



Australian Government

RIINHB326 Conduct 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 conduct coil tubing in drilling. It prepares individuals to install and remove storage reel, trip out with coil tubing and slip and cut coil tubing-grinder/rod cutter.

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 for coiled tubing	1.1 Obtain, confirm and apply work instructions 1.2 Access, interpret and apply coil tube drilling documentation 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 activities 1.5 Communicate with other personnel at site according to work requirements and confirm briefings and handover details are

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	<p>communicated and received</p> <p>1.5 Select equipment, tools and equipment required to carry out tasks, check for serviceability and rectify or report any faults within scope of own role</p> <p>1.6 Check restraining devices on all pressure hoses</p> <p>1.7 Fit and replace restraining devices on pressure hoses as required</p> <p>1.8 Raise alarm and report as required</p>
2. Install storage reel	<p>2.1 Position the crane hook to the centre of the storage reel</p> <p>2.2 Hoist the storage reel over the centre of the carrier and lower into saddles</p> <p>2.3 Lock down the storage reel with retainer brackets and set tension screws</p> <p>2.4 Install circulating equipment</p>
3. Remove storage reel	<p>3.1 Remove mud tank side hoses, swivel and cross over</p> <p>3.2 Line up saddles and cut excess coil tubing on rig floor with casing cutter</p> <p>3.3 Align saddles to remove storage reel</p> <p>3.4 Install dog nut and chain coil</p> <p>3.5 Cut coil tubing according to manufacturer and work requirements</p> <p>3.6 Open level wind box, shut off the motor and lockout rig and open storage reel saddles</p> <p>3.7 Remove the lockout and prepare to pick up the coil</p> <p>3.8 Measure amount of coil cut and record remaining length</p>
4. Install tubing snake connector	<p>4.1 Prepare coil tubing ends</p> <p>4.2 Conduct NDT crack test on the tubing stake connector</p> <p>4.3 Check the o-rings for die retention are not stretched out</p> <p>4.4 Separate the two-piece tubing snake connector in the middle at the threads</p> <p>4.5 Size, install and tighten threaded half of tubing snake connector into the tail end of the coil tubing on the storage reel</p> <p>4.6 Size, install and tighten threaded half of tubing snake connector into tail end of coil tubing on the injector side</p> <p>4.7 Align tubing connector up and screw two tubing stake connector pieces together at centre threads</p> <p>4.8 Perform and pull test on the tubing snake and confirm that the connector is locked in prior to removing chains</p>
5. Handle tubing snake	5.1 Inspect derrick and rig floor for equipment

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connector	5.2 Raise derrick until injector coil tubing end and storage reel coil tubing line up 5.3 Check the integrity of the tubing stake connection by performing a pull test 5.4 Lock out floor motor according to manufacturer requirements 5.5 Remove storage reel retention chain and dog nut 5.6 Remove lock from the floor motor 5.7 Engage storage reel while maintaining the correct pressure 5.8 Run coil with tubing stake connector through injector making cuts until the tubing snake connector is completely through the injector
6. Install set screw tubing dimple	6.1 Prepare coil tubing ends with a grinder 6.2 Install the dimple template 6.3 Tighten all set screws on the dimple template 6.4 Loosen screws and remove template 6.5 Deepen the template indents with a drill to dimple screw depth 6.6 Install the tubing dimple and dimple set screws according to manufacturer requirements
7. Conduct bottom hole assembly operations	7.1 Prepare subs for use 7.2 Place float on bit and install bit sub onto bit 7.3 Run drill collar up v-door and pick up with top drive and elevators 7.4 Stab drill collar in bit sub and make up drill collar into bit sub 7.5 Pick up sub and position where needed for stabbing into stump 7.6 Stab the tubing dimple into the bottom hole assembly on the stump 7.7 Apply make up tong to dimple while rotating table to make up BHA 7.8 Apply breakout tong to dimple and make up to BHA while torqueing up BHA
8. Tripping in with coil tubing	8.1 Set bottom hole assembly depths at rotary Kelly bushing before lowering the lube tube 8.2 Confirm lube tube is down and air bag inflated on flow T 8.3 Confirm stripping head is deflated 8.4 Confirm the reel drag is set to no higher than 1000 psi 8.5 Set the traction pressure on the injector as low as possible without coil tubing slippage 8.6 Verify the trip speed with the Rig Manager

ELEMENT	PERFORMANCE CRITERIA
	8.7 Verify level wind is continuously in line with coil tubing, depths are tracking correctly and conduct flow checks at the shaker box
9. Tripping out with coil tubing	9.1 Grease and inspect injector as per industry standards 9.2 Check the air bag on flow T is still inflated 9.3 Verify stripper rubber on the injector is inflated to the correct pressure, level wind is continuously in line with coil tubing and all depths are tracking at all times 9.4 Verify the trip speed with the Rig Manger 9.5 Lift the lube tube when bottom hole assembly reaches 75 metres prior to pulling out of hole 9.6 Conduct flow checks at specified intervals
10. Slip and cut 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 Remove tubing dimple 10.4 Run coil tubing through table to correct working height in cellar 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

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	<ul style="list-style-type: none"> Identifies and interprets information from workplace and documentation
Oral Communication	<ul style="list-style-type: none"> Uses verbal communication techniques to communicate with others

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>