



## **PETROLEUM AND NATURAL GAS LEASE**

**NO. 0518070181**

**Term Commencement Date:** July 26, 2018

**Lessee:**

MKS INVESTMENTS LTD.

100.00000000%

WHEREAS Her Majesty is the owner of the minerals in respect of which rights are granted under this Lease;

THEREFORE, subject to the terms and conditions of this Lease, Her Majesty grants to the Lessee, insofar as Her Majesty has the right to grant the same, the exclusive right to drill for and recover the Leased Substances within the Location, together with the right to remove from the Location any Leased Substances recovered, for the term of five years computed from the Term Commencement Date and, subject to the *Mines and Minerals Act*, for so long after the expiration of that term as this Lease is permitted to continue under that Act.

RESERVING AND PAYING to Her Majesty,

- (a) in respect of each year during which this Lease remains in effect, a clear yearly rental computed at the rate prescribed by, and payable in accordance with, the *Mines and Minerals Act*, and
  - (b) the royalty on all Leased Substances recovered pursuant to this Lease, that is now or may hereafter from time to time be prescribed by, and that is payable in accordance with, the *Mines and Minerals Act*, such royalty to be calculated free of any deductions except those that are permitted under the *Mines and Minerals Act*.
- 1(1) In this Lease, a reference to the *Mines and Minerals Act* or to any other Act of the Legislature of Alberta referred to in section 2(2)(b) of this Lease shall be construed as a reference to
- (a) that Act, as amended from time to time,
  - (b) any replacement of all or part of that Act from time to time enacted by the Legislature, as amended from time to time, and
  - (c) any regulations, orders, directives or other subordinate legislation from time to time made under any enactment referred to in clause (a) or (b), as amended from time to time.
- (2) In this Lease,
- (a) "Her Majesty" means Her Majesty in right of Alberta, as represented by the Minister of Energy of the Province of Alberta;
  - (b) "Leased Substances" means the minerals described under the heading "Description of Location and Leased Substances" in the Appendix to this Lease;
  - (c) "Location" means the subsurface area or areas underlying the surface area of the Tract and described in the Appendix to this Lease under the heading "Description of Location and Leased Substances";

- (d) "Oil Sands Area" means an oil sands deposit designated by the Alberta Energy and Utilities Board under section 7 of the *Oil Sands Conservation Act*, c. O-5.5;
- (e) "Term Commencement Date" means the date shown on the first page of this Lease as the Term Commencement Date;
- (f) "Tract" means the tract or tracts of land described under the heading "Description of Location and Leased Substances" in the Appendix to this Lease.

2. This Lease is granted upon the following conditions:

- (1) The Lessee shall pay to Her Majesty the rental and royalty reserved under this Lease.
- (2) The Lessee shall comply with the provisions of
  - (a) the *Mines and Minerals Act*, and
  - (b) any other Acts of the Legislature of Alberta that prescribe, apply to or affect the rights and obligations of a lessee of petroleum and natural gas rights that are the property of Her Majesty, or that relate to, apply to or affect the Lessee in the conduct of its operations or activities under this Lease.
- (3) The provisions of the Acts referred to in subsection (2) of this section are deemed to be incorporated in this Lease.
- (4) In the event of conflict between a provision of this Lease and a provision referred to in subsection (2) of this section, the latter provision prevails.
- (5) The Lessee shall not claim or purport to exercise any rights, prerogatives, privileges or immunities that would otherwise exempt the Lessee from compliance with any of the provisions of the *Mines and Minerals Act* or of any other Act of the Legislature of Alberta referred to in subsection (2)(b) of this section.
- (6) Natural gas produced pursuant to this Lease shall be used within Alberta unless the consent of the Lieutenant Governor in Council to its use elsewhere is previously obtained.
- (7) The Lessee shall keep Her Majesty indemnified against
  - (a) all actions, claims and demands brought or made against Her Majesty by reason of anything done or omitted to be done, whether negligently or otherwise, by the Lessee or any other person in the exercise or purported exercise of the rights granted and duties imposed under this Lease, and
  - (b) all losses, damages, costs, charges and expenses that Her Majesty sustains or incurs in connection with any action, claim or demand referred to in clause (a).

- (8) The use in this Lease of the word "Lessee", "Lease", "Leased Substances" or "rental," or of any other word or expression,
  - (a) does not create any implied covenant or implied liability on the part of Her Majesty, and
  - (b) does not create the relationship of landlord and tenant between Her Majesty and the Lessee for any purpose.
- (9) This Lease is also subject to the special provisions, if any, contained in the Appendix to this Lease.

APPENDIX

TO

PETROLEUM AND NATURAL GAS LEASE NO. 0518070181

TERM COMMENCEMENT DATE:

JULY 26, 2018

AGGREGATE AREA:

2560 HECTARES

TRACT ONE

DESCRIPTION OF LOCATION AND LEASED SUBSTANCES:

5-20-056: 32

PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM  
AS DESIGNATED IN DRRZD 3  
INTERVAL: 6,303.00 - 6,436.00 FEET  
KEY WELL: 00/16-16-041-06W5/0  
LOG TYPE: ELECTRICAL

TO THE BASE OF THE SECOND WHITE SPECKS  
AS DESIGNATED IN DRRZD 104  
INTERVAL: 2,108.50 - 2,186.00 METRES  
KEY WELL: 00/12-02-056-19W5/0  
LOG TYPE: DUAL INDUCTION SFL

PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD  
AS DESIGNATED IN DRRZD 21  
INTERVAL: 2,754.00 - 3,043.00 FEET  
KEY WELL: 00/10-32-081-01W6/0  
LOG TYPE: DUAL INDUCTION SPHERICALLY FOCUSED

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TRACT TWO

DESCRIPTION OF LOCATION AND LEASED SUBSTANCES:

5-20-056: 20; 28; 29; 34; 35

5-20-057: 2; 11

PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD  
AS DESIGNATED IN DRRZD 21

INTERVAL: 2,754.00 - 3,043.00 FEET

KEY WELL: 00/10-32-081-01W6/0

LOG TYPE: DUAL INDUCTION SPHERICALLY FOCUSED

TRACT THREE

DESCRIPTION OF LOCATION AND LEASED SUBSTANCES:

5-20-056: 33

PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE ROCK CREEK MBR  
AS DESIGNATED IN DRRZD 60

INTERVAL: 2,502.50 - 2,531.50 METRES

KEY WELL: 00/10-35-049-13W5/2

LOG TYPE: DUAL LATEROLOG

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TRACT FOUR

DESCRIPTION OF LOCATION AND LEASED SUBSTANCES:

5-20-057: 5

PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD  
AS DESIGNATED IN DRRZD 21  
INTERVAL: 2,754.00 - 3,043.00 FEET  
KEY WELL: 00/10-32-081-01W6/0  
LOG TYPE: DUAL INDUCTION SPHERICALLY FOCUSED

TO THE BASE OF THE TRIASSIC SYSTEM  
AS DESIGNATED IN DRRZD 37  
INTERVAL: 6,948.00 - 7,042.00 FEET  
KEY WELL: 00/10-07-062-19W5/0  
LOG TYPE: DUAL INDUCTION FOCUSED

PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE DUVERNAY-MAJEAU LAKE FM  
AS DESIGNATED IN DRRZD 287  
INTERVAL: 3,274.00 - 3,334.00 METRES  
KEY WELL: 00/03-32-063-22W5/0  
LOG TYPE: COMPENSATED NEUTRON LITHOLOGY DENSITY

SPECIAL PROVISIONS:

NIL

PETROLEUM AND NATURAL GAS LEASE NO. 0518070181

**NOTICE TO LESSEE**

THE LAND(S) IN THIS LEASE IS/ARE WITHIN A SENSITIVE HABITAT AREA.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

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