



MAJOR INSPECTION CERTIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-TSS-MAJ-NDT -001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO.:	140424
WORK ORDER #	326452652	SPECIFICATION:	ASTM E709 & ASTM E797 & ASME SECTION V ARTICLE 5,10 & 27 & ASME B31.1 & OEM DATA
INSPECTION DATE:	Sunday, April 14, 2024	NEXT INSPECTION DATE :	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION, MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING & WITNESS PRESSURE TEST		

DESCRIPTION:	FLOW HEAD 3 1/16" 15K	SAP NO.:	11432303
MANUFACTURER:	WORD WIDE OIL FIELD	MANUFACTURER SERIAL NO:	105207-1
Max. Working Pressure:	15,000 PSI	Holding Time:	19 Min
Low pressure:	300 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	218230280019 Cal DUE. MARCH.2025

PARTS SR.NO:	PARTS DESCRIPTION:	ACTUAL MEASUREMENT	OEM MEASUREMENT
2404-3	LIFTING SUB 5 3/4"-4 ACME PIN X BOX	ID 3.020"	MAX ID 3.090"
		OD 5.485"	MINI OD 5.00"
		SEAL AREA DIA 4.954"	MINI DIA 4.920"
105207-1-9-1	LOWER MASTER VALVE 5 3/4"- 4 ACME BOX X BOX	THICKNESS 2.981 "	THICKNESS MINI 1.280"
		THICKNESS 3.365 "	THICKNESS MINI 2.440"
2404-1	CROSS OVER SUB 5 3/4"- 4 ACME PIN X BOX	ID 3.028"	MAX ID 3.090"
2404-2	SWIVEL 5 3/4"- 4 ACME PIN X PIN	ID 3.018"	MAX ID 3.090"
105207-1	FLOW HEAD BLOCK 5 3/4"- 4 ACME BOX X BOX	THICKNESS 2.971 "	THICKNESS MINI 1.280"
M3597-2	FLOW LINE 3 1/16" X 3 1/16"	ID 3.027"	MAX ID 3.090"
M3597-3	KILL LINE 3 1/16" X 3 1/16"	ID 3.034"	MAX ID 3.090"
WO 28488	FLANGE 3 1/16" BX 154 X 4" 2202 THREAD	ID 3.034"	MAX ID 3.090"
		OD 6.010"	MINI OD 5.940"

INSPECTION RESULT

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

NOTE:MPI Wet Fluorescent inspection Thread With UltraViolet Light

U.T-The Above Item Was Found Acceptable As Per OEM DATA & ASME SECTION V ARTICLE 5 (ASTM E 797)

Pressure Test-The Above Item was Pressure Tested up to 300 PSI a Low Pressure Hold for 5 min And Maximum Working pressure 15.000 psi Hold 19 min 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
DC COIL:	22650	CAL DUE DATE	12-Aug-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UV BLACK LIGHT:	1898977	CAL DUE DATE	12-Aug-24		Magnaflux	220605	JULY,2025
INTENSITY METER:	1608000134	CAL DUE DATE	12-Aug-24	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24		Magnaflux	220306	March,2025
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	14-Aug-24	Concentration of 14HF:		0.1 to 0.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3620 Lux	UV BLACK LIGHT INTENSITY:	3200 µw/cm²	Concentration of 7HF:		1.2 to 2.4 ml/100 ml	

PERSON DETAILS

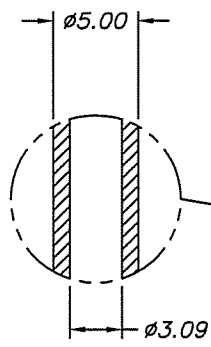
REVIEW BY

INSPECTOR NAME:	M.SHAMZAD AHMED	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP-1	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

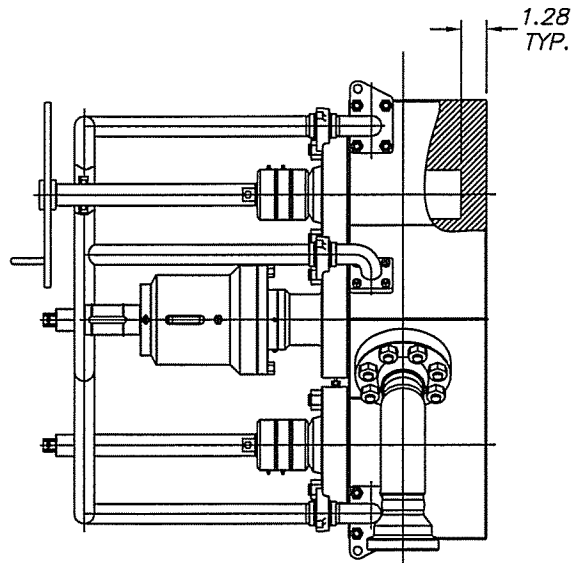
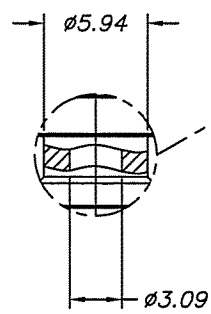
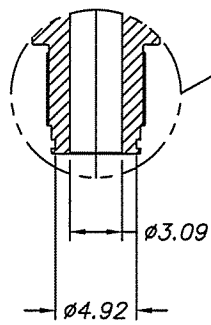
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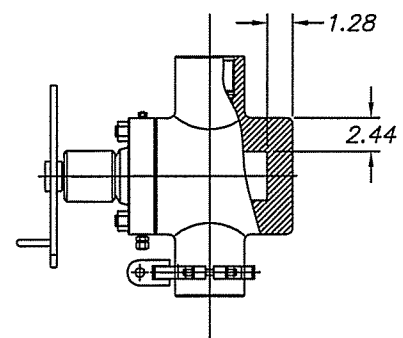
Tel: +9647810009138 / +9647834964657
Email: OP@qualitycontrol-iraq.com
hany.akafi@qualitycontrol-iraq.com



5 3/4" - 4 STUB ACME PIN



NOTES
1. ALL DIMENSIONS SHOWN ARE MAX PERMISSIBLE I.D. & THICKNESS WHERE APPLICABLE



LOWER MASTER VALVE

REVISIONS		
NO	DATE	BY
0	06/10/10	RM

TOLERANCES (EXCEPT WHERE NOTED)	
FRACTION	± 1/64
DECIMAL 0.X	± .030
0.XX	± .015
0.XXX	± .005
ANGULAR	± 1/2
M/C FINISH	125
BREAK ALL SHARP CORNERS	



WORLDWIDE OILFIELD MACHINE INC.
11809 CANEMONT, HOUSTON, TX 77035.

SCALE: NONE
DATE: 02/16/09

APPROVED BY

DRAWN BY: RM
CHK. BY:

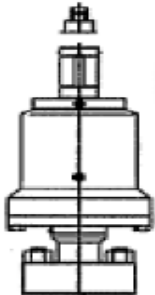

FLOWHEAD, 3 1/16" - 15M 'MODEL 200M', H₂S
(WALL THICKNESS)

HALLIBURTON

DRAWING NUMBER
M3597-WT 0

MAJOR INSPECTION CERTIFICATE													
Client:		HALLIBURTON(TSS)			Report No:		QC-24-04-TSS-MAJ-NDT-002						
Location:		TSS (Burjesia Halliburton Camp)			WO Number:		326452652						
Date:		Sunday, April 14, 2024			Next Inspection Date:		ANNUAL INSPECTION						
Type Of Inspection:		VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION & WITNESS PRESSURE TEST			Specification:		ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API6A						
					UNIT DESCRIPTION:		BLIND FLANGE 3 1/16" 15K						
					UNIT S/N QTY 3:		M22116-2, M32229-2, M32114-1						
					Pump S.N.:		13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:		218230280019 Cal DUE. MARCH.2025			
					INSPECTION RESULT :								
					VISUAL , THOROUGH EXAMINATION			Unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage					
					MAGNETIC PARTICLE INSPECTION			Avaliable critical areas inspected and found free from cracks and other defects					
					FINAL RESULTS			unit found satisfactory and free of defects at the time of inspection					
COMMENT:													
Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast													
Pressure Test-The Above Item was Pressure Tested to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 15,000 psi Hold 19 min no Leak was Realized while testing & Pressure Was Stable According To Chart Recorder Attached													
EQUIPMENT DETAILS					PERSON DETAILS			REVIEW BY					
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter	Equipment:	AC/DC Yoke		INSPECTOR NAME: M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN				
S.No:	1657	S.No:	2722003	S.No:	201504052								
Cal Due Date:	12-Aug-24	Cal Due Date:	14-Aug-24	Cal Due Date:	12-Aug-24		QUALIFICATION: ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI				
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025								
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025		STAMP & SIGNATURE:	CLIENT:					
Technical Details:	Magnetic Partical Concentration		Method		WMPT Light Intensity								
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3620 Lux								

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MAJOR INSPECTION CERTIFICATE													
Client:		HALLIBURTON(TSS)			Report No:		QC-24-04-TSS-MAJ-NDT-003						
Location:		TSS (Burjesia Halliburton Camp)			WO Number:		326452652						
Date:		Sunday, April 14, 2024			Next Inspection Date:		ANNUAL INSPECTION						
Type Of Inspection:		VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION & WITNESS PRESSURE TEST			Specification:		ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API6A						
				UNIT DESCRIPTION:		SSV FLANGE 3 1/16" 15K							
				UNIT S/N:		10434-B03119-45							
				Pump S.N.:		13119220 Cal DUE. AUG.2024		Pressure Gauge NO.:		218230280019 Cal DUE. MARCH.2025			
				INSPECTION RESULT :									
				VISUAL , THOROUGH EXAMINATION				Unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage					
				MAGNETIC PARTICLE INSPECTION				Avaliable critical areas inspected and found free from cracks and other defects					
FINAL RESULTS				unit found satisfactory and free of defects at the time of inspection									
COMMENT:													
Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast													
Pressure Test-The Above Item was Pressure Tested to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 15,000 psi Hold 19 min no Leak was Realized while testing & Pressure Was Stable According To Chart Recorder Attached													
EQUIPMENT DETAILS					PERSON DETAILS			REVIEW BY					
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter	Equipment:	AC/DC Yoke		INSPECTOR NAME: M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN				
S.No:	1657	S.No:	2722003	S.No:	201504052								
Cal Due Date:	12-Aug-24	Cal Due Date:	14-Aug-24	Cal Due Date:	12-Aug-24		QUALIFICATION: ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI				
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025								
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025		STAMP & SIGNATURE:	CLIENT:					
Technical Details:	Magnetic Partical Concentration		Method		WMPT Light Intensity								
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3620 Lux								

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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION												
Client:		HALLIBURTON(TSS)			Report No:		QC-24-04-TSS-MAJ-NDT-004					
Location:		TSS (Burjesia Halliburton Camp)			WO Number:		326452652					
Date:		Sunday, April 14, 2024			Next Inspection Date:		ANNUAL INSPECTION					
Type Of Inspection:		VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION & WITNESS PRESSURE TEST			Specification:		ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)					
					UNIT DESCRIPTION:		X-OVER 4" 2202 WING X 3" 1502 THREAD					
					UNIT S/N:		WO 9591					
					Pump S.N.:		13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:		218230280019 Cal DUE. MARCH.2025		
					INSPECTION RESULT :							
					VISUAL , THOROUGH EXAMINATION		Unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage					
MAGNETIC PARTICLE INSPECTION		Thread & Available critical areas inspected and found free from cracks and other defects										
FINAL RESULTS		unit found satisfactory and free of defects at the time of inspection										
COMMENT:												
(MPI Wet Fluorescent Inspection Thread With UltraViolet Light) Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast												
Pressure Test- The Above Item was Pressure Tested to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 15,000 psi Hold 19 min no Leak was Realized while testing & Pressure Was Stable According To Chart Recorder Attached												
EQUIPMENT DETAILS					PERSON DETAILS			REVIEW BY				
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3200 μw/cm ²		INSPECTOR NAME:	M.SHAHZAD AHMED				
S.NO:	201504052	S.NO:	22650	S.NO:	1898977			SENIOR INSPECTOR:	NAVEED HUSSAIN			
Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024			SUPERVISOR:	HANI ALI			
FLUORESCENT 14HF		Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025		CLIENT:				
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		STAMP & SIGNATURE:					
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:14.AUG.2024		Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE:				Jul-25		

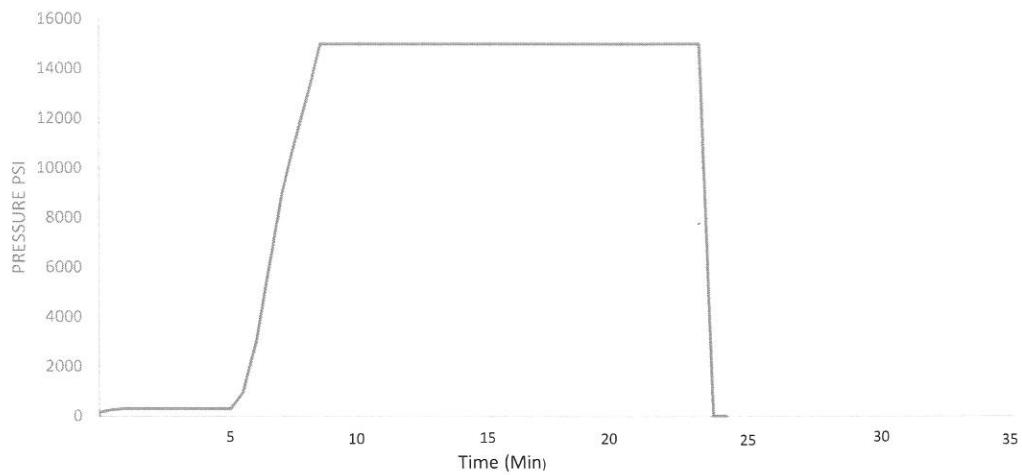
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Data Collection Report




Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	30000 PSI

Run Info	
Start Time	8:30 AM
Stop Time	8:54 AM
Test Date	16-Apr-24
EQ NUMBER	11432303
LAST CALIB	7-Mar-24

READING



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

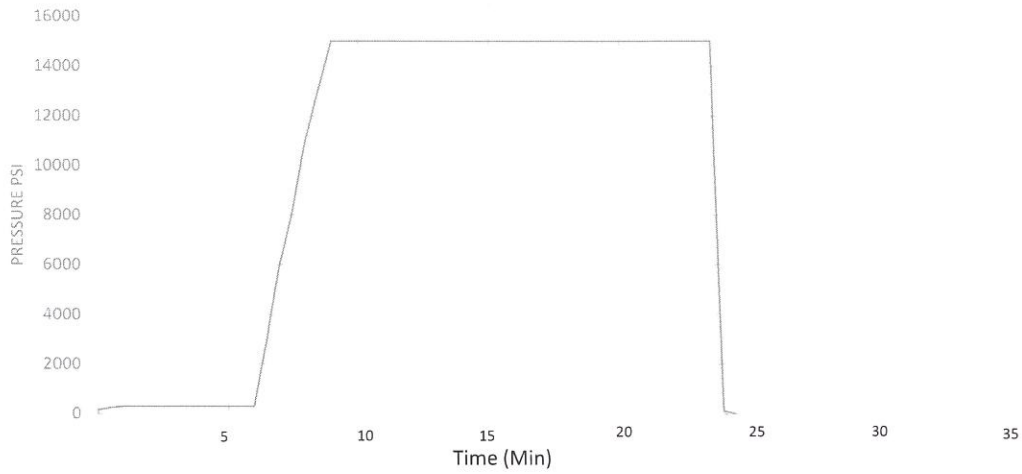
SIGN: 
SIGN: 


Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	30000 PSI

Run Info	
Start Time	9:00 AM
Stop Time	9:24 AM
Test Date	16-Apr-24
EQ NUMBER	11432303
LAST CALIB	7-Mar-24

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Hassan Kamel
COMMENTS: SV, KVV and PWV closed,UMV and LMV open.

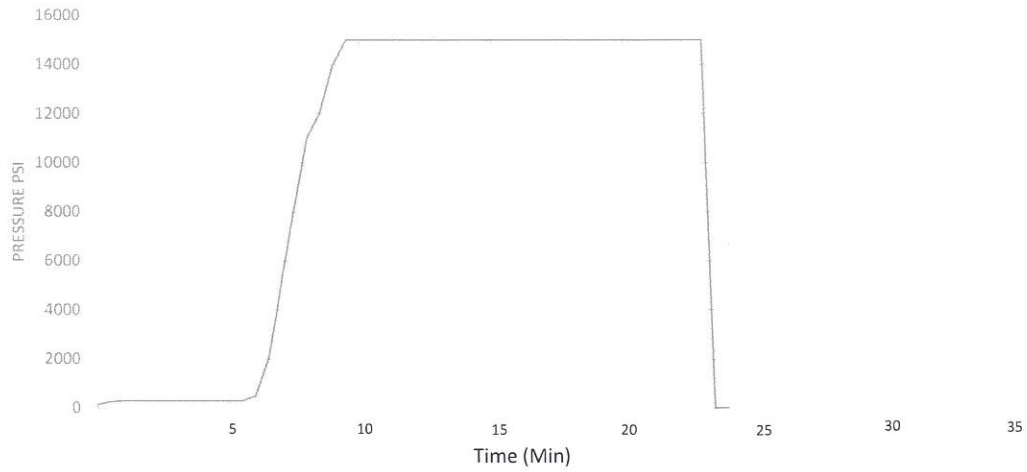


Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	30000 PSI

Run Info	
Start Time	9:30 AM
Stop Time	9:54 AM
Test Date	16-Apr-24
EQ NUMBER	11432303
LAST CALIB	7-Mar-24

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Hassan Kamel
COMMENTS: SV and PWV closed. KWV open, UMV and LMV open

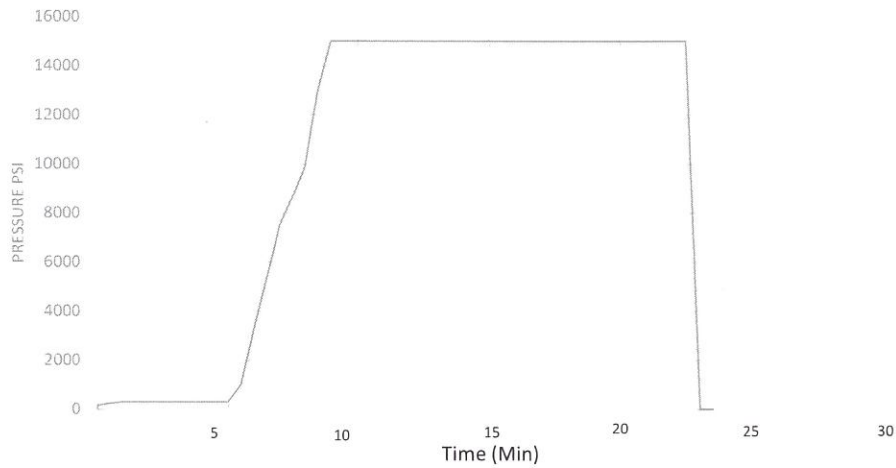


Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	30000 PSI

Run Info	
Start Time	10:00 AM
Stop Time	10:24 AM
Test Date	16-Apr-24
EQ NUMBER	11432303
LAST CALIB	7-Mar-24

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Hassan Kamel
COMMENTS: UMV closed, LMV open.

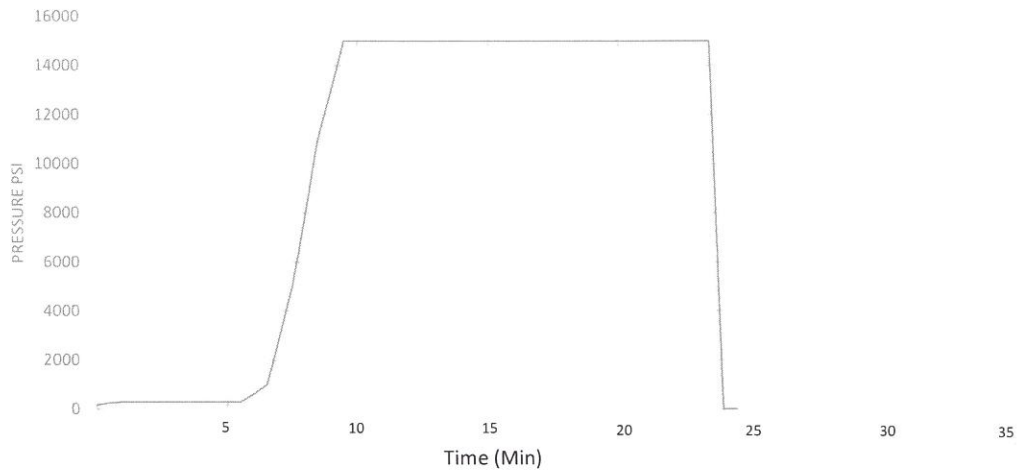


Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	30000 PSI

Run Info	
Start Time	10:30 AM
Stop Time	10:54 AM
Test Date	16-Apr-24
EQ NUMBER	11432303
LAST CALIB	7-Mar-24

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Hassan Kamel
COMMENTS: LMV closed. Test from below LMV

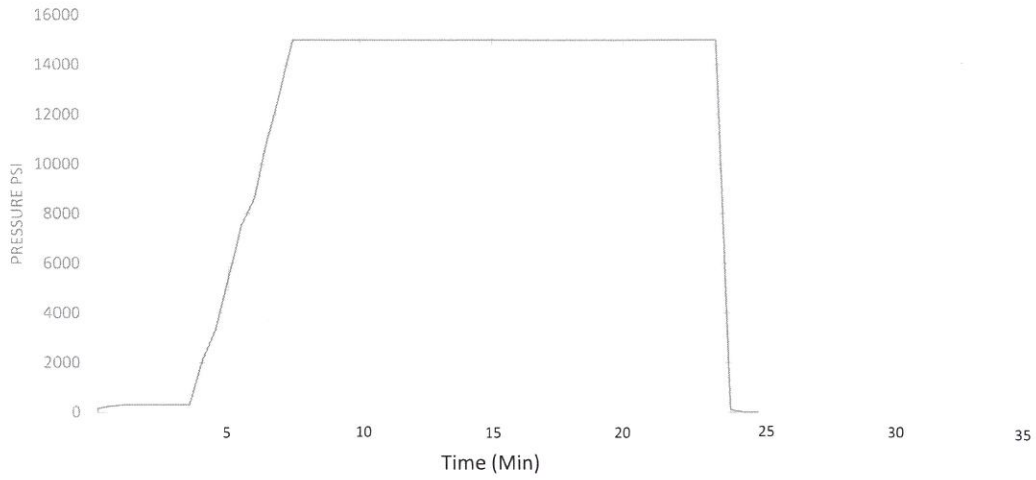


Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	30000 PSI

Run Info	
Start Time	11:00 AM
Stop Time	11:24 AM
Test Date	16-Apr-24
EQ NUMBER	11432303
LAST CALIB	7-Mar-24

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Hassan Kamel
COMMENTS: SV, PWV & LMV closed. KWV open, UMV open

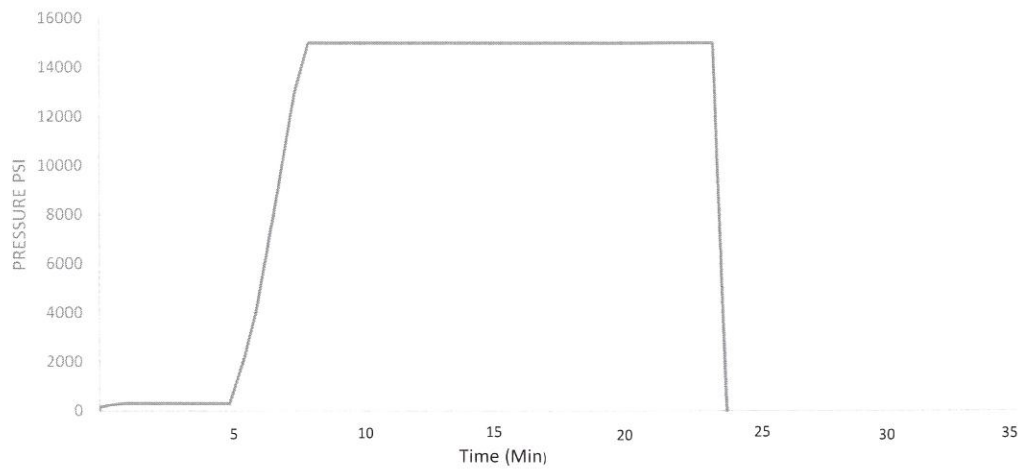


Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	30000 PSI

Run Info	
Start Time	11:30 AM
Stop Time	11:54 AM
Test Date	16-Apr-24
EQ NUMBER	11432303
LAST CALIB	7-Mar-24

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Hassan Kamel
COMMENTS: SV, PWV & UMV closed. KWV open.

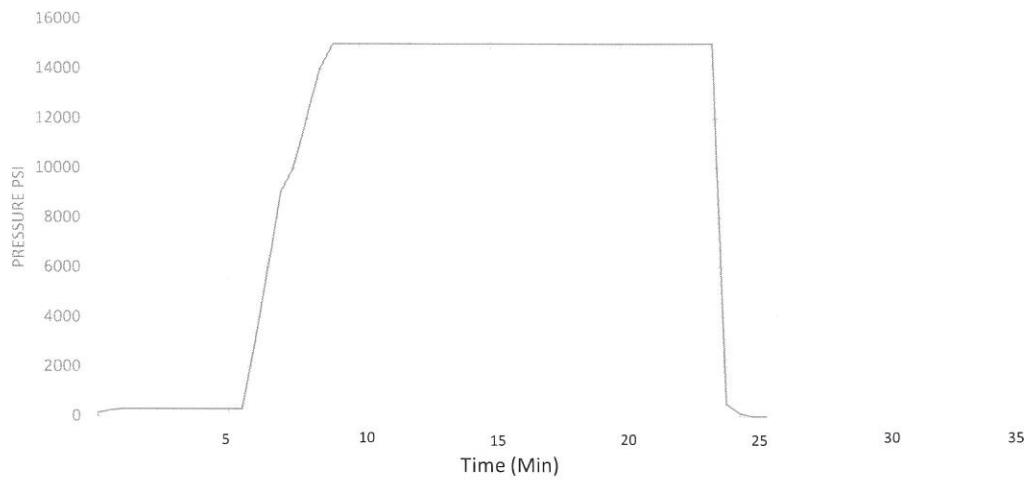


Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	30000 PSI

Run Info	
Start Time	12:00 PM
Stop Time	12:24 PM
Test Date	16-Apr-24
EQ NUMBER	11432303
LAST CALIB	7-Mar-24

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Hassan Kamel
COMMENTS: KVV closed. Test from Kill Wing side

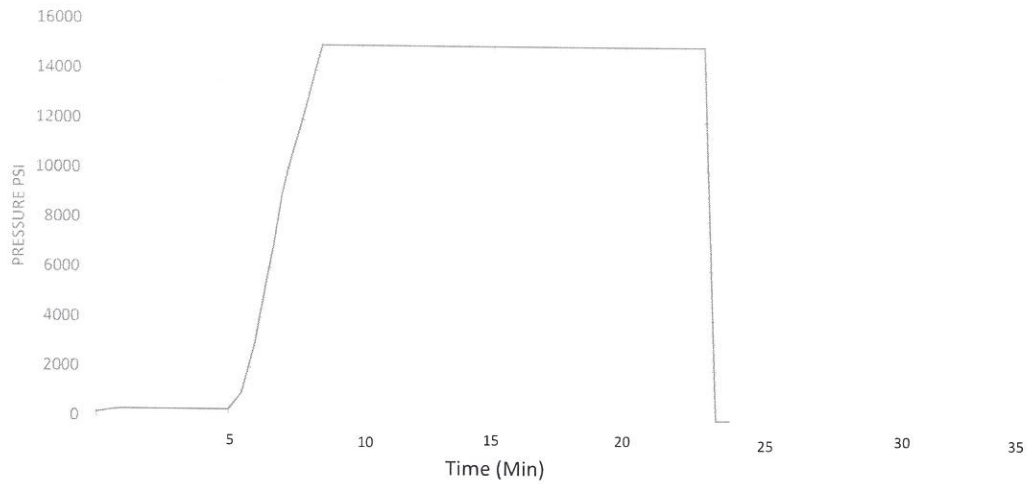


Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	30000 PSI

Run Info	
Start Time	12:30 PM
Stop Time	12:54 PM
Test Date	16-Apr-24
EQ NUMBER	11432303
LAST CALIB	7-Mar-24

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Hassan Kamel
COMMENTS: SV closed. Test from SV (top) side

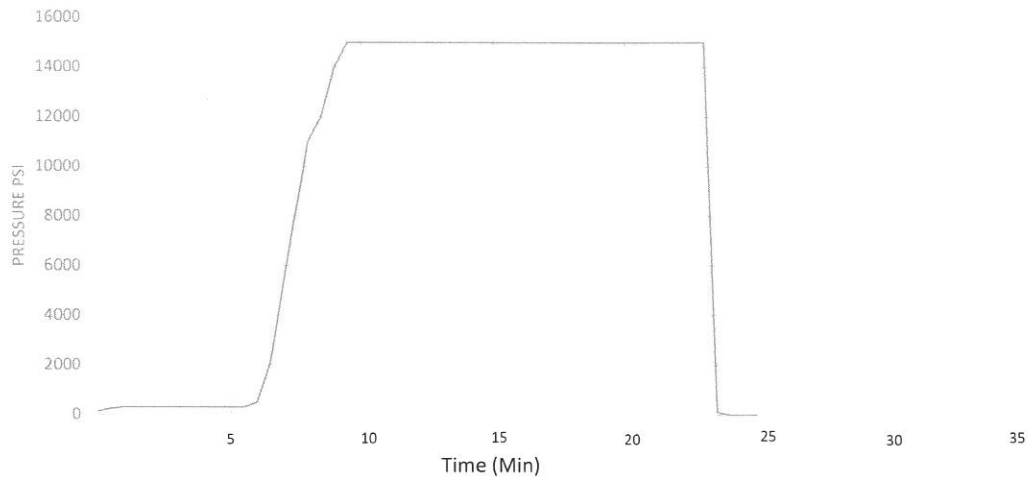


Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Message Store	TSS test area
Units	PSI
SCALE	30000 PSI

Run Info	
Start Time	1:00 PM
Stop Time	1:24 PM
Test Date	16-Apr-24
EQ NUMBER	11432303
LAST CALIB	7-Mar-24

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Hassan Kamel
COMMENTS: PWV closed. Test from PWV side

