

**Securities Act 1997.**

Section 115(2)(a).

**Form 3.****NOTICE OF SUBSTANTIAL SHAREHOLDING.**

*Note: To be given to the company, the stock exchange on which it is listed and the Securities Commission by a person who acquires a relevant interest in 5% or more of the voting shares of a listed company, within two days after the person becomes aware that they are a substantial shareholder. Use a separate form for each person that is a substantial shareholder.*

**1. Name of listed company.**

OIL SEARCH LIMITED

*Note: Insert the name of the listed company in which the substantial shareholding is held.*

**2. Name of stock exchange.**

Port Moresby Stock Exchange

*Note: Insert the name of the stock exchange on which the company is listed.*

**3. Details of person that is a substantial shareholder.**

Given names (natural persons only)	Surname or corporate name and registration number, if applicable	Residential address or address of registered office	Postal address
N/A	BlackRock, Inc.	55 East 52 <sup>nd</sup> Street New York, NY 10055 USA	55 East 52 <sup>nd</sup> Street New York, NY 10055 USA

**4. Date substantial shareholding arose.**

12 March 2019

*Note: Insert the date on which the person named in Item 3 became a substantial shareholder in the listed company in Item 1, not the date on which the person became aware of the substantial shareholding.*

**5. Voting shares in which a relevant interest is held.**

Number of Shares	% of shares in company
76,311,217	5.00%

*Note: Insert the number and percentage of voting shares in which the person has a relevant interest as at the date in Item 4. The terms "voting shares" and "relevant interest" are defined in Sections 112 - 114 of the Act.*

**6. Total number of voting shares issued by the listed company.**

1,523,631,192
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*Note: Insert the total number of voting shares issued by the listed company used for the purpose of calculating the percentage in Item 5.*

**7. Particulars of relevant interests.**

	Details for class of shares	Details for class of shares
Class of voting shares in which relevant interest held.	Ordinary	
Name(s) of registered holder(s).	Please see "Registered Holder of Securities" in Annexure	
Brief description of the nature of the relevant interest in the voting shares.	Interest held through controlled companies which are investment managers with investment discretion and control of voting rights in relation to the relevant voting shares.	
Brief description of the transaction under which the relevant interests arose e.g: purchase on stock exchange.	Collateral transaction increasing holdings above 5%	
Number of voting shares affected by the transaction.	485,212	
The consideration for the transaction (Kina).	N/A	
Name of the other party to the transaction (if known). *	In specie transaction	
The consideration if any, paid for each relevant interest acquired in the previous 4 months.	Please see Annexure	

*\*This information is not required where the transaction took place on a stock exchange.*

*Note: Where there is insufficient space on the form to supply the information required, use additional forms or annexe a separate sheet in the same format containing the information.*

**8. Details of other person(s) giving a notice for the same transaction.**

Given names (natural persons only)	Surname or corporate name and registration number, if applicable	Residential address or address of registered office	Postal address
Not applicable	BlackRock, Inc.	55 East 52nd Street, New York NY 10055 USA	Same as registered office

*Note: If known, insert the name and address of any other person(s) believed to have given, or to be intending to give, notice, whether a Form 3, 4 or 5, in relation to the transaction to which this notice relates. If not known, insert, "unknown".*

**9. Details of any associate who also has a relevant interest in the voting shares.**

Given names (natural persons only)	Surname or corporate name and registration number, if applicable	Residential address or address of registered office	Postal address
Not applicable	BlackRock Inc.	55 East 52nd Street New York NY 10055 USA	Same as registered office
Not applicable	BlackRock (Netherlands) B.V.	Rembrandt Tower, 17th floor Amstelplein Amsterdam Netherlands	Same as registered office
Not applicable	BlackRock (Singapore) Limited	20 Anson Road #18-01 079912 Singapore	Same as registered office
Not applicable	BlackRock Advisors (UK) Limited	12 Throgmorton Avenue. London, EC2N 2DL, United Kingdom	Same as registered office
Not applicable	BlackRock Advisors, LLC	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States	Same as registered office
Not applicable	BlackRock Asset Management Canada Limited	161 Bay Street, Suite 2500 Toronto, Ontario M5J 2S1 Canada	Same as registered office
Not applicable	BlackRock Asset Management North Asia Limited	15/F, 16/F, 17/F Citibank Tower & 17/F ICBC Tower, 3 Garden Road, Central, Hong Kong	Same as registered office
Not applicable	BlackRock Financial Management, Inc.	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States	Same as registered office
Not applicable	BlackRock Fund Advisors	400 Howard Street San Francisco, CA, 94105 United States	Same as registered office
Not applicable	BlackRock Institutional Trust Company, National Association	1225 17th Street, Suite 300, Denver, CO 80202 (Colorado, USA)	Same as registered office

Not applicable	BlackRock International Limited	Exchange Place One, 1 Semple Street, Edinburgh, EH3 8BL, United Kingdom (Scotland, United Kingdom)	Same as registered office
Not applicable	BlackRock Investment Management (Australia) Limited	Level 26, 101 Collins Street Melbourne VIC 3000 Australia (Victoria, Australia)	Same as registered office
Not applicable	BlackRock Investment Management (UK) Limited	12 Throgmorton Avenue London EC2N 2DL United Kingdom	Same as registered office
Not applicable	BlackRock Investment Management, LLC	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States	Same as registered office
Not applicable	BlackRock Japan Co., Ltd.	Marunouchi Trust Tower Main, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100- 8217 (Japan)	Same as registered office

Nature of Association:

The relevant interests are all held by investment managers which are indirect subsidiaries of BlackRock, Inc. and which have investment discretion over the voting shares and control the voting rights attaching to them.

Details of Relevant Interest of Associate:

Interest held through controlled companies which are investment managers with investment discretion and control of voting rights in relation to the relevant voting shares.

*Note: Provide the name and address of each associate of the person submitting this notice who has a relevant interest in voting shares in the company, and the nature of the association with the associate and the details of the relevant interest of the associate.*

**10. Prescribed particulars of any agreement under which substantial shareholding acquired.**

Date of any agreement	Material terms of any agreement (whether written or oral)
Not applicable	Not applicable

*Note: Provide the details of the material terms of any agreement, whether written or oral, and the details of the material terms of any relevant agreement through which a relevant interest, the subject of the notice, was acquired or otherwise arose. True copies of the documents must be submitted with this form.*

**11. The following documents must be submitted with this form—**

- A. A true copy of any document setting out the material terms of any agreement that —
  - (a) contributed to the person having to submit this form;
  - (b) is in writing or in a document in which the material terms of an oral agreement have been reduced to writing in accordance with Section 40(5)(c) of the Regulation; and
  - (c) is readily available to the person submitting the notice; or
- B. Where a document in Paragraph A is not readily available to the person submitting this form, a memorandum in writing detailing the material terms of the document.

The number of pages that accompany, or are annexed to, this notice is 19.

**12. Declaration.**

I declare that to the best of my knowledge and belief the information in this form is true and correct.

Signature: \_\_\_\_\_  \_\_\_\_\_

Full Name of Person Signing: Spencer Fleming

Role: Managing Director      Date: 14 March 2019

*Note: Where this notice is given by a body corporate it must be signed by a director or secretary who is authorised by the board of the body corporate to give the notice. Initials are not sufficient for the full name of the person signing this form.*

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock (Netherlands) B.V.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 68,421	68,421	subsidiary of BlackRock Inc.
BlackRock (Netherlands) B.V.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	KAS-KAS BANK - AMSTERDAM		ORD 19,127	19,127	subsidiary of BlackRock Inc.
BlackRock (Netherlands) B.V.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ORD 183,090	183,090	subsidiary of BlackRock Inc.
BlackRock (Singapore) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET SINGAPORE		ORD 17,762	17,762	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BONY EUROPE - LONDON		ORD 1,841,465	1,841,465	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM - J.P. Morgan Zurich		ORD 104,206	104,206	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JPM CHASE - LONDON		ORD 1,169,261	1,169,261	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NT-NORTHERN TRUST UK		ORD 318,640	318,640	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET DUBLIN		ORD 4,491,933	4,491,933	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	STATE STREET BANK, MUNICH, ZURICH BRANCH		ORD 27,555	27,555	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 860,682	860,682	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 148,351	148,351	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ORD 1,689,311	1,689,311	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NT-NORTHERN TRUST CO. - CHICAGO		ORD 5,728	5,728	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	RBC-ROYAL TRUST - TORONTO		ORD 4,963	4,963	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ORD 10,598	10,598	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET SACRAMENTO		ORD 785,421	785,421	subsidiary of BlackRock Inc.
BlackRock Asset Management North Asia Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	CITI-CITIBANK, HONG KONG		ORD 4,861	4,861	subsidiary of BlackRock Inc.
BlackRock Asset Management North Asia Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	HSBC-HSBC, HONG KONG		ORD 4,562	4,562	subsidiary of BlackRock Inc.
BlackRock Asset Management North Asia Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	Northern Trust Singapore		ORD 1,654	1,654	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ORD 38,403	38,403	subsidiary of BlackRock Inc.



<b>Holder of Relevant Interests Name and ACN / ARSN (if applicable)</b>	<b>Nature of Relevant Interest</b>	<b>Registered Holder of Securities</b>	<b>Person entitled to be registered as holder</b>	<b>Class and number of Securities</b>	<b>Person's votes</b>	<b>Nature of Association</b>
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 192,455	192,455	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 180,242	180,242	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NT-NORTHERN TRUST CO. - CHICAGO		ORD 112,899	112,899	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NT-NORTHERN TRUST UK		ORD 204,221	204,221	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ORD 18,818	18,818	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STATE HONG KONG		ORD 27,703	27,703	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK & TRUST TORONTO		ORD 13,602	13,602	subsidiary of BlackRock Inc.
BlackRock Fund Advisors	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK, BOSTON		ORD 234,066	234,066	subsidiary of BlackRock Inc.
BlackRock Fund Advisors	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ORD 55,471	55,471	subsidiary of BlackRock Inc.
BlackRock Fund Advisors	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET SACRAMENTO		ORD 17,760,481	17,760,481	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 1,103,959	1,103,959	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 17,700,269	17,700,269	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NT-NORTHERN TRUST CO. - CHICAGO		ORD 507,585	507,585	subsidiary of BlackRock Inc.

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BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	RBC-ROYAL TRUST - TORONTO		ORD 15,307	15,307	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB BOSTON INSTITUTIONAL		ORD 36,504	36,504	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ORD 1,041,189	1,041,189	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STATE HONG KONG		ORD 131,567	131,567	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK, BOSTON		ORD 27,870	27,870	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET SACRAMENTO		ORD 12,075	12,075	subsidiary of BlackRock Inc.
BlackRock International Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 68,886	68,886	subsidiary of BlackRock Inc.
BlackRock International Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NT-NORTHERN TRUST UK		ORD 495,420	495,420	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	HSBC-HSBC SYDNEY		ORD 1,261,839	1,261,839	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JPM CHASE - SYDNEY		ORD 70,508	70,508	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NAB-NATIONAL AUSTRALIA BANK LIMITED - MELBOURNE		ORD 3,842,441	3,842,441	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	Northern Trust Singapore		ORD 1,079,968	1,079,968	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	AP7		ORD 487,572	487,572	subsidiary of BlackRock Inc.

<b>Holder of Relevant Interests Name and ACN / ARSN (if applicable)</b>	<b>Nature of Relevant Interest</b>	<b>Registered Holder of Securities</b>	<b>Person entitled to be registered as holder</b>	<b>Class and number of Securities</b>	<b>Person's votes</b>	<b>Nature of Association</b>
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNP PARIBAS LON		ORD 39,634	39,634	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNP PARIBAS LUX		ORD 8,902	8,902	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BANK OF NY BRUS		ORD 652,732	652,732	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BONY EUROPE - LONDON		ORD 629,984	629,984	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BONY LUXEMBOURG		ORD 3,319,630	3,319,630	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ORD 22,350	22,350	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	CITI-CITIBANK, LONDON		ORD 1,956,754	1,956,754	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	HSBC-HSBC - LONDON		ORD 1,057,844	1,057,844	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 51,060	51,060	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	KAS-KAS BANK - AMSTERDAM		ORD 527,785	527,785	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NT-NORTHERN TRUST CO. - CHICAGO		ORD 88,973	88,973	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NT-NORTHERN TRUST UK		ORD 1,384,228	1,384,228	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SEB-SKANDINAVISKA ENSKILDA BANKEN		ORD 71,487	71,487	subsidiary of BlackRock Inc.

<b>Holder of Relevant Interests Name and ACN / ARSN (if applicable)</b>	<b>Nature of Relevant Interest</b>	<b>Registered Holder of Securities</b>	<b>Person entitled to be registered as holder</b>	<b>Class and number of Securities</b>	<b>Person's votes</b>	<b>Nature of Association</b>
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STATE HONG KONG		ORD 64,655	64,655	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK LUXEMBOURG		ORD 332,397	332,397	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK, GERMANY		ORD 90,716	90,716	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET LONDON		ORD 609,062	609,062	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 804,620	804,620	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BOA-MERRILL LYNCH SMA		ADR 100 10:1	1,000	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 858,707	858,707	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ORD 55,416	55,416	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	UNION BANK		ORD 18,975	18,975	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	USB-US BANK		ORD 42,529	42,529	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ORD 29,052	29,052	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 953,712	953,712	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-State Street Bank And Trust Co.		ORD 304,856	304,856	subsidiary of BlackRock Inc.

<b>Holder of Relevant Interests Name and ACN / ARSN (if applicable)</b>	<b>Nature of Relevant Interest</b>	<b>Registered Holder of Securities</b>	<b>Person entitled to be registered as holder</b>	<b>Class and number of Securities</b>	<b>Person's votes</b>	<b>Nature of Association</b>
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK, BOSTON		ORD 15,578	15,578	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET TRUST & BANKING TOKYO		ORD 14	14	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager.	JPM-JPM CHASE - SYDNEY		ORD 30,690	30,690	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager.	NAB-NATIONAL AUSTRALIA BANK LIMITED - MELBOURNE		ORD 669,945	669,945	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager.	SSB-STATE STREET AUSTRALIA		ORD 478,075	478,075	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as responsible entity.	JPM-JPM CHASE - SYDNEY		ORD 2,660,944	2,660,944	subsidiary of BlackRock Inc.

This is Annexure B of 12 pages

OIL SEARCH LTD (OSH)							
Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration		Class and number of securities affected	Person's votes affected	
			Cash	Non-cash			
BlackRock Advisors (UK) Limited	13-Nov-18	yes	18.23	on mkt buy	ORD	2,422	2,422
BlackRock Financial Management, Inc.	14-Nov-18	no	n/a	in specie	ORD	82,579	82,579
BlackRock Advisors (UK) Limited	14-Nov-18	yes	17.78	on mkt buy	ORD	3,460	3,460
BlackRock Fund Advisors	14-Nov-18	no	n/a	in specie	ORD	10,096	10,096
BlackRock Investment Management (UK) Limited	14-Nov-18	no	n/a	in specie	ORD	4,283	4,283
BlackRock Japan Co., Ltd.	14-Nov-18	no	n/a	collateral transfer	ORD	114,087	114,087
BlackRock Advisors, LLC	15-Nov-18	yes	17.84	on mkt buy	ORD	3,800	3,800
BlackRock Investment Management (Australia) Limited	15-Nov-18	yes	18.15	on mkt buy	ORD	13,608	13,608
BlackRock (Netherlands) B.V.	15-Nov-18	yes	18.15	on mkt buy	ORD	947	947
BlackRock Institutional Trust Company, National Association	15-Nov-18	yes	18.15	on mkt buy	ORD	15,781	15,781
BlackRock Fund Advisors	15-Nov-18	yes	18.15	on mkt buy	ORD	6,664	6,664
BlackRock Fund Advisors	15-Nov-18	no	n/a	in specie	ORD	7,572	7,572
BlackRock Advisors, LLC	16-Nov-18	yes	18.16	on mkt buy	ORD	6,907	6,907
BlackRock Advisors, LLC	16-Nov-18	yes	18.37	on mkt buy	ORD	14,300	14,300
BlackRock Advisors (UK) Limited	16-Nov-18	yes	18.16	on mkt buy	ORD	1,058	1,058
BlackRock Institutional Trust Company, National Association	16-Nov-18	yes	18.16	on mkt buy	ORD	1,340	1,340
BlackRock Advisors, LLC	16-Nov-18	yes	18.16	on mkt buy	ORD	3,199	3,199
BlackRock Advisors (UK) Limited	16-Nov-18	yes	18.06	on mkt buy	ORD	188	188
BlackRock Advisors (UK) Limited	16-Nov-18	yes	18.06	on mkt buy	ORD	3,617	3,617
BlackRock Fund Advisors	16-Nov-18	no	n/a	in specie	ORD	8,944	8,944
BlackRock Advisors, LLC	16-Nov-18	no	n/a	in specie	ORD	18,873	18,873
BlackRock Fund Advisors	19-Nov-18	no	n/a	in specie	ORD	3,440	3,440
BlackRock Fund Advisors	19-Nov-18	no	n/a	in specie	ORD	7,710	7,710
BlackRock Financial Management, Inc.	20-Nov-18	yes	17.59	on mkt buy	ORD	2,421	2,421
BlackRock Japan Co., Ltd.	20-Nov-18	yes	17.58	on mkt buy	ORD	16,305	16,305
BlackRock Advisors (UK) Limited	20-Nov-18	yes	17.58	on mkt buy	ORD	6,052	6,052
BlackRock Advisors (UK) Limited	20-Nov-18	yes	17.58	on mkt buy	ORD	3,886	3,886
BlackRock Advisors (UK) Limited	20-Nov-18	yes	17.58	on mkt buy	ORD	513	513
BlackRock Fund Advisors	20-Nov-18	no	n/a	in specie	ORD	3,855	3,855
BlackRock Fund Advisors	20-Nov-18	no	n/a	in specie	ORD	1,038	1,038
BlackRock Japan Co., Ltd.	20-Nov-18	no	n/a	collateral transfer	ORD	1,464,869	1,464,869
BlackRock Japan Co., Ltd.	21-Nov-18	yes	17.60	on mkt buy	ORD	16,305	16,305
BlackRock Fund Advisors	21-Nov-18	no	n/a	in specie	ORD	3,837	3,837
BlackRock Investment Management (Australia) Limited	22-Nov-18	yes	17.62	on mkt buy	ORD	13,772	13,772
BlackRock Advisors (UK) Limited	23-Nov-18	yes	17.82	on mkt buy	ORD	3,886	3,886
BlackRock Fund Advisors	23-Nov-18	no	n/a	in specie	ORD	1,233	1,233
BlackRock Fund Advisors	23-Nov-18	no	n/a	in specie	ORD	8,834	8,834
BlackRock Advisors (UK) Limited	26-Nov-18	yes	17.11	on mkt buy	ORD	325	325
BlackRock Institutional Trust Company, National Association	26-Nov-18	yes	17.11	on mkt buy	ORD	58,836	58,836
BlackRock Fund Advisors	26-Nov-18	no	n/a	in specie	ORD	31,360	31,360
BlackRock Advisors (UK) Limited	27-Nov-18	yes	17.21	on mkt buy	ORD	1,953	1,953
BlackRock Investment Management (Australia) Limited	27-Nov-18	yes	17.23	on mkt buy	ORD	15,120	15,120
BlackRock Fund Advisors	27-Nov-18	no	n/a	in specie	ORD	2,752	2,752
BlackRock Fund Advisors	27-Nov-18	no	n/a	in specie	ORD	96,186	96,186
BlackRock Advisors (UK) Limited	28-Nov-18	yes	17.35	on mkt buy	ORD	2,140	2,140
BlackRock Asset Management Canada Limited	28-Nov-18	yes	17.35	on mkt buy	ORD	5,435	5,435
BlackRock Fund Advisors	28-Nov-18	no	n/a	in specie	ORD	6,536	6,536
BlackRock Japan Co., Ltd.	28-Nov-18	no	n/a	collateral transfer	ORD	364,970	364,970
BlackRock Advisors (UK) Limited	28-Nov-18	no	n/a	collateral transfer	ORD	535,935	535,935
BlackRock Investment Management, LLC	28-Nov-18	no	n/a	collateral transfer	ORD	49,850	49,850

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration		Class and number of securities affected	Person's votes affected	
			Cash	Non-cash			
BlackRock Investment Management (UK) Limited	28-Nov-18	no	n/a	collateral transfer	ORD	407,725	407,725
BlackRock Advisors (UK) Limited	29-Nov-18	yes	17.66	on mkt buy	ORD	9,084	9,084
BlackRock Fund Advisors	29-Nov-18	no	n/a	in specie	ORD	7,572	7,572
BlackRock Japan Co., Ltd.	29-Nov-18	no	n/a	collateral transfer	ORD	57,719	57,719
BlackRock Investment Management (UK) Limited	29-Nov-18	no	n/a	collateral transfer	ORD	592,275	592,275
BlackRock Advisors (UK) Limited	30-Nov-18	yes	17.65	on mkt buy	ORD	50,297	50,297
BlackRock Advisors (UK) Limited	30-Nov-18	yes	17.65	on mkt buy	ORD	150,885	150,885
BlackRock Advisors (UK) Limited	30-Nov-18	yes	17.65	on mkt buy	ORD	7,455	7,455
BlackRock Advisors (UK) Limited	30-Nov-18	yes	17.65	on mkt buy	ORD	22,359	22,359
BlackRock Fund Advisors	30-Nov-18	yes	17.65	on mkt buy	ORD	4,955	4,955
BlackRock Fund Advisors	30-Nov-18	yes	17.65	on mkt buy	ORD	14,867	14,867
BlackRock Advisors (UK) Limited	30-Nov-18	yes	17.65	on mkt buy	ORD	22,260	22,260
BlackRock Advisors (UK) Limited	30-Nov-18	yes	17.65	on mkt buy	ORD	7,422	7,422
BlackRock Advisors (UK) Limited	30-Nov-18	yes	17.65	on mkt buy	ORD	7,175	7,175
BlackRock Advisors (UK) Limited	30-Nov-18	yes	17.65	on mkt buy	ORD	2,390	2,390
BlackRock Institutional Trust Company, National Association	30-Nov-18	yes	17.65	on mkt buy	ORD	3,993	3,993
BlackRock Institutional Trust Company, National Association	30-Nov-18	yes	17.65	on mkt buy	ORD	1,330	1,330
BlackRock Institutional Trust Company, National Association	30-Nov-18	yes	17.65	on mkt buy	ORD	4,937	4,937
BlackRock Institutional Trust Company, National Association	30-Nov-18	yes	17.65	on mkt buy	ORD	14,821	14,821
BlackRock Investment Management, LLC	30-Nov-18	yes	17.65	on mkt buy	ORD	482	482
BlackRock Investment Management, LLC	30-Nov-18	yes	17.65	on mkt buy	ORD	1,452	1,452
BlackRock Fund Advisors	30-Nov-18	no	n/a	in specie	ORD	5,658	5,658
BlackRock Investment Management (Australia) Limited	03-Dec-18	yes	18.71	on mkt buy	ORD	87,315	87,315
BlackRock Institutional Trust Company, National Association	04-Dec-18	yes	18.57	on mkt buy	ORD	7,645	7,645
BlackRock Advisors (UK) Limited	04-Dec-18	yes	18.29	on mkt buy	ORD	439	439
BlackRock Fund Advisors	04-Dec-18	no	n/a	in specie	ORD	6,941	6,941
BlackRock Japan Co., Ltd.	04-Dec-18	no	n/a	collateral transfer	ORD	64,969	64,969
BlackRock Fund Advisors	05-Dec-18	yes	17.84	on mkt buy	ORD	48,216	48,216
BlackRock Investment Management (UK) Limited	06-Dec-18	no	n/a	in specie	ORD	1,259,236	1,259,236
BlackRock Advisors (UK) Limited	06-Dec-18	yes	17.62	on mkt buy	ORD	12,839	12,839
BlackRock Advisors (UK) Limited	06-Dec-18	yes	17.62	on mkt buy	ORD	691	691
BlackRock Advisors (UK) Limited	06-Dec-18	yes	17.62	on mkt buy	ORD	3,496	3,496
BlackRock Advisors (UK) Limited	06-Dec-18	yes	17.62	on mkt buy	ORD	5,582	5,582
BlackRock Fund Advisors	06-Dec-18	yes	17.62	on mkt buy	ORD	16,097	16,097
BlackRock Fund Advisors	06-Dec-18	no	n/a	in specie	ORD	9,465	9,465
BlackRock Fund Advisors	06-Dec-18	no	n/a	in specie	ORD	15,792	15,792
BlackRock Fund Advisors	06-Dec-18	no	n/a	in specie	ORD	3,745	3,745
BlackRock Fund Advisors	06-Dec-18	no	n/a	in specie	ORD	49,984	49,984
BlackRock Advisors (UK) Limited	07-Dec-18	yes	17.38	on mkt buy	ORD	6,885	6,885
BlackRock Fund Advisors	07-Dec-18	no	n/a	in specie	ORD	2,466	2,466
BlackRock Fund Advisors	07-Dec-18	no	n/a	in specie	ORD	9,465	9,465
BlackRock Advisors (UK) Limited	07-Dec-18	no	n/a	collateral transfer	ORD	2	2
BlackRock Advisors, LLC	10-Dec-18	yes	17.37	on mkt buy	ORD	3,900	3,900
BlackRock Investment Management (Australia) Limited	10-Dec-18	yes	17.44	on mkt buy	ORD	7,560	7,560
BlackRock Advisors (UK) Limited	10-Dec-18	yes	17.44	on mkt buy	ORD	7,778	7,778
BlackRock Advisors (UK) Limited	10-Dec-18	yes	17.44	on mkt buy	ORD	1,542	1,542
BlackRock Fund Advisors	10-Dec-18	yes	17.44	on mkt buy	ORD	11,527	11,527
BlackRock Fund Advisors	10-Dec-18	no	n/a	in specie	ORD	19,740	19,740
BlackRock Fund Advisors	10-Dec-18	no	n/a	in specie	ORD	2,422	2,422
BlackRock Fund Advisors	10-Dec-18	no	n/a	in specie	ORD	3,837	3,837
BlackRock Advisors, LLC	10-Dec-18	no	n/a	collateral transfer	ORD	29,767	29,767
BlackRock Japan Co., Ltd.	10-Dec-18	no	n/a	collateral transfer	ORD	4,310	4,310
BlackRock Financial Management, Inc.	10-Dec-18	no	n/a	collateral transfer	ORD	9,308	9,308
BlackRock Investment Management, LLC	10-Dec-18	no	n/a	collateral transfer	ORD	339,071	339,071
BlackRock Investment Management (UK) Limited	10-Dec-18	no	n/a	collateral transfer	ORD	145,919	145,919
BlackRock Asset Management North Asia Limited	10-Dec-18	no	n/a	collateral transfer	ORD	198,444	198,444

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration		Class and number of securities affected	Person's votes affected	
			Cash	Non-cash			
BlackRock Investment Management (Australia) Limited	11-Dec-18	yes	17.28	on mkt buy	ORD	15,120	15,120
BlackRock Advisors (UK) Limited	11-Dec-18	yes	17.28	on mkt buy	ORD	5,968	5,968
BlackRock Fund Advisors	11-Dec-18	no	n/a	in specie	ORD	7,572	7,572
BlackRock Japan Co., Ltd.	11-Dec-18	no	n/a	collateral transfer	ORD	91,642	91,642
BlackRock Investment Management, LLC	11-Dec-18	no	n/a	collateral transfer	ORD	42,306	42,306
BlackRock Advisors (UK) Limited	12-Dec-18	yes	17.63	on mkt buy	ORD	1,044	1,044
BlackRock Fund Advisors	12-Dec-18	no	n/a	in specie	ORD	8,203	8,203
BlackRock Fund Advisors	12-Dec-18	no	n/a	in specie	ORD	5,679	5,679
BlackRock Fund Advisors	12-Dec-18	no	n/a	in specie	ORD	3,675	3,675
BlackRock Fund Advisors	12-Dec-18	no	n/a	in specie	ORD	1,730	1,730
BlackRock Fund Advisors	12-Dec-18	no	n/a	in specie	ORD	1,038	1,038
BlackRock Fund Advisors	12-Dec-18	no	n/a	in specie	ORD	9,465	9,465
BlackRock Japan Co., Ltd.	12-Dec-18	no	n/a	collateral transfer	ORD	245,629	245,629
BlackRock Financial Management, Inc.	12-Dec-18	no	n/a	collateral transfer	ORD	330	330
BlackRock Asset Management North Asia Limited	12-Dec-18	no	n/a	collateral transfer	ORD	12,734	12,734
BlackRock Fund Advisors	13-Dec-18	yes	17.59	on mkt buy	ORD	6,736	6,736
BlackRock Investment Management (UK) Limited	13-Dec-18	no	n/a	in specie	ORD	17,410	17,410
BlackRock Advisors, LLC	13-Dec-18	no	n/a	collateral transfer	ORD	2,613	2,613
BlackRock Asset Management North Asia Limited	13-Dec-18	no	n/a	collateral transfer	ORD	10,594	10,594
BlackRock Advisors, LLC	14-Dec-18	yes	17.63	on mkt buy	ORD	550	550
BlackRock Advisors (UK) Limited	14-Dec-18	yes	17.09	on mkt buy	ORD	439	439
BlackRock Advisors (UK) Limited	14-Dec-18	yes	17.09	on mkt buy	ORD	22,207	22,207
BlackRock Fund Advisors	14-Dec-18	no	n/a	in specie	ORD	18,930	18,930
BlackRock Fund Advisors	14-Dec-18	no	n/a	in specie	ORD	12,254	12,254
BlackRock Japan Co., Ltd.	17-Dec-18	yes	17.14	on mkt buy	ORD	3,457	3,457
BlackRock Fund Advisors	17-Dec-18	no	n/a	in specie	ORD	5,679	5,679
BlackRock Fund Advisors	17-Dec-18	no	n/a	in specie	ORD	7,674	7,674
BlackRock Fund Advisors	17-Dec-18	no	n/a	in specie	ORD	12,254	12,254
BlackRock Advisors, LLC	17-Dec-18	no	n/a	collateral transfer	ORD	1,649	1,649
BlackRock Financial Management, Inc.	17-Dec-18	no	n/a	collateral transfer	ORD	489	489
BlackRock Investment Management (UK) Limited	17-Dec-18	no	n/a	collateral transfer	ORD	10,908	10,908
BlackRock Asset Management North Asia Limited	17-Dec-18	no	n/a	collateral transfer	ORD	6,444	6,444
BlackRock Advisors (UK) Limited	18-Dec-18	yes	16.72	on mkt buy	ORD	441	441
BlackRock Advisors, LLC	18-Dec-18	no	n/a	collateral transfer	ORD	351	351
BlackRock Japan Co., Ltd.	18-Dec-18	no	n/a	collateral transfer	ORD	68,711	68,711
BlackRock Investment Management, LLC	18-Dec-18	no	n/a	collateral transfer	ORD	2,892	2,892
BlackRock Asset Management North Asia Limited	18-Dec-18	no	n/a	collateral transfer	ORD	2,175	2,175
BlackRock Investment Management (UK) Limited	19-Dec-18	yes	16.28	on mkt buy	ORD	19,227	19,227
BlackRock Japan Co., Ltd.	19-Dec-18	no	n/a	collateral transfer	ORD	91,690	91,690
BlackRock Investment Management, LLC	19-Dec-18	no	n/a	collateral transfer	ORD	5,468	5,468
BlackRock Investment Management (UK) Limited	20-Dec-18	yes	15.93	on mkt buy	ORD	6,650	6,650
BlackRock Institutional Trust Company, National Association	20-Dec-18	yes	15.93	on mkt buy	ORD	1,360	1,360
BlackRock International Limited	20-Dec-18	yes	15.93	on mkt buy	ORD	11,089	11,089
BlackRock Fund Advisors	20-Dec-18	yes	15.93	on mkt buy	ORD	12,272	12,272
BlackRock Institutional Trust Company, National Association	20-Dec-18	yes	15.93	on mkt buy	ORD	27,283	27,283
BlackRock Institutional Trust Company, National Association	20-Dec-18	yes	15.93	on mkt buy	ORD	8,155	8,155
BlackRock (Netherlands) B.V.	20-Dec-18	yes	15.93	on mkt buy	ORD	1,967	1,967
BlackRock Fund Advisors	20-Dec-18	yes	15.93	on mkt buy	ORD	21,042	21,042
BlackRock Fund Advisors	20-Dec-18	no	n/a	in specie	ORD	15,648	15,648
BlackRock Investment Management (UK) Limited	20-Dec-18	no	n/a	collateral transfer	ORD	303,511	303,511
BlackRock Financial Management, Inc.	21-Dec-18	yes	15.81	on mkt buy	ORD	1,163	1,163



Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration		Class and number of securities affected	Person's votes affected	
			Cash	Non-cash			
BlackRock Advisors (UK) Limited	21-Dec-18	yes	16.00	on mkt buy	ORD	12,090	12,090
BlackRock Advisors (UK) Limited	21-Dec-18	yes	16.00	on mkt buy	ORD	188	188
BlackRock Investment Management (Australia) Limited	21-Dec-18	yes	16.00	on mkt buy	ORD	9,508	9,508
BlackRock Investment Management (Australia) Limited	21-Dec-18	yes	16.00	on mkt buy	ORD	23,271	23,271
BlackRock Investment Management (Australia) Limited	21-Dec-18	yes	16.00	on mkt buy	ORD	29,410	29,410
BlackRock Investment Management (Australia) Limited	21-Dec-18	yes	16.00	on mkt buy	ORD	16,317	16,317
BlackRock Advisors (UK) Limited	21-Dec-18	yes	16.00	on mkt buy	ORD	18,149	18,149
BlackRock Investment Management (Australia) Limited	21-Dec-18	yes	16.00	on mkt buy	ORD	6,356	6,356
BlackRock Financial Management, Inc.	21-Dec-18	yes	16.00	on mkt buy	ORD	2,880	2,880
BlackRock Financial Management, Inc.	21-Dec-18	yes	16.00	on mkt buy	ORD	8,284	8,284
BlackRock Asset Management Canada Limited	21-Dec-18	yes	16.00	on mkt buy	ORD	12,316	12,316
BlackRock Fund Advisors	21-Dec-18	no	n/a	in specie	ORD	7,572	7,572
BlackRock Fund Advisors	21-Dec-18	no	n/a	in specie	ORD	20,740	20,740
BlackRock Fund Advisors	21-Dec-18	no	n/a	in specie	ORD	3,720	3,720
BlackRock Advisors (UK) Limited	21-Dec-18	no	n/a	collateral transfer	ORD	432,027	432,027
BlackRock Investment Management, LLC	21-Dec-18	no	n/a	collateral transfer	ORD	45,183	45,183
BlackRock Fund Advisors	24-Dec-18	yes	16.08	on mkt buy	ORD	6,561	6,561
BlackRock Fund Advisors	24-Dec-18	no	n/a	in specie	ORD	18,930	18,930
BlackRock Advisors, LLC	24-Dec-18	no	n/a	collateral transfer	ORD	3,675	3,675
BlackRock Japan Co., Ltd.	24-Dec-18	no	n/a	collateral transfer	ORD	12,983	12,983
BlackRock Advisors (UK) Limited	24-Dec-18	no	n/a	collateral transfer	ORD	390,666	390,666
BlackRock Financial Management, Inc.	24-Dec-18	no	n/a	collateral transfer	ORD	1,001	1,001
BlackRock Investment Management (UK) Limited	24-Dec-18	no	n/a	collateral transfer	ORD	15,566	15,566
BlackRock Asset Management North Asia Limited	24-Dec-18	no	n/a	collateral transfer	ORD	25,566	25,566
BlackRock Fund Advisors	26-Dec-18	no	n/a	in specie	ORD	2,738	2,738
BlackRock Fund Advisors	26-Dec-18	no	n/a	in specie	ORD	11,942	11,942
BlackRock Fund Advisors	26-Dec-18	no	n/a	in specie	ORD	15,648	15,648
BlackRock Advisors, LLC	26-Dec-18	no	n/a	collateral transfer	ORD	16,508	16,508
BlackRock Japan Co., Ltd.	26-Dec-18	no	n/a	collateral transfer	ORD	731,351	731,351
BlackRock Advisors (UK) Limited	26-Dec-18	no	n/a	collateral transfer	ORD	31,027	31,027
BlackRock Financial Management, Inc.	26-Dec-18	no	n/a	collateral transfer	ORD	4,827	4,827
BlackRock Investment Management, LLC	26-Dec-18	no	n/a	collateral transfer	ORD	318,461	318,461
BlackRock Investment Management (UK) Limited	26-Dec-18	no	n/a	collateral transfer	ORD	144,848	144,848
BlackRock Asset Management North Asia Limited	26-Dec-18	no	n/a	collateral transfer	ORD	123,019	123,019
BlackRock Investment Management, LLC	27-Dec-18	yes	16.53	on mkt buy	ORD	9,135	9,135
BlackRock Fund Advisors	27-Dec-18	yes	16.53	on mkt buy	ORD	9,971	9,971
BlackRock Fund Advisors	27-Dec-18	no	n/a	in specie	ORD	27,384	27,384
BlackRock Advisors, LLC	27-Dec-18	no	n/a	collateral transfer	ORD	304	304
BlackRock Investment Management (UK) Limited	27-Dec-18	no	n/a	collateral transfer	ORD	39,096	39,096
BlackRock Advisors, LLC	28-Dec-18	yes	16.70	on mkt buy	ORD	2,300	2,300
BlackRock Investment Management, LLC	28-Dec-18	yes	16.61	on mkt buy	ORD	3,495	3,495
BlackRock Financial Management, Inc.	31-Dec-18	no	n/a	in specie	ORD	7,900	7,900
BlackRock Advisors, LLC	31-Dec-18	yes	16.68	on mkt buy	ORD	5,050	5,050
BlackRock Advisors, LLC	31-Dec-18	yes	16.68	on mkt buy	ORD	3,100	3,100
BlackRock Investment Management (UK) Limited	31-Dec-18	yes	16.68	on mkt buy	ORD	18,750	18,750
BlackRock Institutional Trust Company, National Association	31-Dec-18	yes	16.70	on mkt buy	ORD	6,612	6,612
BlackRock Fund Advisors	31-Dec-18	no	n/a	in specie	ORD	2,768	2,768
BlackRock Fund Advisors	31-Dec-18	no	n/a	in specie	ORD	18,279	18,279
BlackRock Advisors, LLC	31-Dec-18	no	n/a	collateral transfer	ORD	404	404

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration		Class and number of securities affected	Person's votes affected	
			Cash	Non-cash			
BlackRock Financial Management, Inc.	31-Dec-18	no	n/a	collateral transfer	ORD	198	198
BlackRock Investment Management, LLC	31-Dec-18	no	n/a	collateral transfer	ORD	5,100	5,100
BlackRock Asset Management North Asia Limited	31-Dec-18	no	n/a	collateral transfer	ORD	5,467	5,467
BlackRock Advisors, LLC	01-Jan-19	no	n/a	collateral transfer	ORD	3	3
BlackRock Financial Management, Inc.	01-Jan-19	no	n/a	collateral transfer	ORD	51	51
BlackRock Asset Management North Asia Limited	01-Jan-19	no	n/a	collateral transfer	ORD	23	23
BlackRock Advisors (UK) Limited	02-Jan-19	yes	16.06	on mkt buy	ORD	507	507
BlackRock Institutional Trust Company, National Association	02-Jan-19	yes	16.06	on mkt buy	ORD	23,717	23,717
BlackRock Fund Advisors	02-Jan-19	no	n/a	in specie	ORD	18,279	18,279
BlackRock Fund Advisors	02-Jan-19	no	n/a	in specie	ORD	17,913	17,913
BlackRock Investment Management, LLC	02-Jan-19	no	n/a	collateral transfer	ORD	22,919	22,919
BlackRock Fund Advisors	03-Jan-19	no	n/a	in specie	ORD	11,942	11,942
BlackRock Fund Advisors	03-Jan-19	no	n/a	in specie	ORD	1,038	1,038
BlackRock Advisors (UK) Limited	03-Jan-19	no	n/a	collateral transfer	ORD	263,802	263,802
BlackRock Investment Management, LLC	03-Jan-19	no	n/a	collateral transfer	ORD	24,412	24,412
BlackRock Institutional Trust Company, National Association	04-Jan-19	yes	16.73	on mkt buy	ORD	313,763	313,763
BlackRock Advisors (UK) Limited	04-Jan-19	yes	16.73	on mkt buy	ORD	4,030	4,030
BlackRock Fund Advisors	04-Jan-19	no	n/a	in specie	ORD	5,679	5,679
BlackRock Fund Advisors	04-Jan-19	no	n/a	in specie	ORD	15,660	15,660
BlackRock Fund Advisors	04-Jan-19	no	n/a	in specie	ORD	6,168	6,168
BlackRock Fund Advisors	04-Jan-19	no	n/a	in specie	ORD	1,038	1,038
BlackRock Fund Advisors	04-Jan-19	no	n/a	in specie	ORD	7,674	7,674
BlackRock Advisors, LLC	04-Jan-19	no	n/a	collateral transfer	ORD	167	167
BlackRock Advisors (UK) Limited	04-Jan-19	no	n/a	collateral transfer	ORD	2	2
BlackRock Investment Management (UK) Limited	04-Jan-19	no	n/a	collateral transfer	ORD	9,940	9,940
BlackRock Advisors, LLC	07-Jan-19	yes	17.43	on mkt buy	ORD	3,550	3,550
BlackRock Investment Management (UK) Limited	07-Jan-19	yes	17.43	on mkt buy	ORD	16,150	16,150
BlackRock Institutional Trust Company, National Association	07-Jan-19	yes	17.45	on mkt buy	ORD	61,287	61,287
BlackRock Advisors, LLC	07-Jan-19	no	n/a	collateral transfer	ORD	451	451
BlackRock Japan Co., Ltd.	07-Jan-19	no	n/a	collateral transfer	ORD	314,583	314,583
BlackRock Advisors (UK) Limited	07-Jan-19	no	n/a	collateral transfer	ORD	4	4
BlackRock Investment Management, LLC	07-Jan-19	no	n/a	collateral transfer	ORD	1,928	1,928
BlackRock Investment Management (UK) Limited	07-Jan-19	no	n/a	collateral transfer	ORD	1,198	1,198
BlackRock Investment Management (UK) Limited	08-Jan-19	yes	17.27	on mkt buy	ORD	41,550	41,550
BlackRock Advisors (UK) Limited	08-Jan-19	yes	17.28	on mkt buy	ORD	4,033	4,033
BlackRock Fund Advisors	08-Jan-19	no	n/a	in specie	ORD	4,872	4,872
BlackRock Advisors, LLC	08-Jan-19	no	n/a	collateral transfer	ORD	6,098	6,098
BlackRock Japan Co., Ltd.	08-Jan-19	no	n/a	collateral transfer	ORD	357,762	357,762
BlackRock Financial Management, Inc.	08-Jan-19	no	n/a	collateral transfer	ORD	18	18
BlackRock Investment Management, LLC	08-Jan-19	no	n/a	collateral transfer	ORD	2,916	2,916
BlackRock Investment Management (UK) Limited	08-Jan-19	no	n/a	collateral transfer	ORD	817	817
BlackRock Investment Management (UK) Limited	09-Jan-19	yes	17.56	on mkt buy	ORD	11,100	11,100
BlackRock Advisors (UK) Limited	09-Jan-19	yes	17.82	on mkt buy	ORD	3,612	3,612
BlackRock Advisors (UK) Limited	09-Jan-19	yes	17.82	on mkt buy	ORD	8,066	8,066
BlackRock Institutional Trust Company, National Association	09-Jan-19	yes	17.82	on mkt buy	ORD	5,187	5,187
BlackRock Japan Co., Ltd.	09-Jan-19	no	n/a	collateral transfer	ORD	936	936

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BlackRock Financial Management, Inc.	09-Jan-19	no	n/a	collateral transfer	ORD	78	78
BlackRock Investment Management (UK) Limited	09-Jan-19	no	n/a	collateral transfer	ORD	10,522	10,522
BlackRock Asset Management North Asia Limited	09-Jan-19	no	n/a	collateral transfer	ORD	18,209	18,209
BlackRock Investment Management (UK) Limited	10-Jan-19	yes	18.10	on mkt buy	ORD	15,150	15,150
BlackRock Advisors (UK) Limited	10-Jan-19	yes	18.05	on mkt buy	ORD	6,192	6,192
BlackRock Advisors (UK) Limited	10-Jan-19	yes	18.08	on mkt buy	ORD	700	700
BlackRock Advisors (UK) Limited	10-Jan-19	yes	18.08	on mkt buy	ORD	4,048	4,048
BlackRock Fund Advisors	10-Jan-19	no	n/a	in specie	ORD	5,116	5,116
BlackRock Japan Co., Ltd.	10-Jan-19	no	n/a	collateral transfer	ORD	108,126	108,126
BlackRock Financial Management, Inc.	10-Jan-19	no	n/a	collateral transfer	ORD	39	39
BlackRock Investment Management (UK) Limited	10-Jan-19	no	n/a	collateral transfer	ORD	3,986	3,986
BlackRock Asset Management North Asia Limited	10-Jan-19	no	n/a	collateral transfer	ORD	2,022	2,022
BlackRock Institutional Trust Company, National Association	11-Jan-19	no	n/a	in specie	ORD	122,550	122,550
BlackRock Advisors (UK) Limited	11-Jan-19	yes	18.14	on mkt buy	ORD	3,096	3,096
BlackRock Advisors (UK) Limited	11-Jan-19	yes	18.14	on mkt buy	ORD	3,061	3,061
BlackRock Institutional Trust Company, National Association	11-Jan-19	yes	18.14	on mkt buy	ORD	3,893	3,893
BlackRock Advisors, LLC	11-Jan-19	no	n/a	collateral transfer	ORD	892	892
BlackRock Financial Management, Inc.	11-Jan-19	no	n/a	collateral transfer	ORD	74	74
BlackRock Investment Management (UK) Limited	11-Jan-19	no	n/a	collateral transfer	ORD	14,250	14,250
BlackRock Asset Management North Asia Limited	11-Jan-19	no	n/a	collateral transfer	ORD	8,575	8,575
BlackRock Advisors, LLC	14-Jan-19	no	n/a	collateral transfer	ORD	4,455	4,455
BlackRock Advisors (UK) Limited	14-Jan-19	no	n/a	collateral transfer	ORD	1	1
BlackRock Investment Management, LLC	14-Jan-19	no	n/a	collateral transfer	ORD	23,804	23,804
BlackRock Fund Advisors	15-Jan-19	yes	17.96	on mkt buy	ORD	7,143	7,143
BlackRock Advisors (UK) Limited	15-Jan-19	yes	18.06	on mkt buy	ORD	3,097	3,097
BlackRock Advisors (UK) Limited	15-Jan-19	yes	18.14	on mkt buy	ORD	1,095	1,095
BlackRock Financial Management, Inc.	15-Jan-19	no	n/a	collateral transfer	ORD	11	11
BlackRock Investment Management (UK) Limited	15-Jan-19	no	n/a	collateral transfer	ORD	9,226	9,226
BlackRock Advisors (UK) Limited	16-Jan-19	yes	18.06	on mkt buy	ORD	440	440
BlackRock Investment Management (Australia) Limited	16-Jan-19	yes	18.06	on mkt buy	ORD	54,045	54,045
BlackRock Institutional Trust Company, National Association	16-Jan-19	yes	18.06	on mkt buy	ORD	5,193	5,193
BlackRock Fund Advisors	16-Jan-19	no	n/a	in specie	ORD	16,592	16,592
BlackRock Financial Management, Inc.	16-Jan-19	no	n/a	collateral transfer	ORD	18	18
BlackRock Asset Management North Asia Limited	16-Jan-19	no	n/a	collateral transfer	ORD	9,753	9,753
BlackRock Advisors, LLC	17-Jan-19	yes	18.10	on mkt buy	ORD	650	650
BlackRock Asset Management Canada Limited	17-Jan-19	no	n/a	in specie	ORD	9,666	9,666
BlackRock Advisors (UK) Limited	17-Jan-19	yes	18.10	on mkt buy	ORD	15,485	15,485
BlackRock Advisors (UK) Limited	17-Jan-19	yes	18.10	on mkt buy	ORD	11,877	11,877
BlackRock Advisors (UK) Limited	17-Jan-19	yes	18.10	on mkt buy	ORD	1,095	1,095
BlackRock Fund Advisors	17-Jan-19	no	n/a	in specie	ORD	4,176	4,176
BlackRock Fund Advisors	17-Jan-19	no	n/a	in specie	ORD	5,528	5,528
BlackRock Advisors, LLC	17-Jan-19	no	n/a	collateral transfer	ORD	196	196
BlackRock Japan Co., Ltd.	17-Jan-19	no	n/a	collateral transfer	ORD	694,804	694,804
BlackRock Advisors (UK) Limited	17-Jan-19	no	n/a	collateral transfer	ORD	159,710	159,710
BlackRock Financial Management, Inc.	17-Jan-19	no	n/a	collateral transfer	ORD	21	21
BlackRock Investment Management (UK) Limited	17-Jan-19	no	n/a	collateral transfer	ORD	4,582	4,582
BlackRock Financial Management, Inc.	18-Jan-19	yes	18.34	on mkt buy	ORD	16,866	16,866

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BlackRock Advisors, LLC	18-Jan-19	yes	18.34	on mkt buy	ORD	54,709	54,709
BlackRock Advisors (UK) Limited	18-Jan-19	yes	18.34	on mkt buy	ORD	6,453	6,453
BlackRock Institutional Trust Company, National Association	18-Jan-19	yes	18.34	on mkt buy	ORD	8,622	8,622
BlackRock Advisors, LLC	18-Jan-19	yes	18.34	on mkt buy	ORD	15,434	15,434
BlackRock Institutional Trust Company, National Association	18-Jan-19	yes	18.34	on mkt buy	ORD	5,668	5,668
BlackRock International Limited	18-Jan-19	yes	18.34	on mkt buy	ORD	13,069	13,069
BlackRock Financial Management, Inc.	18-Jan-19	yes	18.34	on mkt buy	ORD	44,079	44,079
BlackRock Investment Management, LLC	18-Jan-19	yes	18.34	on mkt buy	ORD	32,164	32,164
BlackRock Financial Management, Inc.	18-Jan-19	yes	18.34	on mkt buy	ORD	6,603	6,603
BlackRock Institutional Trust Company, National Association	18-Jan-19	yes	18.34	on mkt buy	ORD	3,923	3,923
BlackRock Advisors (UK) Limited	18-Jan-19	yes	18.33	on mkt buy	ORD	666	666
BlackRock Investment Management (Australia) Limited	18-Jan-19	yes	18.33	on mkt buy	ORD	34,265	34,265
BlackRock Investment Management, LLC	18-Jan-19	no	n/a	collateral transfer	ORD	18,822	18,822
BlackRock Advisors (UK) Limited	21-Jan-19	yes	18.47	on mkt buy	ORD	9,168	9,168
BlackRock Advisors, LLC	21-Jan-19	no	n/a	collateral transfer	ORD	453	453
BlackRock Financial Management, Inc.	21-Jan-19	no	n/a	collateral transfer	ORD	56	56
BlackRock Investment Management (UK) Limited	21-Jan-19	no	n/a	collateral transfer	ORD	9,018	9,018
BlackRock Asset Management North Asia Limited	21-Jan-19	no	n/a	collateral transfer	ORD	2,437	2,437
BlackRock Advisors (UK) Limited	22-Jan-19	yes	17.87	on mkt buy	ORD	524	524
BlackRock Advisors (UK) Limited	22-Jan-19	yes	17.87	on mkt buy	ORD	3,093	3,093
BlackRock Investment Management (Australia) Limited	22-Jan-19	yes	17.87	on mkt buy	ORD	28,665	28,665
BlackRock Advisors, LLC	22-Jan-19	no	n/a	collateral transfer	ORD	332	332
BlackRock Japan Co., Ltd.	22-Jan-19	no	n/a	collateral transfer	ORD	2,178	2,178
BlackRock Advisors (UK) Limited	22-Jan-19	no	n/a	collateral transfer	ORD	2	2
BlackRock Financial Management, Inc.	22-Jan-19	no	n/a	collateral transfer	ORD	26	26
BlackRock Investment Management (UK) Limited	22-Jan-19	no	n/a	collateral transfer	ORD	9,601	9,601
BlackRock Asset Management North Asia Limited	22-Jan-19	no	n/a	collateral transfer	ORD	3,852	3,852
BlackRock Fund Advisors	23-Jan-19	yes	17.66	on mkt buy	ORD	11,257	11,257
BlackRock Advisors (UK) Limited	23-Jan-19	yes	17.69	on mkt buy	ORD	524	524
BlackRock Advisors, LLC	23-Jan-19	no	n/a	collateral transfer	ORD	127	127
BlackRock Advisors (UK) Limited	23-Jan-19	no	n/a	collateral transfer	ORD	1,552,709	1,552,709
BlackRock Investment Management, LLC	23-Jan-19	no	n/a	collateral transfer	ORD	3,335	3,335
BlackRock Advisors (UK) Limited	24-Jan-19	yes	17.93	on mkt buy	ORD	3,094	3,094
BlackRock Financial Management, Inc.	24-Jan-19	yes	17.60	on mkt buy	ORD	2,893	2,893
BlackRock Institutional Trust Company, National Association	24-Jan-19	no	n/a	in specie	ORD	9,772	9,772
BlackRock Advisors, LLC	24-Jan-19	no	n/a	collateral transfer	ORD	175	175
BlackRock Japan Co., Ltd.	24-Jan-19	no	n/a	collateral transfer	ORD	568	568
BlackRock Financial Management, Inc.	24-Jan-19	no	n/a	collateral transfer	ORD	2	2
BlackRock Asset Management North Asia Limited	24-Jan-19	no	n/a	collateral transfer	ORD	2,532	2,532
BlackRock Investment Management, LLC	24-Jan-19	no	n/a	in specie	ADR 10:1	100	1,000
BlackRock Investment Management (Australia) Limited	25-Jan-19	yes	18.30	on mkt buy	ORD	9,060	9,060
BlackRock Advisors (UK) Limited	25-Jan-19	yes	18.30	on mkt buy	ORD	14,472	14,472
BlackRock Japan Co., Ltd.	25-Jan-19	no	n/a	collateral transfer	ORD	13	13
BlackRock Investment Management, LLC	25-Jan-19	no	n/a	collateral transfer	ORD	12,958	12,958
BlackRock Financial Management, Inc.	28-Jan-19	no	n/a	collateral transfer	ORD	12	12
BlackRock Investment Management, LLC	28-Jan-19	no	n/a	collateral transfer	ORD	316	316

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BlackRock Investment Management (UK) Limited	28-Jan-19	no	n/a	collateral transfer	ORD	5,178	5,178
BlackRock Investment Management (Australia) Limited	29-Jan-19	yes	17.88	on mkt buy	ORD	24,160	24,160
BlackRock Institutional Trust Company, National Association	29-Jan-19	yes	17.88	on mkt buy	ORD	81,309	81,309
BlackRock Advisors, LLC	29-Jan-19	no	n/a	collateral transfer	ORD	3,388	3,388
BlackRock Advisors (UK) Limited	29-Jan-19	no	n/a	collateral transfer	ORD	333,999	333,999
BlackRock Asset Management North Asia Limited	29-Jan-19	no	n/a	collateral transfer	ORD	1,859	1,859
BlackRock Fund Advisors	30-Jan-19	no	n/a	in specie	ORD	21,612	21,612
BlackRock Investment Management, LLC	30-Jan-19	no	n/a	collateral transfer	ORD	71,834	71,834
BlackRock Advisors (UK) Limited	31-Jan-19	yes	18.75	on mkt buy	ORD	730	730
BlackRock Fund Advisors	31-Jan-19	no	n/a	in specie	ORD	21,612	21,612
BlackRock Institutional Trust Company, National Association	31-Jan-19	no	n/a	in specie	ORD	25,667	25,667
BlackRock Institutional Trust Company, National Association	31-Jan-19	no	n/a	in specie	ORD	20,299	20,299
BlackRock Japan Co., Ltd.	31-Jan-19	no	n/a	collateral transfer	ORD	22,265	22,265
BlackRock Financial Management, Inc.	31-Jan-19	no	n/a	collateral transfer	ORD	15	15
BlackRock Investment Management (UK) Limited	31-Jan-19	no	n/a	collateral transfer	ORD	1,264	1,264
BlackRock Asset Management North Asia Limited	31-Jan-19	no	n/a	collateral transfer	ORD	1,425	1,425
BlackRock Advisors, LLC	01-Feb-19	yes	18.81	on mkt buy	ORD	900	900
BlackRock Institutional Trust Company, National Association	01-Feb-19	yes	18.59	on mkt buy	ORD	5,996	5,996
BlackRock Investment Management (UK) Limited	01-Feb-19	yes	18.59	on mkt buy	ORD	21,488	21,488
BlackRock Advisors, LLC	01-Feb-19	no	n/a	collateral transfer	ORD	1,425	1,425
BlackRock Japan Co., Ltd.	01-Feb-19	no	n/a	collateral transfer	ORD	469,366	469,366
BlackRock Advisors (UK) Limited	01-Feb-19	no	n/a	collateral transfer	ORD	376,794	376,794
BlackRock Investment Management, LLC	01-Feb-19	no	n/a	collateral transfer	ORD	22,129	22,129
BlackRock Advisors, LLC	04-Feb-19	yes	18.61	on mkt buy	ORD	4,975	4,975
BlackRock Advisors (UK) Limited	04-Feb-19	yes	18.49	on mkt buy	ORD	868	868
BlackRock Advisors (UK) Limited	04-Feb-19	yes	18.49	on mkt buy	ORD	1,460	1,460
BlackRock Financial Management, Inc.	04-Feb-19	no	n/a	collateral transfer	ORD	71	71
BlackRock Investment Management (UK) Limited	04-Feb-19	no	n/a	collateral transfer	ORD	15,941	15,941
BlackRock Asset Management North Asia Limited	04-Feb-19	no	n/a	collateral transfer	ORD	10,683	10,683
BlackRock Advisors (UK) Limited	05-Feb-19	no	n/a	collateral transfer	ORD	227,467	227,467
BlackRock Investment Management (UK) Limited	05-Feb-19	no	n/a	collateral transfer	ORD	91,937	91,937
BlackRock Investment Management (Australia) Limited	06-Feb-19	yes	18.67	on mkt buy	ORD	586	586
BlackRock Advisors (UK) Limited	06-Feb-19	yes	18.67	on mkt buy	ORD	8,060	8,060
BlackRock Fund Advisors	06-Feb-19	no	n/a	in specie	ORD	12,186	12,186
BlackRock Fund Advisors	06-Feb-19	no	n/a	in specie	ORD	36,558	36,558
BlackRock Fund Advisors	06-Feb-19	no	n/a	in specie	ORD	24,372	24,372
BlackRock Advisors (UK) Limited	06-Feb-19	no	n/a	collateral transfer	ORD	163,663	163,663
BlackRock Investment Management, LLC	06-Feb-19	no	n/a	collateral transfer	ORD	21,443	21,443
BlackRock Investment Management (Australia) Limited	07-Feb-19	yes	18.78	on mkt buy	ORD	586	586
BlackRock Advisors (UK) Limited	07-Feb-19	yes	18.78	on mkt buy	ORD	533	533
BlackRock Fund Advisors	07-Feb-19	no	n/a	in specie	ORD	36,558	36,558
BlackRock Advisors, LLC	07-Feb-19	no	n/a	collateral transfer	ORD	19	19
BlackRock Financial Management, Inc.	07-Feb-19	no	n/a	collateral transfer	ORD	16	16
BlackRock Investment Management (UK) Limited	07-Feb-19	no	n/a	collateral transfer	ORD	10,107	10,107

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BlackRock Asset Management North Asia Limited	07-Feb-19	no	n/a	collateral transfer	ORD	2,611	2,611
BlackRock Investment Management (UK) Limited	08-Feb-19	no	n/a	collateral transfer	ORD	13,048	13,048
BlackRock Investment Management (UK) Limited	11-Feb-19	yes	17.93	on mkt buy	ORD	72,105	72,105
BlackRock Advisors (UK) Limited	11-Feb-19	yes	17.93	on mkt buy	ORD	25,021	25,021
BlackRock Advisors, LLC	11-Feb-19	no	n/a	collateral transfer	ORD	42	42
BlackRock Advisors (UK) Limited	11-Feb-19	no	n/a	collateral transfer	ORD	78,690	78,690
BlackRock Investment Management, LLC	11-Feb-19	no	n/a	collateral transfer	ORD	10,925	10,925
BlackRock Institutional Trust Company, National Association	12-Feb-19	yes	18.16	on mkt buy	ORD	6,850	6,850
BlackRock Fund Advisors	12-Feb-19	no	n/a	in specie	ORD	10,232	10,232
BlackRock Japan Co., Ltd.	12-Feb-19	no	n/a	collateral transfer	ORD	43,935	43,935
BlackRock Advisors (UK) Limited	12-Feb-19	no	n/a	collateral transfer	ORD	73,716	73,716
BlackRock Investment Management, LLC	12-Feb-19	no	n/a	collateral transfer	ORD	8,204	8,204
BlackRock Advisors (UK) Limited	13-Feb-19	yes	18.57	on mkt buy	ORD	18,600	18,600
BlackRock Investment Management (Australia) Limited	13-Feb-19	yes	18.57	on mkt buy	ORD	10,152	10,152
BlackRock Investment Management (Australia) Limited	13-Feb-19	yes	18.57	on mkt buy	ORD	14,467	14,467
BlackRock Advisors (UK) Limited	13-Feb-19	yes	18.57	on mkt buy	ORD	15,854	15,854
BlackRock Investment Management (Australia) Limited	13-Feb-19	yes	18.57	on mkt buy	ORD	8,412	8,412
BlackRock Investment Management (Australia) Limited	13-Feb-19	yes	18.57	on mkt buy	ORD	5,616	5,616
BlackRock Advisors, LLC	13-Feb-19	no	n/a	collateral transfer	ORD	57	57
BlackRock Advisors (UK) Limited	13-Feb-19	no	n/a	collateral transfer	ORD	279,472	279,472
BlackRock Financial Management, Inc.	13-Feb-19	no	n/a	collateral transfer	ORD	4	4
BlackRock Investment Management (UK) Limited	13-Feb-19	no	n/a	collateral transfer	ORD	48,960	48,960
BlackRock Asset Management North Asia Limited	13-Feb-19	no	n/a	collateral transfer	ORD	3,444	3,444
BlackRock Financial Management, Inc.	14-Feb-19	yes	18.60	on mkt buy	ORD	500	500
BlackRock Investment Management, LLC	14-Feb-19	no	n/a	in specie	ORD	27,556	27,556
BlackRock Advisors, LLC	14-Feb-19	no	n/a	collateral transfer	ORD	132	132
BlackRock Investment Management (UK) Limited	14-Feb-19	no	n/a	collateral transfer	ORD	257,877	257,877
BlackRock Asset Management North Asia Limited	14-Feb-19	no	n/a	collateral transfer	ORD	297	297
BlackRock Investment Management (UK) Limited	15-Feb-19	yes	18.92	on mkt buy	ORD	52,114	52,114
BlackRock Japan Co., Ltd.	15-Feb-19	yes	19.02	on mkt buy	ORD	25,345	25,345
BlackRock Advisors (UK) Limited	15-Feb-19	yes	19.05	on mkt buy	ORD	1,785	1,785
BlackRock Advisors (UK) Limited	15-Feb-19	no	n/a	collateral transfer	ORD	17,968	17,968
BlackRock Financial Management, Inc.	15-Feb-19	no	n/a	collateral transfer	ORD	119	119
BlackRock Investment Management (UK) Limited	15-Feb-19	no	n/a	collateral transfer	ORD	717	717
BlackRock Advisors, LLC	18-Feb-19	no	n/a	collateral transfer	ORD	66	66
BlackRock Advisors (UK) Limited	18-Feb-19	no	n/a	collateral transfer	ORD	287,428	287,428
BlackRock Investment Management, LLC	18-Feb-19	no	n/a	collateral transfer	ORD	35,857	35,857
BlackRock Asset Management North Asia Limited	18-Feb-19	no	n/a	collateral transfer	ORD	16,859	16,859
BlackRock Advisors (UK) Limited	19-Feb-19	yes	19.02	on mkt buy	ORD	6,314	6,314
BlackRock Institutional Trust Company, National Association	19-Feb-19	yes	18.96	on mkt buy	ORD	17,944	17,944
BlackRock Advisors, LLC	19-Feb-19	no	n/a	collateral transfer	ORD	102	102
BlackRock Japan Co., Ltd.	19-Feb-19	no	n/a	collateral transfer	ORD	3,332	3,332

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BlackRock Financial Management, Inc.	19-Feb-19	no	n/a	collateral transfer	ORD	29	29
BlackRock Investment Management, LLC	19-Feb-19	no	n/a	collateral transfer	ORD	61,635	61,635
BlackRock Asset Management North Asia Limited	19-Feb-19	no	n/a	collateral transfer	ORD	11,819	11,819
BlackRock Financial Management, Inc.	20-Feb-19	yes	18.92	on mkt buy	ORD	590	590
BlackRock Financial Management, Inc.	20-Feb-19	yes	19.27	on mkt buy	ORD	10,837	10,837
BlackRock Advisors, LLC	20-Feb-19	yes	19.27	on mkt buy	ORD	35,523	35,523
BlackRock Advisors (UK) Limited	20-Feb-19	yes	19.27	on mkt buy	ORD	2,631	2,631
BlackRock Institutional Trust Company, National Association	20-Feb-19	yes	19.27	on mkt buy	ORD	4,985	4,985
BlackRock Advisors, LLC	20-Feb-19	yes	19.27	on mkt buy	ORD	16,647	16,647
BlackRock Institutional Trust Company, National Association	20-Feb-19	yes	19.27	on mkt buy	ORD	2,980	2,980
BlackRock International Limited	20-Feb-19	yes	19.27	on mkt buy	ORD	7,491	7,491
BlackRock Investment Management (Australia) Limited	20-Feb-19	yes	19.29	on mkt buy	ORD	154,401	154,401
BlackRock Financial Management, Inc.	20-Feb-19	yes	19.27	on mkt buy	ORD	30,151	30,151
BlackRock Investment Management, LLC	20-Feb-19	yes	19.27	on mkt buy	ORD	40,902	40,902
BlackRock Financial Management, Inc.	20-Feb-19	yes	19.27	on mkt buy	ORD	12,215	12,215
BlackRock Institutional Trust Company, National Association	20-Feb-19	yes	19.27	on mkt buy	ORD	2,451	2,451
BlackRock Investment Management (UK) Limited	20-Feb-19	yes	19.24	on mkt buy	ORD	11,886	11,886
BlackRock Investment Management (UK) Limited	20-Feb-19	yes	19.34	on mkt buy	ORD	43,508	43,508
BlackRock Advisors, LLC	20-Feb-19	no	n/a	collateral transfer	ORD	7	7
BlackRock Investment Management (UK) Limited	20-Feb-19	no	n/a	collateral transfer	ORD	1,584	1,584
BlackRock Asset Management North Asia Limited	20-Feb-19	no	n/a	collateral transfer	ORD	3,142	3,142
BlackRock Advisors (UK) Limited	21-Feb-19	yes	19.52	on mkt buy	ORD	6,340	6,340
BlackRock Advisors (UK) Limited	21-Feb-19	no	n/a	collateral transfer	ORD	93,000	93,000
BlackRock Financial Management, Inc.	21-Feb-19	no	n/a	collateral transfer	ORD	2,639	2,639
BlackRock Investment Management, LLC	21-Feb-19	no	n/a	collateral transfer	ORD	11,539	11,539
BlackRock Investment Management (UK) Limited	22-Feb-19	yes	19.57	on mkt buy	ORD	13,501	13,501
BlackRock Advisors (UK) Limited	22-Feb-19	yes	19.69	on mkt buy	ORD	3,177	3,177
BlackRock Fund Advisors	22-Feb-19	no	n/a	in specie	ORD	21,777	21,777
BlackRock Advisors, LLC	22-Feb-19	no	n/a	collateral transfer	ORD	806	806
BlackRock Investment Management, LLC	22-Feb-19	no	n/a	collateral transfer	ORD	3,565	3,565
BlackRock Asset Management North Asia Limited	22-Feb-19	no	n/a	collateral transfer	ORD	429	429
BlackRock Advisors (UK) Limited	25-Feb-19	yes	19.88	on mkt buy	ORD	28,602	28,602
BlackRock Investment Management (UK) Limited	25-Feb-19	yes	19.88	on mkt buy	ORD	38,109	38,109
BlackRock Fund Advisors	25-Feb-19	no	n/a	in specie	ORD	24,888	24,888
BlackRock Advisors, LLC	25-Feb-19	no	n/a	collateral transfer	ORD	123	123
BlackRock Japan Co., Ltd.	25-Feb-19	no	n/a	collateral transfer	ORD	808	808
BlackRock Financial Management, Inc.	25-Feb-19	no	n/a	collateral transfer	ORD	15	15
BlackRock Investment Management (UK) Limited	25-Feb-19	no	n/a	collateral transfer	ORD	6,168	6,168
BlackRock Asset Management North Asia Limited	25-Feb-19	no	n/a	collateral transfer	ORD	7,185	7,185
BlackRock Investment Management (UK) Limited	26-Feb-19	no	n/a	in specie	ORD	228,862	228,862
BlackRock Investment Management, LLC	26-Feb-19	yes	19.66	on mkt buy	ORD	4,603	4,603
BlackRock Investment Management, LLC	26-Feb-19	no	n/a	collateral transfer	ORD	4,866	4,866
BlackRock Investment Management (UK) Limited	26-Feb-19	no	n/a	collateral transfer	ORD	2,294	2,294
BlackRock Investment Management (Australia) Limited	27-Feb-19	yes	19.74	on mkt buy	ORD	82,316	82,316
BlackRock Investment Management (Australia) Limited	27-Feb-19	yes	19.74	on mkt buy	ORD	7,901	7,901

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BlackRock Investment Management (Australia) Limited	27-Feb-19	yes	19.74	on mkt buy	ORD	18,946	18,946
BlackRock Investment Management (Australia) Limited	27-Feb-19	yes	19.75	on mkt buy	ORD	7,032	7,032
BlackRock Japan Co., Ltd.	27-Feb-19	yes	19.75	on mkt buy	ORD	3,673	3,673
BlackRock Investment Management (Australia) Limited	27-Feb-19	yes	19.75	on mkt buy	ORD	2,344	2,344
BlackRock Advisors, LLC	27-Feb-19	no	n/a	collateral transfer	ORD	1,675	1,675
BlackRock Financial Management, Inc.	27-Feb-19	no	n/a	collateral transfer	ORD	1,103	1,103
BlackRock Investment Management, LLC	27-Feb-19	no	n/a	collateral transfer	ORD	17,766	17,766
BlackRock Asset Management North Asia Limited	27-Feb-19	no	n/a	collateral transfer	ORD	61	61
BlackRock Advisors (UK) Limited	28-Feb-19	yes	19.73	on mkt buy	ORD	4,374	4,374
BlackRock Advisors (UK) Limited	28-Feb-19	yes	19.73	on mkt buy	ORD	13,117	13,117
BlackRock Institutional Trust Company, National Association	28-Feb-19	yes	19.73	on mkt buy	ORD	1,742	1,742
BlackRock Institutional Trust Company, National Association	28-Feb-19	yes	19.73	on mkt buy	ORD	5,233	5,233
BlackRock Institutional Trust Company, National Association	28-Feb-19	yes	19.73	on mkt buy	ORD	14,423	14,423
BlackRock Institutional Trust Company, National Association	28-Feb-19	yes	19.73	on mkt buy	ORD	43,261	43,261
BlackRock Investment Management, LLC	28-Feb-19	yes	19.73	on mkt buy	ORD	7,955	7,955
BlackRock Investment Management, LLC	28-Feb-19	yes	19.73	on mkt buy	ORD	2,651	2,651
BlackRock Fund Advisors	28-Feb-19	yes	19.73	on mkt buy	ORD	747	747
BlackRock Fund Advisors	28-Feb-19	yes	19.73	on mkt buy	ORD	2,245	2,245
BlackRock Advisors (UK) Limited	28-Feb-19	yes	19.73	on mkt buy	ORD	2,030	2,030
BlackRock Advisors (UK) Limited	28-Feb-19	yes	19.73	on mkt buy	ORD	6,090	6,090
BlackRock Advisors (UK) Limited	28-Feb-19	yes	19.73	on mkt buy	ORD	32,182	32,182
BlackRock Advisors (UK) Limited	28-Feb-19	yes	19.73	on mkt buy	ORD	10,729	10,729
BlackRock Investment Management (UK) Limited	28-Feb-19	yes	19.73	on mkt buy	ORD	1,497	1,497
BlackRock Investment Management (UK) Limited	28-Feb-19	yes	19.73	on mkt buy	ORD	4,495	4,495
BlackRock Investment Management (UK) Limited	28-Feb-19	yes	19.73	on mkt buy	ORD	3,059	3,059
BlackRock Investment Management (UK) Limited	28-Feb-19	yes	19.73	on mkt buy	ORD	9,178	9,178
BlackRock Investment Management (UK) Limited	28-Feb-19	yes	19.73	on mkt buy	ORD	16,252	16,252
BlackRock Investment Management (UK) Limited	28-Feb-19	yes	19.73	on mkt buy	ORD	48,748	48,748
BlackRock Japan Co., Ltd.	28-Feb-19	no	n/a	collateral transfer	ORD	1,323	1,323
BlackRock Investment Management (UK) Limited	28-Feb-19	no	n/a	collateral transfer	ORD	15,738	15,738
BlackRock Asset Management North Asia Limited	28-Feb-19	no	n/a	collateral transfer	ORD	6,853	6,853
BlackRock Advisors (UK) Limited	01-Mar-19	yes	19.33	on mkt buy	ORD	3,972	3,972
BlackRock Advisors (UK) Limited	04-Mar-19	yes	19.37	on mkt buy	ORD	3,069	3,069
BlackRock Advisors (UK) Limited	05-Mar-19	yes	19.12	on mkt buy	ORD	30,750	30,750
BlackRock Advisors (UK) Limited	05-Mar-19	yes	19.12	on mkt buy	ORD	1,126	1,126
BlackRock Investment Management (Australia) Limited	05-Mar-19	yes	19.12	on mkt buy	ORD	10,617	10,617
BlackRock Fund Advisors	05-Mar-19	no	n/a	in specie	ORD	10,806	10,806
BlackRock Financial Management, Inc.	06-Mar-19	yes	18.88	on mkt buy	ORD	1,250	1,250
BlackRock Investment Management (UK) Limited	06-Mar-19	yes	18.78	on mkt buy	ORD	39,363	39,363
BlackRock Investment Management (Australia) Limited	06-Mar-19	yes	19.06	on mkt buy	ORD	90,539	90,539
BlackRock Investment Management (Australia) Limited	06-Mar-19	yes	19.06	on mkt buy	ORD	13,442	13,442
BlackRock Investment Management (Australia) Limited	06-Mar-19	yes	19.06	on mkt buy	ORD	8,548	8,548
BlackRock Advisors (UK) Limited	06-Mar-19	yes	19.13	on mkt buy	ORD	15,420	15,420
BlackRock Investment Management (Australia) Limited	06-Mar-19	yes	19.13	on mkt buy	ORD	18,078	18,078
BlackRock Fund Advisors	06-Mar-19	no	n/a	in specie	ORD	30,073	30,073
BlackRock Investment Management (UK) Limited	07-Mar-19	yes	19.26	on mkt buy	ORD	7,237	7,237
BlackRock Advisors (UK) Limited	07-Mar-19	yes	19.18	on mkt buy	ORD	2,520	2,520
BlackRock Fund Advisors	07-Mar-19	no	n/a	in specie	ORD	21,612	21,612
BlackRock Advisors (UK) Limited	08-Mar-19	yes	18.80	on mkt buy	ORD	3,263	3,263



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BlackRock Advisors (UK) Limited	08-Mar-19	yes	18.80	on mkt buy	ORD	194	194
BlackRock Advisors (UK) Limited	08-Mar-19	yes	18.80	on mkt buy	ORD	2,259	2,259
BlackRock Advisors (UK) Limited	08-Mar-19	yes	18.80	on mkt buy	ORD	993	993
BlackRock Fund Advisors	08-Mar-19	no	n/a	in specie	ORD	19,703	19,703
BlackRock Fund Advisors	08-Mar-19	no	n/a	in specie	ORD	10,806	10,806
BlackRock Advisors (UK) Limited	08-Mar-19	no	n/a	collateral transfer	ORD	969,111	969,111
BlackRock Investment Management (Australia) Limited	11-Mar-19	yes	18.43	on mkt buy	ORD	25,393	25,393
BlackRock Fund Advisors	11-Mar-19	no	n/a	in specie	ORD	21,612	21,612
BlackRock Financial Management, Inc.	12-Mar-19	yes	18.67	on mkt buy	ORD	902	902
BlackRock Advisors (UK) Limited	12-Mar-19	yes	18.50	on mkt buy	ORD	3,514	3,514
BlackRock Advisors (UK) Limited	12-Mar-19	yes	18.50	on mkt buy	ORD	3,263	3,263
BlackRock Institutional Trust Company, National Association	12-Mar-19	yes	18.50	on mkt buy	ORD	58,768	58,768
BlackRock Fund Advisors	12-Mar-19	no	n/a	in specie	ORD	25,925	25,925
BlackRock Japan Co., Ltd.	12-Mar-19	no	n/a	collateral transfer	ORD	304,869	304,869
BlackRock Advisors (UK) Limited	12-Mar-19	no	n/a	collateral transfer	ORD	180,343	180,343