

AI TAKAMUL COMPANY FOR ENGINEERING SERVICE

Quality Control - Iraq

Basra, North Rumaila, Quality Control Yard - Iraq: Tel: +9647810009138 / +9647834964657

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

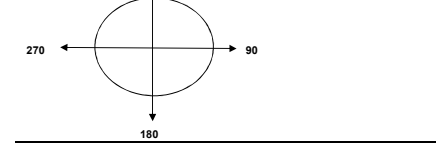
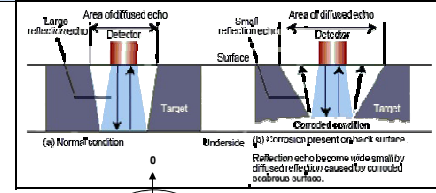
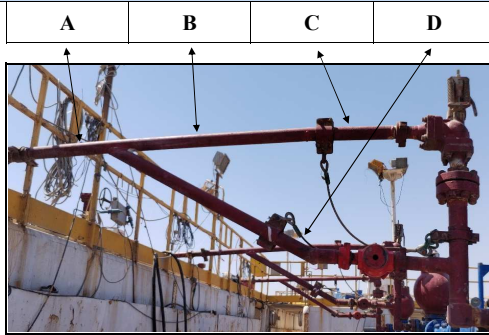


CERTIFICATE FOR QUALIFICATION ULTRASONIC WALL THICKNESS MEASUREMENT

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	Zhongman Petroleum Engineering Technology Service (Hong Kong) Co. Limited Iraq Branch:	REPORT No:	QC-ZPEC-05-24-0165-007
RIG & LOCATION:	ZPEC 25 / AW 66	JOB NO:	QC-ZPEC-05-24-0165
INSPECTION DATE:	23-May-2024	DUE DATE:	AS PER CLIENT
UNIT NAME:	MUD PUMP (1) PRV BLEED OFF LINE	MFG SERIAL NO:	121220703
DESCRIPTION:	2" 1502 X 5K	SPECIFICATION:	ASTM E 797
TYPE OF INSPECTION:	VISUAL INSPECTION AND ULTRASONIC WALL THICKNESS MEASUREMENT:		

INSPECTION DETAILS:



A: 0° 12'O CLOCK / FORWARD:
 B: 90° 3'O 90° CLOCK / CENTER:
 C: 180° 6'O CLOCK / AFT:
 D: 270° 9'O CLOCK / PORT:
 ***ALL READINGS IN MM:
 ***MINIMUM THICKNESS PROVIDED BY CLIENT:

ANGLE:	THICKNESS AT POSITION:					REMARKS
	A	B	C	D	MIN: THICKNESS	
0°	11.270	11.732	11.631	11.630	8 mm	ACCEPTED
90°	11.590	11.050	11.951	11.485	8 mm	ACCEPTED
180°	11.249	10.709	11.610	11.750	8 mm	ACCEPTED
270°	11.051	10.511	11.412	11.539	8 mm	ACCEPTED

INSPECTION RESULT:

VT & UT	Accepted	***UT-The Above Item Was Found Acceptable As Per ASME SECTION V ARTICLE 5,10 & 27 Acceptance Criteria and ZPEC OEM Data Book...
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Inspection Evaluation:

As Per OEM, The Readings Were Found Under The Acceptance Criteria At The Time of Inspection.

INSPECTION EQUIPMENT DETAILS:

Digital Lux Meter White Light: 3375 lux:	2722003	CAL DUE DATE:	14-Oct-2024
UT THICKNESS GAUGE:	5500391	CAL DUE DATE:	14-Oct-2024
UT TEST BLOCK:	NoBo5088	CAL DUE DATE:	14-Oct-2024

PERSON DETAILS:

REVIEW BY:

CLIENT:

INSPECTOR NAME:	Syed Aamir Ali	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	ZPEC
QUALIFICATION:	ASNT LEVEL II VT,MT,PT,UT	INSPECTION SUPERVISOR:	RAO SUHAIL	Online Traceability	
SIGNATURE & STAMP:					



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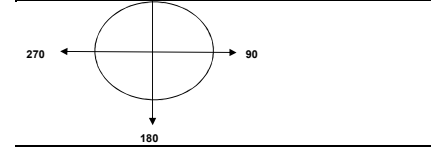
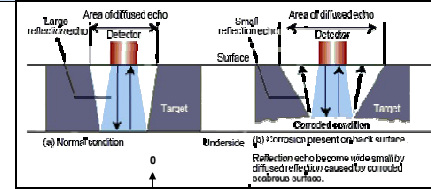
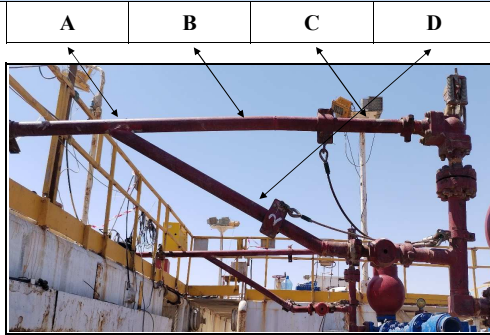


CERTIFICATE FOR QUALIFICATION ULTRASONIC WALL THICKNESS MEASUREMENT

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	Zhongman Petroleum Engineering Technology Service (Hong Kong) Co. Limited Iraq Branch:	REPORT No:	QC-ZPEC-05-24-0165-008
RIG & LOCATION:	ZPEC 25 / AW 66	JOB NO:	QC-ZPEC-05-24-0165
INSPECTION DATE:	23-May-2024	DUE DATE:	AS PER CLIENT
UNIT NAME:	MUD PUMP (2) PRV BLEED OFF LINE	MFG SERIAL NO:	1579207
DESCRIPTION:	2" 1502 X 5K	SPECIFICATION:	ASTM E 797
TYPE OF INSPECTION:	VISUAL INSPECTION AND ULTRASONIC WALL THICKNESS MEASUREMENT:		

INSPECTION DETAILS:



A: 0° 12'O CLOCK / FORWARD;
 B: 90° 3'O 90° CLOCK / CENTER;
 C: 180° 6'O CLOCK / AFT;
 D: 270° 9'O CLOCK / PORT;
 ***ALL READINGS IN MM:
 ***MINIMUM THICKNESS PROVIDED BY CLIENT:

ANGLE:	THICKNESS AT POSITION:					REMARKS
	A	B	C	D	MIN: THICKNESS	
0°	11.470	11.932	11.831	11.630	8 mm	ACCEPTED
90°	11.790	11.050	11.790	11.485	8 mm	ACCEPTED
180°	11.449	10.709	11.449	11.750	8 mm	ACCEPTED
270°	11.251	11.370	11.251	11.539	8 mm	ACCEPTED

INSPECTION RESULT:

VT & UT	Accepted	***UT-The Above Item Was Found Acceptable As Per ASME SECTION V ARTICLE 5,10 & 27 Acceptance Criteria and ZPEC OEM Data Book...
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Inspection Evaluation:

As Per OEM, The Readings Were Found Under The Acceptance Criteria At The Time of Inspection.

INSPECTION EQUIPMENT DETAILS:

Digital Lux Meter White Light: 3375 lux:	2722003	CAL DUE DATE:	14-Oct-2024
UT THICKNESS GAUGE:	5500391	CAL DUE DATE:	14-Oct-2024
UT TEST BLOCK:	NoBo5088	CAL DUE DATE:	14-Oct-2024

PERSON DETAILS:

REVIEW BY:

CLIENT:

INSPECTOR NAME:	Syed Aamir Ali	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	ZPEC
QUALIFICATION:	ASNT LEVEL II VT,MT,PT,UT	INSPECTION SUPERVISOR:	RAO SUHAIL	Online Traceability	
SIGNATURE & STAMP:					



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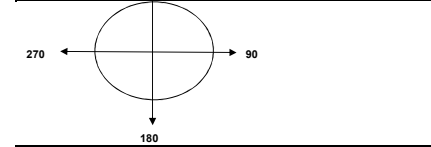
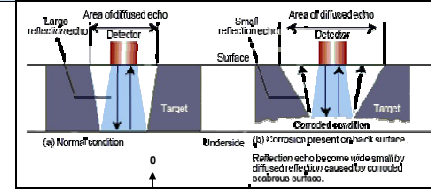
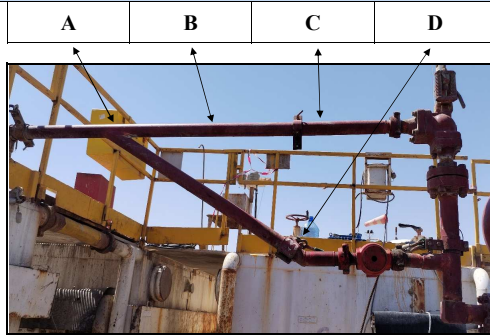


CERTIFICATE FOR QUALIFICATION ULTRASONIC WALL THICKNESS MEASUREMENT

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	Zhongman Petroleum Engineering Technology Service (Hong Kong) Co. Limited Iraq Branch:	REPORT No:	QC-ZPEC-05-24-0165-009
RIG & LOCATION:	ZPEC 25 / AW 66	JOB NO:	QC-ZPEC-05-24-0165
INSPECTION DATE:	23-May-2024	DUE DATE:	AS PER CLIENT
UNIT NAME:	MUD PUMP (3) PRV BLEED OFF LINE	MFG SERIAL NO:	13262051
DESCRIPTION:	2" 1502 X 5K	SPECIFICATION:	ASTM E 797
TYPE OF INSPECTION:	VISUAL INSPECTION AND ULTRASONIC WALL THICKNESS MEASUREMENT:		

INSPECTION DETAILS:



A: 0° 12'O CLOCK / FORWARD;
 B: 90° 3'O 90° CLOCK / CENTER;
 C: 180° 6'O CLOCK / AFT;
 D: 270° 9'O CLOCK / PORT;
 ***ALL READINGS IN MM:
 ***MINIMUM THICKNESS PROVIDED BY CLIENT:

ANGLE:	THICKNESS AT POSITION:					REMARKS
	A	B	C	D	MIN: THICKNESS	
0°	11.570	11.390	11.289	11.630	8 mm	ACCEPTED
90°	11.890	11.050	11.609	11.485	8 mm	ACCEPTED
180°	11.549	10.709	11.268	11.750	8 mm	ACCEPTED
270°	11.351	11.530	11.070	11.539	8 mm	ACCEPTED

INSPECTION RESULT:

VT & UT	Accepted	***UT-The Above Item Was Found Acceptable As Per ASME SECTION V ARTICLE 5,10 & 27 Acceptance Criteria and ZPEC OEM Data Book...
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Inspection Evaluation:

As Per OEM, The Readings Were Found Under The Acceptance Criteria At The Time of Inspection.

INSPECTION EQUIPMENT DETAILS:

Digital Lux Meter White Light: 3375 lux:	2722003	CAL DUE DATE:	14-Oct-2024
UT THICKNESS GAUGE:	5500391	CAL DUE DATE:	14-Oct-2024
UT TEST BLOCK:	NoBo5088	CAL DUE DATE:	14-Oct-2024

PERSON DETAILS:

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INSPECTOR NAME:	Syed Aamir Ali	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	ZPEC
QUALIFICATION:	ASNT LEVEL II VT,MT,PT,UT	INSPECTION SUPERVISOR:	RAO SUHAIL	Online Traceability	
SIGNATURE & STAMP:					

