



US008191622B2

(12) **United States Patent**  
**Comeaux et al.**

(10) **Patent No.:** **US 8,191,622 B2**  
(45) **Date of Patent:** **Jun. 5, 2012**

(54) **VARYING ACCESS POINTS FOR TUBING AND CASING MONITORING AND CASING ANNULUS REMEDIATION SYSTEMS**

(75) Inventors: **David D. Comeaux**, Houston, TX (US);  
**James J. Howell**, Bryan, TX (US);  
**Richard Porteous**, Tippetty Ellon (GB);  
**Noel A. Monjure**, Cypress, TX (US);  
**Frank C. Adamek**, Spring, TX (US)

(73) Assignee: **Vetco Gray Inc.**, Houston, TX (US)

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 296 days.

(21) Appl. No.: **12/469,489**

(22) Filed: **May 20, 2009**

(65) **Prior Publication Data**

US 2009/0288832 A1 Nov. 26, 2009

**Related U.S. Application Data**

(60) Provisional application No. 61/054,666, filed on May 20, 2008.

(51) **Int. Cl.**

**E21B 19/08** (2006.01)

(52) **U.S. Cl.** ..... **166/88.4**; 166/77.1; 166/77.2

(58) **Field of Classification Search** ..... 166/77.1,  
166/77.2, 88.4, 90.1, 242.5, 277; 285/125.1,  
285/197, 198, 199

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,972,904 A \* 11/1990 Godare ..... 166/90.1  
5,027,903 A 7/1991 Gipson  
5,927,405 A 7/1999 Monjure et al.

6,186,239 B1 \* 2/2001 Monjure et al. .... 166/384  
6,200,068 B1 \* 3/2001 Bath et al. .... 405/184.1  
6,289,992 B1 9/2001 Monjure et al.  
6,315,046 B1 \* 11/2001 Jack et al. .... 166/312  
6,929,244 B1 8/2005 Law et al.  
7,069,995 B2 7/2006 Chan et al.  
7,309,058 B2 12/2007 Hunter et al.  
7,686,091 B2 3/2010 Jennings et al.  
2003/0111229 A1 6/2003 Clark  
2011/0278007 A1 \* 11/2011 Howell et al. .... 166/297

**FOREIGN PATENT DOCUMENTS**

GB 2333307 A 7/1999  
WO WO98/57028 12/1998

**OTHER PUBLICATIONS**

Search Report from GB Patent Application No. GB1107685.8 dated Jul. 5, 2011 (3 pages).

Co-pending U.S. Appl. No. 12/779,468, filed May 13, 2010.

\* cited by examiner

*Primary Examiner* — David Bagnell

*Assistant Examiner* — Richard Alker

(74) *Attorney, Agent, or Firm* — Bracewell & Giuliani LLP

(57) **ABSTRACT**

An adapter for connecting a casing annulus remediation system to a well having a wellhead with standard lateral ports. The adapter has a body with first and second ends. The first end of the adapter body has a substantially planar surface adapted to cover the lateral ports and be in abutting contact with the wellhead when the two are connected to one another. The second end of the adapter body has a planar surface positioned at an angle greater than 0 degrees and up to 90 degrees to the planar surface of the first end. The second end of the adapter is adapted to be connected to a casing annulus remediation system.

**13 Claims, 10 Drawing Sheets**

