

CLIENT NAME: HALLIBURTON HPS

SURVEYOR: MAHMOUD ALI





COMPLETION DATE: 23/05/2024

## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-001



INSPECTION AREA: CARRIAGE					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
1		CR001	Removable sliding rails front and back on passenger side.	<b>Primary Securing:</b> Bolted main carriage structure on welded brackets. <b>Secondary Retention:</b> Lock Nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
2		CR002	Removable sliding rails front and back on driver side.	<b>Primary Securing:</b> Bolted main carriage structure on welded brackets. <b>Secondary Retention:</b> Lock Nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
3		CR003	Wear pads for mast sliding driver side	<b>Primary Securing:</b> Bolted through bracket and pad into nuts. <b>Secondary Retention:</b> Wedge Lock Washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washer are in place. Check for signs of corrosion.	180 DAYS
4		CR004	Wear pads for mast sliding passenger side	<b>Primary Securing:</b> Bolted through bracket and pad into nuts. <b>Secondary Retention:</b> Wedge Lock Washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washer are in place. Check for signs of corrosion.	180 DAYS



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5		CR005	Injector rest wear pad located at top of carriage on driver and passenger side.	<b>Primary Securing:</b> Bolted main carriage structure on welded brackets. <b>Secondary Retention:</b> Lock Nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
6		CR006	Carriage wear pads on vertical adjustment. Located top and bottom, driver and passenger side.	<b>Primary Securing:</b> Bolted through bracket and pad into nuts. <b>Secondary Retention:</b> Wedge Lock Washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washer are in place. Check for signs of corrosion.	180 DAYS
7		CR007	Carriage pins to locate the injector. 4 off in total.	<b>Primary Securing:</b> Threaded machined pin secured with standard nut and washer. <b>Secondary Retention:</b> Through hole and secured with cotter pin.	PASS	Satisfactory - cotter pins are not to be reused. Replace with new cotter pin any time they are removed. Open fully.	Check all securing bolts/lock nuts are in place. Check for signs of corrosion. Check integrity of cotter pin.	180 DAYS
8		CR008	Carriage vertical adjustment cylinders. 2 off in total.	<b>Primary Securing:</b> Sized pin with bolt preventing pin removal. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS

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9		CR009	Carriage top tilt adjustment cylinders. 2 off in total.	<b>Primary Securing:</b> Sized pin with bolt preventing pin removal. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
10		CR010	Carriage bottom tilt adjustment cylinders. 2 off in total.	<b>Primary Securing:</b> Sized pin with bolt preventing pin removal. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
11		CR011	Carriage side shift adjustment cylinder	<b>Primary Securing:</b> Sized pin with bolt preventing pin removal. <b>Secondary Retention:</b> Lock nuts fitted to bolts	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion	180 DAYS
12		CR012	Carriage linkage caps. 4 in total. 2 on driver side and 2 on passenger side.	<b>Primary Securing:</b> Six counter sunk screws with locktite. <b>Secondary Retention:</b> Peened 3 points on each screw circumference.	PASS	Satisfactory - Locktite is not visible so peening is done as visible secondary retention. Will need redone if bolts are removed.	Check all securing screws are in place and not rotated passed peened point. Check for signs of corrosion	180 DAYS



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13		CR013	Carriage sheave wheels central shafts. 2 off in total.	<b>Primary Securing:</b> Bearing Lock Nut <b>Secondary Retention:</b> Bearing Lock washer to engage with lock nut	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
14		CR014	Hydraulic valves for cylinder funtion - 7 off in total	<b>Primary Securing:</b> Bolted to main carriage structure. <b>Secondary Retention:</b> Lock Nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
15		CR015	Hydraulic valves for cylinder funtion - 1 off in total	<b>Primary Securing:</b> Bolted to main carriage structure. <b>Secondary Retention:</b> Wedge Lock Washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washerd are in place. Check for signs of corrosion.	180 DAYS
16		CR016	Rig Smart Sensor on Carriage	<b>Primary Securing:</b> Bolted to main carriage structure. <b>Secondary Retention:</b> Wedge Lock Washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washerd are in place. Check for signs of corrosion.	180 DAYS





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17		CR017	Stabbing Winch mounted to carriage	<p>Primary Securing: Bolted to main carriage structure.</p> <p>Secondary Retention: Wedge Lock Washers fitted to bolts.</p>	PASS	Satisfactory	Check all securing bolts/wedge lock washers are in place. Check for signs of corrosion.	180 DAYS
18		CR018	Carriage crown beam.	<p>Primary Securing: Fitted pins to retain removable beam.</p> <p>Secondary Retention: Through bolt and lock nut.</p>	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS



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## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-002



INSPECTION AREA: MAST					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
1		CR001	Carriage locking cylinders. Located on driver and passenger side.	<b>Primary Securing:</b> Sized pin with bolt preventing pin removal. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
2		CR002	Carriage locking plates. Located on driver and passenger side.	<b>Primary Securing:</b> Bolted to main carriage structure. <b>Secondary Retention:</b> Wedge Lock Washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washerd are in place. Check for signs of corrosion.	180 DAYS
3		CR003	Mast main winch located at rear of mast passenger side.	<b>Primary Securing:</b> Bolted onto mast primary structure. <b>Secondary Retention:</b> Locking wire through bolt heads.	PASS	Satisfactory	Check all securing bolts/wire are in place. Check for signs of corrosion.	180 DAYS
4		CR004	Crash frame main winch located at rear of mast passenger side	<b>Primary Securing:</b> Bolted onto mast primary structure. <b>Secondary Retention:</b> Lock nuts fitted to bolts where possible, wedge lock washers on others.	PASS	Satisfactory	Check all securing bolts/lock nuts and wedge lock washers are in place. Check for signs of corrosion.	180 DAYS



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ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
5		CR005	Guard main mast winch located at rear of mast passenger side.	<b>Primary Securing:</b> Bolted to main mast structure. <b>Secondary Retention:</b> Wedge Lock Washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washer are in place. Check for signs of corrosion.	180 DAYS
6		CR006	Hydraulic valves located at rear of mast passenger side below main mast winch.	<b>Primary Securing:</b> Bolted through to main mast structure. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
7		CR007	Mast tilt guage and plate located rear of mast driver side.	<b>Primary Securing:</b> Bolted onto welded bracket. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
8		CR008	Mast hose connections to trailer located rear of trailer on both driver and passenger side.	<b>Primary Securing:</b> Velcro wrap fed through welded bracket. <b>Secondary Retention:</b> stainless tie.	PASS	Satisfactory	Check all securing ties are in place. Check for signs of corrosion.	180 DAYS



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9		CR009	Mast pipe support clamps. Many of them located along sides of mast on both driver and passenger side.	<b>Primary Securing:</b> Bolded rubber clamp and rail nuts. <b>Secondary Retention:</b> Wedge lock washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washerd are in place. Check for signs of corrosion.	180 DAYS
10		CR010	Mast lift cylinder. 2 off in total. Located passenger and driver side.	<b>Primary Securing:</b> Sized pin through lugs. <b>Secondary Retention:</b> Cotter pin through sized pin.	PASS	Satisfactory - cotter pins are not to be reused. Replace with new cotter pin any time they are removed. Open fully.	Check all securing bolts/lock nuts are in place. Check for signs of corrosion. Check integrity of cotter pin.	180 DAYS
11		CR011	Mast guy wire eye connection. Located driver and passenger side half way up mast.	<b>Primary Securing:</b> Sized pin with cotter pin preventing pin removal. <b>Secondary Retention:</b> Cotter pin.	PASS	Satisfactory - cotter pins are not to be reused. Replace with new cotter pin any time they are removed. Open fully.	Check all securing bolts/lock nuts are in place. Check for signs of corrosion. Check integrity of cotter pin.	180 DAYS
12		CR012	Mast tubing cover plates. Located on bulkhead ears on both driver and passenger side.	<b>Primary Securing:</b> Bolted to main carriage structure. <b>Secondary Retention:</b> Wedge Lock Washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washerd are in place. Check for signs of corrosion.	180 DAYS



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13		CR013	Mast hose bundle from bulkhead to injector. Located both on driver and passenger side.	<b>Primary Securing:</b> Bolted rubber clamp and rail nuts. <b>Secondary Retention:</b> Wedge lock washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washer are in place. Check for signs of corrosion.	180 DAYS
14		CR014	Mast sheave wheels and pins. Located top inside of mast one on driver and two on passenger side.	<b>Primary Securing:</b> Bearing Lock Nut <b>Secondary Retention:</b> Bearing Lock washer to engage with lock nut	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
15		CR015	Top sheave wheel mounting bracket located at top passenger side of mast.	<b>Primary Securing:</b> Bolted through onto main mast welded structure. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
16		CR016	Crown saver located at front driver side of mast.	<b>Primary Securing:</b> Socket head screw. <b>Secondary Retention:</b> Wedge Lock washer onto screw.	PASS	Satisfactory	Check all securing bolts/wedge lock washer are in place. Check for signs of corrosion.	180 DAYS



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ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
17		CR017	Mast Lights located at top of mast on both driver and passenger side.	<b>Primary Securing:</b> Bolted onto formed bracket and secured with lock nuts. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
18		CR018	Mast light mounting bracket located at top of mast on both driver and passenger side.	<b>Primary Securing:</b> Bolted to main mast structure. <b>Secondary Retention:</b> Wedge Lock Washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washer are in place. Check for signs of corrosion.	180 DAYS
19		CR019	Strobe light located on top of mast.	<b>Primary Securing:</b> Threaded onto electrical conduit tubing. <b>Secondary Retention:</b> Grub screw locking into conduit tubing.	PASS	Satisfactory	Check all securing bolts are in place. Check for signs of corrosion.	180 DAYS
20		CR020	Wind anemometer located front of mast passenger side.	<b>Primary Securing:</b> Bolted through onto top sheave bracket. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS



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ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
21		CR021	Flag pole located on either side of the top of mast.	<b>Primary Securing:</b> Bolted through tube bracket welded to main mast structure. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Confirm lanyard is attached. Check for signs of corrosion.	180 DAYS
22		CR022	Hose bundle support on either side of mast legs, and one at rear of trailer.	<b>Primary Securing:</b> Welded to main mast legs, chain link supporting clamp. <b>Secondary Retention:</b> Chain has threaded link to lock off opening. Supporting clamp is held by two metal bands to hosing.	PASS	Satisfactory	Check all securing chains are in place. Confirm sling is certified and in date. Check for signs of corrosion.	180 DAYS
23		CR023	Hose bundle support on either side of mast legs, and one at rear of trailer.	<b>Primary Securing:</b> Bolted to mast structure. <b>Secondary Retention:</b> Wedge Lock Washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washer are in place. Check for signs of corrosion.	180 DAYS



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### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-003



INSPECTION AREA: TRAILER FRONT					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
1		CR001	Hose bundle half carrier located at front of trailer.	<b>Primary Securing:</b> Eye bolts through welded brackets. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
2		CR002	Hose nundle winch and sheave wheel.	<b>Primary Securing:</b> Bolted onto hose bundle arm bracket. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
3		CR003	Hose bundle arm bracket at front of trailer.	<b>Primary Securing:</b> Bolted main trailer frame and additionally accumulator frame. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
4		CR004	Accumulator support frame located at front of trailer.	<b>Primary Securing:</b> Bolted main trailer frame and additionally to cabin platform structure. <b>Secondary Retention:</b> Wedge lock washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washers are in place. Check for signs of corrosion.	180 DAYS





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AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
5		CR005	Accumulator base support bracket - 8 off in total at the front of the trailer.	<b>Primary Securing:</b> Bolted to accumulator support frame. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
6		CR006	15 gallon accumulator bottles - 8 off in total at the front of the trailer.	<b>Primary Securing:</b> Clamped and bolted to accumulator support frame. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
7		CR007	Fuel tank and support brackets at front passenger side of trailer.	<b>Primary Securing:</b> Clamped and bolted to accumulator support frame. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
8		CR008	Genset and support frame located at front passenger side of trailer.	<b>Primary Securing:</b> Bolted to genset frame and trailer. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS

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ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
9		CR009	Air intake filter mounted onto side of genset.	<b>Primary Securing:</b> Bolted to genset side wall. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
10		CR010	AC power receptacle to genset. Located behind genset.	<b>Primary Securing:</b> Bolted to trailer deck. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
11		CR011	Genset cooler, guard and support bracket located on passenger side of trailer beside cabin.	<b>Primary Securing:</b> Bolted to cooler mounting frame weldment. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
12		CR012	Cooler mounting weldment located on passenger side of trailer beside cabin.	<b>Primary Securing:</b> Bolted to trailer and cabin mounting weldment. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS



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ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
13		CR013	Cooling fluid bottle on passenger side of cabin access platform.	<b>Primary Securing:</b> Bolted to cabin platform. <b>Secondary Retention:</b> Lock nuts fitted to bolts	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
14		CR014	Exhaust pipe and rain cap located on passenger side of cabin access platform.	<b>Primary Securing:</b> Bolted to cabin platform. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
15		CR015	Light pole located on passenger side of cabin access platform.	<b>Primary Securing:</b> Bolted to cabin platform. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
16		CR016	Light pole junction box located on passenger side of cabin access platform.	<b>Primary Securing:</b> U-bolted to light pole. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS

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17		CR017	Light fitting located on passenger side of cabin access platform.	<b>Primary Securing:</b> Bolted to light bole bracket. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
18		CR018	Top level cabin platform.	<b>Primary Securing:</b> Bolted to side of cabin and trailer deck. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
19		CR019	Access stair cabin.	<b>Primary Securing:</b> Sized tear drop pin with bolt securing to stair mount weldment. <b>Secondary Retention:</b> Wedge lock washer fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washers are in place. Check for signs of corrosion.	180 DAYS
20		CR020	Lower access stair cabin.	<b>Primary Securing:</b> Bolt through main access stair one two locations. <b>Secondary Retention:</b> Lock nuts fitted to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS





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21		CR021	Handrails access stair to cabin.	<b>Primary Securing:</b> Pined on two positions per hand rail. <b>Secondary Retention:</b> circlips fitted to pins.	PASS	Satisfactory	Check all securing pins and circlips are in place. Check for signs of corrosion.	180 DAYS
22		CR022	Control cabin support frame - 4 pads in total.	<b>Primary Securing:</b> bolted onto main trailer structure. <b>Secondary Retention:</b> Wedge lock washers installed onto bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washers are in place. Check for signs of corrosion.	180 DAYS
23		CR023	Control cabin to rubber shock mounts - 4 in total	<b>Primary Securing:</b> Through bolt between cabin and support frame. <b>Secondary Retention:</b> Lock nuts added to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
24		CR024	Cable tray located under the control cabin	<b>Primary Securing:</b> Through bolt to support frame. <b>Secondary Retention:</b> Lock nuts added to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS



CLIENT NAME: HALLIBURTON HPS

SURVEYOR: MAHMOUD ALI






COMPLETION DATE: 23/05/2024

## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-003



INSPECTION AREA: TRAILER FRONT					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
25		CR025	Work lights under the control cabin - 3 in total	<b>Primary Securing:</b> Through bolt to support frame. <b>Secondary Retention:</b> Lock nuts added to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
26		CR026	Argus electrical control box located under control cabin	<b>Primary Securing:</b> Through bolt to mast support frame. <b>Secondary Retention:</b> Lock nuts added to bolts.	PASS	Satisfactory - Electrical box has been removed from unit	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
27		CR027	Hydraulic manifold block located under the control cabin.	<b>Primary Securing:</b> Through bolt to trailer frame. <b>Secondary Retention:</b> Lock nuts added to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
28		CR028	Rig Smart Sensor on trailer under cabin	<b>Primary Securing:</b> Bolted to main carriage structure. <b>Secondary Retention:</b> Wedge Lock Washers fitted to bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washer are in place. Check for signs of corrosion.	180 DAYS
29		CR029	Control cabin door	<b>Primary Securing:</b> Bolted onto cabin frame. <b>Secondary Retention:</b> Wedge lock washers installed onto bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washers are in place. Check for signs of corrosion.	180 DAYS



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## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-003

INSPECTION AREA: TRAILER FRONT					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
30		CR030	Control cabin electrical access door on passenger side.	<b>Primary Securing:</b> Bolted onto cabin frame. <b>Secondary Retention:</b> Wedge lock washers installed onto bolts.	PASS	Satisfactory	Check all securing bolts/wedge lock washers are in place. Check for signs of corrosion.	180 DAYS
31		CR031	Mast wire containment bar located on top of control cabin	<b>Primary Securing:</b> Through bolt between cabin and support bar. <b>Secondary Retention:</b> Lock nuts added to bolts	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
32		CR032	Air-conditioner evaporator unit inside control cabin and external support plate.	<b>Primary Securing:</b> Through bolt between evaporator and support plate. <b>Secondary Retention:</b> Lock nuts added to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
33		CR033	Air-conditioner condenser unit outside control cabin on driver side.	<b>Primary Securing:</b> Through bolt between condenser and support bracket. <b>Secondary Retention:</b> Lock nuts added to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
34		CR034	Lighting mounted on top of control cabin - 2 off in total	<b>Primary Securing:</b> Bolted through cabin main structure. <b>Secondary Retention:</b> Lanyard between light and cabin frame.	PASS	Satisfactory	Check all securing bolts/lock washers are in place. Confirm lanyard is attached. Check for signs of corrosion.	180 DAYS



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## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-003

INSPECTION AREA: TRAILER FRONT					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
35		CR035	Lighting mounted on headache rack - 2 off in total	<b>Primary Securing:</b> Through bolt on light bracket and tapped plate on frame. <b>Secondary Retention:</b> Lock nuts for light fitting and wedge lock washers added to bolts to mount to frame.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS
36		CR036	Wire rope retraining bracket located on each side of control cabin	<b>Primary Securing:</b> Bolted onto headache rack <b>Secondary Retention:</b> Lock nuts added to bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion.	180 DAYS





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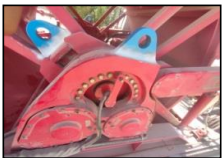



COMPLETION DATE: 23/05/2024

## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-004



INSPECTION AREA: REEL AND LEVELWIND					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
1		CR001	Reel drive system on trailer driver side.	<b>Primary Securing:</b> Bolted onto primary structure. <b>Secondary Retention:</b> Locking wire through bolt heads.	PASS	Satisfactory	Check all securing bolts/wire are in place. Check for signs of corrosion.	180 DAYS
2		CR002	Reel drive system on trailer passenger side.	<b>Primary Securing:</b> Bolted onto primary structure. <b>Secondary Retention:</b> Locking wire through bolt heads.	PASS	Satisfactory	Check all securing bolts/wire are in place. Check for signs of corrosion.	180 DAYS
3		CR003	Reel engagement blocks - 4 in total inside reel.	<b>Primary Securing:</b> Wedged into location with threaded wedges. <b>Secondary Retention:</b> Chained to reel frame.	PASS	Satisfactory	Check all securing chains in place. Check for signs of corrosion.	180 DAYS
4		CR004	Iron retention clamps inside reel.	<b>Primary Securing:</b> Bolted through with lock nuts. <b>Secondary Retention:</b> Quick release pin with chained securing pin.	PASS	Satisfactory	Check all securing bots/nuts/chains in place. Check for signs of corrosion.	180 DAYS



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## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-004

INSPECTION AREA: REEL AND LEVELWIND					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
5		CR005	Iron retention clamps inside reel.	<b>Primary Securing:</b> Bolted through onto reel frame. <b>Secondary Retention:</b> Lock nuts fitted onto bolts.	PASS	Satisfactory	Check all securing bots/nuts in place. Check for signs of corrosion.	180 DAYS
6		CR006	Internal iron swivel clamp.	<b>Primary Securing:</b> Bolted through onto reel frame. <b>Secondary Retention:</b> Lock nuts fitted onto bolts.	PASS	Satisfactory	Check all securing bots/nuts in place. Check for signs of corrosion.	180 DAYS
7		CR007	Access plates on levelwind arm -6 in total	<b>Primary Securing:</b> Bolted onto tapped hole of arm. <b>Secondary Retention:</b> Wedge lock washers onto bolts	PASS	Satisfactory	Check all securing bolts/wedge lock washers are in place. Check for signs of corrosion.	180 DAYS
8		CR008	Internal chain drive system shafts	<b>Primary Securing:</b> Splined shaft through arm. <b>Secondary Retention:</b> Circlips around shaft.	PASS	Satisfactory	Check all securing bolts/wedge lock washers are in place. Check for signs of corrosion.	180 DAYS



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## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-004

INSPECTION AREA: REEL AND LEVELWIND					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
9		CR009	Cartridge containment tubing size located on driver side.	<b>Primary Securing:</b> Welded hinges onto cover plate. <b>Secondary Retention:</b> 2x rubber catch locks.	PASS	Satisfactory	Check all securing lock are in place. Check for signs of corrosion and rubber perrishing.	180 DAYS
10		CR010	Levelwind arm cylinders located on driver and passenger side.	<b>Primary Securing:</b> Sized pin through eyes. <b>Secondary Retention:</b> Cotter pin onto sized pins.	PASS	Satisfactory	Check all securing bolts/lock nuts are in place. Check for signs of corrosion. Check integrity of cotter pin.	180 DAYS
11		CR011	External swivel located on passenger side of reel.	<b>Primary Securing:</b> Pinned onto guard. <b>Secondary Retention:</b> Guard bolted with locknuts.	PASS	Satisfactory	Check all securing bots/lock nuts/chains in place. Check for signs of corrosion.	180 DAYS
12		CR012	External swivel guard located on passenger side of reel.	<b>Primary Securing:</b> Bolted to swivel support arm <b>Secondary Retention:</b> Lock nuts applied to bolts.	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS



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## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-004

INSPECTION AREA: REEL AND LEVELWIND					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
13		CR013	External swivel arm located on passenger side of reel.	<b>Primary Securing:</b> Screw into locking ring. <b>Secondary Retention:</b> Wedge Lock washer applied to bolts.	PASS	Satisfactory	Check all securing bots/wedge lock washer in place. Check for signs of corrosion.	180 DAYS
14		CR014	External iron storage located on passenger side of reel.	<b>Primary Securing:</b> Quick release pull pins with secondary retainment ring. <b>Secondary Retention:</b> Lanyard applied to pin.	PASS	Satisfactory	Check all securing pins and lanyard in place. Check for signs of corrosion.	180 DAYS
15		CR015	External iron support brackets on passenger side of reel.	<b>Primary Securing:</b> Bolted with U-bolts to frame. <b>Secondary Retention:</b> Lock nuts applied to U-bolts.	PASS	Satisfactory	Check all securing bolts/lock nuts in place. Check for signs of corrosion.	180 DAYS
16		CR016	Levelwind lead screw.	<b>Primary Securing:</b> Bolted onto levelwind arm. <b>Secondary Retention:</b> Lock nuts applied to bolts.	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS



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### COIL TUBING MAST UNIT

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INSPECTION AREA: REEL AND LEVELWIND					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
17		CR017	Levelwind hydraulic drive motor.	<b>Primary Securing:</b> Bolted onto levelwind arm. <b>Secondary Retention:</b> Lock nuts applied to bolts.	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS
18		CR018	Levelwind trolley	<b>Primary Securing:</b> Bolted onto levelwind arm. <b>Secondary Retention:</b> Lock nuts applied to bolts.	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS
19		CR019	Cable carrier system on levelwind.	<b>Primary Securing:</b> Bolted onto levelwind arm. <b>Secondary Retention:</b> Lock nuts applied to bolts.	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS
20		CR020	Reel platform handrails located on driver and passenger sides.	<b>Primary Securing:</b> Pinned through handrails. <b>Secondary Retention:</b> Sprin catch holing pins in place. 2 per handrail.	 PASS	Satisfactory	Check all securing pins in place. Check for signs of corrosion.	180 DAYS



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## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-005

INSPECTION AREA: REAR DECK					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
1		CR001	Argus lube tank located under levelwind arm.	<b>Primary Securing:</b> Bolted onto rear deck. <b>Secondary Retention:</b> Wedge lock washers applied to bolts.	PASS	Satisfactory - has been removed from unit	Check all securing bots/wedge lock washers in place. Check or signs of corrosion.	180 DAYS
2		CR002	BOP hose wrapping posts.	<b>Primary Securing:</b> Bolted onto rear deck. <b>Secondary Retention:</b> Wedge lock washers applied to bolts.	PASS	Satisfactory	Check all securing bots/wedge lock washers in place. Check for signs of corrosion.	180 DAYS
3		CR003	Handrails on both driver and passenger side.	<b>Primary Securing:</b> Bolted onto rear deck. <b>Secondary Retention:</b> Wedge lock washers applied to bolts.	PASS	Satisfactory	Check all securing bots/wedge lock washers in place. Check for signs of corrosion.	180 DAYS
4		CR004	Tubing guide ramp.	<b>Primary Securing:</b> Bolted onto rear deck. <b>Secondary Retention:</b> Wedge lock washers / lock nuts applied to bolts.	PASS	Satisfactory	Check all securing bots/wedge lock washers or lock nuts in place. Check for signs of corrosion.	180 DAYS



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## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-005

INSPECTION AREA: REAR DECK					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
5		CR005	Stripper lube tank located on driver side or read deck.	<b>Primary Securing:</b> <b>Bolted onto rear deck.</b> <b>Secondary Retention:</b> <b>Wedge lock washers / lock nuts applied to bolts.</b>	PASS	Satisfactory	Check all securing bots/wedge lock washers or lock nuts in place. Check for signs of corrosion.	180 DAYS
6		CR006	Stripper lube pump located on driver side or read deck.	<b>Primary Securing:</b> <b>Bolted onto rear deck.</b> <b>Secondary Retention:</b> <b>Lock nuts applied to bolts.</b>	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS
7		CR007	Stripper lube pump cover plate located on driver side or read deck.	<b>Primary Securing:</b> <b>Bolted onto rear deck.</b> <b>Secondary Retention:</b> <b>Lock nuts applied to bolts.</b>	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS
8		CR008	Stripper lube pump valves and filters located on driver side or read deck on cover plate.	<b>Primary Securing:</b> <b>Bolted onto cover plate.</b> <b>Secondary Retention:</b> <b>Lock nuts applied to bolts.</b>	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS



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## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-005

INSPECTION AREA: REAR DECK					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
9		CR009	Side platform handrails when in storage.	<b>Primary Securing:</b> Storage bracket retaining handrails. <b>Secondary Retention:</b> 3 brackets as redundancy.	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS
10		CR010	Handrail storage 6 off in total.	<b>Primary Securing:</b> Bolted through handrails bracket. <b>Secondary Retention:</b> lock nuts applied to bolts. Landyard to pins	PASS	Satisfactory	Check all securing bots/lock nuts and lanyards in place. Check for signs of corrosion	180 DAYS
11		CR011	Half moon wire storage on driver and passenger side.	<b>Primary Securing:</b> Bolted through pipe clamp. <b>Secondary Retention:</b> lock nuts applied to bolts.	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS
12		CR012	Mast guy wire eye connection. Located driver and passenger side.	<b>Primary Securing:</b> Sized pin with cotter pin preventing pin removal. <b>Secondary Retention:</b> Cotter pin.	PASS	Satisfactory - cotter pins are not to be reused. Replace with new cotter pin any time they are removed. Open fully.	Check all securing bolts/lock nuts are in place. Check for signs of corrosion. Check integrity of cotter pin.	180 DAYS



CLIENT NAME: HALLIBURTON HPS

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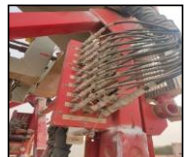
COMPLETION DATE: 23/05/2024



## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-005

INSPECTION AREA: REAR DECK					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
13		CR013	Mast guy wire support. Located driver and passenger side.	<b>Primary Securing:</b> Bolted onto rear deck. <b>Secondary Retention:</b> Wedge lock washers applied to bolts.	PASS	Satisfactory	Check all securing bots/wedge lock washers in place. Check for signs of corrosion.	180 DAYS
14		CR014	Mast lift cylinder. 2 off in total. Located passenger and driver side.	<b>Primary Securing:</b> Sized pin through lugs. <b>Secondary Retention:</b> Cotter pin through sized pin.	PASS	Satisfactory - cotter pins are not to be reused. Replace with new cotter pin any time they are removed. Open fully.	Check all securing pins and lanyard in place. Check for signs of corrosion.	180 DAYS
15		CR015	Counter balance valves fitted directly to mast raise cylinders.	<b>Primary Securing:</b> Bolted onto rear deck. <b>Secondary Retention:</b> Wedge lock washers applied to bolts.	PASS	Satisfactory	Check all securing bots/wedge lock washers in place. Check for signs of corrosion.	180 DAYS
16		CR016	Mast bulkhead hose plate on driver and passenger side at trailer rear.	<b>Primary Securing:</b> Bolted onto support frame. <b>Secondary Retention:</b> Lock nuts applied to bolts.	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS

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### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-005

INSPECTION AREA: REAR DECK					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
17		CR017	BOP bulkhead hose plate on passenger side at trailer rear.	<b>Primary Securing:</b> Bolted onto trailer deck. <b>Secondary Retention:</b> Lock nuts applied to bolts.	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS
18		CR018	Track stack bulkhead box on passenger side at trailer rear.	<b>Primary Securing:</b> Bolted onto trailer deck. <b>Secondary Retention:</b> Lock nuts applied to bolts.	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS
19		CR019	Rigsmart display located on driverside at rear of trailer.	<b>Primary Securing:</b> Bolted onto welded bracket. <b>Secondary Retention:</b> Wedge lock washers applied to bolts.	PASS	Satisfactory	Check all securing bots/wedge lock washers in place. Check for signs of corrosion.	180 DAYS
20		CR020	Rigsmart sensor located at rear of trailer.	<b>Primary Securing:</b> Bolted onto tapped plate. <b>Secondary Retention:</b> Wedge lock washers applied to bolts.	PASS	Satisfactory	Check all securing bots/wedge lock washers in place. Check for signs of corrosion.	180 DAYS



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## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

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INSPECTION AREA: REAR DECK					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
20		CR020	2 off works lights located at very rear of trailer.	<b>Primary Securing:</b> Bolted onto mast support bracket. <b>Secondary Retention:</b> Wedge lock washers applied to bolts.	PASS	Satisfactory	Check all securing bots/wedge lock washers in place. Check for signs of corrosion	180 DAYS
20		CR020	Rear working platform.	<b>Primary Securing:</b> Bolted to platform frame. <b>Secondary Retention:</b> Lock nuts applied to bolts.	PASS	Satisfactory	Check all securing bots/lock nuts in place. Check for signs of corrosion.	180 DAYS
20		CR020	Rear working platform tilt cylinder.	<b>Primary Securing:</b> Pinned to platform frame. <b>Secondary Retention:</b> Securing pin through pivot pin.	PASS	Satisfactory	Check all securing pins in place. Check for signs of corrosion.	180 DAYS



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## Dropped Object Survey Inspection Book

### COIL TUBING MAST UNIT

Report No: QC-24/HALL-HPS-005

INSPECTION AREA: REAR DECK					Serial Number: 106785-000-1			
AREA SPECIFIC DESCRIPTION								
ITEM	PHOTOGRAPH	REF	DESCRIPTION	FASTENING METHOD	CONDITION	COMMENTS	HOW TO INSPECT	FREQUENCY
20		CR020	Rear working platform lift cylinder.	<p>Primary Securing: Pinned to trailer frame.</p> <p>Secondary Retention: Cotter pin through pivot pin.</p>	PASS	Satisfactory - cotter pins are not to be reused. Replace with new cotter pin any time they are removed. Open fully.	Check all securing pins in place. Check for signs of corrosion.	180 DAYS
20		CR020	Rear working platform height locking pins.	<p>Primary Securing: Pull pin through support frame.</p> <p>Secondary Retention: R-clip through pull pin.</p>		Satisfactory - all parts held with lanyards.	Check all securing pins in place. Check for signs of corrosion.	180 DAYS

