MANUFACTURER:	SPECIALIST SERVICES	SERIAL NO:	FFZ-287
TOP & BOTTOM MINI THICKNESS	6 MM	TOP & BOTTOM CORROSION ALLOWANCE	3 MM
SHELL NOMINAL THICKNESS	8 MM	SHELL CORROSION ALLOWANCE	3 MM

INSPECTION DETAILS

Max. Working Pressure:	50 PSI	Holding Time:	22 Min
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 CUSTMER

ANGLE	THICKNESS AT POSITION			MIN.THICKNESS	FINAL REMARKS
	120°	240°	360°		
SURGE TANK TOP A1	0.391	0.401	0.388	6 MM 0.236 INCH	SATISFACTORY
SURGE TANK TOP A2	0.395	0.405	0.386		
SURGE TANK TOP A3	0.393	0.403	0.395		
SURGE TANK BOTTOM B1	0.392	0.400	0.391		
SURGE TANK BOTTOM B2	0.395	0.405	0.392		
SURGE TANK BOTTOM B3	0.394	0.408	0.398		
SURGE TANK SHELL C	0.361	0.371	0.377	SHELL CORROSION ALLOWANCE 3 MM 0.118 INCH	
SURGE TANK SHELL D	0.369	0.385	0.378		
SURGE TANK SHELL E	0.372	0.379	0.372		
SURGE TANK SHELL F	0.383	0.386	0.384		
SURGE TANK SHELL G	0.372	0.380	0.385		
SURGE TANK SHELL H	0.385	0.383	0.381		

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709(70.94158).
UT	Accepted	According to Halliburton Procedure (H2S STANDERD NACE MQ-01-75) ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Halliburton Acceptance Criteria

Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To The Halliburton Specification ASTM E709 (70.94158)

U.T-The Above Item Was Found Acceptable As Per Halliburton Procedure H2S STANDARD NACE MQ-01-75 ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services

Pressure Test-The Above Item was Pressure Tested 50 PSI Maximum Working pressure Hold On 22 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Feb-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Feb-24		Magnaflux	220602	JUN.2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	16-Feb-24	Black Magnetic Ink 7HF	MANUFACTUR E	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	16-Feb-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-24	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3630 lux						

PERSON DETAILS

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

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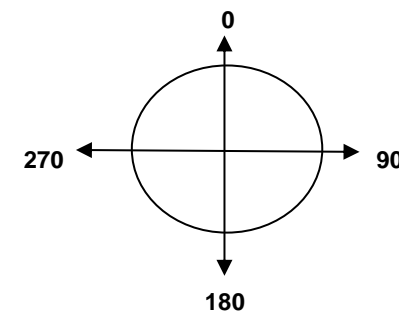
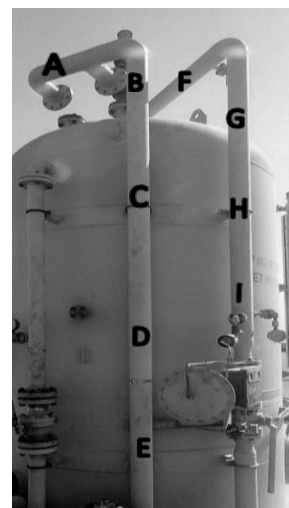
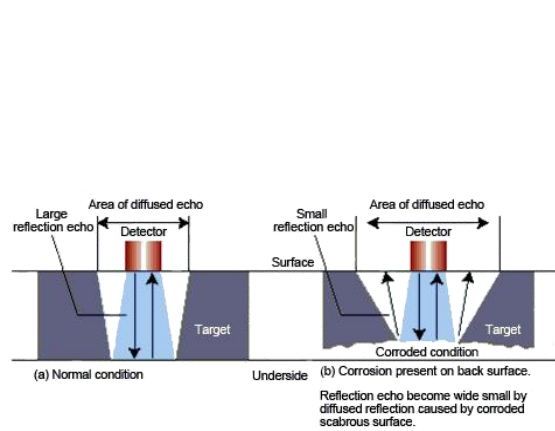


MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-01-TSS-004-NDT MAJ-002
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASME SECTION VIII DIV 1 Latest Edition
WORK ORDER #	325816708	SPECIFICATION:	Halliburton Acceptance Criteria H2S STANDARD NACE MQ-01-75 Manufacturing Date Book Specialist Services
DATE:	01-JAN-2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	OUTLET LINE SURGE TANK 50BBL 50PSI	SAP NO.:	11520759
MANUFACTURER:	SPECIALIST SERVICES	SERIAL NO.:	FFZ-287
INSPECTION DETAILS			
Max. Working Pressure:	50 PSI	Holding Time:	22 Min
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 CUSTMER

ANGLE	THICKNESS AT POSITION				NOMINAL THICKNESS	FINAL REMARKS
	0°	90°	180°	270°		
A	0.281	0.273	0.291	0.282	8.56 MM 0.337 INCH	SATISFACTORY
B	0.291	0.298	0.317	0.276		
C	0.272	0.304	0.309	0.302		
D	0.282	0.313	0.292	0.298		
E	0.301	0.283	0.319	0.312		
F	0.271	0.279	0.303	0.292		
G	0.317	0.307	0.298	0.278		
H	0.297	0.321	0.291	0.272		
I	0.302	0.309	0.288	0.285		

INSPECTION RESULT		
VT & MPI	Accepted	* ACCORDING TO ASTM E709(70.94158).
UT	Accepted	According to Halliburton Procedure (H2S STANDERD NACE MQ-01-75) ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Halliburton Acceptance Criteria

Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To The Halliburton Specification ASTM E709 (70.94158)

U.T-The Above Item Was Found Acceptable As Per Halliburton Procedure H2S STANDARD NACE MQ-01-75 ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services

Pressure Test-The Above Item was Pressure Tested 50 PSI Maximum Working pressure Hold On 22 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Feb-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Feb-24		Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	16-Feb-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	16-Feb-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-24	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3630 lux						

PERSON DETAILS				
INSPECTOR NAME:	M.Shanzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:
QUALIFICATION:	ASNT CP	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-24-01-TSS-004-NDT MAJ-003
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASME SECTION VIII DIV 1 Latest Edition
WORK ORDER #	325816708	SPECIFICATION:	Halliburton Acceptance Criteria H2S STANDARD NACE MQ-01-75 Manufacturing Date Book Specialist Services
DATE:	01-JAN-2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	INTLET LINE SURGE TANK 50BBL 50PSI	SAP NO.:	11520759
MANUFACTURER:	SPECIALIST SERVICES	SERIAL NO.:	FFZ-287
INSPECTION DETAILS			
Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	300 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024

(a) Normal condition
(b) Corrosion present on back surface.
Reflection echo become wide small by diffused reflection caused by corroded scabrous 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

ANGLE	THICKNESS AT POSITION				NOMINAL THICKNESS	FINAL REMARKS
	0°	90°	180°	270°		
A	0.273	0.301	0.276	0.273	7.62 MM 0.300 INCH	SATISFACTORY
B	0.287	0.288	0.316	0.282		
C	0.291	0.307	0.302	0.269		
D	0.283	0.312	0.291	0.288		
E	0.299	0.288	0.310	0.273		
F	0.279	0.274	0.312	0.271		
G	0.312	0.295	0.298	0.268		

INSPECTION RESULT		
VT & MPI	Accepted	* ACCORDING TO ASTM E709(70.94158).
UT	Accepted	According to Halliburton Procedure (H2S STANDERD NACE MQ-01-75) ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Halliburton Acceptance Criteria

Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To The Halliburton Specification ASTM E709 (70.94158)

U.T-The Above Item Was Found Acceptable As Per Halliburton Procedure H2S STANDARD NACE MQ-01-75 ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services

Pressure Test-The Above Item was Pressure Tested to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Feb-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Feb-24		Magnaflux	220602	JUN.2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	16-Feb-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	16-Feb-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3630 lux						

PERSON DETAILS					
INSPECTOR NAME:	M.Shafiqad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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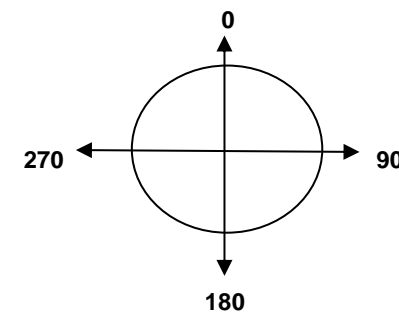
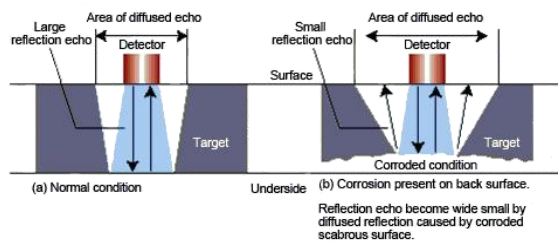


MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-01-TSS-004-NDT MAJ-004
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASME SECTION VIII DIV 1 Latest Edition
WORK ORDER #	325816708	SPECIFICATION:	Halliburton Acceptance Criteria H2S STANDARD NACE MQ-01-75 Manufacturing Date Book Specialist Services
DATE:	01-JAN-2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	BYPASS LINE SURGE TANK 50BBL 50PSI	SAP NO.:	11520759
MANUFACTURER:	SPECIALIST SERVICES	SERIAL NO.:	FFZ-287
INSPECTION DETAILS			
Max. Working Pressure:	1440 PSI	Holding Time:	15 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

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

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

ANGLE	THICKNESS AT POSITION				NOMINAL THICKNESS	FINAL REMARKS
	0°	90°	180°	270°		
A	0.276	0.269	0.281	0.268	7.62 MM 0.300 INCH	SATISFACTORY
B	0.289	0.275	0.272	0.274		
C	0.276	0.289	0.291	0.282		
D	0.288	0.302	0.299	0.291		
E	0.298	0.278	0.268	0.266		
F	0.269	0.279	0.282	0.275		
G	0.287	0.281	0.291	0.284		
H	0.297	0.303	0.284	0.268		
I	0.301	0.287	0.276	0.288		

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709(70.94158).
UT	Accepted	According to Halliburton Procedure (H2S STANDERD NACE MQ-01-75) ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Halliburton Acceptance Criteria

Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To The Halliburton Specification ASTM E709 (70.94158)

U.T-The Above Item Was Found Acceptable As Per Halliburton Procedure H2S STANDARD NACE MQ-01-75 ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services

Pressure Test-The Above Item was Pressure Tested to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Feb-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Feb-24		Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	16-Feb-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	16-Feb-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3630 lux						

PERSON DETAILS

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

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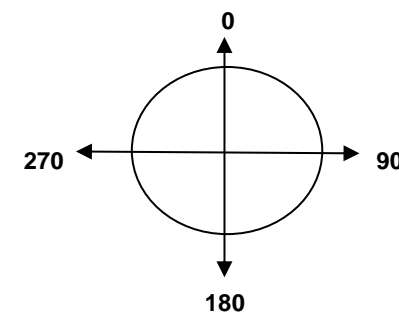
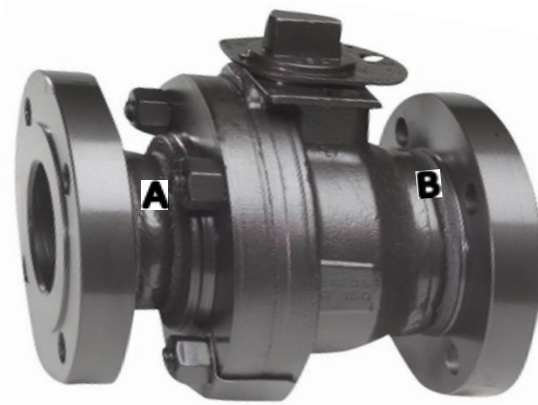
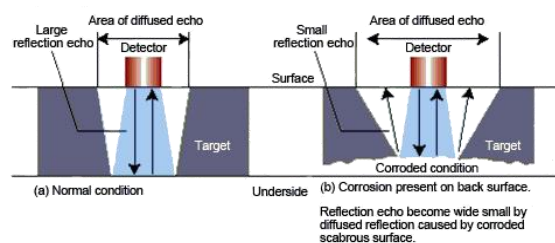


MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-01-TSS-004-NDT MAJ-005
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASME SECTION VIII DIV 1 Latest Edition
WORK ORDER #	325816708	SPECIFICATION:	Halliburton Acceptance Criteria H2S STANDARD NACE MQ-01-75 Manufacturing Date Book Specialist Services
DATE:	01-JAN-2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	4" BALON VALVE	SAP NO.:	11520759
MANUFACTURER:	SPECIALIST SERVICES	SERIAL NO.:	3GZN
INSPECTION DETAILS			
Max. Working Pressure:	50 PSI	Holding Time:	22 Min
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 CUSTMER

ANGLE	THICKNESS AT POSITION				NOMINAL THICKNESS	FINAL REMARKS
	0°	90°	180°	270°		
A	0.457	0.444	0.435	0.446	7.62 MM 0.300 INCH	SATISFACTORY
B	0.487	0.439	0.438	0.451		

INSPECTION RESULT		
VT & MPI	Accepted	* ACCORDING TO ASTM E709(70.94158).
UT	Accepted	According to Halliburton Procedure (H2S STANDERD NACE MQ-01-75) ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Halliburton Acceptance Criteria

Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To The Halliburton Specification ASTM E709 (70.94158)

U.T-The Above Item Was Found Acceptable As Per Halliburton Procedure H2S STANDARD NACE MQ-01-75 ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services

Pressure Test-The Above Item was Pressure Tested 50 PSI Maximum Working pressure Hold On 22 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Feb-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Feb-24		Magnaflux	220602	JUN.2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	16-Feb-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	16-Feb-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-24	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3630 lux						

PERSON DETAILS			
INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN
QUALIFICATION:	ASNT CP	INSPECTION SUPERVISOR:	HANI ALI
SIGNATURE & STAMP:			DATE:

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



MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-01-TSS-004-NDT MAJ-006
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASME SECTION VIII DIV 1 Latest Edition
WORK ORDER #	325816708	SPECIFICATION:	Halliburton Acceptance Criteria H2S STANDARD NACE MQ-01-75 Manufacturing Date Book Specialist Services
DATE:	01-JAN-2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	3" BALON VALVE	SAP NO.:	11520759
MANUFACTURER:	SPECIALIST SERVICES	SERIAL NO.:	3FMR
INSPECTION DETAILS			
Max. Working Pressure:	1440 PSI	Holding Time:	15 Min
Low pressure:	300 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024

(a) Normal condition
(b) Corrosion present on back surface. Reflection echo become wide small by diffused reflection caused by corroded scabrous surface.

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

ANGLE	THICKNESS AT POSITION				NOMINAL THICKNESS	FINAL REMARKS
	0°	90°	180°	270°		
A	0.412	0.391	0.426	0.407	7.62 MM	SATISFACTORY
B	0.421	0.416	0.388	0.402	0.300 INCH	

INSPECTION RESULT		
VT & MPI	Accepted	* ACCORDING TO ASTM E709(70.94158).
UT	Accepted	According to Halliburton Procedure (H2S STANDERD NACE MQ-01-75) ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Halliburton Acceptance Criteria

Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To The Halliburton Specification ASTM E709 (70.94158)

U.T-The Above Item Was Found Acceptable As Per Halliburton Procedure H2S STANDARD NACE MQ-01-75 ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services

Pressure Test-The Above Item was Pressure Tested to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N.:	201504048	CAL DUE DATE	14-Feb-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Feb-24		Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	16-Feb-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	16-Feb-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3630 lux						

PERSON DETAILS					
INSPECTOR NAME:	M.Sharizad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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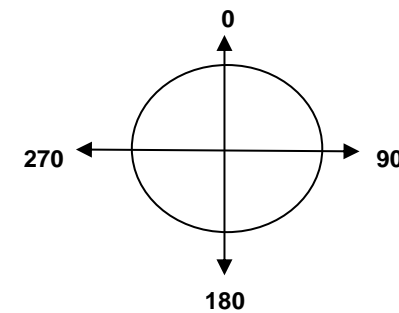
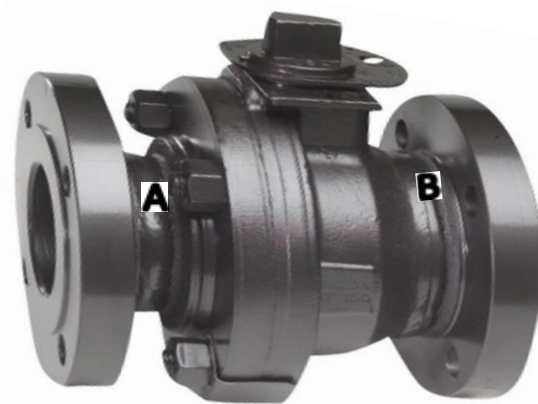
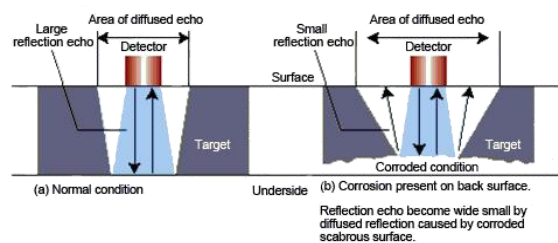


MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-01-TSS-004-NDT MAJ-007
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASME SECTION VIII DIV 1 Latest Edition
WORK ORDER #	325816708	SPECIFICATION:	Halliburton Acceptance Criteria H2S STANDARD NACE MQ-01-75 Manufacturing Date Book Specialist Services
DATE:	01-JAN-2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	3" BALON VALVE	SAP NO.:	11520759
MANUFACTURER:	SPECIALIST SERVICES	SERIAL NO.:	3FMQ
INSPECTION DETAILS			
Max. Working Pressure:	1440 PSI	Holding Time:	15 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

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

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

ANGLE	THICKNESS AT POSITION				NOMINAL THICKNESS	FINAL REMARKS
	0°	90°	180°	270°		
A	0.387	0.412	0.431	0.392	7.62 MM	SATISFACTORY
B	0.407	0.405	0.378	0.407	0.300 INCH	

INSPECTION RESULT		
VT & MPI	Accepted	* ACCORDING TO ASTM E709(70.94158).
UT	Accepted	According to Halliburton Procedure (H2S STANDERD NACE MQ-01-75) ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Halliburton Acceptance Criteria

Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To The Halliburton Specification ASTM E709 (70.94158)

U.T-The Above Item Was Found Acceptable As Per Halliburton Procedure H2S STANDARD NACE MQ-01-75 ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book Specialist Services

Pressure Test-The Above Item was Pressure Tested to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
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INSPECTOR NAME:	M.Sharizad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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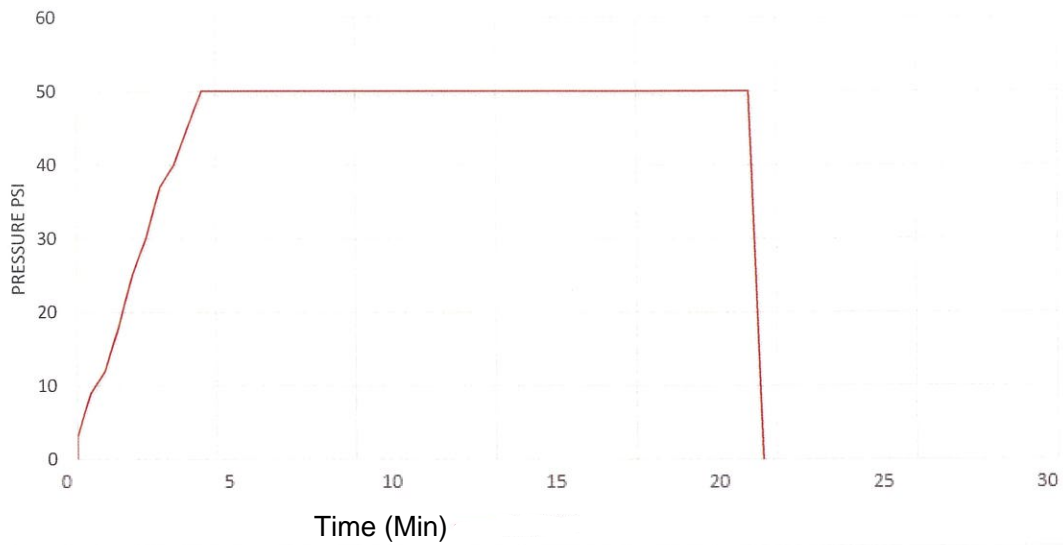


Data Collection Report


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	10:26 AM
Test Date	1-Jan-24
EQ NUMBER	11520759
LAST CALIB	2.Aug.2023

READING



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

SIGN: 
SIGN: H. Kamel

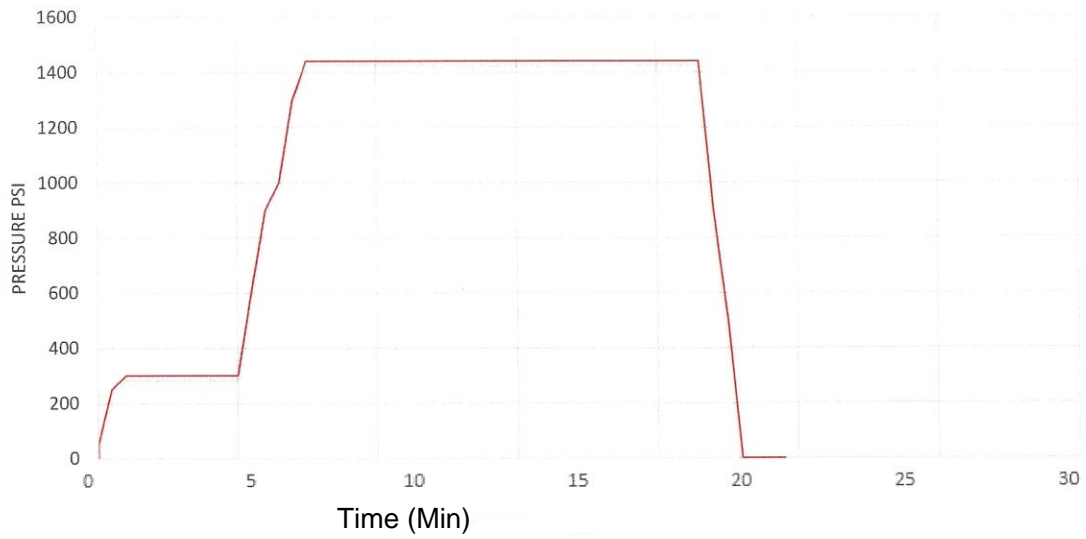


Data Collection Report

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

Run Info	
Start Time	10:32 AM
Stop Time	10:54 AM
Test Date	1-Jan-24
EQ NUMBER	11520759
LAST CALIB	2.Aug.2023

READING



TESTED BY : Haider Emad
APPROVED BY: Hassan Kamel
COMMENTS: Inlet and bypass

SIGN: 

SIGN: H-Kamel

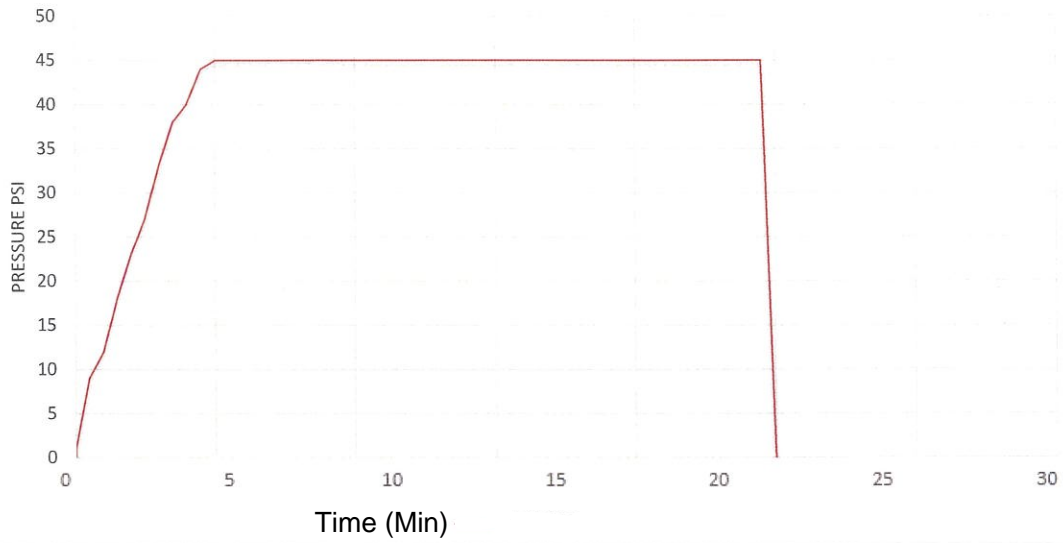


Data Collection Report


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

Run Info	
Start Time	11:12 AM
Stop Time	11:38 AM
Test Date	1-Jan-24
EQ NUMBER	11520759
LAST CALIB	2.Aug.2023

READING



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

SIGN: 
SIGN: 