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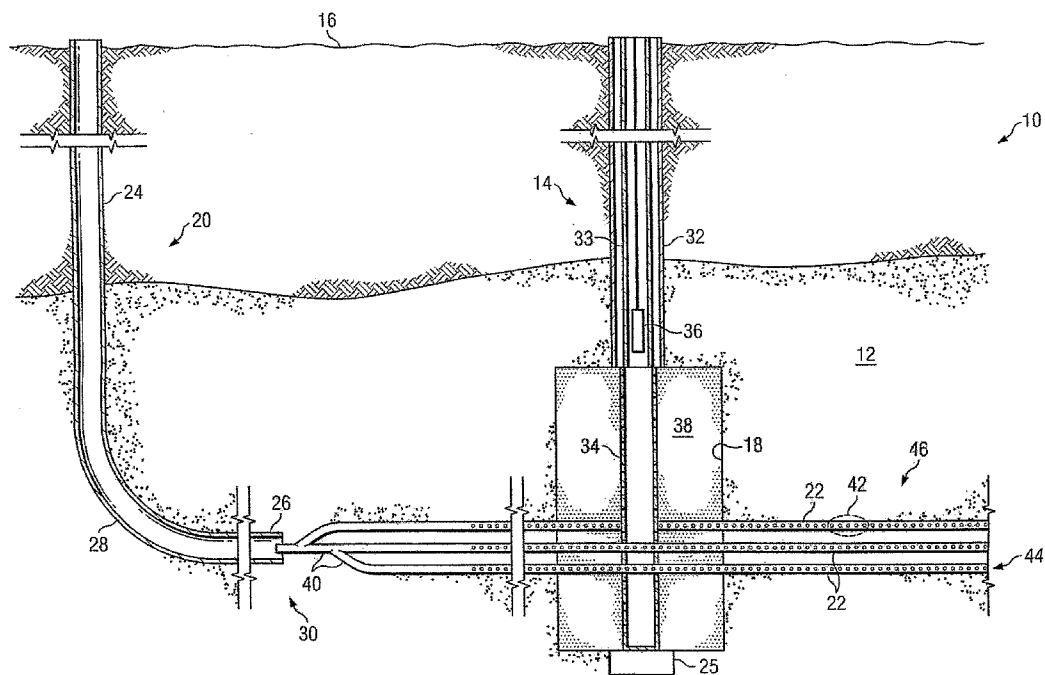
— with international search report

(88) Date of publication of the international search report:

5 April 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CAVITY WELL SYSTEM



(57) Abstract: A method for accessing a subterranean zone (12) includes forming a subterranean cavity (38) coupled to a land surface (16) and forming a plurality of substantially horizontal bores (22) extending at least partially into the subterranean zone (12) and intersecting the cavity (38) . Liners (40 , 44) may traverse the cavity . Also the cavity may be gravel packed (38) .

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/021057

A. CLASSIFICATION OF SUBJECT MATTER
INV. E21B43/00 E21B43/30 E21B43/04 E21B43/12

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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)

EPO-Internal, TULSA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 356 866 A (SAVINS ET AL) 2 November 1982 (1982-11-02) column 3, lines 20-53; figures 1-3	1-4, 9-20, 23, 24
X	US 2005/103490 A1 (PAULEY STEVEN R) 19 May 2005 (2005-05-19) the whole document & WO 2005/049964 A (CDX GAS, LLC; PAULEY, STEVEN, R) 2 June 2005 (2005-06-02) page 4, lines 6-14; figures 1-7 page 18, lines 1-16	1-4, 9-11
X	WO 2005/012688 A (CDX GAS, LLC; ZUPANICK, JOSEPH, A) 10 February 2005 (2005-02-10) figures 65,66	1
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Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
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- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

1 September 2006

Date of mailing of the international search report

04 JAN. 2007

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/021057

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/036023 A (CDX GAS, L.L.C; ZUPANICK, JOSEPH, A; RIAL, MONTY, H) 1 May 2003 (2003-05-01) figures 5b,6b	1,18
X	WO 94/21889 A (NORTH, JOHN) 29 September 1994 (1994-09-29) figures 13,15	1
A	US 4 442 896 A (REALE ET AL) 17 April 1984 (1984-04-17) figures 1,2	1
A	US 4 296 969 A (WILLMAN ET AL) 27 October 1981 (1981-10-27) figure 1	5,21
A	US 5 771 976 A (TALLEY ET AL) 30 June 1998 (1998-06-30) figure 1	5,21

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2006/021057

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-5, 9-21, 23-25

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/ US2006/ 021057

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5,9-21,23-25

Accessing a subterranean zone with traversing liners

2. claims: 6-8,22,26-34

Accessing a subterranean zone with gravel-packing

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2006/021057

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