

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

BAKER HUGHES INCORPORATED and
BAKER HUGHES OILFIELD OPERATIONS LLC,
Petitioners

v.

PACKERS PLUS ENERGY SERVICES INC.,
Patent Owner

Case IPR2016-01506
Patent 7,861,774

**EXCLUSIVE LICENSEE RAPID COMPLETIONS LLC'S UPDATED
EXHIBIT LIST**

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Exhibit List	
Exhibit	Description
2003	Email correspondence between J. Nemunatis and M. Garrett
2004	R. Seale <i>et al.</i> , <i>Effective Stimulation of Horizontal Wells—A New Completion Method</i> , SPE 106357, Society of Petroleum Engineers (2006)
2005	Exploration and Development, Alberta Oil Magazine
2006	<i>Leading the Way: Multistage fracking pioneer Packers Plus plays major role in cracking the tight oil code</i> , Canadian OilPatch Technology Guidebook (2012)
2007	Financial Post, “ <i>Entrepreneur of the Year: National Winner</i> ”
2008	<i>Innovation—Groundbreaking Innovation in Calgary</i> , Calgary Herald (Feb. 12, 1014)
2009	J. Chury, <i>Packers Plus Technology Becoming the Industry Standard</i> , The Oil Patch Report (Dec. 2010/Jan. 2011)
2010	P. Roche, <i>Open-Hole or Cased and Cemented</i> , New Technology Magazine (Nov. 2011)
2011	R. Ghiselin, Qittitot Consulting, <i>Sleeves vs. Shots—The Debate Rages</i> (Aug. 2011)
2012	Van Dyke, Kate, “ <i>Fundamentals of Petroleum</i> ,” Fourth Ed. (1997)
2013	“Proven Performance: Read how Packers Plus systems and solutions have delivered results around the world,” Packers Plus Energy Services Inc., accessed May 24, 2016, http://packersplus.com/proven-performance/?type=case-study&system=stackfrac-hd-system&pag=3%20#p3
2014	A. Casero, <i>Open Hole Multi-Stage Completion System in Unconventional Plays: Efficiency, Effectiveness and Economics</i> , SPE 164009 (2013)
2015	<i>Encyclopedia of Hydrocarbons</i> , Chapter 3.1: Upstream technologies
2016	D. Lohoefer, <i>Comparative Study of Cemented versus Uncemented Multi-Stage Fractured Wells in the Barnett Shale</i> , SPE 135386, Society of Petroleum Engineers (2010)
2017	Ali Daneshy Deposition Transcript (11/9/2016)
2018	Packers Plus advertising brochure (2010)
2019	Baker Hughes, “FracPoint Completion System Isolated Openhole Horizontal Well in Lower Huron Shale” (2011)

2020	Baker Hughes, Enhancing Well Performance Through Innovative Completion Technologies,” presentation, (Sept. 10-12, 2012)
2021	Canadian Society for Unconventional Resources, Press Release, “Unconventional Industry Awards Innovative Thinking” (Oct. 3, 2012)
2022-2038	reserved
2039	Weatherford presentation titled, “Openhole Completion Systems
2040	<i>Halliburton v. Packers Plus</i> , Fourth Amended Petition
2041	Baker Hughes’ and Peak Completions’ Subpoena to Halliburton
2042	<i>Rapid Completions v. Baker Hughes</i> , et al. Order dismissing Pegasi
2043	reserved
2044	Vikram Rao Deposition Transcript
2045	Westin, Scott, <i>Private Property</i> , PwC, (Jan. 2, 2013)
2046	Yager, David, <i>Court Case Now On: It’s Packers Plus Versus The World – Here’s What’s at Stake for Multi-stage Horizontal Completion Companies</i> , EnergyNow Media (Feb. 23, 2017)
2047	BH00364675, CONFIDENTIAL Ball activated sliding sleeves report
2048	UNREDACTED J.J. Girardi Decl.
2049	REDACTED J.J. Girardi Decl.
2050	UNREDACTED H. McGowen Decl.
2051	REDACTED H. McGowen Decl.
2052	Baker Hughes Design Documents
2053	Packers Plus Design Document
2054	Rigzone, Schlumberger Acquires Stake in Packers Plus (Nov. 22, 2005)
2055	Britt, L. and Smith, M., <i>Horizontal Well Completion, Stimulation Optimization, and Risk Mitigation</i> , SPE 125526 (2009)
2056	Packers Plus case study, StackFRAC system provides superior production economics
2057	Packers Plus Case Study, StackFRAC HD system enables high stimulation rates

2058	Packers Plus StackFRAC Video, http://packersplus.com/solution/stackfrac-hd-system/
2059	Baker Hughes FracPoint Video, https://www.youtube.com/watch?v=s5ZQCRRZzXE
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2061	Business News Network Packers Plus Feature
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2063	Crosby, D.G., “Methodology to Predict the Initiation of Multiple Transverse Fractures from Horizontal Wellbores” (2001)
2064	Kaiser, P., “Hydraulic Fracturing Mine Back Trials – Design Rationale and Project Status” (2013)
2065	Stoltz, L.R., “Probabilistic Reserves Assessment Using A Filtered Monte Carlo Method In a Fractured Limestone Reservoir” SPE 39714 (1998)
2066	Emanuele, M. A., “A Case History: Completion and Stimulation of Horizontal Wells with Multiple Transverse Hydraulic Fractures in the Lost Hills Diatomite” SPE 39941 (1998)
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2069	Ahmadzamri, A.F., “Development and Testing of Advanced Wireline Conveyance Technology for Rugose Open Hole Conditions” IPTC 17442 (2014)
2070	Calixto, Eduardo, “Gas and Oil Reliability Engineering, Modeling and Analysis” 2nd Edition (2016)
2071	Cramer, D.D., “The Application of Limited-Entry Techniques in Massive Hydraulic Fracturing Treatments” SPE 16189 (1987)
2072	Lloyd, B., “Rotary steerable drilling improves deployment of advanced completion” World Oil, January 2011
2073	reserved
2074	Feng Yuan, “Single-Size-Ball Interventionless Multi-Stage Stimulation System Improves Stimulated Reservoir Volume

	and Eliminates Milling Requirements: Case Studies, SPE171183-MS, 2014
2075	A.B. Yost, “Hydraulic Fracturing of a Horizontal Well in a Naturally Fractured Reservoir: Gas Study for Multiple Fracture Design,” SPE 17759, 1988
2076	A.W. Layne, Insights Into Hydraulic Fracturing of a Horizontal Well in a Naturally Fractured Formation,” SPE 18255, 1988
2077	A.B. Yost, “Air Drilling and Multiple Hydraulic Fracturing of a 72 Slant Well in Devonian Shale,” SPE 21264, 1990
2078	H.H. Abass, A Case History of Completing and Fracture Stimulating a Horizontal Well, SPE 29443
2079	A.P. Damgaard, “A Unique Method for Perforating, Fracturing, and Completing Horizontal Wells, SPE 19282
2080	reserved
2081	UNREDACTED McGowen Supplemental Declaration
2082	Michael Delaney Declaration
2083	William Diggons Declaration
2084	REDACTED McGowen Supplemental Declaration
2085	Ali Daneshy Deposition Transcript (3/29/2017)
2086	Rigzone TRAINING, How Does Acidizing Work to Stimulate Production?, http://www.rigzone.com/training/insight.asp?insight_id=320
2087	Carl T. Montgomery, Hydraulic Fracturing—History of an Enduring Technology, 2010
2088	R.E. Hurst, “Development and Application of ‘Frac’ Treatments in the Permian Basin,” SPE 405 (1954).
2089	U.S. Patent No. 556,669
2090	reserved
2091	Packers Plus Declaration
2092	V. Rao, 1984 and Beyond: The Advent of Horizontal Wells (JPT Oct. 2007)
2093	V. Rao & R. Rodriguez, “Accelerating Technology Acceptance: Hypotheses and Remedies for Risk-Averse Behavior in Technology Acceptance, SPE 98533 (2005)
2094	First Supplemental Berryman Report
2095	U.S. Pat. No. 7,571,765
2096	CONFIDENTIAL Weatherford Sales Playbook

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