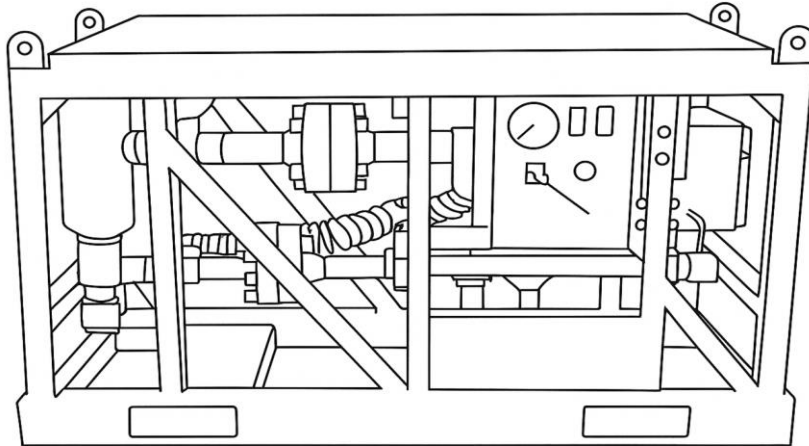


CERTIFICATE OF QUALIFICATION VISUAL AND WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-07-SPERRY-NDT-016
LOCATION:	Sperry (Burjesia Halliburton Camp)	STANDARD :	ASME B31.1:2024
WORK ORDER #	328431826	HALL DOC:	GEO-SPAN PRESSURE TEST PROCEDURE, REVISION C DOC # D01065028
DATE OF INSPECTION :	Tuesday, September 2, 2025		
TYPE OF INSPECTION:	VISUAL AND WITNESS PRESSURE TEST		
DESCRIPTION:	GEO-SPAN	GEO-SPAN S.NO	210200 (11058212)
LOWER PRESSURE:	500 psi	HOLDING TIME:	05 MINUTES
MAXIMUM PRESSURE:	10000 Psi	HOLDING TIME:	15 MINUTES
PUMP NO :	EQ_NO:12859769 / S.NO 27219	CAL DUE DATE:	13.APR.2026
PRESSURE TRANSDUCER S.N:	1107XB8Q	CAL DUE DATE:	13.APR.2026
DIGITAL RECORDER S.N:	03741181	CAL DUE DATE:	13.APR.2026
PRESSURE GAUGE 1 S.N:	154454885	CAL DUE DATE:	13.APR.2026
PRESSURE GAUGE 2 S.N:	2016041.1.1	CAL DUE DATE:	13.APR.2026



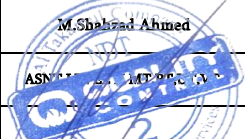
ONLINE TRACEABILITY

PRESSURE TEST WITNESS RESULT

PRESSURE TEST: The above item was Low Pressure 500 psi pressure hold 05 minutes and Tested up to 2000, 4000, 6000, 8000 psi pressure hold 02 minutes After Each Increase and Maximum Working Pressure 10000 psi pressure hold 15 minutes no Leak was Realized while testing & Pressure Was Stable accordance to chart Recorder Attached.

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP-105	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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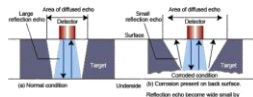
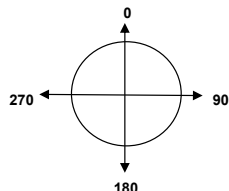
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATE OF VISUAL AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION AND ULTRASONIC THICKNESS GAUGING

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-07-SPERRY-NDT-001
LOCATION:	Sperry (Burjesia Halliburton Camp)	STANDARD :	ASTM E709-21 & ASTM E797-21 & ASTM E165-23, API 6A :2024
WORK ORDER #	328431826	HALL DOC:	GEO-SPAN ULTRASONIC MANUAL, REVISION K DOC # D00112159
DATE OF INSPECTION :	Wednesday, July 9, 2025	Next Inspection Date:	Wednesday, July 8, 2026
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	GEO-SPAN (IN LET PIPING RUN)	GEO-SPAN S.NO	210200 (11058212)
MANUFACTURER:	HES	SERIAL NO:	CP2175091



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

POINTS	2" PIPING		3" PIPING		90-DEGREE ELBOW	2" PIPING Minimum Wall Thickness	3" PIPING Minimum Wall Thickness	90-DEGREE ELBOW Minimum Wall Thickness
	A	B	C	D				
0°	0.439	0.611	0.614	0.663		0.355 INCH	0.510 INCH	0.565 INCH
90°	0.442	0.597	0.612	0.674		0.355 INCH	0.510 INCH	0.565 INCH
180°	0.454	0.636	0.618	0.682		0.355 INCH	0.510 INCH	0.565 INCH
270°	0.445	0.621	0.628	0.687		0.355 INCH	0.510 INCH	0.565 INCH

INSPECTION RESULT

VT & MPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E709 Fluorescent inspection Thread With UltraViolet Light	Note:MPI Wet
DPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E165 Inspection Groove Area	Note:Dye Penetrant
UT	The above item was found acceptable as per Halliburton acceptance criteria Geo-span Ultrasonic Manual Revision K DOC # D00112159	

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504052	CAL DUE DATE	7-Oct-25	White Contrast WCP-2	MANUFACTURE Magnaflu	BATCH NO	230408	EXPIRE DATE	APRIL,2026
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25	Black Magnetic Ink 7HF	MANUFACTURE Magnaflu	BATCH NO	230604	EXPIRE DATE	JUNE,2026
UT THICKNESS GAUGE:	3997	CAL DUE DATE	7-Oct-25	Fluorescent Magnetic Ink 14HF	MANUFACTURE Magnaflu	BATCH NO	230503	EXPIRE DATE	MAY,2026
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	8-Oct-25	Red Penetrant	MANUFACTURE Magnaflu	BATCH NO	230206	EXPIRE DATE	FEB,2026
ASTM Test Block:	1657	CAL DUE DATE	7-Oct-25	Developer	MANUFACTURE Magnaflu	BATCH NO	230608	EXPIRE DATE	JUNE,2026
DC COIL:	22650	CAL DUE DATE	8-Oct-25	Wet FLUORESCENT Particle Concentration 14 HF					0.1 to 0.4 ml/100 ml
COMPARATOR BLOCK	11223	CAL DUE DATE	8-Oct-25	Black Magnetic Ink Concentration 7 HF					1.2 to 2.4 ml/100 ml
INFRARED THERMOMETER	201704125	CAL DUE DATE	7-Oct-25						
UV BLACK LIGHT:	52852	CAL DUE DATE	7-Oct-25						
PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:	15 minutes						
TEST PART TEMPERATURE :	102 °F	WHITE LIGHT INTENSITY:	3620 lux						
UV BLACK LIGHT INTENSITY:	3160 μw/cm²								

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M. Shanzad Ah...	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT, CPVT, VI, ...	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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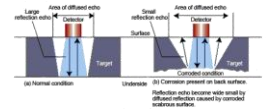
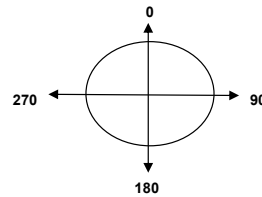
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATE OF VISUAL AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION AND ULTRASONIC THICKNESS GAUGING

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-07-SPERRY-NDT-002
LOCATION:	Sperry (Burjesia Halliburton Camp)	STANDARD :	ASTM E709-21 & ASTM E797-21 & ASTM E165-23, API 6A :2024
WORK ORDER #	328431826	HALL DOC:	GEO-SPAN ULTRASONIC MANUAL, REVISION K DOC # D00112159
DATE OF INSPECTION :	Wednesday, July 9, 2025	Next Inspection Date:	Wednesday, July 8, 2026
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	FLOW DIVERTER HOUSING	GEO-SPAN S.NO	210200 (11058212)
MANUFACTURER:	HES	SERIAL NO:	CP2175245



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

POINTS	A	Minimum Wall Thickness
0°	0.841	0.510 INCH
90°	0.850	
180°	0.858	
270°	0.845	

INSPECTION RESULT

VT & MPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E709 Note:MPI Wet Fluorescent inspection Thread With Ultra Violet Light
DPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E165 Note:Dye Penetrant Inspection Groove Area
UT	The above item was found acceptable as per Halliburton acceptance criteria Geo-span Ultrasonic Manual Revision K DOC # D00112159

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504052	CAL DUE DATE	7-Oct-25	White Contrast WCP 2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25	Black Magnetic Ink 7HF	Magnaflux	230408	APRIL,2026
UT THICKNESS GAUGE:	3997	CAL DUE DATE	7-Oct-25	Fluorescent Magnetic Ink 14HF	Magnaflux	230604	JUNE.2026
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	8-Oct-25	Red Penetrant	Magnaflux	230503	MAY.2026
ASTM Test Block:	1657	CAL DUE DATE	7-Oct-25	Developer	Magnaflux	230206	FEB,2026
DC COIL:	22650	CAL DUE DATE	8-Oct-25	Wet FLUORESCENT Particle Concentration 14 HF	Magnaflux	230608	JUNE,2026
COMPARATOR BLOCK	11223	CAL DUE DATE	8-Oct-25	Black Magnetic Ink Concentration 7 HF			0.1 to 0.4 ml/100 ml
INFRARED THERMOMETER	201704125	CAL DUE DATE	7-Oct-25				1.2 to 2.4 ml/100 ml
UV BLACK LIGHT:	52852	CAL DUE DATE	7-Oct-25				
PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:	15 minutes				
TEST PART TEMPERATURE :	102 °F	WHITE LIGHT INTENSITY:	3620 lux				
UV BLACK LIGHT INTENSITY:	3160 μw/cm ²						

PERSON DETAILS

REVIEW BY

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

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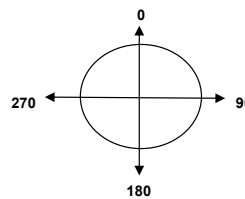
Basra, North Rumaila, Quality Control Yard - Iraq



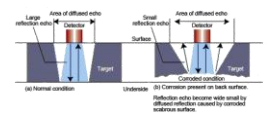
CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-07-SPERRY-NDT-003
LOCATION:	Sperry (Burjesia Halliburton Camp)	STANDARD :	ASTM E709-21 & ASTM E797-21
WORK ORDER #	328431826	HALL DOC:	GEO-SPAN ULTRASONIC MANUAL, REVISION K DOC # D00112159
DATE OF INSPECTION :	Wednesday, July 9, 2025	Next Inspection Date:	Wednesday, July 8, 2026
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	GEO SPAN MANIFOLD	GEO-SPAN S.NO	210200 (11058212)
MANUFACTURER:	HES	SERIAL NO:	CP2141456



ONLINE TRACEABILITY



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

POINTS	A	Minimum Wall Thickness
0°	0.452	0.355 INCH
90°	0.459	
180°	0.469	
270°	0.458	

INSPECTION RESULT

VT & MPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E709 Note:MPI Wet Fluorescent inspection Thread With Ultra Violet Light
UT	The above item was found acceptable as per Halliburton acceptance criteria Geo-span Ultrasonic Manual Revision K DOC # D00112159

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504052	CAL DUE DATE	7-Oct-25	White Contrast WCP 2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25	Black Magnetic Ink 7HF	Magnaflu x	230408	APRIL,2026
UT THICKNESS GAUGE:	3997	CAL DUE DATE	7-Oct-25	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	8-Oct-25	Magnaflu x	Magnaflu x	230604	JUNE,2026
ASTM Test Block:	1657	CAL DUE DATE	7-Oct-25	Wet FLUORESCENT Particle Concentration 14 HF	MANUFACTURE	BATCH NO	EXPIRE DATE
DC COIL:	22650	CAL DUE DATE	8-Oct-25	Magnaflu x	Magnaflu x	230503	MAY,2026
UV BLACK LIGHT:	52852	CAL DUE DATE	7-Oct-25	Black Magnetic Ink Concentration 7 HF	Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml
WHITE LIGHT INTENSITY:	3620 lux	UV BLACK LIGHT INTENSITY:	3160 μw/cm ²	Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml	

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M. Saad Ahmad	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	NDT Level 1, 2, 3, VT, UT	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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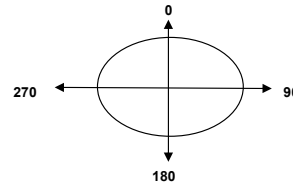
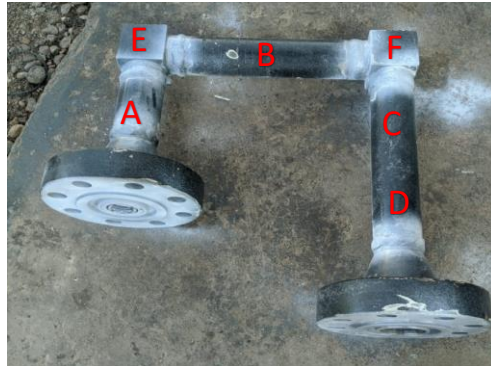
Basra, North Rumaila, Quality Control Yard - Iraq



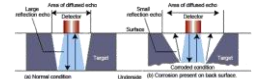
CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION AND ULTRASONIC THICKNESS GAUGING

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-07-SPERRY-NDT-004
LOCATION:	Sperry (Burjesia Halliburton Camp)	STANDARD :	ASTM E709-21 & ASTM E797-21 & ASTM E165-23, API 6A :2024
WORK ORDER #	328431826	HALL DOC:	GEO-SPAN ULTRASONIC MANUAL, REVISION K DOC # D00112159
DATE OF INSPECTION :	Wednesday, July 9, 2025	Next Inspection Date:	Wednesday, July 8, 2026
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	U-SHAPED WELDMENT	GEO-SPAN S.NO	210200 (11058212)
MANUFACTURER:	HES	SERIAL NO:	CP1310178



ONLINE TRACEABILITY



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

POINTS	2" PIPING				90-DEGREE ELBOW		2" PIPING Minimum Wall Thickness	90-DEGREE ELBOW Minimum Wall Thickness
	A	B	C	D	E	F		
0°	0.444	0.453	0.456	0.463	0.569	0.560	0.355 INCH	0.395 INCH
90°	0.451	0.457	0.464	0.450	0.556	0.573	0.355 INCH	0.395 INCH
180°	0.461	0.465	0.463	0.479	0.561	0.568	0.355 INCH	0.395 INCH
270°	0.450	0.453	0.460	0.448	0.535	0.563	0.355 INCH	0.395 INCH

INSPECTION RESULT

VT & MPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E709-21
DPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E165-23 Note:Dye Penetrant Inspection Groove Area
UT	The above item was found acceptable as per Halliburton acceptance criteria Geo-span Ultrasonic Manual Revision K DOC # D00112159

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504052	CAL DUE DATE	7-Oct-25	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25		Magnaflux	230408	APRIL,2026
UT THICKNESS GAUGE:	3997	CAL DUE DATE	7-Oct-25	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	8-Oct-25		Magnaflux	230604	JUNE,2026
ASTM Test Block:	1657	CAL DUE DATE	7-Oct-25	Red Penetrant	MANUFACTURE	BATCH NO	EXPIRE DATE
COMPARATOR BLOCK	11223	CAL DUE DATE	8-Oct-25		Magnaflux	230206	FEB,2026
INFRARED THERMOMETER	201704125	CAL DUE DATE	7-Oct-25	Developer	MANUFACTURE	BATCH NO	EXPIRE DATE
PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:	15 minutes		Magnaflux	230608	JUNE,2026
TEST PART TEMPERATURE :	102 °F	WHITE LIGHT INTENSITY:	3620 lux	Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml	

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M. Shaimaa Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP1	INSPECTION SUPERVISOR:	HANI ALI	ID&SIGN	
SIGNATURE & STAMP:				DATE:	

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AND PROFESSIONAL SAFETY LIMITED**

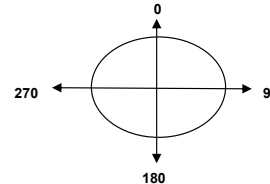
Basra, North Rumaila, Quality Control Yard - Iraq



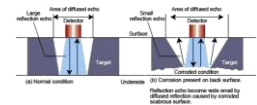
CERTIFICATE OF VISUAL AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION AND ULTRASONIC THICKNESS GAUGING

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-07-SPERRY-NDT-005
LOCATION:	Sperry (Burjesia Halliburton Camp)	STANDARD :	ASTM E709-21 & ASTM E797-21 & ASTM E165-23, API 6A :2024
WORK ORDER #	328431826	HALL DOC:	GEO-SPAN ULTRASONIC MANUAL, REVISION K DOC # D00112159
DATE OF INSPECTION :	Wednesday, July 9, 2025	Next Inspection Date:	Wednesday, July 8, 2026
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	CHOKE INLET WELDMENT	GEO-SPAN S.NO	210200 (11058212)
MANUFACTURER:	HES	SERIAL NO:	CP1301022



ONLINE TRACEABILITY



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

POINTS	2" PIPING		3" PIPING		90-DEGREE ELBOW	2" PIPING Minimum Wall Thickness	3" PIPING Minimum Wall Thickness	90-DEGREE ELBOW Minimum Wall Thickness
	A	B	C	D				
0°	0.438	0.610	0.613	0.696	0.355 INCH	0.510 INCH	0.565 INCH	
90°	0.447	0.602	0.617	0.692	0.355 INCH	0.510 INCH	0.565 INCH	
180°	0.433	0.615	0.617	0.681	0.355 INCH	0.510 INCH	0.565 INCH	
270°	0.450	0.626	0.633	0.680	0.355 INCH	0.510 INCH	0.565 INCH	

INSPECTION RESULT

VT & MPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E709
DPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E165 Note:Dye Penetrant Inspection Groove Area
UT	The above item was found acceptable as per Halliburton acceptance criteria Geo-span Ultrasonic Manual Revision K DOC # D00112159

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504052	CAL DUE DATE	7-Oct-25	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25		Magnaflux	230408	APRIL,2026
UT THICKNESS GAUGE:	3997	CAL DUE DATE	7-Oct-25	Black Magnetic Ink 7HF	MANUFACTUR E	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	8-Oct-25		Magnaflux	230604	JUNE,2026
ASTM Test Block:	1657	CAL DUE DATE	7-Oct-25	Red Penetrant	MANUFACTUR E	BATCH NO	EXPIRE DATE
COMPARATOR BLOCK	11223	CAL DUE DATE	8-Oct-25		Magnaflux	230206	FEB,2026
INFRARED THERMOMETER	201704125	CAL DUE DATE	7-Oct-25	Developer	MANUFACTUR E	BATCH NO	EXPIRE DATE
PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:	15 minutes		Magnaflux	230608	JUNE,2026
TEST PART TEMPERATURE :	102 °F	WHITE LIGHT INTENSITY:	3620 lux	Black Magnetic Ink Concentration 7 HF			1.2 to 2.4 m/100 ml

PERSON DETAILS		REVIEW BY			
INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT, PT, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	H&SIGN	
SIGNATURE & STAMP:				DATE:	

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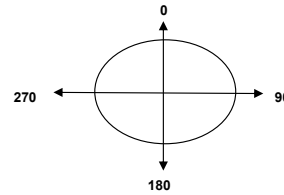
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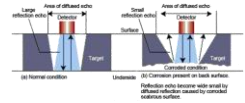
CERTIFICATE OF VISUAL AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION AND ULTRASONIC THICKNESS GAUGING

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-07-SPERRY-NDT-006
LOCATION:	Sperry (Burjesia Halliburton Camp)	STANDARD :	ASTM E709-21 & ASTM E797-21 & ASTM E165-23, API 6A :2024
WORK ORDER #	328431826	HALL DOC:	GEO-SPAN ULTRASONIC MANUAL, REVISION K DOC # D00112159
DATE OF INSPECTION :	Wednesday, July 9, 2025	Next Inspection Date:	Wednesday, July 8, 2026
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	Downstream Orifice Piping Run	GEO-SPAN S.NO	210200 (11058212)
MANUFACTURER:	HES	SERIAL NO:	210200-3



ONLINE TRACEABILITY



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

POINTS	2" PIPING					90-DEGREE ELBOW	2" PIPING Minimum Wall Thickness	90-DEGREE ELBOW Minimum Wall Thickness
	A	B	C	D	E	F		
0°	0.457	0.464	0.467	0.451	0.466	0.555	0.355 INCH	0.395 INCH
90°	0.466	0.472	0.477	0.483	0.487	0.574	0.355 INCH	0.395 INCH
180°	0.458	0.462	0.471	0.474	0.479	0.586	0.355 INCH	0.395 INCH
270°	0.463	0.466	0.473	0.482	0.486	0.568	0.355 INCH	0.395 INCH

INSPECTION RESULT

VT & MPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E709
DPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E165 Note:Dye Penetrant Inspection Groove Area
UT	The above item was found acceptable as per Halliburton acceptance criteria Geo-span Ultrasonic Manual Revision K DOC # D00112159

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504052	CAL DUE DATE	7-Oct-25	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25		Magnaflux	230408	APRIL,2026
UT THICKNESS GAUGE:	3997	CAL DUE DATE	7-Oct-25	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	8-Oct-25		Magnaflux	230604	JUNE,2026
ASTM Test Block:	1657	CAL DUE DATE	7-Oct-25	Red Penetrant	MANUFACTURE	BATCH NO	EXPIRE DATE
COMPARATOR BLOCK	11223	CAL DUE DATE	8-Oct-25		Magnaflux	230206	FEB,2026
INFRARED THERMOMETER	201704125	CAL DUE DATE	7-Oct-25	Developer	MANUFACTURE	BATCH NO	EXPIRE DATE
PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:	15 minutes		Magnaflux	230608	JUNE,2026
TEST PART TEMPERATURE :	102 °F	WHITE LIGHT INTENSITY:	3620 lux	Black Magnetic Ink Concentration 7 HF			1.2 to 2.4 ml/100 ml

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	M. Shabaz Ali	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CPVT, UT, MPI, VT	INSPECTION SUPERVISOR:	HANI ALI	HS&SIGN	
SIGNATURE & STAMP:				DATE:	

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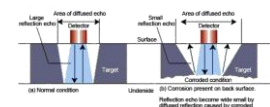
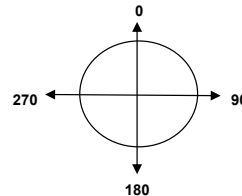
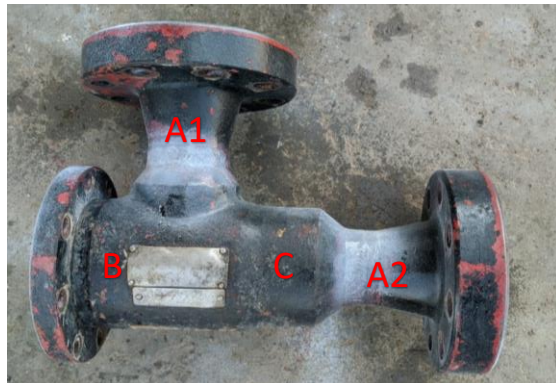
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATE OF VISUAL AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION AND ULTRASONIC THICKNESS GAUGING

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-07-SPERRY-NDT-007
LOCATION:	Sperry (Burjesia Halliburton Camp)	STANDARD :	ASTM E709-21 & ASTM E797-21 & ASTM E165-23, API 6A :2024
WORK ORDER #	328431826	HALL DOC:	GEO-SPAN ULTRASONIC MANUAL, REVISION K DOC # D00112159
DATE OF INSPECTION :	Wednesday, July 9, 2025	Next Inspection Date:	Wednesday, July 8, 2026
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE & DYE PENETRANT INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	CHOKE VALVE BODY	GEO-SPAN S.NO	210200 (11058212)
MANUFACTURER:	HES	SERIAL NO:	213016-03-01



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

POINTS	A1	A2	B	C	Location A Minimum Wall Thickness	Location B Minimum Wall Thickness	Location C Minimum Wall Thickness
0°	0.443	0.452	0.964	0.866	0.400 INCH	0.800 INCH	0.700 INCH
90°	0.450	0.437	0.943	0.841	0.400 INCH	0.800 INCH	0.700 INCH
180°	0.457	0.464	0.950	0.833	0.400 INCH	0.800 INCH	0.700 INCH
270°	0.449	0.458	0.946	0.859	0.400 INCH	0.800 INCH	0.700 INCH

INSPECTION RESULT

VT & MPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E709
DPI	The Above Item Was Found Acceptable At The Time Of Inspection Accordance To ASTM E165 Note:Dye Penetrant Inspection Groove Area
UT	The above item was found acceptable as per Halliburton acceptance criteria Geo-span Ultrasonic Manual Revision K DOC # D00112159

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504052	CAL DUE DATE	7-Oct-25	White Contrast WCP-2	MANUFACTURER	Magnaflux	BATCH NO	230408	EXPIRE DATE	APRIL,2026
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25	Black Magnetic Ink 7HF	MANUFACTURE	Magnaflux	BATCH NO	230604	EXPIRE DATE	JUNE,2026
UT THICKNESS GAUGE:	3997	CAL DUE DATE	7-Oct-25		Red Penetrant	MANUFACTURE	Magnaflux	BATCH NO	230206	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	8-Oct-25	Developer		MANUFACTURE	Magnaflux	BATCH NO	230608	EXPIRE DATE
ASTM Test Block:	1657	CAL DUE DATE	7-Oct-25		Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml			
COMPARATOR BLOCK	11223	CAL DUE DATE	8-Oct-25							
INFRARED THERMOMETER	201704125	CAL DUE DATE	7-Oct-25							
PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:	15 minutes							
TEST PART TEMPERATURE :	102 °F	WHITE LIGHT INTENSITY:	3620 lux							

PERSON DETAILS

REVIEW BY


INSPECTOR NAME:	M.Sherif	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP-101, MT, PT, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

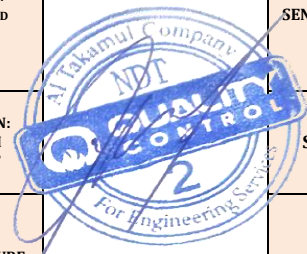
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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE & DYE PENETRANT INSPECTION											
Client:		HALLIBURTON			Report No:		QC-25-07-SPERRY-NDT-008				
Location:		Sperry (Burjesia Halliburton Camp)			WORK ORDER NO:		328431826				
Inspection Date:		Wednesday, July 9, 2025			Next Inspection Date:		Wednesday, July 8, 2026				
Type Of Inspection:		VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE & DYE PENETRANT INSPECTION			Specification:		ASTM E709-21 & ASTM E165-23, API 6A :2024				
				UNIT DESCRIPTION:		INLET FLANGE 2 1/16" 10K BX152 X 2" 1502 THREAD					
				UNIT S/N:		CP1340532					
				GEO-SPAN S.NO		210200 (11058212)					
				INSPECTION RESULT :							
				VISUAL , THOROUGH EXAMINATION		Above Item fully inspected and found freedom from deforms, cracks, corrosion & mechanical damage					
				MAGNETIC PARTICLE INSPECTION (MPI)		Thread & Available critical areas inspected and found free from cracks and other defects'					
				DYE PENETRANT INSPECTION (DPI)		Groove areas inspected and found free from cracks and other defects'					
FINAL RESULTS		Above Item found satisfactory and free of defects at the time of inspection									
TECHNICAL DETAILS DPI											
TECHNIQUE 2 - TYPE II VISIBLE, METHOD 'A' WATER - WASHABLE											
PENETRANT DWELL TIME:		30 minutes		DEVELOPER DWELL TIME:		15 minutes					
TEST PART TEMPERATURE :		102 °F		WHITE LIGHT INTENSITY:		3620 LUX					
COMMENT:											
(MPI Wet Fluorescent inspection Thread With UltraViolet Light) Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast Dye Penetrant Inspection Groove Area											
EQUIPMENT DETAILS					PERSON DETAILS			REVIEW BY			
EQUIPMENT :		AC/DC HAND Yoke		EQUIPMENT :		Shooting Coil DC		EQUIPMENT :		UV BLACK LIGHT: 3160 μw/cm ²	
S.NO:		201504052		S.NO:		22650		S.NO:		52852	
Cal Due Date:		07.OCT.2025		Cal Due Date:		08.OCT.2025		Cal Due Date:		07.OCT.2025	
EQUIPMENT :		COMPARATOR BLOCK		EQUIPMENT :		Pressure Gauge 30 PSI		EQUIPMENT :		INFRARED THERMOMETER	
S.NO:		11223		S.NO:		SSR825		S.NO:		201704125	
Cal Due Date:		08.OCT.2025		Cal Due Date:		07.OCT.2025		Cal Due Date:		07.OCT.2025	
Red Penetrant Manufacture:		Magnaflux		Batch No:		230206		EXPIRE DATE:		FEB,2026	
Developer Manufacture:		Magnaflux		Batch No:		230608		EXPIRE DATE:		JUNE,2026	
FLUORESCENT 14HF		Magnaflux		Batch No:		230503		EXPIRE DATE:		MAY.2026	
White Contrast Paint Manufacture:		Magnaflux		Batch No:		230408		EXPIRE DATE:		APRIL,2026	
Digital Lux Meter		TECHNICAL DETAILS					Black Magnetic Ink Manufacture:7HF				
S.NO:2722003		Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml			Batch No:230604				
Cal Due Date:09.OCT.2025		Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml			EXPIRE DATE: JUNE.2026				
INSPECTOR NAME:		M.SHAHZAD AHMED		SENIOR INSPECTOR:		NAVEED HUSSAIN		SUPERVISOR:		HANI ALI	
QUALIFICATION:		ASNT LEVEL II MT & PT & VT		CLIENT:				STAMP & SIGNATURE:			

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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE & DYE PENETRANT INSPECTION									
Client: HALLIBURTON			Report No: QC-25-07-SPERRY-NDT-009						
Location: Sperry (Burjesia Halliburton Camp)			WORK ORDER NO: 328431826						
Inspection Date: Wednesday, July 9, 2025			Next Inspection Date: Wednesday, July 8, 2026						
Type Of Inspection: VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE & DYE PENETRANT INSPECTION			Specification: ASTM E709-21 & ASTM E165-23 & API 6A :2024						
			UNIT DESCRIPTION: OUTLET FLANGE 2 1/16" 10K BX152 X 2" 1502 THREAD						
			UNIT S/N: CP1340502						
			GEO-SPAN S.NO 210200 (11058212)						
			INSPECTION RESULT :						
			VISUAL , THOROUGH EXAMINATION Above Item fully inspected and found freedom from deforms, cracks, corrosion & mechanical damage						
MAGNETIC PARTICLE INSPECTION (MPI) Thread & Available critical areas inspected and found free from cracks and other defects'									
DYE PENETRANT INSPECTION (DPI) Groove areas inspected and found free from cracks and other defects'									
FINAL RESULTS Above Item found satisfactory and free of defects at the time of inspection									
TECHNICAL DETAILS DPI									
TECHNIQUE 2 - TYPE II VISIBLE, METHOD 'A' WATER -WASHABLE									
PENETRANT DWELL TIME: 30 minutes		DEVELOPER DWELL TIME: 15 minutes		COMMENT: (MPI Wet Fluorescent inspection Thread With UltraViolet Light) Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast Dye Penetrant Inspection Groove Area					
TEST PART TEMPERATURE : 102 °F		WHITE LIGHT INTENSITY: 3620 LUX							
EQUIPMENT DETAILS									
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3160 µw/cm ²				
S.NO:	201504052	S.NO:	22650	S.NO:	52852				
Cal Due Date:	07.OCT.2025	Cal Due Date:	08.OCT.2025	Cal Due Date:	07.OCT.2025				
EQUIPMENT :	COMPARATOR BLOCK	EQUIPMENT :	Pressure Gauge 30 PSI	EQUIPMENT :	INFRARED THERMOMETER				
S.NO:	11223	S.NO:	SSR825	S.NO:	201704125				
Cal Due Date:	08.OCT.2025	Cal Due Date:	07.OCT.2025	Cal Due Date:	07.OCT.2025				
Red Penetrant Manufacture:	Magnaflux	Batch No:	230206	EXPIRE DATE:	FEB,2026				
Developer Manufacture:	Magnaflux	Batch No:	230608	EXPIRE DATE:	JUNE,2026				
FLUORESCENT 14HF	Magnaflux	Batch No:	230503	EXPIRE DATE:	MAY,2026				
White Contrast Paint Manufacture:	Magnaflux	Batch No:	230408	EXPIRE DATE:	APRIL,2026				
Digital Lux Meter	TECHNICAL DETAILS			Black Magnetic Ink Manufacture:7HF					
S.NO:2722003	Wet FLUORESCENT Particle Concentration 14 HF	0.1 to 0.4 ml/100 ml		Batch No:230604					
Cal Due Date:09.OCT.2025	Black Magnetic Ink Concentration 7 HF	1.2 to 2.4 ml/100 ml		EXPIRE DATE: JUNE.2026					
PERSON DETAILS			REVIEW BY						
INSPECTOR NAME: M.SHAHZAD AHMED			SENIOR INSPECTOR: NAVEED HUSSAIN						
QUALIFICATION: ASNT LEVEL II MT & PT & VT			SUPERVISOR: HANI ALI						
STAMP & SIGNATURE:			CLIENT:						






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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	Report No:	QC-25-07-SPERRY-NDT-010	
Location:	Sperry (Burjesia Halliburton Camp)	WORK ORDER NO:	328431826	
Inspection Date:	Wednesday, July 9, 2025	Next Inspection Date:	Wednesday, July 8, 2026	
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709-21	
	UNIT DESCRIPTION:	TURNING FORK (GEO-SPAN)		
	UNIT S/N:	210200-4		
	GEO-SPAN S.NO	210200 (11058212)		
	INSPECTION RESULT :			
	VISUAL , THOROUGH EXAMINATION	Above Item fully inspected and found freedom from deforms, cracks, corrosion & mechanical damage		
	MAGNETIC PARTICLE INSPECTION	Full Body areas inspected and found free from cracks and other defects		
	FINAL RESULTS	Above Item found satisfactory and free of defects at the time of inspection		
COMMENT:				
Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast				

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			QUALIFICATION: ASNT LEVEL II MT & PT & VT	SUPERVISOR:
Cal Due Date:	7-Oct-25	Cal Due Date:	9-Oct-25	Cal Due Date:	7-Oct-25	STAMP & SIGNATURE:		CLIENT:	
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	230604	Expiry Date:	JUNE,2026				
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	230408	Expiry Date:	APRIL,2026				
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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**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			Report No:	QC-25-07-SPERRY-NDT-011				
Location:	Sperry (Burjesia Halliburton Camp)			WORK ORDER NO:	328431826				
Inspection Date:	Wednesday, July 9, 2025			Next Inspection Date:	Wednesday, July 8, 2026				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION			Specification:	ASTM E709-21				
				UNIT DESCRIPTION:	MANIFOLD NUT (GEO-SPAN)				
				UNIT S/N:	210200-5				
				GEO-SPAN S.NO	210200 (11058212)				
				INSPECTION RESULT :					
				VISUAL , THOROUGH EXAMINATION	Above Item fully inspected and found freedom from deforms, cracks, corrosion & mechanical damage				
				MAGNETIC PARTICLE INSPECTION	Thread & Body areas inspected and found free from cracks and other defects				
				FINAL RESULTS	Above Item 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									
EQUIPMENT DETAILS				PERSON DETAILS		REVIEW BY			
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3160 μw/cm²	INSPECTOR NAME:	M.SHAHZAD AHMED	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.NO:	201504052	S.NO:	22650	S.NO:	52852	QUALIFICATION:	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
Cal Due Date:	07.OCT.2025	Cal Due Date:	08.OCT.2025	Cal Due Date:	07.OCT.2025		STAMP & SIGNATURE:	CLIENT:	
FLUORESCENT 14HF	Magnaflux	Batch No:	230503	EXPIRE DATE:	MAY.2026				
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	230408	EXPIRE DATE:	APRIL.2026				
TECHNICAL DETAILS			Black Magnetic Ink Manufacture:7HF						
Digital Lux Meter WHITE LIGHT INTENSITY:			Batch No:230604						
3610 Lux/S.NO:2722003	Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml						
Cal Due Date:09.OCT.2025	Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE:	JUNE.2026			

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Address; Noth Rumaila, Al Takamul Yard
Contact: +9647810009138



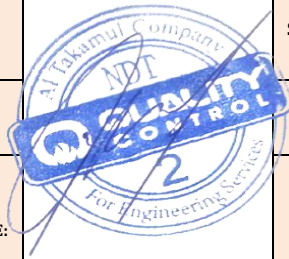
Tel: +9647810009138 / +9647834964657

Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com

**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			Report No:	QC-25-07-SPERRY-NDT-012				
Location:	Sperry (Burjesia Halliburton Camp)			WORK ORDER NO:	328431826				
Inspection Date:	Wednesday, July 9, 2025			Next Inspection Date:	Wednesday, July 8, 2026				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION			Specification:	ASTM E709-21				
				UNIT DESCRIPTION:	SBP-PLUG (GEO-SPAN)				
				UNIT S/N:	210200-6				
				GEO-SPAN S.NO	210200 (11058212)				
				INSPECTION RESULT :					
				VISUAL , THOROUGH EXAMINATION	Above Item fully inspected and found freedom from deforms, cracks, corrosion & mechanical damage				
				MAGNETIC PARTICLE INSPECTION	Thread & Body areas inspected and found free from cracks and other defects				
				FINAL RESULTS	Above Item 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									
EQUIPMENT DETAILS				PERSON DETAILS		REVIEW BY			
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3160 μw/cm ²	INSPECTOR NAME:	M.SHAHZAD AHMED	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.NO:	201504052	S.NO:	22650	S.NO:	52852	QUALIFICATION:	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
Cal Due Date:	07.OCT.2025	Cal Due Date:	08.OCT.2025	Cal Due Date:	07.OCT.2025			CLIENT:	
FLUORESCENT 14HF	Magnaflux	Batch No:	230503	EXPIRE DATE:	MAY.2026				
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	230408	EXPIRE DATE:	APRIL.2026				
Black Magnetic Ink Manufacture:7HF			Batch No:230604	EXPIRE DATE:	JUNE.2026				
TECHNICAL DETAILS									
Digital Lux Meter WHITE LIGHT INTENSITY:									
3610 Lux/S.NO:2722003	Wet FLUORESCENT Particle Concentration 14 HF	0.1 to 0.4 ml/100 ml							
Cal Due Date:09.OCT.2025	Black Magnetic Ink Concentration 7 HF	1.2 to 2.4 ml/100 ml							

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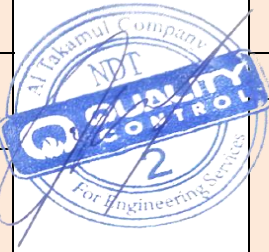
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AND PROFESSIONAL SAFETY LIMITED
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL THOROUGH EXAMINATION & DYE PENETRANT INSPECTION

Client:	HALLIBURTON	Report No:	QC-25-07-SPERRY-NDT-013
Location:	Sperry (Burjesia Halliburton Camp)	WORK ORDER NO:	328431826
Inspection Date:	Wednesday, July 9, 2025	Next Inspection Date:	Wednesday, July 8, 2026
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)	Specification:	ASTM E165-23
	UNIT DESCRIPTION:	FLOW DIVERTER (GEO-SPAN)	
	UNIT S/N:	210200-7	
	GEO-SPAN S.NO	210200 (11058212)	
	INSPECTION RESULT :		
	VISUAL , THOROUGH EXAMINATION	Above Item fully inspected and found freedom from deforms, cracks, corrosion & mechanical damage	
	DYE PENETRANT INSPECTION (DPI)	forgn areas inspected and found freedom from cracks and other defects	
	FINAL RESULTS	Above Item found satisfactory and free of defects at the time of inspection	
	TECHNICAL DETAILS		
	TECHNIQUE 2 - TYPE II VISIBLE, METHOD 'A' WATER -WASHABLE		
	PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:
Test Part Temperature:	102 °F	WHITE LIGHT INTENSITY:	3620 LUX




EQUIPMENT DETAILS						PERSONNEL DETAILS		REVIEW BY	
EQUIPMENT :	COMPARATOR BLOCK	EQUIPMENT :	Digital Lux Meter	EQUIPMENT :	INFRARED THERMOMETER	INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.N:	11223	S.N:	2722003	S.N:	201704125	QUALIFICATION:	ASNT LEVEL II MT & PT& VT & UT	SUPERVISOR:	HANI ALI
Cal Due Date:	8-Oct-2025	Cal Due Date:	9-Oct-2025	Cal Due Date:	7-Oct-2025	SIGNATURE:		CLIENT:	
Red Penetrant Manufacture:	Magnaflux	Batch No:	230206	EXPIRE DATE:	FEB,2026				
Developer Manufacture:	Magnaflux	Batch No:	230608	EXPIRE DATE:	JUNE,2026				
WATER PRESSURE	30 PSI	P. GAUGE	SSR825	DUE CAL DATE:	7-Oct-2025				

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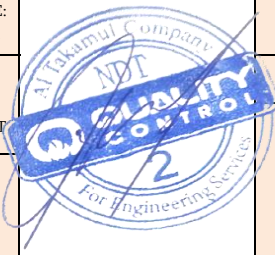
AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL THOROUGH EXAMINATION & DYE PENETRANT INSPECTION

Client:	HALLIBURTON	Report No:	QC-25-07-SPERRY-NDT-014
Location:	Sperry (Burjesia Halliburton Camp)	WORK ORDER NO:	328431826
Inspection Date:	Wednesday, July 9, 2025	Next Inspection Date:	Wednesday, July 8, 2026
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)	Specification:	ASTM E165-23
	UNIT DESCRIPTION:	FRONT DISC (GEO-SPAN)	
	UNIT S/N:	210200-8	
	GEO-SPAN S.NO	210200 (11058212)	
	INSPECTION RESULT :		
	VISUAL , THOROUGH EXAMINATION	Above Item fully inspected and found freedom from deforms, cracks, corrosion & mechanical damage	
	DYE PENETRANT INSPECTION (DPI)	forgn areas inspected and found freedom from cracks and other defects	
	FINAL RESULTS	Above Item found satisfactory and free of defects at the time of inspection	
	TECHNICAL DETAILS		
	TECHNIQUE 2 - TYPE II VISIBLE, METHOD 'A' WATER -WASHABLE		
	PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:
Test Part Temperature:	102 °F	WHITE LIGHT INTENSITY:	3620 LUX




EQUIPMENT DETAILS						PERSONNEL DETAILS		REVIEW BY	
EQUIPMENT :	COMPARATOR BLOCK	EQUIPMENT :	Digital Lux Meter	EQUIPMENT :	INFRARED THERMOMETER	INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.N:	11223	S.N:	2722003	S.N:	201704125	QUALIFICATION:	ASNT LEVEL II MT & PT& VT & UT	SUPERVISOR:	HANI ALI
Cal Due Date:	8-Oct-2025	Cal Due Date:	9-Oct-2025	Cal Due Date:	7-Oct-2025	SIGNATURE:		CLIENT:	
Red Penetrant Manufacture:	Magnaflux	Batch No:	230206	EXPIRE DATE:	FEB,2026				
Developer Manufacture:	Magnaflux	Batch No:	230608	EXPIRE DATE:	JUNE,2026				
WATER PRESSURE	30 PSI	P. GAUGE	SSR825	DUE CAL DATE:	7-Oct-2025				

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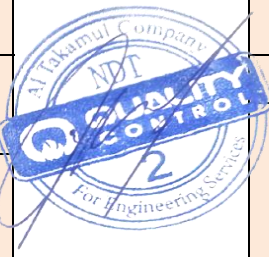
AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL THOROUGH EXAMINATION & DYE PENETRANT INSPECTION

Client:	HALLIBURTON	Report No:	QC-25-07-SPERRY-NDT-015
Location:	Sperry (Burjesia Halliburton Camp)	WORK ORDER NO:	328431826
Inspection Date:	Wednesday, July 9, 2025	Next Inspection Date:	Wednesday, July 8, 2026
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)	Specification:	ASTM E165-23
	UNIT DESCRIPTION:	BACK DISC (GEO-SPAN)	
	UNIT S/N:	210200-9	
	GEO-SPAN S.NO	210200 (11058212)	
	INSPECTION RESULT :		
	VISUAL , THOROUGH EXAMINATION	Above Item fully inspected and found freedom from deforms, cracks, corrosion & mechanical damage	
	DYE PENETRANT INSPECTION (DPI)	forgn areas inspected and found freedom from cracks and other defects	
	FINAL RESULTS	Above Item found satisfactory and free of defects at the time of inspection	
	TECHNICAL DETAILS		
	TECHNIQUE 2 - TYPE II VISIBLE, METHOD 'A' WATER -WASHABLE		
	PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:
Test Part Temperature:	102 °F	WHITE LIGHT INTENSITY:	3620 LUX



EQUIPMENT DETAILS						PERSONNEL DETAILS		REVIEW BY	
EQUIPMENT :	COMPARATOR BLOCK	EQUIPMENT :	Digital Lux Meter	EQUIPMENT :	INFRARED THERMOMETER	INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.N:	11223	S.N:	2722003	S.N:	201704125	QUALIFICATION:	ASNT LEVEL II MT & PT& VT & UT	SUPERVISOR:	HANI ALI
Cal Due Date:	8-Oct-2025	Cal Due Date:	9-Oct-2025	Cal Due Date:	7-Oct-2025	SIGNATURE:		CLIENT:	
Red Penetrant Manufacture:	Magnaflux	Batch No:	230206	EXPIRE DATE:	FEB,2026				
Developer Manufacture:	Magnaflux	Batch No:	230608	EXPIRE DATE:	JUNE,2026				
WATER PRESSURE	30 PSI	P. GAUGE	SSR825	DUE CAL DATE:	7-Oct-2025				

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Object data:

Description: Geospan
 Part no.: N/A
 Serial no.: 210200 (11058212)
 Working pressure: 10KPSI
 Test pressure: 10KPSI
 Extra information: Body Test

Test data:

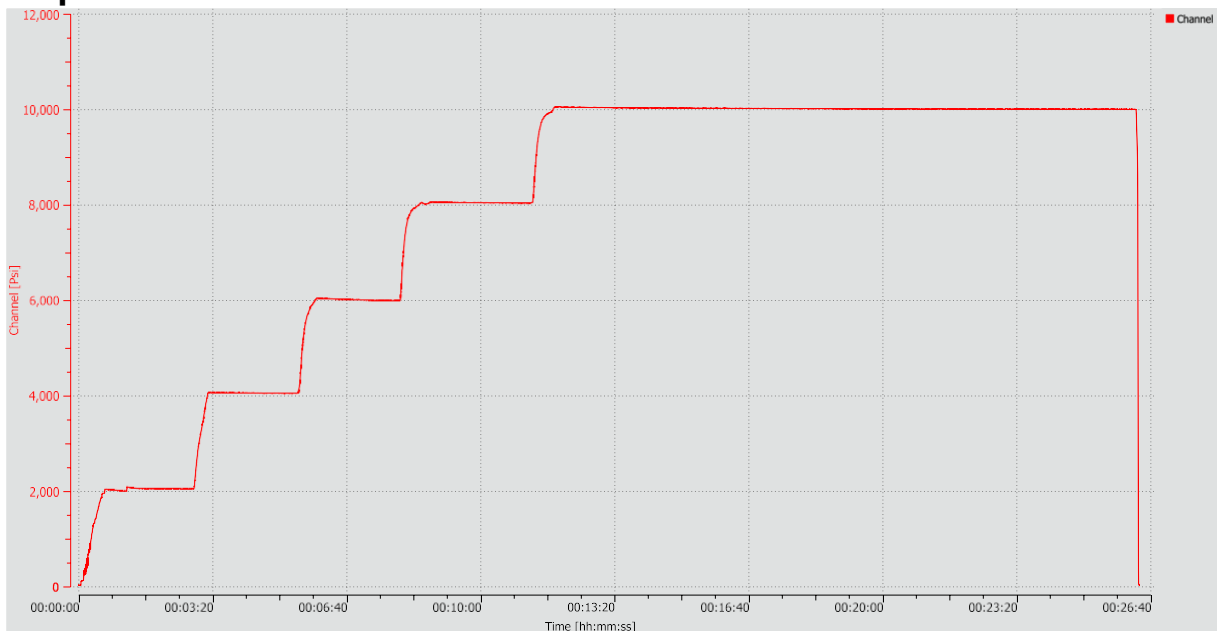
Start pressure: 00:00:03.498
 Stop pressure: 00:26:24.043
 Test time: 00:26:20.545
 Pressure drop:
 Peak pressure:
 Temperature drop:
 Peak temperature:

Contact information:

Contact: Sperry
 Rig: N/A
 Well: N/A
 Job no.: 328431826

Comments:

Graph:



Test start: 02-09-2025
 Test end: 02-09-2025

Device serial number:
 Calibration date: 13-Apr-2026
 Location: DME Work Shop
 Range: 25.500 Psi

Tested by: Hussein Ali
 Witnessed by: Quality Control
 Approved by: N/A
 Verification body: N/A

Signature:

