



Australian Government

RIINHB220 Assist coil tube drilling

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

Application

This unit describes the skills and knowledge required to assist coiled tubing in drilling. It prepares individuals to assist in installing and handling storage reels, tubing snake connectors, and set screw tubing dimples, assist bottom hole assembly operations, and with tripping in and out with coil tubing.

It applies to those working in operational roles. They generally perform tasks involving a broad range of skilled applications in a wide variety of contexts, which may involve some discretion and judgement in selecting equipment, services and contingency measures.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Users must check requirements with relevant body before applying the unit.

Unit Sector

Drilling

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare to assist coiled tubing	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply documentation required to assist coil tube drilling operations and confirm work activity is compliant 1.3 Identify and minimise environmental issues and potential hazards, and assess and address risks within scope of own role and according to workplace procedures 1.4 Select and wear personal protective equipment required for work activity

ELEMENT	PERFORMANCE CRITERIA
	1.5 Communicate with other personnel at site according to work requirements and confirm briefings and handover details are communicated and received 1.6 Check, fit and replace restraining devices on all pressure hoses as required 1.7 Raise alarm and report as required
2. Assist storage reel installation	2.1 Position crane hook to centre of storage reel 2.2 Hoist the storage reel over the centre of the carrier and lower into saddles 2.3 Lock down storage reel with retainer brackets and set tension screws 2.4 Install circulating equipment
3. Assist storage reel removal	3.1 Remove mud tank side hoses, swivel and cross over 3.2 Line up saddles and cut excess coil tubing on rig floor with casing cutter 3.3 Align saddles to remove storage reel 3.4 Install dog nut and chain coil 3.5 Cut coil tubing 3.6 Open level wind box, shut off motor and lockout rig and open storage reel saddles 3.7 Remove lockout and prepare to pick up coil 3.8 Measure amount of coil cut and record remaining length
4. Assist installation of tubing snake connector	4.1 Prepare coil tubing ends 4.2 Check the o-rings for die retention are not stretched out 4.3 Separate two-piece tubing snake connector in middle at the threads 4.4 Size, install and tighten threaded half of tubing snake connector into tail end of coil tubing on the storage reel 4.5 Size, install and tighten threaded half of tubing snake connector into tail end of coil tubing on the injector side 4.6 Align tubing connector up and screw two tubing stake connector pieces together at centre treads
5. Assist handling of tubing snake connector	5.1 Inspect derrick and rig floor for equipment 5.2 Monitor workplace and communicate with driller as required while conducting slip and cut of coil 5.3 Run coil with tubing snake connector and confirm safe distance of injector from iron roughneck and other objects
6. Assist installation of set screw tubing dimple	6.1 Prepare coil tubing end with a grinder 6.2 Install dimple template

ELEMENT	PERFORMANCE CRITERIA
	6.3 Tighten all set screws on dimple template 6.4 Loosen screws and remove template 6.5 Deepen template indents with a drill to dimple screw depth 6.6 Inspect tubing dimple seals 6.7 Install tubing dimple 6.8 Install dimple set screws
7. Assist bottom hole assembly operations	7.1 Prepare subs for use 7.2 Place float on bit and install bit sub onto bit 7.3 Stab drill collar in bit sub and make up drill collar into bit sub 7.4 Pick up sub and position where needed for stabbing into stump 7.5 Guide driller stabbing the dimple into the bottom hole assembly on the stump and confirm dimple is lined up to prevent from cross threading 7.6 Apply make-up tong to dimple while making up bottom hole assembly 7.7 Apply breakout tong to dimple and make up tong to BHA and torque to specifications
8. Assist tripping in with coil tubing	8.1 Confirm the lube tube is down and air bag inflated on flow T 8.2 Confirm arch pin is retracted while tripping in and free movement of the arch 8.3 Grease and inspect injector as per industry standards
9. Assist tripping out with coil tubing	9.1 Verify level wind is lined up ready to trip out 9.2 Check the air bag on flow T is still inflated 9.3 Verify level wind continuously stays in with coil while tripping out 9.4 Assist lifting the lube tube when bottom hole assembly reaches 75 metres prior to pulling out of hole
10. Assist slipping and cutting of coil tubing-grinder/rod cutter	10.1 Place tubing dimple at the desired working height 10.2 Place the hole cover in position 10.3 Removing tubing dimple 10.4 Run coil tubing through table to acceptable height while taking precautions to reduce stress on coil 10.5 Cut coil tubing with grinder/rod cutter 10.6 Remove with double wrapping sling and wire line 10.7 Lay down through v door.

ELEMENT	PERFORMANCE CRITERIA
	10.8 Measure length cut off to keep accurate length

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Reading	Identifies and interprets information from workplace procedures, documentation and regulations
Writing	Produces and completes workplace reports using appropriate vocabulary, grammatical structures and conventions
Self-management	Monitors and minimises own exposure to worksite hazards during activities

Unit Mapping Information

New unit

Links

Companion Volume implementation guides is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>
