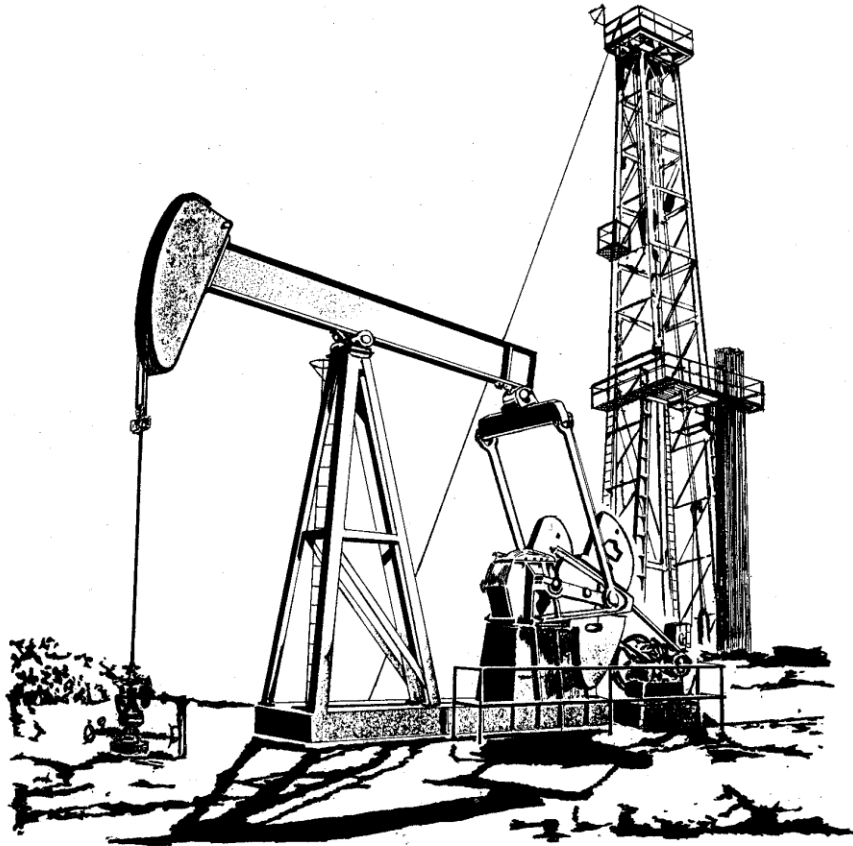


2017 AUGUST 02

PUBLIC OFFERING OF CROWN PETROLEUM AND NATURAL GAS RIGHTS



Alberta 
Government

PUBLIC OFFERING CONTROL COUNTS FOR 2017.08.02

| From | To | Total | Area |
|-----------------|-------|-------|-----------------|
| LEASES: A0001 | A0047 | 47 | 13,810.0000 ha. |
| LICENCES: B0048 | B0058 | 11 | 6,628.4800 ha. |
| | | ----- | |
| | | 58 | 20,438.4800 ha. |

PUBLIC OFFERING OF CROWN
PETROLEUM AND NATURAL GAS RIGHTS

BIDDING DEADLINE

Offers to purchase petroleum and natural gas leases and licences (including any subsequent amendments) contained in this notice will **not** be accepted after **12 noon on 2017 August 02**.

HOW TO SUBMIT BIDS

1. E-Bidding is mandatory for the submission of bids for petroleum and natural gas leases and licences.
2. Bid requests must be submitted using the Department of Energy's Electronic Transfer System (ETS).

AMOUNT OF PAYMENT

1. Your total bid includes the bonus, rent at \$3.50/ha or \$50.00, whichever is greater, and a fee of \$625.00.
2. A bonus offer of less than \$2.50/ha for a lease or \$1.25/ha for a licence will not be considered.
3. The department reserves the right to reject any bid.

FORM OF PAYMENT

1. Payments must be made by electronic funds transfer (EFT) only.
2. Companies and individuals that do not have a GST registration number are liable for payment of the Goods and Services Tax on various charges. All registrants must ensure that they provide their GST registration number in writing to the Financial Services Branch @ Fax No. (780) 422-4281.

REMEMBER

1. The bidder is responsible for having sufficient funds to cover all bids in their EFT bank account by noon on the day of the sale. It can take up to midnight on the day following the sale to see your funds debited from your bank account for an accepted bid.
2. Requesters of parcels posted in this public offering are expected to bid on their parcels. If you are a requester of a parcel and fail to bid, you will be charged a penalty of \$625.00 (plus GST) for each parcel unless it is purchased by someone else.
3. Attached to this notice are APPENDIX 1 and APPENDIX 2 containing applicable Zone Designations (ZDs) and Deeper Rights Reversion Zone Designations (DRRZDs) respectively (See IL 98-14), and APPENDIX 3 containing, where necessary, addenda relating to surface access and terms and conditions for acquisition of parcels within Metis Settlements (See IL 92-19).
4. Addenda do not cover every access situation. Before bidding ensure that the public land manager is contacted for specific access constraints and for standard operating guidelines for that region. On privately owned lands, access approval is a confidential matter between the landowner and the mineral lessee.
5. The Government of Alberta's "*First Nations Consultation Policy on Land Management and Resource Development*" may apply to surface activities proposed as a result of acquiring Crown mineral rights. For information contact SREM Aboriginal Affairs Branch, Alberta Energy and Environment and Sustainable Resource Development at 780-644-8734.

RESULTS OF THE PUBLIC OFFERING

1. The accepted bids information will be available on **2017 August 02** in the afternoon on the Department's website at <http://www.energy.gov.ab.ca>.
2. All agreements are issued in accordance with the Mines & Minerals Act and its regulations.

PETROLEUM AND NATURAL GAS LEASES

LEASE SCHEDULE

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2017 AUGUST 02

| LEASE | HECTARES | LAND DESCRIPTION | |
|-----------------------|----------|--|---|
| --- PLAINS REGION --- | | | |
| A0001 | 256 | 4-18-003: 3 PETROLEUM AND NATURAL GAS | (NAT015201) |
| A0002 | 16 | 4-12-012: 5L4 PETROLEUM AND NATURAL GAS TO THE BASE OF THE SAWTOOTH FM | (DRRZD 20) |
| A0003 | 256 | TRACT ONE 4-10-017: 27SW PETROLEUM AND NATURAL GAS EXCEPTING NATURAL GAS IN THE MILK RIVER FM EXCEPTING NATURAL GAS IN THE MEDICINE HAT SD EXCEPTING NATURAL GAS IN THE SECOND WHITE SPECKS | (ZD 2622) (ZD 2622-B) (ZD 2622-A) |
| | | TRACT TWO 4-10-017: 27N,SE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SECOND WHITE SPECKS | (DRRZD 13) |
| A0004 | 592 | 4-09-018: 6S,NE,L13; 7E 4-10-018: 12 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BASAL COLORADO SD | (DRRZD 48) |
| A0005 | 256 | 4-14-019: 20 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SECOND WHITE SPECKS | (DRRZD 13) |
| A0006 | 128 | 4-14-019: 31E PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BASAL COLORADO SD | (DRRZD 48) |
| A0007 | 768 | TRACT ONE 4-11-025: 36 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MEDICINE HAT SD | (DRRZD 12) |
| | | TRACT TWO 4-10-025: 30 4-11-025: 25 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP | (DRRZD 4) |

2017 AUGUST 02

| LEASE | HECTARES | LAND DESCRIPTION | |
|-------|----------|---|-------------|
| A0008 | 768 | | |
| | | TRACT ONE | |
| | | 4-12-025: 25N,SE | |
| | | PETROLEUM AND NATURAL GAS | |
| | | TO THE BASE OF THE MILK RIVER FM | (DRRZD 11) |
| | | PETROLEUM BELOW THE BASE OF THE | |
| | | BASAL COLORADO SD | (DRRZD 48) |
| | | TO THE BASE OF THE MANNVILLE GRP | (DRRZD 4) |
| | | PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE | |
| | | MANNVILLE GRP | (DRRZD 4) |
| | | TRACT TWO | |
| | | 4-12-025: 25SW | |
| | | PETROLEUM AND NATURAL GAS | |
| | | TO THE TOP OF THE COLORADO GRP | (ZD 18-A) |
| | | PETROLEUM BELOW THE BASE OF THE COLORADO GRP | (ZD 18-A) |
| | | TO THE TOP OF THE BLAIRMORE GRP | (ZD 18-A) |
| | | PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE | |
| | | BLAIRMORE GRP | (ZD 18-A) |
| | | TRACT THREE | |
| | | 4-12-025: 24NE | |
| | | PETROLEUM BELOW THE BASE OF THE | |
| | | BASAL COLORADO SD | (DRRZD 48) |
| | | TO THE BASE OF THE MANNVILLE GRP | (DRRZD 4) |
| | | PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE | |
| | | MANNVILLE GRP | (DRRZD 4) |
| | | TRACT FOUR | |
| | | 4-12-025: 24W | |
| | | PETROLEUM BELOW THE BASE OF THE COLORADO GRP | (ZD 18-A) |
| | | TO THE TOP OF THE BLAIRMORE GRP | (ZD 18-A) |
| | | PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE | |
| | | BLAIRMORE GRP | (ZD 18-A) |
| | | TRACT FIVE | |
| | | 4-12-025: 23; 24SE | |
| | | PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE | |
| | | MANNVILLE GRP | (DRRZD 4) |
| A0009 | 1280 | | |
| | | 4-26-030: 17; 19; 20; 29; 30 | |
| | | PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE | |
| | | VIKING FM | (DRRZD 6) |
| | | TO THE BASE OF THE WABAMUN GRP | (DRRZD 277) |
| A0010 | 256 | | |
| | | 5-01-033: 28 | |
| | | PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE | |
| | | VIKING FM | (DRRZD 6) |
| | | TO THE BASE OF THE PEKISKO FM | (DRRZD 30) |
| A0011 | 64 | | |
| | | 4-24-037: 26NE | |
| | | PETROLEUM AND NATURAL GAS | |
| A0012 | 128 | | |
| | | 4-24-037: 36N | |
| | | PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE | |
| | | MANNVILLE GRP | (DRRZD 4) |
| A0013 | 192 | | |
| | | 4-28-037: 34N,SE | |
| | | PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE | |
| | | MANNVILLE GRP | (DRRZD 4) |
| A0014 | 256 | | |
| | | 4-28-038: 10 | |
| | | PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE | |
| | | MANNVILLE GRP | (DRRZD 4) |
| A0015 | 256 | | |
| | | | (HRV002501) |
| | | | (HRV003201) |
| | | 4-28-038: 11 | |
| | | PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE | |
| | | MANNVILLE GRP | (DRRZD 4) |

PETROLEUM AND NATURAL GAS LEASES

2017 AUGUST 02

| LEASE | HECTARES | LAND DESCRIPTION | |
|-------|----------|--|--|
| A0016 | 256 | 4-26-039: 36 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP | (DRRZD 39) |
| A0017 | 256 | 4-21-040: 35 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MEDICINE HAT SD | (FLD000101) (SHA006801) (SHA007201) (WLT001001) (DRRZD 12) |
| A0018 | 128 | 4-25-040: 6N PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP | (DRRZD 39) |
| A0019 | 256 | 4-25-040: 34 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE WABAMUN GRP | (DRRZD 277) |
| A0020 | 256 | 4-06-041: 16 PETROLEUM AND NATURAL GAS | |
| A0021 | 256 | 4-07-041: 10 PETROLEUM AND NATURAL GAS | |
| A0022 | 256 | 4-07-041: 14 PETROLEUM AND NATURAL GAS | |
| A0023 | 256 | 4-07-041: 24 PETROLEUM AND NATURAL GAS | |
| A0024 | 256 | 4-21-041: 2 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP | (SHA007201) (WLT001001) (DRRZD 280) |
| A0025 | 256 | 4-24-042: 16 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP | (DRRZD 280) |
| A0026 | 256 | 4-24-043: 10 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP | (DRRZD 280) |
| A0027 | 256 | 4-21-044: 22 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP | (DRRZD 39) |
| A0028 | 66 | 4-21-044: 23NP PORTION(S) SHOWN AS MARSHY LAKE ON A TOWNSHIP PLAN APPROVED AND CONFIRMED BY THE SURVEYOR GENERAL AT OTTAWA ON 1893/12/29. PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP | (DRRZD 39) |
| A0029 | 256 | 5-01-047: 10 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM | (DRRZD 3) |

2017 AUGUST 02

| LEASE | HECTARES | LAND DESCRIPTION | |
|-------------------------|----------|------------------|--|
| A0030 | 256 | | |
| | | TRACT ONE | 5-01-047: 11N PETROLEUM AND NATURAL GAS |
| | | TRACT TWO | 5-01-047: 11S PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM (DRRZD 3) |
| A0031 | 16 | | |
| | | | 4-02-050: 18L4 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP (DRRZD 4) |
| A0032 | 64 | | |
| | | | 4-27-060: 27NW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP (DRRZD 4) |
| A0033 | 64 | | |
| | | | 4-27-060: 28SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP (DRRZD 4) |
| A0034 | 64 | | |
| | | | 4-27-061: 4SW PETROLEUM AND NATURAL GAS EXCEPTING NATURAL GAS IN THE VIKING FM (ZD 2141) |
| A0035 | 256 | | (SHA006701) |
| | | | 4-23-063: 23 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP (DRRZD 4) |
| A0036 | 256 | | |
| | | | 4-23-063: 30 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP (DRRZD 4) |
| A0037 | 256 | | |
| | | | 4-24-063: 29 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP (DRRZD 4) |
| A0038 | 768 | | (ADM001801) (GZR002301) (SHA006701) |
| | | | 4-06-065: 3; 4; 8 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP (DRRZD 4) |
| A0039 | 512 | | (ADM001801) (GZR002301) (IRS000602) |
| | | | 4-06-065: 14; 24 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP (DRRZD 4) |
| --- NORTHERN REGION --- | | | |
| A0040 | 256 | | |
| | | | 5-10-047: 7 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM (DRRZD 3) TO THE BASE OF THE NISKU FM (DRRZD 79) |
| A0041 | 384 | | (SHA007901) |
| | | | 5-16-047: 16N; 17 PETROLEUM AND NATURAL GAS TO THE BASE OF THE BELLY RIVER GRP (DRRZD 39) |

PETROLEUM AND NATURAL GAS LEASES

2017 AUGUST 02

| LEASE | HECTARES | LAND DESCRIPTION | |
|-------|-----------|--|---|
| A0042 | 384 | 5-16-047: 16N; 17 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP TO THE BASE OF THE VIKING FM | (SHA007901) (DRRZD 39) (DRRZD 6) |
| A0043 | 256 | 5-16-059: 34 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD TO THE BASE OF THE WINTERBURN GRP | (SHA008201) (DRRZD 21) (DRRZD 80) |
| A0044 | 256 | 6-07-063: 21 PETROLEUM AND NATURAL GAS TO THE BASE OF THE FERNIE GRP | (SHA008201) (DRRZD 276) |
| A0045 | 256 | 6-13-078: 4 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MONTNEY FM | (DRRZD 264) |
| A0046 | 256 | 6-13-079: 3 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MONTNEY FM | (DRRZD 264) |
| A0047 | 512 | 6-11-088: 7; 18 PETROLEUM AND NATURAL GAS | (SHA007001) (SHA008401) |
| 47 | 13,810.00 | HA TOTALS | END |

2017 AUGUST 02

| LICENCE | HECTARES | LAND DESCRIPTION | |
|-------------------------|-------------|--|---|
| --- PLAINS REGION --- | | | |
| B0048 | 1764.48 | | |
| | TRACT ONE | 5-01-038: 6; 14 PETROLEUM AND NATURAL GAS | |
| | TRACT TWO | 5-01-038: 18 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP EXCEPTING NATURAL GAS IN THE GLAUCONITIC & LOWER MANN EXCEPTING NATURAL GAS IN THE PEKISKO FM | (DRRZD 39) (ZD 2058-1) (ZD 2058-1) |
| | TRACT THREE | 4-28-038: 6E,Wf PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM | (DRRZD 6) |
| | TRACT FOUR | 5-01-038: 2; 4; 11 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP | (DRRZD 4) |
| --- NORTHERN REGION --- | | | |
| B0049 | 256 | | (PRP008601) (TSH003401) (TSH003501) |
| | | 5-21-053: 17 PETROLEUM AND NATURAL GAS IN THE BLUESKY-BULLHEAD | (DRRZD 21) |
| B0050 | 256 | | (SHA007001) (SHA008001) |
| | | 5-16-063: 34 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SPIRIT RIVER FM | (DRRZD 22) |
| B0051 | 512 | | (SHA007001) (SHA008001) |
| | | 5-17-063: 9; 18 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM | (DRRZD 6) |
| B0052 | 512 | | (ES2000103) (SHA006701) (SHA008201) |
| | TRACT ONE | 6-06-064: 16 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE DUNVEGAN FM PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEACE RIVER FM EXCEPTING PETROLEUM AND NATURAL GAS IN THE MONTNEY FM | (DRRZD 51) (DRRZD 38) (DRRZD 40) (DRRZD 264) |
| | TRACT TWO | 6-06-064: 8W PETROLEUM AND NATURAL GAS TO THE BASE OF THE BLUESKY-BULLHEAD PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLOY FM | (DRRZD 21) (DRRZD 32) |
| | TRACT THREE | 6-06-064: 8E PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE BLUESKY-BULLHEAD PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLOY FM | (DRRZD 51) (DRRZD 21) (DRRZD 32) |

2017 AUGUST 02

| LICENCE | HECTARES | LAND DESCRIPTION | |
|---------|-----------|---|--|
| B0053 | 256 | | (SHA006701) (SHA008201) |
| | TRACT ONE | 6-06-064: 31N,SE PETROLEUM AND NATURAL GAS TO THE BASE OF THE SPIRIT RIVER FM | (DRRZD 22) |
| | | PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MONTNEY FM | (DRRZD 264) |
| | TRACT TWO | 6-06-064: 31SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MONTNEY FM | (DRRZD 264) |
| B0054 | 256 | 6-10-072: 15 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE FERNIE GRP | (DRRZD 276) |
| B0055 | 256 | 6-10-072: 22 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE DUNVEGAN FM | (DRRZD 38) |
| B0056 | 512 | | (TSH003401) (TSH003501) |
| | TRACT ONE | 6-10-076: 13 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CHARLIE LAKE FM | (DRRZD 247) |
| | | EXCEPTING PETROLEUM AND NATURAL GAS IN THE MONTNEY FM | (DRRZD 264) |
| | TRACT TWO | 6-10-076: 15 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE HALFWAY FM | (DRRZD 246) |
| | | EXCEPTING PETROLEUM AND NATURAL GAS IN THE MONTNEY FM | (DRRZD 264) |
| B0057 | 1280 | 5-13-092: 19; 30; 31 5-14-092: 25; 36 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SLAVE POINT FM | (ADM011501) (SHA007001) (DRRZD 18) |
| B0058 | 768 | 5-14-092: 23; 26; 35 PETROLEUM AND NATURAL GAS | (ADM011501) (SHA007001) |
| 11 | 6,628.48 | HA TOTALS | END |

ZONE DESIGNATIONS APPLICABLE TO THE 2017 AUGUST 02 PUBLIC OFFERING NOTICE

ZD: 18-A ZONE: 1600 COLORADO GRP
INTERVAL: 1480.00 - 2878.00 FEET
KEY WELL: 00/10-19-024-11W4/0
LOG TYPE: ELECTRICAL

 ZONE: 2440 BLAIRMORE GRP
INTERVAL: 2878.00 - 3225.00 FEET
KEY WELL: 00/10-19-024-11W4/0
LOG TYPE: ELECTRICAL

ZD: 2058-1 ZONE: 6420 PEKISKO FM
INTERVAL: 6580.00 - 6700.00 FEET
KEY WELL: 00/11-20-039-01W5/0
LOG TYPE: ELECTRICAL

 ZONE: 3004 GLAUCONITIC & LOWER MANN
INTERVAL: 6728.00 - 6920.00 FEET
KEY WELL: 00/06-14-038-02W5/0
LOG TYPE: INDUCTION ELECTRIC

ZD: 2141 ZONE: 2140 VIKING FM
INTERVAL: 2337.00 - 2442.00 FEET
KEY WELL: 00/06-35-060-01W5/0
LOG TYPE: NOT IDENTIFIED

ZD: 2622 ZONE: 1580 MILK RIVER FM
INTERVAL: 945.00 - 1260.00 FEET
KEY WELL: 00/06-30-017-10W4/0
LOG TYPE: RADIOACTIVITY

ZD: 2622-B ZONE: 1640 MEDICINE HAT SD
INTERVAL: 1480.00 - 1518.00 FEET
KEY WELL: 00/11-28-018-09W4/0
LOG TYPE: DUAL INDUCTION-LATEROLOG

ZD: 2622-A ZONE: 1860 SECOND WHITE SPECKS
INTERVAL: 2110.00 - 2265.00 FEET
KEY WELL: 00/06-14-017-10W4/0
LOG TYPE: DUAL INDUCTION-LATEROLOG

END

DEEPER RIGHTS REVERSION ZONE DESIGNATIONS

APPLICABLE TO THE 2017 AUGUST 02 PUBLIC OFFERING NOTICE

DRRZD: 3 ZONE: 1700 CARDIUM FM

INTERVAL: 6303.00 - 6436.00 FEET
KEY WELL: 00/16-16-041-06W5/0
LOG TYPE: ELECTRICAL

DRRZD: 4 ZONE: 2480 MANNVILLE GRP

INTERVAL: 2557.00 - 2985.00 FEET
KEY WELL: 00/06-16-041-08W4/0
LOG TYPE: INDUCTION ELECTRICAL

DRRZD: 6 ZONE: 2140 VIKING FM

INTERVAL: 2600.00 - 2680.00 FEET
KEY WELL: 00/10-10-042-14W4/0
LOG TYPE: INDUCTION ELECTRICAL

DRRZD: 11 ZONE: 1580 MILK RIVER FM

INTERVAL: 677.00 - 972.00 FEET
KEY WELL: 00/15-02-014-05W4/0
LOG TYPE: ELECTRICAL

DRRZD: 12 ZONE: 1640 MEDICINE HAT SD

INTERVAL: 1312.00 - 1582.00 FEET
KEY WELL: 00/06-30-014-04W4/0
LOG TYPE: INDUCTION GAMMA RAY

DRRZD: 13 ZONE: 1860 SECOND WHITE SPECKS

INTERVAL: 1820.00 - 2030.00 FEET
KEY WELL: 00/10-17-014-09W4/0
LOG TYPE: INDUCTION ELECTRIC

DRRZD: 18 ZONE: 7580 SLAVE POINT FM

INTERVAL: 4196.00 - 4336.00 FEET
KEY WELL: 00/02-17-088-08W5/0
LOG TYPE: GAMMA RAY-ACOUSTIC

DRRZD: 20 ZONE: 4280 SAWTOOTH FM

INTERVAL: 3109.00 - 3176.00 FEET
KEY WELL: 00/10-02-006-14W4/0
LOG TYPE: DUAL INDUCTION-LATEROLOG

DRRZD: 21 ZONE: 3052 BLUESKY-BULLHEAD

INTERVAL: 2754.00 - 3043.00 FEET
KEY WELL: 00/10-32-081-01W6/0
LOG TYPE: DUAL INDUCTION SPHERICALLY FOCUSED

DRRZD: 22 ZONE: 2640 SPIRIT RIVER FM

INTERVAL: 2004.00 - 3138.00 FEET
KEY WELL: 00/11-03-078-01W6/0
LOG TYPE: INDUCTION ELECTRIC

DRRZD: 30 ZONE: 6420 PEKISKO FM

INTERVAL: 9232.00 - 9390.00 FEET
KEY WELL: 00/07-13-033-05W5/0
LOG TYPE: BOREHOLE COMPENSATED SONIC

DEEPER RIGHTS REVERSION ZONE DESIGNATIONS
APPLICABLE TO THE 2017 AUGUST 02 PUBLIC OFFERING NOTICE

DRRZD: 32 ZONE: 5560 BELLOY FM

INTERVAL: 2883.00 - 3105.00 FEET
KEY WELL: 00/10-24-078-19W5/0
LOG TYPE: DUAL INDUCTION-LATEROLOG

DRRZD: 38 ZONE: 1920 DUNVEGAN FM

INTERVAL: 2566.00 - 3038.00 FEET
KEY WELL: 00/11-04-074-05W6/0
LOG TYPE: DUAL INDUCTION-LATEROLOG

DRRZD: 39 ZONE: 1260 BELLY RIVER GRP

INTERVAL: 1688.00 - 2453.00 FEET
KEY WELL: 00/07-18-032-22W4/0
LOG TYPE: INDUCTION ELECTRICAL

DRRZD: 40 ZONE: 2280 PEACE RIVER FM

INTERVAL: 3760.00 - 4008.00 FEET
KEY WELL: 00/07-09-076-08W6/0
LOG TYPE: BOREHOLE COMPENSATED SONIC

DRRZD: 48 ZONE: 2420 BASAL COLORADO SD

INTERVAL: 3004.00 - 3024.00 FEET
KEY WELL: 00/06-27-025-12W4/0
LOG TYPE: INDUCTION ELECTRICAL

DRRZD: 51 ZONE: 1700 CARDIUM FM

INTERVAL: 2350.40 - 2415.70 METRES
KEY WELL: 00/07-36-058-03W6/0
LOG TYPE: DUAL INDUCTION SFL

DRRZD: 79 ZONE: 6960 NISKU FM

INTERVAL: 8324.00 - 8730.00 FEET
KEY WELL: 00/06-25-050-10W5/0
LOG TYPE: BOREHOLE COMPENSATED SONIC

DRRZD: 80 ZONE: 6700 WINTERBURN GRP

INTERVAL: 8452.00 - 8914.00 FEET
KEY WELL: 00/10-07-060-17W5/0
LOG TYPE: BOREHOLE COMPENSATED SONIC

DRRZD: 246 ZONE: 5160 HALFWAY FM

INTERVAL: 6344.00 - 6402.00 FEET
KEY WELL: 00/11-18-077-08W6/0
LOG TYPE: BOREHOLE COMPENSATED SONIC

DRRZD: 247 ZONE: 5080 CHARLIE LAKE FM

INTERVAL: 2372.00 - 2448.50 METRES
KEY WELL: 00/10-19-068-06W6/0
LOG TYPE: DUAL INDUCTION SFL

DRRZD: 264 ZONE: 5240 MONTNEY FM

INTERVAL: 2229.00 - 2491.50 METRES
KEY WELL: 00/06-32-076-11W6/0
LOG TYPE: BOREHOLE COMPENSATED SONIC

DEEPER RIGHTS REVERSION ZONE DESIGNATIONS

APPLICABLE TO THE 2017 AUGUST 02 PUBLIC OFFERING NOTICE

DRRZD: 276 ZONE: 4140 FERNIE GRP

 INTERVAL: 2048.00 - 2151.00 METRES
 KEY WELL: 00/13-01-074-11W6/0
 LOG TYPE: BOREHOLE COMPENSATED SONIC

DRRZD: 277 ZONE: 6580 WABAMUN GRP

 INTERVAL: 10452.00 - 11198.00 FEET
 KEY WELL: 00/03-10-063-26W5/0
 LOG TYPE: BOREHOLE COMPENSATED SONIC

DRRZD: 280 ZONE: 1060 EDMONTON GRP

 INTERVAL: 335.00 - 962.00 METRES
 KEY WELL: 00/06-24-044-04W5/0
 LOG TYPE: COMPENSATED NEUTRON-LITHO DENSITY

END

ADDENDA AND CONTACTS APPLICABLE TO THE 2017 AUGUST 02 PUBLIC OFFERING NOTICE

ADM001801 COLD LAKE OIL SANDS DESIGNATED AREA

LEASE A0038
LEASE A0039

ALL LAND(S) IS/ARE WITHIN AN OIL SANDS AREA AS DESIGNATED BY THE ENERGY RESOURCES CONSERVATION BOARD (ERCB). SOLUTION GAS IS EXPRESSLY EXCLUDED FROM THE PETROLEUM AND NATURAL GAS RIGHTS GRANTED UNDER CROWN AGREEMENTS ISSUED IN RESPECT OF OIL SANDS AREAS. MOREOVER, PRODUCTION OF GAS FROM THE LAND(S) IN THIS AGREEMENT MAY BE DISALLOWED OR PRECLUDED BY ORDER OF THE ERCB OR OTHERWISE, ON THE GROUNDS THAT SUCH PRODUCTION MAY DETRIMENTALLY AFFECT THE RECOVERABILITY OF OIL SANDS FROM THOSE LANDS. BY ACCEPTING THIS AGREEMENT FOR THE PETROLEUM AND NATURAL GAS RIGHTS IN THESE LANDS, THE LESSEE/LICENSEE HEREBY ACKNOWLEDGES ALL OF THE ABOVE, AND THAT PRODUCTION OF GAS FROM THE LANDS IN THIS AGREEMENT MAY BY ORDER OF THE ERCB OR OTHERWISE BE PRECLUDED OR DISALLOWED, AND HEREBY WAIVES ANY RECOURSE, ACTION, CAUSE OF ACTION OR CLAIM THAT THE LESSEE/LICENSEE MAY HAVE AGAINST THE CROWN IN RIGHT OF ALBERTA AS A RESULT OF OR IN RELATION TO ITS INABILITY FOR ANY OF THE ABOVE REASONS OR FOR ANY OTHER REASON WHATSOEVER TO PRODUCE GAS FROM THE LANDS IN THIS AGREEMENT. FOR THE DEFINITION OF SOLUTION GAS AND OTHER RELEVANT INFORMATION, PLEASE REFER TO INFORMATION LETTER 99-38. FOR CURRENT POLICY ON NATURAL GAS PRODUCTION IN THE OIL SANDS ZONES IDENTIFIED WITHIN OIL SANDS AREAS, PLEASE REFER TO ERCB INTERIM DIRECTIVE 99-01.

SURFACE ACCESS IS NOT AFFECTED

FOR FURTHER INFORMATION, PLEASE CONTACT:

DONNA CRAWFORD
MANAGER
ALBERTA DEPARTMENT OF ENERGY
9945 108 ST
EDMONTON AB T5K 2G6 (780) 427-8933

ADM011501 PEACE RIVER OIL SANDS DESIGNATED AREA #2

LICENCE B0057
LICENCE B0058

ALL LAND(S) IS/ARE WITHIN AN OIL SANDS AREA AS DESIGNATED BY THE ENERGY RESOURCES CONSERVATION BOARD (ERCB). SOLUTION GAS IS EXPRESSLY EXCLUDED FROM THE PETROLEUM AND NATURAL GAS RIGHTS GRANTED UNDER CROWN AGREEMENTS ISSUED IN RESPECT OF OIL SANDS AREAS. MOREOVER, PRODUCTION OF GAS FROM THE LAND(S) IN THIS AGREEMENT MAY BE DISALLOWED OR PRECLUDED BY ORDER OF THE ERCB OR OTHERWISE, ON THE GROUNDS THAT SUCH PRODUCTION MAY DETRIMENTALLY AFFECT THE RECOVERABILITY OF OIL SANDS FROM THOSE LANDS. BY ACCEPTING THIS AGREEMENT FOR THE PETROLEUM AND NATURAL GAS RIGHTS IN THESE LANDS, THE LESSEE/LICENSEE HEREBY ACKNOWLEDGES ALL OF THE ABOVE, AND THAT PRODUCTION OF GAS FROM THE LANDS IN THIS AGREEMENT MAY BY ORDER OF THE ERCB OR OTHERWISE BE PRECLUDED OR DISALLOWED, AND HEREBY WAIVES ANY RECOURSE, ACTION, CAUSE OF ACTION OR CLAIM THAT THE LESSEE/LICENSEE MAY HAVE AGAINST THE CROWN IN RIGHT OF ALBERTA AS A RESULT OF OR IN RELATION TO ITS INABILITY FOR ANY OF THE ABOVE REASONS OR FOR ANY OTHER REASON WHATSOEVER TO PRODUCE GAS FROM THE LANDS IN THIS AGREEMENT. FOR THE DEFINITION OF SOLUTION GAS AND OTHER RELEVANT INFORMATION, PLEASE REFER TO INFORMATION LETTER 99-38. FOR CURRENT POLICY ON NATURAL GAS PRODUCTION IN THE OIL SANDS ZONES IDENTIFIED WITHIN OIL SANDS AREAS, PLEASE REFER TO ERCB INTERIM DIRECTIVE 99-01.

SURFACE ACCESS IS NOT AFFECTED

FOR FURTHER INFORMATION, PLEASE CONTACT:

DONNA CRAWFORD
MANAGER
ALBERTA DEPARTMENT OF ENERGY
9945 108 ST
EDMONTON AB T5K 2G6 (780) 427-8933

ADDENDA AND CONTACTS APPLICABLE TO THE 2017 AUGUST 02 PUBLIC OFFERING NOTICE

SHA006701 KEY WILDLIFE AND BIODIVERSITY ZONES

LAND DESCRIPTION
LEASE A0035 4-23-063: 23SP,NW,NEP
LEASE A0038 4-06-065: 3NWP; 4P
LICENCE B0052 6-06-064: 8NP,SEP; 16
LICENCE B0053 6-06-064: 31SEP

ALL LAND(S) IS/ARE WITHIN A SENSITIVE HABITAT AREA.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

GLENN MACK
PROVINCIAL WILDLIFE HABITAT SPECIALIST
EDMONTON OFFICE - FISH AND WILDLIFE DEPT. OF SUSTAINABLE RESOURCE DEV
9920 108 ST NW FLOOR 2
EDMONTON AB T5K 2M4 (780) 422-3344

SHA006801 COLONIAL NESTING BIRDS

LAND DESCRIPTION
LEASE A0017 4-21-040: 35SP

ALL LAND(S) IS/ARE WITHIN A SENSITIVE HABITAT AREA.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

GLENN MACK
PROVINCIAL WILDLIFE HABITAT SPECIALIST
EDMONTON OFFICE - FISH AND WILDLIFE DEPT. OF SUSTAINABLE RESOURCE DEV
9920 108 ST NW FLOOR 2
EDMONTON AB T5K 2M4 (780) 422-3344

SHA007001 SPECIAL ACCESS ZONE

LAND DESCRIPTION
LEASE A0047 6-11-088: 7E,WP; 18
LICENCE B0050
LICENCE B0051 5-17-063: 9N,SEP,SW; 18
LICENCE B0057 5-13-092: 19EP,W; 30EP,W; 31EP,W
5-14-092: 25; 36
LICENCE B0058 5-14-092: 23; 26S,NWP,NE; 35E,WP

ALL LAND(S) IS/ARE WITHIN A SENSITIVE HABITAT AREA.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

GLENN MACK
PROVINCIAL WILDLIFE HABITAT SPECIALIST
EDMONTON OFFICE - FISH AND WILDLIFE DEPT. OF SUSTAINABLE RESOURCE DEV
9920 108 ST NW FLOOR 2
EDMONTON AB T5K 2M4 (780) 422-3344

SHA007201 PIPING PLOVER

LAND DESCRIPTION
LEASE A0017 4-21-040: 35SP,NWP
LEASE A0024 4-21-041: 2NP,SWP

ALL LAND(S) IS/ARE WITHIN A SENSITIVE HABITAT AREA.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

GLENN MACK
PROVINCIAL WILDLIFE HABITAT SPECIALIST
EDMONTON OFFICE - FISH AND WILDLIFE DEPT. OF SUSTAINABLE RESOURCE DEV
9920 108 ST NW FLOOR 2
EDMONTON AB T5K 2M4 (780) 422-3344

ADDENDA AND CONTACTS APPLICABLE TO THE 2017 AUGUST 02 PUBLIC OFFERING NOTICE

TSH003401 TRUMPETER SWAN HABITAT 500m BUFFER

LAND DESCRIPTION
LICENCE B0049 5-21-053: 17SP
LICENCE B0056 6-10-076: 13WP; 15SEP

ALL LAND(S) IS/ARE WITHIN TRUMPETER SWAN HABITAT 500 METRE BUFFER. ACTIVITIES SHALL NOT OCCUR WITHIN 500 METRES OF THE BED AND SHORE ON IDENTIFIED WATERBODIES AND/OR WATERCOURSES.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

GLENN MACK
PROVINCIAL WILDLIFE HABITAT SPECIALIST
EDMONTON OFFICE - FISH AND WILDLIFE DEPT. OF SUSTAINABLE RESOURCE DEV
9920 108 ST NW FLOOR 2
EDMONTON AB T5K 2M4 (780) 422-3344

TSH003501 TRUMPETER SWAN HABITAT 800m BUFFER

LAND DESCRIPTION
LICENCE B0049 5-21-053: 17P
LICENCE B0056 6-10-076: 13SP,NWP; 15SEP

ALL LAND(S) IS/ARE WITHIN TRUMPETER SWAN HABITAT 500 METRE BUFFER. ACTIVITIES SHALL NOT OCCUR WITHIN 500 METRES OF THE BED AND SHORE ON IDENTIFIED WATERBODIES AND/OR WATERCOURSES.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

GLENN MACK
PROVINCIAL WILDLIFE HABITAT SPECIALIST
EDMONTON OFFICE - FISH AND WILDLIFE DEPT. OF SUSTAINABLE RESOURCE DEV
9920 108 ST NW FLOOR 2
EDMONTON AB T5K 2M4 (780) 422-3344

WLT001001 BUFFALO LAKE

LAND DESCRIPTION
LEASE A0017 4-21-040: 35SWP,L2P,L12P
LEASE A0024 4-21-041: 2NWP,L5P,L15P,L16P

ALL LAND(S) IS/ARE WITHIN A 'WETLANDS FOR TOMORROW' PROJECT.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

REG RUSSELL
WILDLIFE TECHNICIAN
RED DEER OFFICE - FISH AND WILDLIFE DEPT. OF SUSTAINABLE RESOURCE DEV
4911 51 ST SUITE 404
RED DEER AB T4N 6V4 (403) 340-7700

END