

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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BAKER HUGHES INCORPORATED and  
BAKER HUGHES OILFIELD OPERATIONS LLC,  
Petitioners

v.

PACKERS PLUS ENERGY SERVICES INC.,  
Patent Owner

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Case IPR2016-01496  
Patent 7,134,505

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

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

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

<b>2058</b>	Packers Plus StackFRAC Video, <a href="http://packersplus.com/solution/stackfrac-hd-system/">http://packersplus.com/solution/stackfrac-hd-system/</a>
<b>2059</b>	Baker Hughes FracPoint Video, <a href="https://www.youtube.com/watch?v=s5ZQCRRZzXE">https://www.youtube.com/watch?v=s5ZQCRRZzXE</a>
<b>2060</b>	reserved
<b>2061</b>	Business News Network Packers Plus Feature
<b>2062</b>	Ingersoll, C, “BP and the Deepwater Horizon Disaster of 2010” (Apr. 3, 2012)
<b>2063</b>	Crosby, D.G., “Methodology to Predict the Initiation of Multiple Transverse Fractures from Horizontal Wellbores” (2001)
<b>2064</b>	Kaiser, P., “Hydraulic Fracturing Mine Back Trials – Design Rationale and Project Status” (2013)
<b>2065</b>	Stoltz, L.R., “Probabilistic Reserves Assessment Using A Filtered Monte Carlo Method In a Fractured Limestone Reservoir” SPE 39714 (1998)
<b>2066</b>	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)
<b>2067</b>	Gaynor, Tom M., “Tortuosity Versus Micro-Tortuosity – Why Little Things Mean a Lot” SPE/IADC 67818 (2001)
<b>2068</b>	Cramer, David, “Stimulating Unconventional Reservoirs: Lessons Learned, Successful Practices, Areas for Improvement” SPE 114172 (2008)
<b>2069</b>	Ahmadzamri, A.F., “Development and Testing of Advanced Wireline Conveyance Technology for Rugose Open Hole Conditions” IPTC 17442 (2014)
<b>2070</b>	Calixto, Eduardo, “Gas and Oil Reliability Engineering, Modeling and Analysis” 2nd Edition (2016)
<b>2071</b>	Cramer, D.D., “The Application of Limited-Entry Techniques in Massive Hydraulic Fracturing Treatments” SPE 16189 (1987)
<b>2072</b>	Lloyd, B., “Rotary steerable drilling improves deployment of advanced completion” World Oil, January 2011
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<b>2074</b>	Feng Yuan, “Single-Size-Ball Interventionless Multi-Stage Stimulation System Improves Stimulated Reservoir Volume

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

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