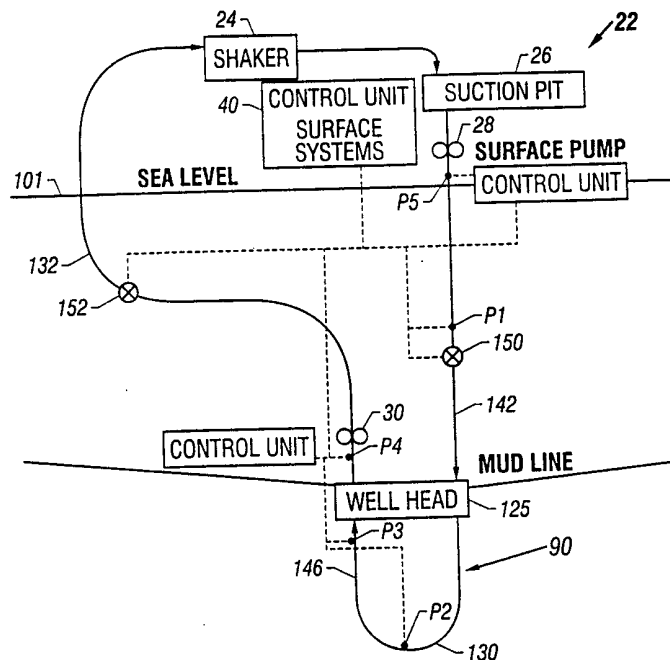




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<p>(21) International Application Number: PCT/US99/16150 (22) International Filing Date: 15 July 1999 (15.07.99) (30) Priority Data: 60/092,908 15 July 1998 (15.07.98) US 60/095,188 3 August 1998 (03.08.98) US 60/101,541 23 September 1998 (23.09.98) US 60/108,601 16 November 1998 (16.11.98) US (71) Applicant: DEEP VISION LLC [US/US]; 10th floor, 4 Greenway Plaza, Houston, TX 77046 (US). (72) Inventors: FINCHER, Roger; 23B Amherst Court, Conroe, TX 77304-1103 (US). WATKINS, Larry; 10915 Tulip Garden Court, Houston, TX 77065-3230 (US). MAY, Roland; Koenigsbergerstrasse 9, D-29225 Celle (DE). MCFARLANE, James, W.; 20203 Kempfords Court, Katy, TX 77450 (US). FONTANA, Peter; 3918 Byron, Houston, TX 77005 (US). (74) Agents: ROWOLD, Carl, A. et al.; Baker Hughes Incorporated, Suite 1200, 3900 Essex Lane, Houston, TX 77027 (US).</p>	<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 20 April 2000 (20.04.00)</p>	

(54) Title: SUBSEA WELLBORE DRILLING SYSTEM FOR REDUCING BOTTOM HOLE PRESSURE



(57) Abstract

The present invention provides drilling systems for drilling subsea wellbores. A suction line pump coupled to the annulus is used to control the bottom hole pressure during drilling operations, making it possible to use heavier drilling muds and drill to greater depths than would be possible without the suction pump. Various pressure, temperature, flow rate and kick sensors included in the drilling system provide signals to a controller that controls the suction pump, the surface mud pump, a number of flow control devices, and the optional delivery system.

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 99/16150

A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	EP 0 290 250 A (CONOCO INC) 9 November 1988 (1988-11-09) the whole document ---	1,6
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A		12
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Date of the actual completion of the international search

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PCT/US 99/16150

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