FORM 51-102F3

MATERIAL CHANGE REPORT

ITEM 1 **Name and Address of Reporting Issuer:**

Detector Exploration Ltd.
Suite 1100, 520 - 5th Avenue S.W.
Calgary, Alberta, T2P 3R7
Telephone (403) 264-1880
Fax (403) 265-9105

ITEM 2 **Date of Material Change:**

March 18, 2005

ITEM 3 **News Release:**

Distribution through Canada Newswire service on March 23, 2005.

ITEM 4 **Summary of Material Change:**

Detector has completed the previously announced purchase of oil & gas assets in the Ribstone area of Alberta from BigStick Energy Ltd. for a total base purchase price of $90,000 (subject to adjustments) payable all in cash.

ITEM 5 **Full Description of Material Change:**

See copy of press release attached.

ITEM 6 **Confidential Report**
Reliance on Section 7.1(2) or (3) of NI 51-102:

N.A. This Report is not being filed on a confidential basis.

ITEM 7 **Omitted Information - Confidential Report**
Reliance on Section 7.1(2) of NI 51-102:

N.A. This Report is not being filed on a confidential basis.

TEM 8 **Executive Officer:**

Ronald E. Alexander, President
Suite 1100, 520 - 5th Avenue S.W.
Calgary, Alberta, T2P 3R7
Telephone (403) 264-1880
Fax (403) 265-9105

ITEM 9 Date of Report:

DATED at Calgary, Alberta this 23rd day of March, 2005.

DETECTOR EXPLORATION LTD.

Per: "Ronald E. Alexander"
Ronald E. Alexander
President

Attachment: Press Release

DETECTOR EXPLORATION LTD.
Suite 1100, 520 - 5th Avenue S.W.
Calgary, Alberta, T2P 3R7
Telephone (403) 264-1880
Fax (403) 265-9105
Email: detectorex@shaw.ca
TSX-V: DEX

March 23, 2005

For Immediate Release.

DETECTOR ACQUIRES ASSETS FROM BIGSTICK ENERGY LTD.
(RELATED PARTY TRANSACTION)

Detector Exploration Ltd. (TSX-V: DEX) ("Detector") announces that Detector has completed the purchase of oil & gas assets from BigStick Energy Ltd. on the following terms:

(a) the purchase price is $90,000 with an adjustment date of January 1, 2005 payable all in cash;

(c) the assets involved are in the Ribstone area of Alberta, comprise a total of 640 gross acres, 64 net acres and involve working interests of between 10% increasing Detector's holdings in these properties to 50%;

(e) the assets include interests in 1 producing gas well;

Detector is an oil and gas corporation whose shares are listed for trading on TSX Venture Exchange Inc. under the symbol DEX.

As of March 23, 2005 Detector has outstanding 9,288,701 Common Shares and 580,000 options to acquire Common Shares. Detector's "public float" (total shares outstanding less those held by directors, officers and 10% shareholders and associates) has been calculated by Detector to be 2,826,730 shares.

The officer responsible for issuance of this press release and who may be contacted for further information is:

Ronald E. Alexander, President
Detector Exploration Ltd.
Suite 1100, 520 - 5th Avenue S.W.
Calgary, Alberta, T2P 3R7
Telephone (403) 264-1880
Fax (403) 265-9105