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INVESTIGATING PSEUDO-TRANSIENT PERFORATION EROSION

USING COMPUTATIONAL FLUID DYNAMICS (CFD)

FOR HYDRAULIC FRACTURING OPTIMIZATION

by

Brent Austin Kebert

Figure 1.1

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Author/Editor	CANADIAN INSTITUTE OF MINING AND METALLURGY., PETROLEUM SOCIETY OF CIM.	Rightsholder	Society of Petroleum Engineers (SPE)
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Date	01/01/1962		
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		Expected Presentation Date	2022-12-16
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Title, Description or Numeric Reference of the Portion(s)	Fig. 3—Unconventional vs. conventional wells.	Title of the Article/Chapter the Portion Is From	When Unconventional Becomes Conventional
Editor of Portion(s)	N/A	Author of Portion(s)	Ron G. Stefik; Ken Paulson
Volume of Serial or Monograph	50	Issue, if Republishing an Article From a Serial	11
Page or Page Range of Portion	70	Publication Date of Portion	2011-11-01

Figure 1.2 and Table 1.1

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		Rightsholder	Society of Petroleum Engineers (SPE)
Author/Editor	SOCIETY OF PETROLEUM ENGINEERS OF AIME., SOCIETY OF PETROLEUM ENGINEERS (U.S.)	Publication Type	Journal
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Title, Description or Numeric Reference of the Portion(s)	Fig. 9-Perforation friction pressure vs. time.	Title of the Article/Chapter the Portion Is From	Effects of Perforation-Entry Friction on Bottomhole Treating Analysis
Editor of Portion(s)	N/A	Author of Portion(s)	J.B. Crump; M.W. Conway
Volume of Serial or Monograph	40	Issue, if Republishing an Article From a Serial	08
Page or Page Range of Portion	1045	Publication Date of Portion	1988-08-01

Figure 2.1

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Publication Title	SPE JOURNAL	Country	United States of America
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Title, Description or Numeric Reference of the Portion(s)	Fig. 5—SEM images of rounded 40/70 sand.	Title of the Article/Chapter the Portion Is From	Proppant-Conductivity Testing Under Simulated Reservoir Conditions: Impact of Crushing, Embedment, and Diagenesis on Long-Term Production in Shales
Editor of Portion(s)	N/A		
Volume of Serial or Monograph	23	Author of Portion(s)	Abhinav Mittal; Chandra S. Rai; Carl H. Sondergeld
Page or Page Range of Portion	1307		
		Issue, if Republishing an Article From a Serial	04
		Publication Date of Portion	2018-06-18

Figure 2.2

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Publication Title	SPE production & operations	Country	United States of America
Author/Editor	Society of Petroleum Engineers (U.S.)	Rightsholder	Society of Petroleum Engineers (SPE)
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Title, Description or Numeric Reference of the Portion(s)	Fig. 19—Relationship of mass median particle diameter and idealized unstressed pack permeability.	Title of the Article/Chapter the Portion Is From	Proppants—What 30 Years of Study Have Taught Us
Editor of Portion(s)	N/A	Author of Portion(s)	R. J. Duenckel; R. D. Barree; S.. Drylie; L. G. O'Connell; K. L. Abney; M. W. Conway; N.. Moore; F.. Chen
Volume of Serial or Monograph	34	Issue, if Republishing an Article From a Serial	02
Page or Page Range of Portion	305	Publication Date of Portion	2018-09-25

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		Publication Type	Journal
Author/Editor	SOCIETY OF PETROLEUM ENGINEERS OF AIME., SOCIETY OF PETROLEUM ENGINEERS (U.S.)		
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Title, Description or Numeric Reference of the Portion(s)	FIG. 5-FINIAL POSITION OF SAND INJECTED LATE IN TREATMENT	Title of the Article/Chapter the Portion Is From	The Mechanics of Sand Movement in Fracturing
Editor of Portion(s)	N/A	Author of Portion(s)	L.R. Kern; T.K. Perkins; R.E. Wyant
Volume of Serial or Monograph	11	Issue, if Republishing an Article From a Serial	07
Page or Page Range of Portion	57	Publication Date of Portion	1959-07-01

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Title, Description or Numeric Reference of the Portion(s)	Fig. 3—An example of quantification of proppant dune geometry and average proppant mesh size distribution.	Title of the Article/Chapter the Portion Is From	Novel Learnings of Proppant Transport Behavior in Unconventional Hydraulic Fractures
Editor of Portion(s)	N/A	Author of Portion(s)	Amit Singh; Xinghui Liu; Jiehao Wang; Margaretha C. M. Rijken
Volume of Serial or Monograph	27		
Page or Page Range of Portion	2984	Issue, if Republishing an Article From a Serial	05
		Publication Date of Portion	2022-10-12

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Title, Description or Numeric Reference of the Portion(s)	Fig. 1-Process of detonation of a shaped charge with a cone shaped metallic liner and propagation of explosive wave	Title of the Article/Chapter the Portion Is From	Significance of Quality Control of Liner-Wall Symmetry on Shaped-Charge Perforator Performance
Editor of Portion(s)	N/A	Author of Portion(s)	Iflyenia Kececloglu
Volume of Serial or Monograph	06	Issue, if Republishing an Article From a Serial	02
Page or Page Range of Portion	205	Publication Date of Portion	1991-05-01

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Title, Description or Numeric Reference of the Portion(s)	Fig. 1-Perforation geometry.	Title of the Article/Chapter the Portion Is From	Semianalytical Productivity Models for Perforated Completions
Editor of Portion(s)	N/A	Author of Portion(s)	Metin Karakas; S. M. Tariq
Volume of Serial or Monograph	06	Issue, if Republishing an Article From a Serial	01
Page or Page Range of Portion	74	Publication Date of Portion	1991-02-01

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Date	01/01/1993	Publication Type	Journal
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Editor of Portion(s)	N/A	Author of Portion(s)	B.. Grove; J.. Harvey; L.. Zhan
Volume of Serial or Monograph	28	Issue, if Republishing an Article From a Serial	01
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Title, Description or Numeric Reference of the Portion(s)	FIGURE 2: Transverse fracture configuration.	Title of the Article/Chapter the Portion Is From	Methodology to Predict the Initiation of Multiple Transverse Fractures from Horizontal Wellbores
Editor of Portion(s)	N/A	Author of Portion(s)	D.G. CROSBY, Z. YANG, S.S. RAHMAN
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Editor of Portion(s)	N/A	Author of Portion(s)	Gongbo Long; Guanshui Xu
Volume of Serial or Monograph	22	Issue, if Republishing an Article From a Serial	02
Page or Page Range of Portion	646	Publication Date of Portion	2017-01-26

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Title, Description or Numeric Reference of the Portion(s)	Fig. 9 - H, proppant throughput relationship (100-mesh sand excluded).	Title of the Article/Chapter the Portion Is From	The Application of Limited-Entry Techniques in Massive Hydraulic Fracturing Treatments
Editor of Portion(s)	N/A	Author of Portion(s)	D.D. Cramer
Volume of Serial or Monograph	N/A	Issue, if Republishing an Article From a Serial	N/A
Page or Page Range of Portion	46	Publication Date of Portion	1987-03-08

Figures 2.11, 2.12, and 2.13

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Title, Description or Numeric Reference of the Portion(s)	Fig. 9, Fig. 10, Fig. 16	Title of the Article/Chapter the Portion Is From	Integrating Distributed Acoustic Sensing, Treatment-Pressure Analysis, and Video-Based Perforation Imaging To Evaluate Limited-Entry-Treatment Effectiveness
Editor of Portion(s)	N/A		
Volume of Serial or Monograph	35	Author of Portion(s)	David Cramer, Kyle Friehauf, Glyn Roberts, Jeff Whittaker
Page or Page Range of Portion	736, 740	Issue, if Republishing an Article From a Serial	04
		Publication Date of Portion	2020-11-12

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Figure 2.15

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Figures 3.6, 3.8, and 3.9

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