

Request for completion components for UGS wells for 2015

Customer: NAFTA a.s., UGS Division

Subject: Repair of used christmas trees and modification them for hydraulic control of subsurface safety valve from surface.

Description: Christmas tree of working pressure 21 MPa (3000 psi). Master gate valve 3 1/8" – 21 MPa. Swab gate valve 3 1/8" – 21 MPa. Wing gate valves 2 1/16" – 21 MPa. Tubing head spool 11" x 7 1/16" – 21 MPa. Gate valve on the tubing head spool 2 1/16" – 21 MPa. See the picture "Christmas tree before repair" being enclosed below.

Manufacturer: Manufacturer of the christmas trees was NAFTA a.s.. Drawing documentation is not available.

Supplier: Supplier must be company producing christmas trees or certificated company making repair of christmas trees.

Date of delivery: 10/2015

Specification of repair:

Item	Amount	Description (See also the picture "Christmas tree after repair" being enclosed below.)
1	10	<p>Christmas tree 3000 psi (21 MPa). API Spec.6A 19th Edition. Material Class: AA. Temperature Class: P (-29°C - +82°C). PSL 1, PR 1.</p> <p>Tubing head spool section 11" x 7 1/16". Secondary seal for 7" casing. Inside diameter 159 mm of guider (Bit Pilot) above secondary sealings.</p> <p>On the right side: Gate valve 2 1/16" (from delivered christmas tree) with threaded flange with hole with 2" LP thread with threaded plug with needle valve with gauge. Check and repair the gate valve if it is out of order.</p> <p>On the left side: Threaded flange with hole with 2" LP thread with blind plug 2" LP.</p> <p>Tubing hanger new with top Box 3 1/2" EU x bottom Box 3 1/2" 9,2 lb/ft (Voest Alpine) thread. Tubing hanger with thread for test plug. Type of thread of the test plug shall be made according to the thread from the test plug being delivered by customer. Tubing hanger shall be adapted for installation of 1/4" control line to surface control of subsurface safety valve.</p> <p>Adapter new 7 1/16" x 3 1/8" shall be adapted for installation of 1/4" control line to surface control of subsurface safety valve.</p> <p>Control line has to go through tubing hanger and adapter without interruption of control line. In the place of the end of the hole for control line on the outside of the adapter shall be threaded hole with 1" LP thread.</p> <p>Master gate valve 3 1/8" new, AA, PSL 2, PR 1.</p> <p>Gate valve 3 1/8" NAFTA (from delivered christmas tree) with welding</p>

	<p>neck with outside diameter 88,9 mm x inside diameter 74,4 mm on the left side. Check and repair the gate valve if it is out of order.</p> <p>Without gate valve on the right side. On the right side threaded flange 3 1/8 with hole with 2" LP thread with threaded plug.</p> <p>Swab gate valve 3 1/8" NAFTA (from delivered christmas tree) with threaded flange 3 1/8" with hole with 3" LP thread with threaded plug with needle valve with gauge. Check and repair swab valve if it is out of order.</p> <p>Including bolts and gaskets and plastic packing material for the secondary seal assembly.</p> <p>Yellow colour.</p> <p>Documentation:</p> <p>Protocol of pressure test</p> <p>Letter of conformity</p> <p>Operating and service instruction.</p> <p>Note</p> <p>Attach a picture of christmas tree to your quotation.</p>
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Christmas tree before repair



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