Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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





CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client Name:	HALLIBURTON	Location:	HPS YARD	Job Number:	QC/24/HALL-0206A-01
Date of Examination:	02/06/2024	Due Date:	01/12/2024	Certificate No:	020624
Serial No:		Final Remarks			
ISA01	A	Satisfactory			
Type of Inspection	Visual & Magnetic Particle Inspection				
Reference Standard	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				



VISUAL, THOROUGH EXAMINATION	The above-mentioned equipment is visually Inspected and Found Free from Deformations, Corrosion, And Other Defects.	
MAGNETIC PARTICLE INSPECTION	M.P.I Has Been Done on Available Critical Areas and Found Free from Cracks and Other Defects.	
FINAL RESULTS	As Per the Client Specification, the Inspected Areas Was Accepted at The Time of Inspection Useable.	

NDT Equipment Details						
YokePermanentSerial No:PY-02Due Date14-10-2024						
White Contrast	WCP-2	Batch No:	220602	Due Date	06-2025	
Black Ink	7HF	Batch No:	220605	Due Date	7-1-2025	

ASNT Level II / LEEA Inspector Name:	Reviewed By: NDT LEVEL II	Signature & Stamp	Client Signature & Stamp
Aizaz Farhat	Naveed Hussein	LIF G CONTROL G	





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client Name:	HALLIBURTON	Location:	HPS YARD	Job Number:	QC/24/HALL-0206A-02	
Date of Examination:	02/06/2024	Due Date:	01/12/2024	Certificate No:	020624	
Serial No:		Final Remarks				
ISA02	A	Satisfactory				
Type of Inspection	Visual & Magnetic Particle Inspection					
Reference Standard	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)					



VISUAL, THOROUGH EXAMINATION	The above-mentioned equipment is visually Inspected and Found Free from Deformations, Corrosion, And Other Defects.	
MAGNETIC PARTICLE INSPECTION	M.P.I Has Been Done on Available Critical Areas and Found Free from Cracks and Other Defects.	
FINAL RESULTS	As Per the Client Specification, the Inspected Areas Was Accepted at The Time of Inspection Useable.	

NDT Equipment Details					
Yoke Permanent Serial No: PY-02 Due Date 14-10-2024					
White Contrast	WCP-2	Batch No:	220602	Due Date	06-2025
Black Ink	7HF	Batch No:	220605	Due Date	7-1-2025

Inspector Name: N	NDT LEVEL II	Signature & Stamp	Client Signature & Stamp
Aizaz Farhat N	Naveed Hussein	LIF G CONTROL G	





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client HALLIBURTON		Report No:	QC/24/HALL-0206A-03
Item Description TRAILAR		Job No:	020624
General Scope of Activity	Coiled Tubing Unit-5 Trailar Structure	Date of Inspection	02/06/2024
Place of Inspection	HPS Yard	Valid Until:	01/12/2024

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 02-06-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit Trailar Structure
- 1.2) Functional Test of vehicle.
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- **TRAILAR STRUCTURE**, **SAP No- 12534581** was carried out and found satisfactory.
- 2.2) Functional Test of Vehicle.
- 2.3) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) TRAILAR STRUCTURE

SAP No:	12534581
Location:	Coiled Tubing Unit - CTU 05





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

3.1) Visual Inspection:

- The visual Inspection of the **TRAILAR STRUCTURE** was carried out as follows:
- The Structure welds of the TRAILAR were inspected and NO visible damages observed
- No visual damages on Painting were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Functional Test:

The Function test of the TRUCK HEAD was carried out as follow:

- Movement.
- Breaks.
- Electricals
- Hydraulics
- Indicators

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above **TRAILAR** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Photographs Of Activity



	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	LIF QUELITY	Tor Ingineering	
REV:01 DATED: 20 JUN	IE 2022	9/	

REV.OI DATED. 20 JONE 2022





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client	HALLIBURTON	Report No:	QC/24/HALL-0206A-04
Item Description	TRUCK HEAD	Job No:	020624
General Scope of Activity	Coiled Tubing Unit-7 Truck Head Structure	Date of Inspection	02/06/2024
Place of Inspection	HPS Yard	Valid Until:	01/12/2024

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 02-06-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit Truck Head Structure
- 1.2) Functional Test of vehicle.
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- **TRUCK HEAD STRUCTURE**, **SAP No- 11404830** was carried out and found satisfactory.
- 2.2) Functional Test of Vehicle.
- 2.3) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) TRUCK HEAD STRUCTURE

SAP No:	11404830
REG No:	1895- BASRA
Location:	Coiled Tubing Unit - CTU 05





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

3.1) Visual Inspection:

- The visual Inspection of the **TRUCK HEAD STRUCTURE** was carried out as follows:
- The Structure welds of the TRUCK HEAD were inspected and NO visible damages observed
- No visual damages on **Painting** were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Functional Test:

The Function test of the TRUCK HEAD was carried out as follow:

- Movement.
- Breaks.
- Electricals
- Hydraulics
- Indicators
- Head Lights

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above **TRUCK HEAD** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Photographs Of Activity



	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	LIF COMIR OL	Tor Ingineering	

REV:01 DATED: 20 JUNE 2022





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client	HALLIBURTON	Report No:	QC/24/HALL-0206A-05
Item Description	CABIN	Job No:	020624
General Scope of Activity	Coiled Tubing Unit-7 Cabin Structure	Date of Inspection	02/06/2024
Place of Inspection	HPS Yard	Valid Until:	01/12/2024

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 02-06-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit CABIN Structure
- 1.2) Functional Test of Hydraulic Jacks.
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- **CABIN STRUCTURE**, **SAP No- 12534583** was carried out and found satisfactory.
- 2.2) Functional Test of Hydraulic Jacks.
- 2.3) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) CABIN STRUCTURE

SAP No:	12534583
Location:	Coiled Tubing Unit - CTU 07





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- CABIN STRUCTURE was carried out as follows:
- The Structure welds of the CABIN were inspected and NO visible damages observed
- No visual damages on Painting were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Functional Test:

 The Function test of the Coil Tubing Unit- CABIN STRUCTURE Hydraulic jacks was done and found satisfctoy

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- **CABIN STRUCTURE** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.



















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Photographs Of Activity





	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	LIF QUELITY	Tor Ingineering	
REV:01 DATED: 20 JUN	IE 2022	9/	





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client Name:	HALLIBURTON	Location:	HPS YARD	Job Number:	QC/24/HALL-0206A-06
Date of Examination:	02/06/2024	Due Date:	01/12/2024	Certificate No:	020624
Serial No:	Item Description				Final Remarks
ST-CTU-05	INJECTOR HEAD STAND				Satisfactory
Type of Inspection	Visual & Magnetic Particle Inspection				
Reference Standard	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				







VISUAL, THOROUGH EXAMINATION	The above-mentioned equipment is visually Inspected and Found Free from Deformations, Corrosion, And Other Defects.
MAGNETIC PARTICLE INSPECTION	M.P.I Has Been Done on Available Critical Areas and Found Free from Cracks and Other Defects.
FINAL RESULTS	As Per the Client Specification, the Inspected Areas Was Accepted at The Time of Inspection Useable.

NDT Equipment Details							
YokePermanentSerial No:PY-02Due Date14-10-2024							
White Contrast	WCP-2	Batch No:	220602	Due Date	06-2025		
Black Ink	Black Ink 7HF Batch No: 220605 Due Date 7-1-2025						

ASNT Level II / LEEA Inspector Name:	Reviewed By: LEEA, NDT LEVEL II	Signature & Stamp	Client Signature & Stamp
Aizaz Farhat	Ashraf Elsaid	LIF CONTROL CO	





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client	HALLIBURTON	Report No:	QC/24/HALL-0206A-07
Item Description	REEL	Job No:	020624
General Scope of Activity	Coiled Tubing Unit-5 Reel Structure	Date of Inspection	02/06/2024
Place of Inspection	HPS Yard	Valid Until:	01/12/2024
Reference Standards:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)		

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 02-06-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit Reel Structure
- 1.2) Magnetic Particle Inspection (MPI).
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- **REEL STRUCTURE**, **ID No- 12534586** and accessories including structure was carried out and found satisfactory.
- 2.2) MPI was performed on accessible **Structure welds**, **Pad eyes and its associated welds**. The result was found satisfactory.
- 2.3) Dimensions of pad eyes were taken. The result was found satisfactory.
- 2.4) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) REEL STRUCTURE

ID No	12534586
Location:	Coiled Tubing Unit – CTU-05





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- **REEL STRUCTURE** was carried out as follows:
- The Structure welds of the Unit were inspected and NO visible damages observed
- The visual Inspection of **Pad Eyes** was done and found satisfactory.
- No visual damages on **Painting** were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Magnetic Particle Inspection (MPI):

Magnetic particle Inspection was performed on the following components.:

- Accessible Structure Welds
- Pad Eyes and its Associated welds

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- **REEL STRUCTURE** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Photographs Of Activity







PAD EYE DIMENSION				
Serial No:	No: PE-01,PE-02			
THICK.	HOLE HEIGHT WIDTH			SWL
14 mm	17 mm 58 mm 114 mm 2 TON			

























Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

PAD EYE DIMENSION				
Serial No:	PE-03, PE-04 SWL			
THICK.	HOLE	HOLE HEIGHT WIDTH		
51 mm	78 mm	162 mm	255mm	55 TON

PAD EYE DIMENSION				
Serial No:	RPE-01, RPE-02			
THICK.	HOLE	HEIGHT	WIDTH	SVVL
51 mm	78 mm	162 mm	255mm	55 TON









	Equipment Details							Tech	nical Details
Equipment:	AC/DC \ Test Bl		Equipment:	Digital Lux Meter	Equipment:	AC/DC PERMANE MAGN	T HAND	Magnetic Particle Concentration	1.2 to 2.4 ml/100 ml
Serial No:	165	7	Serial No:	2722003	Serial No:	PY - (PY -	_	Method	Wet Magnetic Particle
Cal. Date:	14-10-2	2024	Cal. Date:	16-10-2024	Cal. Date:	14-10-	14-10-2024		Testing (WMPT)
Black Magn Manufactur		N	/lagnaflux	Batch No:	220605	Expiry Date:	July-2025	MAINAIDT Limbs	(WIVIPT)
White Contra Manufacture		N	/lagnaflux	Batch No:	220602	Expiry Date:	June-2025	WMPT Light Intensity	3160 Lux

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	LIF COM IR OL	ior Ingineering	
REV:01 DATED: 20 JUN	IE 2022		





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client	HALLIBURTON	Report No:	QC/24/HALL-0206A-08	
Item Description	REEL	Job No:	020624	
General Scope of Activity	Coiled Tubing Unit-5 Reel Structure	Date of Inspection	02/06/2024	
Place of Inspection	HPS Yard Valid Until: 01/12/20		01/12/2024	
Reference Standards:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)			

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 02/06/2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit Hose Reels & Associated Pad Eyes
- 1.2) Magnetic Particle Inspection (MPI).
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- **Hose Reels**, **Identification No- 331144, 331143** and accessories including structure was carried out and found satisfactory.
- 2.2) MPI was performed on accessible Pad eyes and its associated welds. The result was found satisfactory.
- 2.3) Dimensions of pad eyes were taken. The result was found satisfactory.
- 2.4) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) Hose Reels

Iden No	331144, 331143
Location:	Coiled Tubing Unit – CTU-05





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- Hose Reels were carried out as follows:
- The **Lifting Accessories associated with Hose Reels** were inspected for any visual damages, dents, cracks to the extent of accessibility. The results were satisfactory.
- The visual Inspection of **Pad Eyes** was done and found satisfactory.
- No visual damages on Painting were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Magnetic Particle Inspection (MPI):

Magnetic particle Inspection was performed on the following components.:

• Pad Eyes and its Associated welds

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- **Hose Reels** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Photographs Of Activity

























Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

PAD EYE DIMENSION					
Serial No:	PE-01	PE-01			
THICK.	HOLE	HEIGHT	WIDTH	SVVL	
40 mm	32 mm	94 mm	168mm	8.5 TON	

PAD EYE DIMENSION				
Serial No:	PE-01, PE02, PE03, PE04			
THICK.	HOLE	HEIGHT	WIDTH	SWL
21 mm	20mm	120 mm	90 mm	3.25 TON







	Equipment Details								nical Details
Equipment:	AC/DC Test B		Equipment:	Digital Lux Meter	Equipment:	AC/DC PERMANE MAGN	T HAND	Magnetic Particle Concentration	1.2 to 2.4 ml/100 ml
Serial No:	165	7	Serial No:	2722003	Serial No:		PY - 019 PY - 02		Wet Magnetic Particle
Cal. Date:	14-10-2	2024	Cal. Date:	16-10-2024	Cal. Date:	14-10-	14-10-2024		Testing (WMPT)
Black Magn Manufactur		Ņ	Magnaflux	Batch No:	220605	Expiry Date:	July-2025	MANDT Light	(VVIVIPT)
White Contra		N	Magnaflux	Batch No:	220602	Expiry Date:	June-2025	WMPT Light Intensity	3160 Lux

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	LIF COMING	Tor Ingineering	
REV:01 DATED: 20 JUN	NE 2022		





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client	HALLIBURTON	Report No:	QC/24/HALL-0206A-09	
Item Description	Injector Head	Job No:	020624	
General Scope of Activity	Coil Tubing Unit-5 Injector Head	Date of Inspection	02/06/2024	
Place of Inspection	HPS Yard	Valid Until:	01/12/2024	
Reference Standards:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)			

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 02/06/2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit Injector head and Accessories
- 1.2) Magnetic Particle Inspection (MPI).
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit-Injector head, SAP No- 12534584 and accessories including structure was carried out and found satisfactory.
- 2.2) MPI was performed on accessible structure welds, pad eyes and its associated welds. The result was found satisfactory.
- 2.3) Dimensions of pad eyes were taken. The result was found satisfactory.
- 2.4) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) Injector Head

SAP NO:	12534584
MANUFACTURER	HYDRA RIG
YEAR OF MFG.	12-2014
UNIT:	CTU-05





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- **Injector Head and accessories** were carried out as follows:
- The **Accessories** were inspected for any visual damages, dents, cracks to the extent of accessibility. The results were satisfactory.
- The Structure welds of the Unit were inspected and NO visible damages observed
- The visual Inspection of **Stripper** was done and found satisfactory.
- No visual damages on Painting were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Magnetic Particle Inspection (MPI):

Magnetic particle Inspection was performed on the following components.:

- Accessible Structure Welds
- Pad Eyes and its Associated welds
- Stripper face
- Fall Arrestor Pole

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- **Injector Head** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

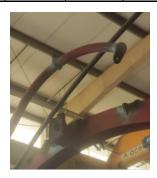
Photographs Of Activity







PAD EYE DIMENSION					
Serial N	SWL				
THICK.	HOLE	HEIGHT	WIDTH	SVVL	
14 mm	17 mn	58 mm	114 mm	2 TON	























Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

PAD EYE DIMENSION						
Serial N 42133A, 42133B, 42133C,						
Serial iv	42133	42133D				
THICK.	HOLE	HOLE HEIGHT WIDTH SWL				
24	36	CE	75	17		
24 mm	26 mn 65 mn		/5 mm	TON		

PAD EYE DIMENSION						
Serial N	SWL					
THICK.	HOLE	HEIGHT	WIDTH	SWL		
24 mm	26 mn	65 mm	75 mm	17		
				TON		









	Equipment Details							Technical Details	
Equipment:	AC/DC Test Bl		Equipment:	Digital Lux Meter	Equipment:	AC/DC PERMANE MAGN	T HAND	Magnetic Particle Concentration	1.2 to 2.4 ml/100 ml
Serial No:	165	7	Serial No:	2722003	Serial No:	PY - (PY -	-	Method	Wet Magnetic Particle Testing
Cal. Date:	14-10-2	2024	Cal. Date:	16-10-2024	Cal. Date:	14-10-	2024	ivietnoa	
Black Magne Manufactur		N	/lagnaflux	Batch No:	220605	Expiry Date:	July-2025	NA/RADT Links	(WMPT)
White Contra Manufacture		N	/lagnaflux	Batch No:	220602	Expiry Date:	June-2025	WMPT Light Intensity	3160 Lux

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	LIF CONTROL	tor Ingineering	





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

REV:01 DATED: 20 JUNE 2022





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client	HALLIBURTON	Report No:	QC/24/HALL-0206A-10		
Item Description	GOOSE NECK	Job No:	020624		
General Scope of Activity	Coiled Tubing Unit-5 Goose Neck	Date of Inspection	02/06/2024		
Place of Inspection	HPS Yard	Valid Until:	01/12/2024		
Reference Standards:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 02/06/2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit Goose Neck, Associated Pad Eyes & Lifting Accessories
- 1.2) Magnetic Particle Inspection (MPI).
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- Goose Neck, SAP No- 12534582 and accessories including structure was carried out and found satisfactory.
- 2.2) MPI was performed on accessible structure welds, pad eyes and its associated welds. The result was found satisfactory.
- 2.3) Dimensions of pad eyes were taken. The result was found satisfactory.
- 2.4) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) Goose Neck

SAP No	12534582
Location:	Coiled Tubing Unit – CTU-05





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- Goose Neck were carried out as follows:
- The **Lifting Accessories associated with Goose Neck** were inspected for any visual damages, dents, cracks to the extent of accessibility. The results were satisfactory.
- The Structure welds of the Unit were inspected and NO visible damages observed
- The visual Inspection of Pad Eyes was done and found satisfactory.
- No visual damages on Painting were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Magnetic Particle Inspection (MPI):

Magnetic particle Inspection was performed on the following components.:

- Accessible Structure Welds
- Pad Eyes and its Associated welds

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- **Goose Neck** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Photographs Of Activity





























Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

PAD EYE DIMENSION					
Serial N	Serial N PE-01, PE-02				
THICK.	HOLE	HEIGHT	WIDTH	SWL	
2Emm	27mm	110mm	126mm	4.75	
23111111	2/111111	118mm	126mm	TON	

PAD EYE DIMENSION					
Serial N	33293	7A, 33293	7B, 33293	37C,	
Serial IV	332937D				
THICK.	HOLE	HEIGHT	WIDTH	SWL	
19mm	22mm	12 mm	77 mm	4.75	
Tallilli	22mm	43 mm	77 mm	TON	













	Equipment Details							Technical Details		
Equipment:	AC/DC Test B		Equipment:	Digital Lux Meter	Equipment:	AC/DC PERMANE MAGN	T HAND	Magnetic Particle Concentration	1.2 to 2.4 ml/100 ml	
Serial No:	165	7	Serial No:	2722003	Serial No:	PY - (PY -		B. G. a. a. d.	Wet Magnetic Particle Testing	
Cal. Date:	14-10-2	2024	Cal. Date:	16-10-2024	Cal. Date:	14-10-	2024	Method		
Black Magn Manufactur		N	Magnaflux	Batch No:	220605	Expiry Date:	July-2025	\A/N/DT Light	(WMPT)	
White Contra Manufacture		N	Magnaflux	Batch No:	220602	Expiry Date:	June-2025	WMPT Light Intensity	3160 Lux	

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	LIF COMING	Tor Ingineering	
REV:01 DATED: 20 JUN	NE 2022		





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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





CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client	HALLIBURTON	Report No:	QC-24-06/HALL-HPS-CTU-05- 001		
Item Description	WET KIT	Job No:	QC-24-06/HALL-HPS-01		
General Scope of Activity	Coiled Tubing Unit-CTU-05 WET KIT STRUCTURE, ACCUMULATOR UTT	Date of Inspection	02-JUNE-2024		
Place of Inspection	HPS Yard	Valid Until:	1-DECEMBER-2024		
Reference Standards:	ASTM E797 & ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 02-June-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit WET KIT STRUCTURE
- 1.2) Magnetic Particle Inspection (MPI).
- 1.3) Ultrasonic Thickness Testing (UTT)
- 1.4) Review of maintenance records and Previous reports
- 1.5) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- **WET KIT STRUCTURE**, **SAP No- 12534586** was carried out and found satisfactory.
- 2.2) MPI was performed on accessible **Structure welds, Pad eyes and its associated welds**. The result was found satisfactory.
- 2.3) Ultrasonic Thickness Testing was carried out on **Accumulator**. The result was found satisfactory.
- 2.4) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) WET KIT STRUCTURE

SAP No	12534629
ACCUMULATOR MFG	HYDRAGIC
Location:	Coiled Tubing Unit - 05





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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





CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- WET KIT STRUCTURE was carried out as follows:
- The Structure welds of the Unit were inspected and NO visible damages observed
- The visual Inspection of **Pad Eyes** was done and found satisfactory.
- The visual Inspection of **Accumulator & Hoses** was done and found satisfactory.
- No visual damages on **Painting** were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Magnetic Particle Inspection (MPI):

Magnetic particle Inspection was performed on the following components.:

- Accessible Structure Welds
- Pad Eyes and its Associated welds

FINAL RESULT: PASS

3.3) ULTRASONIC THICKNESS TESTING (UTT):

Ultrasonic Thickness Testing was performed on the following components.:

15 GALLON ACCUMULATOR BOTTLES (BDY BP MAWP 3000 PSI A 200°F APP 22V15G)

FINAL RESULT: PASS

3.4) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- **WET KIT STRUCTURE & UTT of ACCUMULATORS** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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





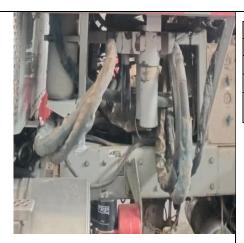
CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Photographs Of Activity







Ultrasonic Th	nickness To	Serial No:	3901060			
SECTION	0*	90*	180*	270*	OEM Min	Result
TOP NECK	0.618	0.578	0.597	0.606	0.500	ACCEPTED
MIDDLE	0.458	0.432	0.422	0.449	0.300	ACCEPTED
BOTTOM NECK	0.621	0.607	0.634	0.613	0.500	ACCEPTED





Area of diffused echo
reflection echo
Detector

Tarpet

Tarpet

(a) Normal condition
Underside (b) Corronion present on back surface.

flection echo become wide small by used reflection caused by corroded abrous surface.





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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





CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations



22 Detail Z	U
Detail Y	
1	
2——-	
14 Detail X 18 19	
20	

·	Ultrasonic Thickness Test of Bottle	Serial No:		390106			
	SECTION	0*	90*	180*	270*	OEM Min	Result
1	TOP NECK	0.630	0.599	0.651	0.656	0.500	ACCEPTED
		0.452	0.464	0.449	0.465		ACCEPTED
2	MIDDLE	0.454	0.452	0.427	0.441	0.300	ACCEPTED
			0.456	0.453	0.450		ACCEPTED
3	BOTTOM NECK	0.657	0.617	0.662	0.587	0.500	ACCEPTED

ι	Ultrasonic Thickness Test of Bottle	Serial No:		390088			
	SECTION	0*	90*	180*	270*	OEM Min	Result
1	TOP NECK	0.586	0.616	0.615	0.602	0.500	ACCEPTED
		0.441	0.453	0.446	0.443		ACCEPTED
2	MIDDLE	0.449	0.439	0.438	0.448	0.300	ACCEPTED
		0.442	0.448	0.453	0.433		ACCEPTED
3	BOTTOM NECK	0.619	0.612	0.597	0.579	0.500	ACCEPTED

				ı			
_	Jltrasonic Thickness Test of Bottle	Serial No:		39007			
	SECTION	0*	90*	180*	270*	OEM Min	Result
1	TOP NECK	0.640	0.602	0.615	0.596	0.500	ACCEPTED
		0.459	0.426	0.434	0.451		ACCEPTED
2	MIDDLE	0.438	0.435	0.448	0.443	0.300	ACCEPTED
		0.443	0.458	0.462	0.437		ACCEPTED
3	BOTTOM NECK	0.629	0.589	0.604	0.596	0.500	ACCEPTED

	Ultrasonic Thickness Test of Bottle	Serial No:		390060				
	SECTION	0*	90*	180*	270*	OEM Min	Result	
1	TOP NECK	0.591	0.601	0.607	0.617	0.500	ACCEPTED	
		0.428	0.417	0.448	0.432		ACCEPTED	
2	MIDDLE	0.453	0.419	0.457	0.426	0.300	ACCEPTED	
		0.415	0.442	0.447	0.431		ACCEPTED	
3	BOTTOM NECK	0.622	0.612	0.582	0.588	0.500	ACCEPTED	
	All Measurement in Inches							





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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





CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

			Tech	nical Details					
Equipment:	AC/DC Yo		Equipment:	Digital Lux Meter	Equipment:	AC/DC Yoke PERMANET HAND MAGNATIC		Magnetic Particle Concentration	1.2 to 2.4 ml/100 ml
Serial No:	1657		Serial No:	2722003	Serial No:	PY -	02		
Cal. Date:	14-OCT-2	024	Cal. Date:	16-OCT-2024	Cal. Date:	14-OCT-	14-OCT-2024		Wet Magnetic Particle
Equipment:	Thickne: Gauge		Serial No:	5500391	Cal. Date:	14-OCT-	-2024	Method	Testing (WMPT)
Equipment:	TEST BLO	CK	Serial No:	NoBo5087	Cal. Date:	15-OCT-	-2024		(WIVIPT)
Black Magne Manufactur		N	1agnaflux	Batch No:	220605	Expiry Date:	July-2025	\A/N/DT Light	
White Contra Manufacture		N	1agnaflux	Batch No:	220602	Expiry Date: June-2025		WMPT Light Intensity	3650 Lux

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Ashraf Elsaid LEEA NDT LEVEL II	M.ABDULLAH LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	C ON TRO	Tor Ingineering	

REV: 01 Dated: 20 June 2022





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client	HALLIBURTON	Report No:	QC-24-06/HALL-HPS-CTU- 05-002	
Item Description	AIR TANKS	Job No:	QC-24-06/HALL-HPS-01	
General Scope of Activity	Coiled Tubing Unit-5 AIR TANKS STRUCTURE, TANKS UTT	Date of Inspection	02-JUNE-2024	
Place of Inspection	HPS Yard	Valid Until:	01-DECEMBER-2024	
Reference Standards:	ASTM E797 & ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)			

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 02-June-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit AIR TANKS STRUCTURE
- 1.2) Magnetic Particle Inspection (MPI).
- 1.3) Ultrasonic Thickness Testing (UTT)
- 1.4) Review of maintenance records and Previous reports
- 1.5) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- AIR TANKS, was carried out and found satisfactory.
- 2.2) MPI was performed on accessible Structure welds. The result was found satisfactory.
- 2.3) Ultrasonic Thickness Testing was carried out on **LEFT SIDE**, **BOADY & RIGHT SIDE**. The result was found satisfactory.
- 2.4) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) AIR TANKS

ID No	26241, 26242,26243,		
וט ווט	26244, 26245, 348280		
Location:	Coiled Tubing Unit – CTU-05		





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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





CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- AIR TANKS STRUCTURE was carried out as follows:
- The Structure welds of the Unit were inspected and NO visible damages observed
- No visual damages on **Painting** were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Magnetic Particle Inspection (MPI):

Magnetic particle Inspection was performed on the following components.:

Accessible Structure Welds

FINAL RESULT: PASS

3.3) ULTRASONIC THICKNESS TESTING (UTT):

Ultrasonic Thickness Testing was performed on the following components.:

- Left Side plate
- Middle Body
- Right Side plate

FINAL RESULT: PASS

3.4) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- **AIR TANKS** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

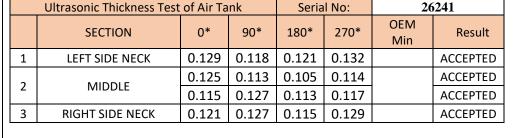
Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com



CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations







		Ultrasonic Thickness Test	of Air Ta	Serial No:		26242		
		SECTION	0*	90*	180*	270*	OEM Min	Result
	1	LEFT SIDE NECK	0.119	0.133	0.127	0.118		ACCEPTED
	2	MIDDLE	0.108	0.112	0.107	0.115		ACCEPTED
	2		0.113	0.125	0.123	0.117		ACCEPTED
	3	RIGHT SIDE NECK	0.132	0.128	0.138	0.126	_	ACCEPTED



	Ultrasonic Thickness Test	of Air Ta	Serial No:		26243						
	SECTION	0*	90*	180*	270*	OEM Min	Result				
1	LEFT SIDE NECK	0.137	0.129	0.124	0.134		ACCEPTED				
2	MIDDLE	0.113	0.106	0.115	0.103		ACCEPTED				
2	MIDDLE	0.117	0.109	0.111	0.116		ACCEPTED				
3	RIGHT SIDE NECK	0.128	0.122	0.134	0.112		ACCEPTED				



	Ultrasonic Thickness Test	of Air Ta	Serial No:		26244		
	SECTION	0*	90*	180*	270*	OEM Min	Result
1	LEFT SIDE NECK	0.132	0.135	0.128	0.131		ACCEPTED
2	MIDDLE	0.109	0.111	0.113	0.105		ACCEPTED
-		0.112	0.115	0.107	0.117		ACCEPTED
3	RIGHT SIDE NECK	0.134	0.136	0.128	0.127		ACCEPTED



Ultrasonic Thickness Test	of Air Ta	Seria	l No:	26245		
SECTION	0*	90*	180*	270*	OEM Min	Result
LEFT SIDE NECK	0.136	0.127	0.132	0.126		ACCEPTED
MIDDLE	0.112	0.107	0.119	0.110		ACCEPTED
MIDDLE	0.104	0.113	0.117	0.109		ACCEPTED
RIGHT SIDE NECK	0.137	0.131	0.130	0.129		ACCEPTED

All Measurement in Inches





















Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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





CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations



Ultrasonic Thickness Test	of Air Ta	Serial No:		348280		
SECTION	0*	90*	180*	270*	OEM Min	Result
LEFT SIDE NECK	0.128	0.129	0.133	0.127		ACCEPTED
MIDDLE	0.117	0.139	0.121	0.112		ACCEPTED
MIDDLE	0.123	0.129	0.117	0.127		ACCEPTED
RIGHT SIDE NECK	0.138	0.132	0.138	0.136		ACCEPTED

			Technical Details						
Equipme nt:	AC/DC		Equipment:	Digital Lux Meter	Equipment:	AC/DC Yoke PERMANET HAND MAGNATIC		Magnetic Particle Concentration	1.2 to 2.4 ml/100 ml
Serial No:	165	1657 Serial No: 2722003 Serial No: PY - 02		02					
Cal. Date: 14-0		-2024	Cal. Date:	16-OCT-2024	Cal. Date:	14-OCT-2024			
Equipme nt:	Thickness Gauge Serial No: 5500		5500391	Cal. Date:	14-OCT-2024		Method	Wet Magnetic Particle Testing	
Equipme nt:	TEST BL	LOCK	Serial No:	NoBo5087	NoBo5087 Cal. Date: 15-OCT-2024		-2024		(WMPT)
Black Magr Manufactu		ľ	Magnaflux	Batch No:	220605	Expiry Date:	July-2025		
White Co Paint Manu WCP	facture:	ľ	Magnaflux	Batch No:	220602	Expiry Date:	June-2025	WMPT Light Intensity	3650 Lux

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Ashraf Elsaid LEEA NDT LEVEL II	M.ABDULLAH LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	Control of the contro	tor Ingineeron	

















