



US007341117B2

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

(10) **Patent No.:** **US 7,341,117 B2**
(45) **Date of Patent:** **Mar. 11, 2008**

(54) **METHOD AND APPARATUS FOR A MONODIAMETER WELLBORE, MONODIAMETER CASING, MONOBORE, AND/OR MONOWELL**

(75) Inventors: **Glenda Wylie**, Spring, TX (US); **Frank Zamora**, Duncan, OK (US); **Beegamudre N. Murali**, Katy, TX (US); **Baireddy R. Reddy**, Duncan, OK (US); **Larry S. Eoff**, Duncan, OK (US); **Jimmie D. Weaver**, Duncan, OK (US); **John M. Wilson**, Duncan, OK (US); **Denise Berryhill**, Duncan, OK (US); **Russell M. Fitzgerald**, Waurika, OK (US); **Anne M. Culotta**, Houston, TX (US)

(73) Assignee: **Halliburton Energy Services, 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 0 days.

(21) Appl. No.: **11/656,223**

(22) Filed: **Jan. 22, 2007**
(Under 37 CFR 1.47)

(65) **Prior Publication Data**
US 2007/0187146 A1 Aug. 16, 2007

Related U.S. Application Data
(60) Division of application No. 11/153,046, filed on Jun. 15, 2005, now Pat. No. 7,225,879, which is a continuation of application No. 10/293,013, filed on Nov. 13, 2002, now Pat. No. 7,066,284.
(60) Provisional application No. 60/414,517, filed on Sep. 27, 2002, provisional application No. 60/335,132, filed on Nov. 14, 2001.

(51) **Int. Cl.**
C09K 8/04 (2006.01)
C09K 8/035 (2006.01)
E21B 7/26 (2006.01)
C09K 8/42 (2006.01)
(52) **U.S. Cl.** **175/72; 175/65; 166/295**
(58) **Field of Classification Search** None
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS
1,880,218 A 10/1932 Simmons
(Continued)
FOREIGN PATENT DOCUMENTS
GB 2172324 9/1986
(Continued)

OTHER PUBLICATIONS
OTC 8585; G Wylie, et al; *Case History, Well Completion and Servicing Strategies for the Hibernia Field*; 1998 Presented at the Offshore Technology Conference May 4-7, 1998; (pp. 109-124).
(Continued)

Primary Examiner—Zakiya W. Bates
(74) *Attorney, Agent, or Firm*—Conley Rose, P.C.

(57) **ABSTRACT**
An assembly and methods for constructing a MONOWELL includes a monodiameter casing disposed in a monodiameter wellbore having diametric efficiency with a monobore production delivery system disposed within the monodiameter casing. An assembly for constructing a monodiameter wellbore includes a bottomhole assembly having an overgauge hole drilling member, a directional steering assembly, a measurement while drilling tool, and a logging while drilling tool; a work string attached to the bottomhole assembly and extending to the surface; drilling fluids flowing through the work string and bottomhole assembly; chemical casing casing the borehole; expandable casing disposed in the wellbore; and a sealing composition disposed between the expandable casing and the wellbore.

37 Claims, 23 Drawing Sheets

