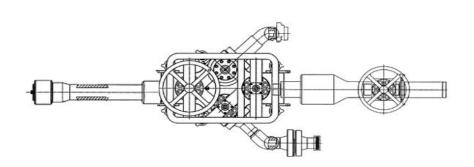
Basra, North Rumaila, Quality Control Yard - Iraq



#### CERTIFICATE OF QUALIFICATION VISUAL AND WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-05-TSS-NDT-FH-004			
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ASME B31.1 / CUSTOMER SPECIFICATION			
WORK ORDER #	326452650	SIEGIFICATION.	ASINE BOLL / COSTONER SEEDINGATION			
DATE OF INSPECTION:	Thursday, May 23, 2024	INSP. DUE DATE:	Thursday, May 22, 2025			
TYPE OF INSPECTION:	VISUAL INSPEC	CTION AND WITNESS PRESSURE TEST				
DESCRIPTION:	FLOW HEAD 3 1/16" 10K	SAP NO:	11511673			
LOW PRESSURE TEST	300 psi	HOLDING TIM	ME: 05 MINUTES			
MAXIMUM WORKING PRESSURE TEST	10,000 Psi	HOLDING TIM	ME: 15 MINUTES			
Pump NO.::	EQ NO:13119220	CAL DUE DAT	TE: AUG.2024			
Pressure Gauge NO.:	468066	CAL DUE DAT	TE: AUG.2024			





ONLINE TRACEBILITY

		PRESSURE TEST WITNESS	RESULT									
PRESSURE TEST-1		Tested up to 300 PSI A low Pressure Hol sure Was Stable Accordance To Chart Re		ng pressu	re 10.000 psi Hold 15 min no Leak was							
PRESSURE TEST-2		The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 10.000 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached										
PRESSURE TEST-3		The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 10.000 psi Hold 15 min no Leak was dealized while testing & Pressure Was Stable Accordance To Chart Recorder Attached										
PRESSURE TEST-4		Tested up to 300 PSI A low Pressure Hol sure Was Stable Accordance To Chart Re		ng pressu	re 10.000 psi Hold 15 min no Leak was							
PRESSURE TEST-5		Tested up to 300 PSI A low Pressure Hol sure Was Stable Accordance To Chart Re		ig pressu	re 10.000 psi Hold 15 min no Leak was							
PRESSURE TEST-6		Tested up to 300 PSI A low Pressure Hol sure Was Stable Accordance To Chart Re		ig pressu	re 10.000 psi Hold 15 min no Leak was							
PRESSURE TEST-7		Tested up to 300 PSI A low Pressure Hol sure Was Stable Accordance To Chart Re		ıg pressu	re 10.000 psi Hold 15 min no Leak was							
PRESSURE TEST-8		Tested up to 300 PSI A low Pressure Holsure Was Stable Accordance To Chart Re		ng pressu	re 10.000 psi Hold 15 min no Leak was							
PRESSURE TEST-9		Tested up to 300 PSI A low Pressure Hol sure Was Stable Accordance To Chart Re		ng pressu	re 10.000 psi Hold 15 min no Leak was							
PRESSURE TEST-10		Tested up to 300 PSI A low Pressure Hol sure Was Stable Accordance To Chart Re		ng pressu	re 10.000 psi Hold 15 min no Leak was							
PERSON I	DETAILS	REVIEW BY										
INSPECTOR NAME:	M.Shahaad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:								
QUALIFICATION:	Act Villaria Tim	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN								





SIGNATURE & STAMP:















Basra, North Rumaila, Quality Control Yard - Iraq

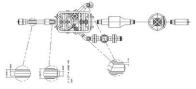


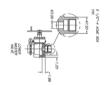


### **MAJOR INSPECTION CERTIFICATE**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT	'No.:	QC-2	4-05-TSS-MAJ-NDT -002
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB N	O.:		210524
WORK ORDER #	326452650	SPECIFICA	ATION:	ASTM E70	9 & ASTM E797 & OEM DATA
INSPECTION DATE:	Tuesday, May 21, 2024	NEXT INSPECT	ION DATE :	A1	NUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION, MAGNE	TIC PARTICLE INSP	ECTION AND ULT	RASONIC THICK	NESS GAUGING
DESCRIPTION:	FLOW HEAD 3 1/16" 10K	SAP N	O.:		11511673
MANUFACTURER:	WORD WIDE OIL FIELD	MANUFACTURE	SERIAL NO:		106271-1
PARTS SR.NO:	PARTS DESCRIPTION:		ACTUAL ME	ASUREMENT	OEM MEASUREMENT
			ID 3.0	040"	MAX ID 3.090"
SW-6382-1	LIFTING SUB 5 1/2"-4 ACME PIN X	вох	OD 5.	032''	MINI OD 5.00"
			SEAL AREA	DIA 5.192"	MINI DIA 5.177''
			ID 3.0	)23"	MAX ID 3.060"
106271-1-1-10-1	LOWER MASTER VALVE 5 1/2"- 4 ACME	POV V POV	OD 7.	592"	MINI OD 7.500"
1002/1-1-1-10-1	LOWER WASTER VALVE 3 1/2 - 4 ACIVIE	BOX X BOX	THICKNES	S 2.787 "	THICKNESS MINI 1.880"
			THICKNES	S 1.883 "	THICKNESS MINI 1.250"
TSS-222	CROSS OVER SUB 5 1/2"- 4 ACME PIN	X BOX	ID 3.0	)36"	MAX ID 3.090"
TSS-221	SWIVEL 5 1/2"- 4 ACME PIN X PI	N	ID 3.0	031"	MAX ID 3.090"
106271-1	FLOW HEAD BLOCK 5 1/2"- 4 ACME BC	OX X BOX	THICKNES	S 1.845 "	THICKNESS MINI 1.250"
M35379-2	FLOW LINE 3 1/16" X 3" 1502 WII	NG	THICKNES	S 1.682 ''	THICKNESS MINI 1.600"
135418-1	KILL LINE 3 1/16" X 3 1/16"		THICKNES	S 1.654"	THICKNESS MINI 1.600"
			•		







#### 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 ASTM E 797 & OEM DATA

	INSPECTION EQ	UIPMENT DETAILS			TECHNICA	AL DETAILS	3
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24	2	Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic Ink	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24	7HF	Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic	MANUFACTURE	BATCH NO	EXPIRE DATE
DC COIL:	22650	CAL DUE DATE	15-Oct-24	Ink 14HF	Magnaflux	220306	March.2025
UV BLACK LIGHT:	1898977	CAL DUE DATE	14-Oct-24	Concentration	n of 14HF:	0.1	l to 0.4 ml/100 ml
WHITE LIGHT INTENSITY:	3620 lux	UV BLACK LIGHT INTENSITY:	3140 μw/cm <sup>2</sup>	Concentration	on of 7HF:	1.3	2 to2.4 ml/100 ml
PERSO	N DETAILS			REVIEW BY			
INSPECTOR NAME:	M.SHAHZAD AHMFO	SENIOR INSPECTOR:	NAVEED H	USSAIN	CLIENT:		
QUALIFICATION:	Ac	INSPECTION SUPERVISOR:	HANI A	VII	HB&SIGN		
SIGNATURE & STAMP:	12/13/1				DATE:		
Original - Client Files	Copy Area Office QC/FN/P	T/077 Rev.00 DATED 07.NOV. 2021					























				MAJOR II	NSPECTIO	ON CERT	IFICATE			
Clier	nt:		HALLIBURTON(TSS)	)	Rep	ort No:		QC	-24-05-TSS-MAJ-NDT-	003
Locati	ion:	TSS	(Burjesia Halliburton C	Camp)	WO	Number:			326452650	
Inspection	n Date:		Tuesday, May 21, 2024	4	Next Ins	pection Date:			ANNUAL INSPECTION	1
Type Of Ins	spection: VISUA	AL , THOROUGH EXA	MINATION & MAGNE	TIC PARTICLE INSPEC	Speci	ification:		ASTM E709 & ASTM	E 1444 (2016) ASME V Arti	icle 7 (2019) & API6A
					UNIT DE	SCRIPTION:			BLIND FLANGE 3 1/16	u .
	<u>.</u>		UNIT	S/N QTY 3:		M38	94-14, M3394-22, M33	94-6		
		III						INSPECTION R	ESULT :	
					VISUA	AL , THOROUGH EX	AMINATION	de	Unit fully inspected a forms, cracks, corrosio	nd found free from n & mechanical damage
					MAG	GNETIC PARTICLE I	NSPECTION		Avaliable critical and found free from cra	-
						FINAL RESUL	тѕ		unit found satisfactory at the time of	
		串	<b></b>		COMMENT:		ction With A/C Hand	l Yoke , Black & Wh	iite Contrast	
		EQUIPM	IENT DETAILS				PERSON DETAI	LS		REVIEW BY
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter	Equipment:	AC/DC Yoke	INSPECTOR N		Como	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504048	M.Shahzad Al	med	A Tana	SERIOR MOI ECTOR.	MAY LLD HOSSAIN
Cal Due Date:	14-0ct-24	Cal Due Date:	16-0ct-24	Cal Due Date:	14-0ct-24	QUALIFICATI	ON:	10/104		

ASNT LEVEL II

MT & PT & VT

STAMP & SIGNATURE:

Original - Client Files

**Technical Details:** 

**Black Magnetic Ink Manufacture:** 

Whie Contrast Paint Manufacture:

1.2 to 2.4 ml/100 ml Copy - Area Office

Magnaflux

Magnaflux

**Magnetic Partical Concentration** 

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













**Batch No:** 

**Batch No:** 



220605

220602

Method

Wet Magnetic Particle Testing



**Expiry Date:** 

**Expiry Date:** 



JULY.2025

JUN,2025

WMPT Light Intensity

3620 Lux

SUPERVISOR:

CLIENT:

HANI ALI





	MAJOR INSE	PECTION CERT	TFICATE	
Client:	HALLIBURTON(TSS)	Report No:		QC-24-05-TSS-MAJ-NDT-003
Location:	TSS (Burjesia Halliburton Camp)	WO Number:		326452650
Inspection Date:	Tuesday, May 21, 2024	Next Inspection Date:		ANNUAL INSPECTION
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:		ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API6A
		UNIT DESCRIPTION:		SSV FLANGE 3 1/16"
		UNIT S/N:		10383-802477-34
	<u> </u>			INSPECTION RESULT:
		VISUAL , THOROUGH E	XAMINATION	Unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage
		MAGNETIC PARTICLE	NSPECTION	Avaliable critical areas inspected and found free from cracks and other defects
		FINAL RESU	TS	unit found satisfactory and free of defects at the time of inspection
		COMMENT:  Magnetic Particle Inspe	ction With A/C Hand	Yoke , Black & White Contrast

			EQUIPM	IENT DETA	ILS			·	PERS	ON DETAILS	REVIEW BY		
Equipment:	AC-Yoke Test	Block	Equipment:	Digital Lux	Meter	Equipmer	ıt:	AC/DC Yoke	INSPECTOR NAME:	A Com	SENIOR INSPECTOR:	NAVEED HUSSAIN	
S.No:	1657		S.No:	27220	)3	S.No:		201504048	M.Shahzad Ahmed		SENIOR INSI ECTOR.	NAVEED HOSSAIN	
Cal Due Date:	14-0ct-2	4	Cal Due Date:	16-0ct	24	Cal Due Da	te:	14-0ct-24	QUALIFICATION:	1000	SUPERVISOR:	HANI ALI	
Black Magneti	c Ink Manufact	ture:	Magnaflux	Batch No	2206	Expiry	Date:	JULY.2025	ASNT LEVEL II MT & PT & VT		SUPERVISOR:	HANI ALI	
Whie Contrast	Paint Manufact	ure:	Magnaflux	Batch No	2206	602 Expiry	Date:	JUN,2025		12/18/1			
Technical 1		Magnet	tic Partical Concent	ration	Met	hod	w	MPT Light Intensity	STAMP & SIGNATURE:	or Ingineering	CLIENT:		
rechincar	Details:	1	1.2 to 2.4 ml/100 ml	Wet	lagnetic P (WM	article Testing PT)		3620 Lux					

Original - Client Files

Copy - Area Office

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





















### Basra, North Rumaila, Quality Control Yard - Iraq

				N	MAJO:	R INSI	PECTIC	N CERTII	FICATE				
Clien	it:		HALLIBURTON	V(TSS)			Repo	ort No:		QC	-24-04-TSS-MAJ-NDT-	005	
Location	on:	T	SS (Burjesia Hallibur	rton Cam	Camp)		WO N	Number:		326452650			
Date	<b>:</b> :		Thursday, April 1	1, 2024			Next Insp	ection Date:		1	ANNUAL INSPECTION	1	
Type Of Ins	pection: VISUA	AL , THOROUGH E	XAMINATION & MA	AGNETIC	PARTICLE I	NSPECTION	Specif	fication:		ASTM E709 & ASTM	E 1444 (2016) ASME V Arti	icle 7 (2019) & API6A	
	·						UNIT DE	SCRIPTION:		FLANC	GE 3 1/16" X 3" 1502 T	HREAD	
		$\overline{Z}$					UNI	T S/N:			M0073-2-2		
		The state of the s						<u>.</u>		INSPECTION R	ESULT :		
							VISUA	L , THOROUGH EXAM	IINATION	def	Unit fully inspected a forms, cracks, corrosion	nd found free from n & mechanical damage	
							MAG	NETIC PARTICLE INSP	PECTION		Thread & Avaliable crit	•	
								FINAL RESULTS			unit found satisfactory at the time of		
							,	et Flourocent Inspe tic Particle Inspectio		•	•		
		EQUII	PMENT DETAILS	5				PE	ERSON DETAI	LS		REVIEW BY	
EQUIPMENT:	AC/DC HAND Yoke	EQUIPMENT:	Shooting Coil DC	EQUI	PMENT:		CK LIGHT: uw/cm²	INSPECTOR NAME: M.SHAHZAD AHMED			SENIOR INSPECTOR:	NAVEED HUSSAIN	
S.NO:	201504048	S.NO:	22650	S	S.NO:	189	8977	M.SHAHZAD ARMED	A STATE OF	ompani	SEATOR HOI ECTOR.	MAYEED HOSSAIN	
Cal Due Date:	14.0CT.2024	Cal Due Date:	15.0CT.2024	Cal D	ue Date:	14.00	T.2024	QUALIFICATION:			CAMPANAGOS	HANLALI	
FLUORES	SCENT 14HF	Magnaflux	Batch No:	220306	EXPIRE DA	ATE: M	ARCH,2025	ASNT LEVEL II MT & PT & VT		OVICE	SUPERVISOR:	HANI ALI	
Whie Contrast 1	Paint Manufacture:	Magnaflux	Batch No:	220602	EXPIRE DA	ATE:	JUN,2025			12 // 8//			

Original - Client Files

Digital Lux Meter

WHITE LIGHT INTENSITY:

3620 Lux/S.NO:2722003

Cal Due Date:16.0CT.2024

Black Magnetic Ink Concentration 7 HF Copy - Area Office

Wet FLUORESCENT Particle Concentration 14 HF

0.1 to 0.4 ml/100 ml

1.2 to 2.4 ml/100 ml

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

Jul-25

Black Magnetic Ink Manufacture:7HF

Batch No:220605

STAMP & SIGNATURE:









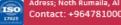


**TECHNICAL DETAILS** 









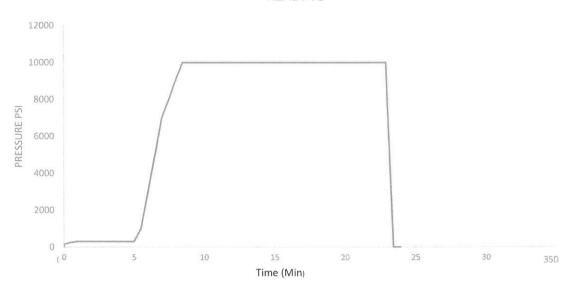
EXPIRE DATE:

CLIENT:

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

Run Info	
Start Time	8:30 AM
Stop Time	8:54 AM
Test Date	23-MAY-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

### READING



TESTED BY:

Tarek Bekhit

APPROVED BY:

Ahmed Fouad

COMMENTS:

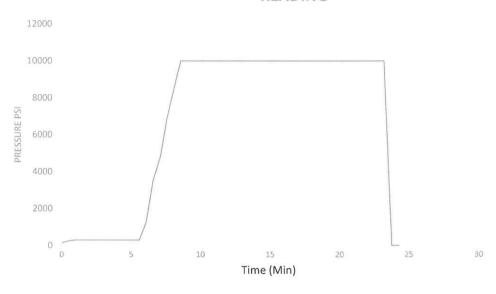
**Body Test** 



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

Run Info	
Start Time	9:00 AM
Stop Time	9:24 AM
Test Date	23-MAY-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

### READING



TESTED BY:

Tarek Bekhit

APPROVED BY:

Ahmed Fouad

COMMENTS:

SV, KWV and PWV closed, UMV and LMV open.

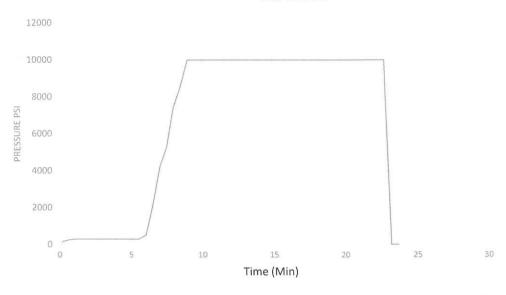
SIGN:

SIGN

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

Run Info	
Start Time	9:30 AM
Stop Time	9:54 AM
Test Date	23-MAY-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

#### READING



TESTED BY:

Tarek Bekhit

APPROVED BY:

Ahmed Fouad

COMMENTS:

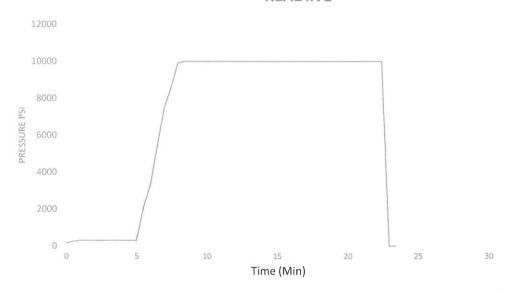
SV and PWV closed. KWV open, UMV and LMV open



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	10:24 AM
Test Date	23-MAY-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

### READING



TESTED BY:

Tarek Bekhit

APPROVED BY:

Ahmed Fouad

COMMENTS:

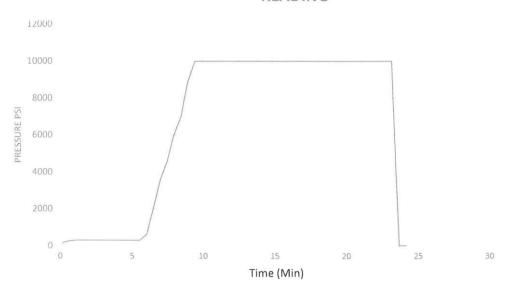
UMV closed, LMV open.

SIGN:

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	23-MAY-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

### READING



TESTED BY:

Tarek Bekhit

APPROVED BY:

Ahmed Fouad

COMMENTS:

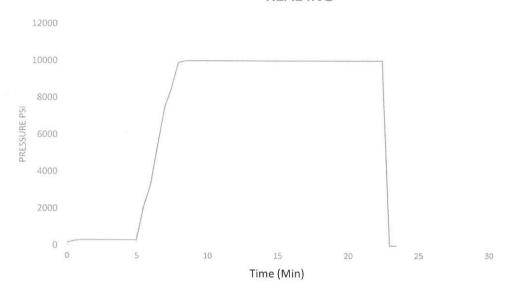
LMV closed. Test from below LMV

SIGN: SIGN:

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	11:24 AM
Test Date	23-MAY-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

### READING



TESTED BY:

Tarek Bekhit

APPROVED BY:

Ahmed Fouad

COMMENTS:

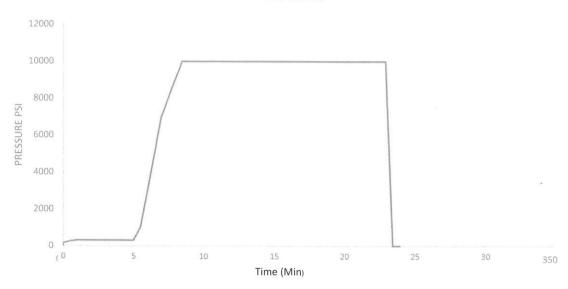
SV, PWV & LMV closed. KWV open, UMV open

SIGN: NDT SIGN: NDT COMMENT OF THE PARTY OF

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	23-MAY-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

#### READING



TESTED BY:

Tarek Bekhit

APPROVED BY:

Ahmed Fouad

COMMENTS:

SV, PWV & UMV closed. KWV open.

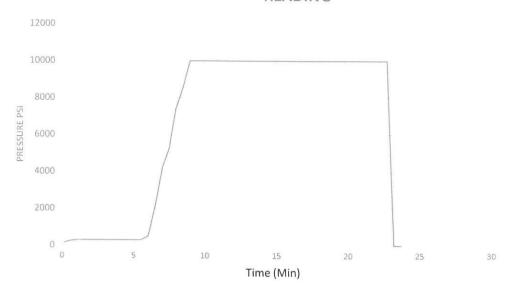
SIGN

SIGN:

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	23-MAY-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

### READING



TESTED BY:

Tarek Bekhit

APPROVED BY:

Ahmed Fouad

COMMENTS:

KWV closed. Test from Kill Wing side

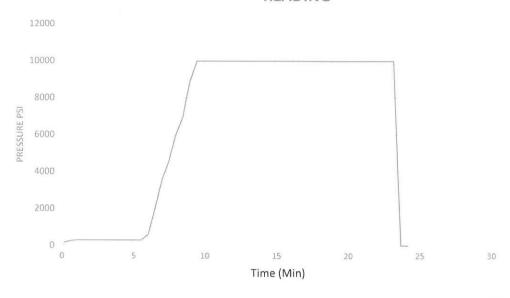
SIGN:

SIGN:

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	12:54 PM
Test Date	23-MAY-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

### **READING**



TESTED BY:

Tarek Bekhit

APPROVED BY:

Ahmed Fouad

COMMENTS:

SV closed. Test from SV (top) side

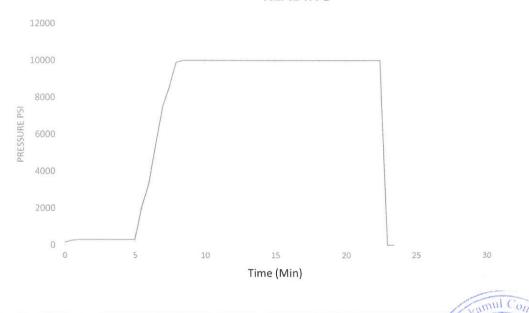
SIGN:

SIGN

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	1:24 PM	
Test Date	23-MAY-24	
EQ NUMBER	11511673	
LAST CALIB	2.Aug.2023	

#### READING



TESTED BY:

Tarek Bekhit

APPROVED BY:

Ahmed Fouad

COMMENTS:

PWV closed. Test from PWV side

SIGN:

SIGN