

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 15 83 2382

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2009/056938 A1 (TREVIRANUS JOACHIM [DE] ET AL) 5 March 2009 (2009-03-05) * paragraph [0021] - paragraph [0025]; figures 1-3 *	1,3,5-7, 11	INV. E21B47/024 E21B47/022 G01C21/16 E21B25/16
A	WO 2014/007796 A1 (HALLIBURTON ENERGY SERV INC [US]; LOZINSKY CLINT P [CA]; ZACHARKO JONA) 9 January 2014 (2014-01-09) * claims 1-6; figures 1-4 *	1-11	
A	US 2011/253452 A1 (BEVERSHAUSEN CHRIS C [US] ET AL) 20 October 2011 (2011-10-20) * paragraph [0020]; figures 1-3 *	1-11	
A	US 2011/196612 A1 (BONAVIDES CLOVIS [US] ET AL) 11 August 2011 (2011-08-11) * paragraph [0041] - paragraph [0049]; figure 3 *	1-11	
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			TECHNICAL FIELDS SEARCHED (IPC)
			E21B
Place of search Munich		Date of completion of the search 6 February 2018	Examiner Strømmen, Henrik
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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06-02-2018

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