

2018 MAY 16

# PUBLIC OFFERING OF CROWN PETROLEUM AND NATURAL GAS RIGHTS



*Alberta*   
Government

PUBLIC OFFERING CONTROL COUNTS FOR 2018.05.16

	From	To	Total	Area
LEASES:	A0105	A0182	78	25,651.5200 ha.
LICENCES:	B0183	B0207	25	67,815.2000 ha.
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			103	93,466.7200 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 2018 May 16**.

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 **2018 May 16** 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.

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LEASE	HECTARES	LAND DESCRIPTION	
--- PLAINS REGION ---			
A0105	256	4-07-025: 3 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
A0106	256	4-12-028: 9 PETROLEUM AND NATURAL GAS	
A0107	128	4-12-028: 13E PETROLEUM AND NATURAL GAS	
A0108	192	4-12-028: 15N,SW PETROLEUM AND NATURAL GAS	
A0109	256	4-12-028: 21 PETROLEUM AND NATURAL GAS	
A0110	64	4-12-028: 34NW PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0111	256	4-16-028: 25 PETROLEUM AND NATURAL GAS	
A0112	256	4-16-028: 29 PETROLEUM AND NATURAL GAS	
A0113	256	4-16-028: 33 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
A0114	256	4-16-029: 15 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BASAL COLORADO SD	(DRRZD 48)
A0115	256	4-09-030: 15 PETROLEUM AND NATURAL GAS	
A0116	256	4-19-031: 7 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP TO THE BASE OF THE VIKING FM	(DRRZD 39) (DRRZD 6)
A0117	64	4-26-031: 26NE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP TO THE BASE OF THE WABAMUN GRP	(DRRZD 280) (DRRZD 277)
A0118	256	4-10-032: 15 PETROLEUM AND NATURAL GAS	
A0119	64	4-15-032: 32NE PETROLEUM AND NATURAL GAS	

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LEASE	HECTARES	LAND DESCRIPTION	
A0120	384		
	TRACT ONE	4-20-032: 30E PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP TO THE BASE OF THE MANNVILLE GRP	(DRRZD 39) (DRRZD 4)
	TRACT TWO	4-20-032: 29SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM TO THE BASE OF THE MANNVILLE GRP	(DRRZD 6) (DRRZD 4)
	TRACT THREE	4-20-032: 29NW; 32W PETROLEUM AND NATURAL GAS IN THE MANNVILLE GRP	(DRRZD 4)
A0121	256	4-27-032: 14 PETROLEUM AND NATURAL GAS TO THE BASE OF THE VIKING FM	(DRRZD 6)
A0122	256	4-27-032: 14 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)
A0123	256	4-27-032: 24 PETROLEUM AND NATURAL GAS TO THE TOP OF THE VIKING FM EXCEPTING PETROLEUM AND NATURAL GAS IN THE BELLY RIVER GRP	(DRRZD 6) (DRRZD 39)
A0124	256	4-27-032: 24 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)
A0125	64	4-25-033: 25NE PETROLEUM AND NATURAL GAS TO THE BASE OF THE VIKING FM	(DRRZD 6)
A0126	64	4-01-034: 13NW PETROLEUM AND NATURAL GAS TO THE BASE OF THE VIKING FM	(DRRZD 6)
A0127	50.24	4-17-036: 5SEP PORTION(S) DESIGNATED AS GOUGH LAKE ON A TOWNSHIP PLAN APPROVED AND CONFIRMED BY THE SURVEYOR GENERAL AT OTTAWA ON 1905/02/12. PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP TO THE BASE OF THE MANNVILLE GRP	(DRRZD 39) (DRRZD 4)
A0128	49.28	4-17-036: 5NEP PORTION(S) DESIGNATED AS GOUGH LAKE ON A TOWNSHIP PLAN APPROVED AND CONFIRMED BY THE SURVEYOR GENERAL AT OTTAWA ON 1905/02/12. PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP TO THE BASE OF THE MANNVILLE GRP	(DRRZD 39) (DRRZD 4)

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LEASE	HECTARES	LAND DESCRIPTION	
A0129	256	5-04-036: 14 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP TO THE BASE OF THE PEKISKO FM EXCEPTING NATURAL GAS IN THE GLAUCONITIC SS EXCEPTING NATURAL GAS IN THE LOWER MANNVILLE&JURASSIC	(DRRZD 280) (DRRZD 30) (ZD 381-2) (ZD 381-2)
A0130	256	4-02-038: 6 PETROLEUM AND NATURAL GAS	
A0131	768	4-02-038: 16; 18; 22 PETROLEUM AND NATURAL GAS	
A0132	256	4-02-038: 32 PETROLEUM AND NATURAL GAS	
A0133	64	4-16-038: 2NW PETROLEUM AND NATURAL GAS	
A0134	64	4-06-041: 1NE PETROLEUM AND NATURAL GAS	
A0135	128	5-03-042: 12E PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0136	128	5-03-042: 12W PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0137	64	5-03-042: 26NE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP	(DRRZD 280)
A0138	256	TRACT ONE 5-03-043: 14N, SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP EXCEPTING PETROLEUM AND NATURAL GAS IN THE MANNVILLE GRP  TRACT TWO 5-03-043: 14SE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 39) (DRRZD 4) (DRRZD 4)
A0139	512	TRACT ONE 4-22-046: 2 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP  TRACT TWO 4-22-046: 4 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(HRV003502) (DRRZD 280) (DRRZD 39)

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LEASE	HECTARES	LAND DESCRIPTION	
A0140	2304		(HRV003502) (HRV003602)
TRACT ONE		4-24-046: 14; 22; 24; 28 PETROLEUM AND NATURAL GAS	
TRACT TWO		4-24-046: 11; 29 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP	(DRRZD 280)
TRACT THREE		4-24-046: 10; 30; 32 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
A0141	2560		(SHA007201)
TRACT ONE		4-22-047: 11-13; 24; 32 PETROLEUM AND NATURAL GAS	
TRACT TWO		4-22-047: 14; 20; 29 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP	(DRRZD 280)
TRACT THREE		4-22-047: 22 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
TRACT FOUR		4-22-047: 28 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0142	3840		
TRACT ONE		4-23-047: 28-30; 32; 34 4-23-048: 4; 6 4-24-048: 2; 10-12; 14 PETROLEUM AND NATURAL GAS	
TRACT TWO		4-23-047: 20 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP	(DRRZD 280)
TRACT THREE		4-24-047: 36 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
TRACT FOUR		4-23-048: 2 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0143	256		
		4-14-048: 2 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0144	256		
		4-25-049: 32 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE NISKU FM	(DRRZD 23)
A0145	16		
		4-01-050: 29L8W, L10E PETROLEUM AND NATURAL GAS	

PETROLEUM AND NATURAL GAS LEASES

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LEASE	HECTARES	LAND DESCRIPTION	
A0146	64		
	TRACT ONE	4-26-050: 34L1,L2 PETROLEUM AND NATURAL GAS TO THE BASE OF THE WABAMUN GRP	(DRRZD 277)
		PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE LEDUC FM	(DRRZD 65)
	TRACT TWO	4-26-050: 34L7,L8 PETROLEUM AND NATURAL GAS TO THE BASE OF THE WABAMUN GRP	(DRRZD 277)
		PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE LEDUC FM	(DRRZD 65)
		EXCEPTING PETROLEUM AND NATURAL GAS IN THE VIKING FM	(DRRZD 6)
A0147	896	4-03-051: 20NW; 28L5,L12-L14; 30; 32 4-03-052: 4 PETROLEUM AND NATURAL GAS	
A0148	64	5-04-051: 18NE PETROLEUM AND NATURAL GAS TO THE BASE OF THE CARDIUM FM	(DRRZD 3)
A0149	256	4-26-052: 6 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE WABAMUN GRP	(DRRZD 277)
A0150	512	4-27-052: 11; 14 PETROLEUM AND NATURAL GAS	
A0151	256	4-03-054: 29 PETROLEUM AND NATURAL GAS	(ADM001801)
A0152	256	4-03-054: 32 PETROLEUM AND NATURAL GAS	(ADM001801) (SHA006701)
A0153	256	4-03-055: 6 PETROLEUM AND NATURAL GAS	(ADM001801)
A0154	768	4-04-056: 26; 35; 36 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(ADM001801) (DRRZD 6)
A0155	256	4-26-056: 4 PETROLEUM AND NATURAL GAS	
A0156	256	4-13-057: 6 PETROLEUM AND NATURAL GAS	(ADM001801)
A0157	256	4-14-057: 25 PETROLEUM AND NATURAL GAS	
A0158	192	4-16-058: 24N,SW PETROLEUM AND NATURAL GAS	
A0159	256	4-17-060: 27 PETROLEUM AND NATURAL GAS	

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LEASE	HECTARES	LAND DESCRIPTION	
A0160	256	4-18-060: 12 PETROLEUM AND NATURAL GAS TO THE TOP OF THE ELK POINT GRP	(SHA006701)  (DRRZD 284)
A0161	64	5-02-063: 25SE PETROLEUM AND NATURAL GAS TO THE BASE OF THE VIKING FM	(DRRZD 6)
A0162	768	4-08-065: 27; 33; 34 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(ADM001801) (IRS002402) (IRS002502) (SHA006701)  (DRRZD 4)
--- NORTHERN REGION ---			
A0163	256	5-19-059: 24 PETROLEUM AND NATURAL GAS TO THE BASE OF THE BLUESKY-BULLHEAD	(ESZ000301) (SHA006701) (SHA008201)  (DRRZD 21)
A0164	512	TRACT ONE 5-14-063: 7E 5-15-063: 13NE PETROLEUM AND NATURAL GAS  TRACT TWO 5-14-063: 18N,SE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD  TRACT THREE 5-15-063: 13NW NATURAL GAS IN THE GETHING FM PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BEAVERHILL LAKE GRP  TRACT FOUR 5-15-063: 13SE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BEAVERHILL LAKE GRP	(SHA006701) (SHA008001)    (DRRZD 21)  (ZD 3294) (DRRZD 5)  (DRRZD 5)
A0165	64	5-16-063: 8NE PETROLEUM AND NATURAL GAS	(SHA008001)
A0166	256	5-18-064: 23 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE TRIASSIC SYSTEM	(DRRZD 37)
A0167	64	4-18-067: 10SE PETROLEUM AND NATURAL GAS	
A0168	64	4-18-067: 10SW PETROLEUM AND NATURAL GAS	
A0169	64	4-18-067: 10NW PETROLEUM AND NATURAL GAS	
A0170	64	4-18-067: 10NE PETROLEUM AND NATURAL GAS	



PETROLEUM AND NATURAL GAS LEASES

LEASE SCHEDULE

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LEASE	HECTARES	LAND DESCRIPTION	
A0171	128	5-20-069: 35W PETROLEUM AND NATURAL GAS	(SHA007001)
A0172	256	5-20-070: 1 PETROLEUM AND NATURAL GAS	
A0173	256	5-20-070: 2 PETROLEUM AND NATURAL GAS	(SHA007001)
A0174	192	5-20-070: 12S,NE PETROLEUM AND NATURAL GAS	
A0175	128	6-07-072: 28N PETROLEUM AND NATURAL GAS TO THE TOP OF THE HALFWAY FM	(DRRZD 246)
A0176	256	5-02-075: 25 PETROLEUM AND NATURAL GAS EXCEPTING NATURAL GAS IN THE WABISKAW MBR EXCEPTING NATURAL GAS IN THE WABAMUN GRP	(ADM011601) (ZD 366) (ZD 366)
A0177	256	5-15-075: 2 PETROLEUM AND NATURAL GAS	
A0178	256	5-14-076: 25 PETROLEUM AND NATURAL GAS TO THE BASE OF THE BLUESKY-BULLHEAD	(DRRZD 21)
A0179	64	6-11-082: 25SE PETROLEUM AND NATURAL GAS TO THE BASE OF THE BALDONNEL FM	(SHA006701) (DRRZD 84)
A0180	64	5-10-084: 1SE PETROLEUM AND NATURAL GAS TO THE BASE OF THE SLAVE POINT FM	(DRRZD 18)
A0181	64	5-13-090: 36SE PETROLEUM AND NATURAL GAS	(ADM011501)
A0182	64	5-10-091: 29SE PETROLEUM AND NATURAL GAS TO THE BASE OF THE PEACE RIVER FM	(ADM011501) (DRRZD 40)
78	25,651.52	HA TOTALS	<b>END</b>

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LICENCE	HECTARES	LAND DESCRIPTION
--- PLAINS REGION ---		
B0183	2048	5-02-028: 6; 30 5-03-028: 2; 10-12; 14; 24 PETROLEUM AND NATURAL GAS
B0184	2048	TRACT ONE 5-03-028: 28; 34; 36 5-03-029: 4; 10; 11; 12W; 16 PETROLEUM AND NATURAL GAS
		TRACT TWO 5-03-029: 12E PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM (DRRZD 3) TO THE BASE OF THE VIKING FM (DRRZD 6) PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP (DRRZD 4)

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LICENCE	HECTARES	LAND DESCRIPTION	
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B0185	3776		
TRACT ONE	4-27-031: 10	PETROLEUM AND NATURAL GAS TO THE TOP OF THE EDMONTON GRP	(DRRZD 280)
		PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
		TO THE BASE OF THE WABAMUN GRP	(DRRZD 277)
TRACT TWO	4-27-030: 34SW	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP	(DRRZD 280)
		TO THE BASE OF THE WABAMUN GRP	(DRRZD 277)
TRACT THREE	4-26-030: 7SW		
	4-27-030: 10; 11; 14; 16		
	4-27-031: 24	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
		TO THE BASE OF THE WABAMUN GRP	(DRRZD 277)
TRACT FOUR	4-27-031: 26NE	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP	(DRRZD 280)
		TO THE BASE OF THE WABAMUN GRP	(DRRZD 277)
		EXCEPTING PETROLEUM AND NATURAL GAS IN THE VIKING FM	(DRRZD 6)
TRACT FIVE	4-27-031: 14	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
		TO THE BASE OF THE WABAMUN GRP	(DRRZD 277)
		EXCEPTING PETROLEUM AND NATURAL GAS IN THE VIKING FM	(DRRZD 6)
TRACT SIX	4-26-032: 18		
	4-27-031: 11; 12		
	4-27-032: 2; 12	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
		TO THE BASE OF THE WABAMUN GRP	(DRRZD 277)
TRACT SEVEN	4-27-030: 22	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP	(DRRZD 280)
		TO THE BASE OF THE VIKING FM	(DRRZD 6)
		PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)
		TO THE BASE OF THE WABAMUN GRP	(DRRZD 277)
TRACT EIGHT	4-27-032: 11	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)
		TO THE BASE OF THE WABAMUN GRP	(DRRZD 277)

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LICENCE	HECTARES	LAND DESCRIPTION	
B0186	2189.8		
	TRACT ONE	4-28-035: 22; 32; 34 4-28-036: 2; 4; 18E,WF 5-01-035: 35S 35NP; 36N PORTION(S) DESIGNATED AS RED DEER RIVER ON A TOWNSHIP PLAN APPROVED AND CONFIRMED BY THE SURVEYOR GENERAL AT OTTAWA ON 1887/01/18. 5-01-036: 12W,L15,L16 PETROLEUM AND NATURAL GAS	
	TRACT TWO	4-28-035: 16 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP TO THE BASE OF THE VIKING FM PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 39) (DRRZD 6) (DRRZD 4)
B0187	3225.4		(HRV003502) (HRV003602)
	TRACT ONE	5-01-035: 30SW; 32N; 34NE 5-01-036: 6SE,L11P,L13,L14 PORTION(S) DESIGNATED AS RED DEER RIVER ON A TOWNSHIP PLAN APPROVED AND CONFIRMED BY THE SURVEYOR GENERAL AT OTTAWA ON 1887/01/18. 5-02-036: 23W PETROLEUM AND NATURAL GAS	
	TRACT TWO	5-02-036: 16; 18 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP	(DRRZD 280)
	TRACT THREE	5-01-036: 4W,SEP PORTION(S) LYING NORTH OF THE RIGHT BANK OF THE RED DEER RIVER AS SHOWN ON A TOWNSHIP PLAN APPROVED AND CONFIRMED BY THE SURVEYOR GENERAL AT OTTAWA ON 1887/01/18 AND EXCEPTING THE ISLAND ON THE SAID TOWNSHIP PLAN. PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
	TRACT FOUR	5-02-036: 28 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
	TRACT FIVE	5-02-036: 20W; 29; 30; 32 5-02-037: 4S,NW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
	TRACT SIX	5-02-036: 20E PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE JURASSIC SYSTEM	(DRRZD 90)
	TRACT SEVEN	5-01-035: 28N,SE 5-01-036: 18N,SW 5-02-036: 26NE; 35SE,SWP PORTION(S) LYING TO THE SOUTH OF THE LEFT BANK OF THE MEDICINE RIVER AS SHOWN ON A TOWNSHIP PLAN APPROVED AND CONFIRMED BY THE SURVEYOR GENERAL AT OTTAWA ON 1896/07/24. 35NWP PORTION(S) DESIGNATED AS MEDICINE RIVER ON A TOWNSHIP PLAN APPROVED AND CONFIRMED BY THE SURVEYOR GENERAL AT OTTAWA ON 1896/07/24. PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)

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LICENCE	HECTARES	LAND DESCRIPTION	
B0188	3072		(DMR000501) (PRA012801) (PRA026601)
TRACT ONE		5-02-035: 2 PETROLEUM AND NATURAL GAS	
TRACT TWO		5-02-035: 4 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP TO THE BASE OF THE VIKING FM PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 280) (DRRZD 6) (DRRZD 30)
TRACT THREE		5-02-035: 10-12; 14; 16; 18; 20; 22; 24; 28 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)

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LICENCE	HECTARES	LAND DESCRIPTION	
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B0189	2880		(DMR000501) (PRA012801) (PRA012901) (PRA013101) (PRA026601)
TRACT ONE		5-02-036: 6S,NW 5-03-036: 12 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP EXCEPTING NATURAL GAS IN THE LOWER MANNVILLE FM EXCEPTING NATURAL GAS IN THE PEKISKO FM	(DRRZD 280) (ZD 3136) (ZD 3136)
TRACT TWO		5-03-036: 11; 14SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP EXCEPTING PETROLEUM AND NATURAL GAS IN THE CARDIUM FM EXCEPTING NATURAL GAS IN THE LOWER MANNVILLE FM EXCEPTING NATURAL GAS IN THE PEKISKO FM	(DRRZD 280) (DRRZD 3) (ZD 3136) (ZD 3136)
TRACT THREE		5-03-036: 2S,NE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP EXCEPTING PETROLEUM AND NATURAL GAS IN THE CARDIUM FM EXCEPTING PETROLEUM AND NATURAL GAS IN THE MANNVILLE GRP EXCEPTING NATURAL GAS IN THE PEKISKO FM	(DRRZD 280) (DRRZD 3) (DRRZD 4) (ZD 3136)
TRACT FOUR		5-03-036: 26NE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
TRACT FIVE		5-03-036: 22S PETROLEUM AND NATURAL GAS TO THE TOP OF THE CARDIUM FM PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP EXCEPTING PETROLEUM AND NATURAL GAS IN THE EDMONTON GRP	(DRRZD 3) (DRRZD 4) (DRRZD 280)
TRACT SIX		5-03-036: 2NW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM EXCEPTING PETROLEUM AND NATURAL GAS IN THE MANNVILLE GRP EXCEPTING NATURAL GAS IN THE PEKISKO FM	(DRRZD 3) (DRRZD 4) (ZD 3136)
TRACT SEVEN		5-03-036: 22N; 24 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
TRACT EIGHT		5-02-036: 6NE 5-03-036: 14SE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP EXCEPTING NATURAL GAS IN THE PEKISKO FM	(DRRZD 4) (ZD 3136)
TRACT NINE		5-02-035: 29 PETROLEUM AND NATURAL GAS TO THE BASE OF THE EDMONTON GRP PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 280) (DRRZD 30)
TRACT TEN		5-02-035: 30; 32 5-02-036: 4 5-03-036: 14N PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)

2018 MAY 16

LICENCE	HECTARES	LAND DESCRIPTION	
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B0190	2816		
TRACT ONE		5-03-036: 16S PETROLEUM AND NATURAL GAS EXCEPTING PETROLEUM AND NATURAL GAS IN THE CARDIUM FM	(DRRZD 3)
TRACT TWO		5-03-035: 34 PETROLEUM AND NATURAL GAS EXCEPTING PETROLEUM AND NATURAL GAS IN THE EDMONTON GRP EXCEPTING PETROLEUM AND NATURAL GAS IN THE CARDIUM FM	(DRRZD 280) (DRRZD 3)
TRACT THREE		5-03-036: 4E PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP	(DRRZD 280)
TRACT FOUR		5-03-036: 4W PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM	(DRRZD 3)
TRACT FIVE		5-03-036: 28NW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
TRACT SIX		5-03-037: 10NE PETROLEUM AND NATURAL GAS IN THE VIKING FM PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 6) (DRRZD 4)
TRACT SEVEN		5-03-036: 16N; 28S,NE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
TRACT EIGHT		5-03-036: 18E PETROLEUM AND NATURAL GAS TO THE BASE OF THE LEDUC FM EXCEPTING PETROLEUM AND NATURAL GAS IN THE VIKING FM	(DRRZD 7) (DRRZD 6)
TRACT NINE		5-03-036: 30E PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE LEDUC FM	(DRRZD 3) (DRRZD 7)
TRACT TEN		5-03-036: 34 PETROLEUM AND NATURAL GAS TO THE BASE OF THE EDMONTON GRP PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE TURNER VALLEY FM	(DRRZD 280) (DRRZD 28)
TRACT ELEVEN		5-03-036: 10 PETROLEUM AND NATURAL GAS TO THE BASE OF THE EDMONTON GRP PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 280) (DRRZD 30)
TRACT TWELVE		5-03-035: 36 5-03-036: 20S,NW; 29SE; 32W 5-03-037: 4W; 10S,NW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)

2018 MAY 16

LICENCE	HECTARES	LAND DESCRIPTION	
B0191	3264		
TRACT ONE	5-02-037: 26NE	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
TRACT TWO	5-02-037: 36N,SE	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
TRACT THREE	5-02-037: 20	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
TRACT FOUR	5-03-037: 36	PETROLEUM AND NATURAL GAS TO THE BASE OF THE JURASSIC SYSTEM	(DRRZD 90)
		PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)
		EXCEPTING PETROLEUM AND NATURAL GAS IN THE EDMONTON GRP	(DRRZD 280)
TRACT FIVE	5-03-037: 2NW	PETROLEUM AND NATURAL GAS TO THE BASE OF THE EDMONTON GRP	(DRRZD 280)
		PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
		TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
		PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)
TRACT SIX	5-02-037: 30		
	5-03-037: 11N	PETROLEUM AND NATURAL GAS TO THE BASE OF THE EDMONTON GRP	(DRRZD 280)
		PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)
TRACT SEVEN	5-03-037: 22L9,L10; 26NE	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SHUNDA FM	(DRRZD 29)
TRACT EIGHT	5-02-037: 18; 28; 29; 32		
	5-03-037: 12; 14; 22S,NW,L15,L16	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)
TRACT NINE	5-03-037: 2S,NE	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
		TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)

--- NORTHERN REGION ---

B0192	2048		(SHA008001)
TRACT ONE	5-10-060: 30-32		
	5-10-061: 5S,NW		
	5-11-060: 25; 36		
	5-11-061: 1; 2N,SE	PETROLEUM AND NATURAL GAS	
TRACT TWO	5-10-061: 5NE	PETROLEUM AND NATURAL GAS EXCEPTING PETROLEUM AND NATURAL GAS IN THE VIKING FM	(DRRZD 6)
TRACT THREE	5-11-061: 2SW	PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)



2018 MAY 16

LICENCE	HECTARES	LAND DESCRIPTION	
B0193	3072		(SHA006701) (SHA008001)
	TRACT ONE	5-14-063: 4; 5; 8; 31 5-15-063: 24; 25; 36 PETROLEUM AND NATURAL GAS	
	TRACT TWO	5-14-063: 30N PETROLEUM AND NATURAL GAS EXCEPTING NATURAL GAS IN THE GETHING FM	(ZD 3294)
	TRACT THREE	5-14-063: 17; 20; 30S PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD	(DRRZD 21)
	TRACT FOUR	5-14-063: 32 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE ROCK CREEK MBR	(DRRZD 60)
	TRACT FIVE	5-14-063: 19 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SHUNDA FM	(DRRZD 29)
B0194	5376		(SHA008001)
		5-14-064: 4-9; 16-21; 28-33 5-15-064: 1; 2; 36 PETROLEUM AND NATURAL GAS	
B0195	512		
	TRACT ONE	6-01-064: 11 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MONTNEY FM	(DRRZD 264)
	TRACT TWO	6-01-064: 14 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD TO THE BASE OF THE MONTNEY FM	(DRRZD 21) (DRRZD 264)
B0196	512		
		6-01-064: 11; 14 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MONTNEY FM	(DRRZD 264)
B0197	3584		(SHA006701) (SHA008001)
	TRACT ONE	5-15-065: 1-3; 10-15; 18N,SW 5-16-065: 13 PETROLEUM AND NATURAL GAS	
	TRACT TWO	5-15-065: 9 PETROLEUM AND NATURAL GAS TO THE BASE OF THE GILWOOD MBR	(DRRZD 124)
	TRACT THREE	5-15-065: 17; 18SE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE ROCK CREEK MBR	(DRRZD 60)
	TRACT FOUR	5-15-065: 16 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE ROCK CREEK MBR TO THE BASE OF THE GILWOOD MBR	(DRRZD 60) (DRRZD 124)
B0198	1280		(SHA006701) (SHA007001) (SHA008001)
		5-17-065: 23; 25; 26; 35; 36 PETROLEUM AND NATURAL GAS	

2018 MAY 16

LICENCE	HECTARES	LAND DESCRIPTION	
B0199	6400	5-16-067: 5-8; 17-20 5-17-067: 1-3; 10-16; 21-25; 35; 36 PETROLEUM AND NATURAL GAS	(SHA007001) (SHA008001)
B0200	3328	TRACT ONE 5-17-068: 6 5-18-068: 10; 11; 14-17; 19-22; 30 PETROLEUM AND NATURAL GAS  TRACT TWO 5-18-068: 9 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE TRIASSIC SYSTEM	(SHA007001) (SHA008001)     (DRRZD 37)
B0201	5120	5-19-071: 5-8; 17-20; 29-32 5-20-071: 13-15; 22-24; 27; 28 PETROLEUM AND NATURAL GAS	
B0202	4352	5-19-072: 6; 7; 18 5-20-071: 32; 33 5-20-072: 1-5; 9-15 PETROLEUM AND NATURAL GAS	(IRS000201) (SHA006701)
B0203	256	6-06-075: 17 PETROLEUM AND NATURAL GAS TO THE BASE OF THE HALFWAY FM	(SHA007001)  (DRRZD 246)
B0204	256	TRACT ONE 6-09-076: 27S PETROLEUM AND NATURAL GAS TO THE BASE OF THE HALFWAY FM  TRACT TWO 6-09-076: 27N PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE DOE CREEK MBR TO THE BASE OF THE HALFWAY FM	   (DRRZD 246)   (DRRZD 25) (DRRZD 246)
B0205	1280	TRACT ONE 5-08-082: 7; 18; 19 5-09-082: 12N,SE; 13 PETROLEUM AND NATURAL GAS  TRACT TWO 5-09-082: 12SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE KEG RIVER SS	      (DRRZD 17)
B0206	1792	TRACT ONE 5-09-082: 11N; 14; 15S; 23NE; 24-26 PETROLEUM AND NATURAL GAS  TRACT TWO 5-09-082: 11S; 15N; 23S,NW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE KEG RIVER SS	     (DRRZD 17)
B0207	3328	5-13-093: 7 5-14-093: 12-16; 21-24; 26-28 PETROLEUM AND NATURAL GAS	(ADM011501) (SHA007001)
25	67,815.20	HA TOTALS	END

ZONE DESIGNATIONS APPLICABLE TO THE 2018 MAY 16 PUBLIC OFFERING NOTICE

ZD: 366                               ZONE: 3060 WABISKAW MBR  
  
INTERVAL: 2416.00 - 2443.00 FEET  
KEY WELL: 00/10-23-075-02W5/0  
LOG TYPE: INDUCTION ELECTRIC

                                      ZONE: 6580 WABAMUN GRP  
  
INTERVAL: 2443.00 - 2476.00 FEET  
KEY WELL: 00/10-23-075-02W5/0  
LOG TYPE: INDUCTION ELECTRIC

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ZD: 381-2                             ZONE: 3000 GLAUCONITIC SS  
  
INTERVAL: 7896.00 - 7918.00 FEET  
KEY WELL: 00/07-07-036-04W5/0  
LOG TYPE: DUAL INDUCTION-LATEROLOG

                                      ZONE: 3106 LOWER MANNVILLE&JURASSIC  
  
INTERVAL: 7974.00 - 8205.00 FEET  
KEY WELL: 00/07-07-036-04W5/0  
LOG TYPE: DUAL INDUCTION-LATEROLOG

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ZD: 3136                             ZONE: 3100 LOWER MANNVILLE FM  
  
INTERVAL: 7067.00 - 7221.00 FEET  
KEY WELL: 00/10-06-036-02W5/0  
LOG TYPE: DUAL INDUCTION FOCUSED

                                      ZONE: 6420 PEKISKO FM  
  
INTERVAL: 7328.00 - 7475.00 FEET  
KEY WELL: 00/10-06-036-02W5/0  
LOG TYPE: DUAL INDUCTION FOCUSED

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ZD: 3294                             ZONE: 3260 GETHING FM  
  
INTERVAL: 5432.00 - 5635.00 FEET  
KEY WELL: 00/03-07-063-13W5/0  
LOG TYPE: DUAL INDUCTION-LATEROLOG

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END

DEEPER RIGHTS REVERSION ZONE DESIGNATIONS

APPLICABLE TO THE 2018 MAY 16 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

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DRRZD: 4                    ZONE: 2480   MANNVILLE GRP  
  
INTERVAL: 2557.00 - 2985.00 FEET  
KEY WELL: 00/06-16-041-08W4/0  
LOG TYPE: INDUCTION ELECTRICAL

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DRRZD: 5                    ZONE: 7440   BEAVERHILL LAKE GRP  
  
INTERVAL: 8645.00 - 9118.00 FEET  
KEY WELL: 00/10-22-068-11W5/0  
LOG TYPE: INDUCTION ELECTRICAL

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DRRZD: 6                    ZONE: 2140   VIKING FM  
  
INTERVAL: 2600.00 - 2680.00 FEET  
KEY WELL: 00/10-10-042-14W4/0  
LOG TYPE: INDUCTION ELECTRICAL

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DRRZD: 7                    ZONE: 7200   LEDUC FM  
  
INTERVAL: 6418.00 - 7033.00 FEET  
KEY WELL: 00/06-20-041-24W4/0  
LOG TYPE: GAMMA RAY-SONIC

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DRRZD: 17                    ZONE: 7735   KEG RIVER SS  
  
INTERVAL: 5625.00 - 5728.00 FEET  
KEY WELL: 00/04-26-081-09W5/0  
LOG TYPE: INDUCTION ELECTRICAL

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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: 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

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DRRZD: 23                    ZONE: 6960   NISKU FM  
  
INTERVAL: 5023.00 - 5190.00 FEET  
KEY WELL: 00/06-24-050-26W4/0  
LOG TYPE: DUAL INDUCTION-LATEROLOG

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DRRZD: 25                    ZONE: 1900   DOE CREEK MBR  
  
INTERVAL: 2330.00 - 2393.00 FEET  
KEY WELL: 00/07-04-075-10W6/0  
LOG TYPE: DUAL INDUCTION-LATEROLOG

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DRRZD: 28                    ZONE: 6300   TURNER VALLEY FM  
  
INTERVAL: 5817.00 - 6172.00 FEET  
KEY WELL: 00/08-30-019-02W5/0  
LOG TYPE: GAMMA RAY NEUTRON

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DEEPER RIGHTS REVERSION ZONE DESIGNATIONS  
APPLICABLE TO THE 2018 MAY 16 PUBLIC OFFERING NOTICE

DRRZD: 29                    ZONE: 6400 SHUNDA FM  
  
INTERVAL: 11048.00 - 11229.00 FEET  
KEY WELL: 00/07-24-041-12W5/0  
LOG TYPE: BOREHOLE COMPENSATED SONIC

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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

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DRRZD: 37                    ZONE: 5000 TRIASSIC SYSTEM  
  
INTERVAL: 6948.00 - 7042.00 FEET  
KEY WELL: 00/10-07-062-19W5/0  
LOG TYPE: DUAL INDUCTION FOCUSED

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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

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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

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DRRZD: 60                    ZONE: 4320 ROCK CREEK MBR  
  
INTERVAL: 2502.50 - 2531.50 METRES  
KEY WELL: 00/10-35-049-13W5/2  
LOG TYPE: DUAL LATEROLOG

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DRRZD: 65                    ZONE: 7200 LEDUC FM  
  
INTERVAL: 3167.00 - 4322.00 FEET  
KEY WELL: 00/07-17-056-21W4/0  
LOG TYPE: FORMATION DENSITY

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DRRZD: 84                    ZONE: 5060 BALDONNEL FM  
  
INTERVAL: 5728.00 - 5764.00 FEET  
KEY WELL: 00/11-21-077-10W6/0  
LOG TYPE: BOREHOLE COMPENSATED SONIC

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DRRZD: 90                    ZONE: 4000 JURASSIC SYSTEM  
  
INTERVAL: 7052.00 - 7148.00 FEET  
KEY WELL: 00/06-29-039-03W5/0  
LOG TYPE: INDUCTION ELECTROLOG

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DRRZD: 124                   ZONE: 7655 GILWOOD MBR  
  
INTERVAL: 8096.00 - 8132.00 FEET  
KEY WELL: 00/04-10-073-18W5/0  
LOG TYPE: INDUCTION ELECTRICAL

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DEEPER RIGHTS REVERSION ZONE DESIGNATIONS

APPLICABLE TO THE 2018 MAY 16 PUBLIC OFFERING NOTICE

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

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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

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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

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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

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DRRZD: 284                    ZONE: 7635    ELK POINT GRP  
  
INTERVAL: 783.00 - 1370.00 METRES  
KEY WELL: 02/06-13-063-08W4/0  
LOG TYPE: COMPENSATED NEUTRON-LITHO DENSITY

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END

## ADDENDA AND CONTACTS APPLICABLE TO THE 2018 MAY 16 PUBLIC OFFERING NOTICE

**ADM001801 COLD LAKE OIL SANDS DESIGNATED AREA**

LEASE A0151  
 LEASE A0152  
 LEASE A0153  
 LEASE A0154  
 LEASE A0156  
 LEASE A0162

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**

LEASE A0181  
 LEASE A0182  
 LICENCE B0207

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 2018 MAY 16 PUBLIC OFFERING NOTICE

**HRV003502 HISTORIC RESOURCES VALUE 1**

LAND DESCRIPTION  
LEASE A0139 4-22-046: 2L2,L3  
LEASE A0140 4-24-046: 14L9  
LICENCE B0187 5-02-036: 26L9,L10

ALL LAND(S) IS/ARE WITHIN A HERITAGE RESOURCES MANAGEMENT AREA.

SURFACE ACCESS IS NOT PERMITTED

FOR FURTHER INFORMATION, PLEASE CONTACT:

GEORGE CHALUT  
LAND USE PLANNER  
CULTURE, DEPARTMENT OF  
HISTORIC RESOURCE MANAGEMENT BRANCH  
LAND USE PLANNING SECTION  
OLD ST STEPHEN'S COLLEGE  
8820 112 ST NW  
EDMONTON AB T6G 2P8 (780) 431-2329

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**HRV003602 HISTORIC RESOURCES VALUE 2**

LAND DESCRIPTION  
LEASE A0140 4-24-046: 14L7,L9  
LICENCE B0187 5-02-036: 26L9

ALL LAND(S) IS/ARE WITHIN A HERITAGE RESOURCES MANAGEMENT AREA.

SURFACE ACCESS IS NOT PERMITTED

FOR FURTHER INFORMATION, PLEASE CONTACT:

GEORGE CHALUT  
LAND USE PLANNER  
CULTURE, DEPARTMENT OF  
HISTORIC RESOURCE MANAGEMENT BRANCH  
LAND USE PLANNING SECTION  
OLD ST STEPHEN'S COLLEGE  
8820 112 ST NW  
EDMONTON AB T6G 2P8 (780) 431-2329

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**IRS000201 STURGEON LAKE-PUSKWASKAU EAST**

LAND DESCRIPTION  
LICENCE B0202 5-20-072: 5P

ALL LAND(S) IS/ARE WITHIN A INTEGRATED RESOURCE PLAN SPECIAL LAND USE AREA

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

LANDS OFFICER  
GRANDE PRAIRIE OFFICE  
GRANDE PRAIRIE OFFICE - LAND USE AREA-LANDS DIVISION DEPT. OF SUSTAINABLE  
RESOURCE DEV  
10320 99 ST  
GRANDE PRAIRIE AB T8V 6J4 (780) 538-5260

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**IRS002402 LAKELAND IRP - RESOURCE MANAGEMENT AREA I**

LAND DESCRIPTION  
LEASE A0162 4-08-065: 27WP; 33SP,NWP,NE; 34WP

ALL LAND(S) IS/ARE WITHIN THE LAKELAND INTEGRATED RESOURCE PLAN.

SURFACE ACCESS IS NOT PERMITTED

FOR FURTHER INFORMATION, PLEASE CONTACT:

LANDS OFFICER  
LAC LA BICHE OFFICE  
LAC LA BICHE OFFICE-LAND USE AREA- LANDS DIVISION DEPT. OF SUSTAINABLE  
RESOURCE DEV  
9503 BEAVERHILL RD  
LAC LA BICHE AB T0A 2C0 (780) 623-5279

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ADDENDA AND CONTACTS APPLICABLE TO THE 2018 MAY 16 PUBLIC OFFERING NOTICE

**IRS002502            LAKELAND IRP - RESOURCE MANAGEMENT AREA J**

LAND DESCRIPTION

LEASE    A0162    4-08-065:    27E,WP; 33SP,NWP; 34E,WP

ALL LAND(S) IS/ARE WITHIN THE LAKELAND INTEGRATED RESOURCE PLAN.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

LANDS OFFICER

LAC LA BICHE OFFICE

LAC LA BICHE OFFICE-LAND USE AREA- LANDS DIVISION DEPT. OF SUSTAINABLE  
RESOURCE DEV

9503 BEAVERHILL RD

LAC LA BICHE AB    T0A 2C0                    (780) 623-5279

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**PRA012801            DICKSON DAM - SOUTH DYKE**

LAND DESCRIPTION

LICENCE B0188    5-02-035:    20NP

LICENCE B0189    5-02-035:    29SEP

ALL LAND(S) IS/ARE WITHIN A PROVINCIAL RECREATION AREA.

SURFACE ACCESS IS NOT PERMITTED

FOR FURTHER INFORMATION, PLEASE CONTACT:

DEBORAH JOHNSTONE

PLANNING AND LAND USE TECHNOLOGIST

TOURISM, PARKS AND RECREATION

PARKS AND PROTECTED AREAS DIVISION

9820 106 ST NW FLOOR 2

EDMONTON AB    T5K 2J6                    (780) 644-5357

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**PRA012901            DICKSON DAM - NORTH DYKE**

LAND DESCRIPTION

LICENCE B0189    5-02-035:    29NWP; 30NEP

ALL LAND(S) IS/ARE WITHIN A PROVINCIAL RECREATION AREA.

SURFACE ACCESS IS NOT PERMITTED

FOR FURTHER INFORMATION, PLEASE CONTACT:

DEBORAH JOHNSTONE

PLANNING AND LAND USE TECHNOLOGIST

TOURISM, PARKS AND RECREATION

PARKS AND PROTECTED AREAS DIVISION

9820 106 ST NW FLOOR 2

EDMONTON AB    T5K 2J6                    (780) 644-5357

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**PRA013101            DICKSON DAM - NORTH VALLEY**

LAND DESCRIPTION

LICENCE B0189    5-02-036:    4SEP

ALL LAND(S) IS/ARE WITHIN A PROVINCIAL RECREATION AREA.

SURFACE ACCESS IS NOT PERMITTED

FOR FURTHER INFORMATION, PLEASE CONTACT:

DEBORAH JOHNSTONE

PLANNING AND LAND USE TECHNOLOGIST

TOURISM, PARKS AND RECREATION

PARKS AND PROTECTED AREAS DIVISION

9820 106 ST NW FLOOR 2

EDMONTON AB    T5K 2J6                    (780) 644-5357

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ADDENDA AND CONTACTS APPLICABLE TO THE 2018 MAY 16 PUBLIC OFFERING NOTICE

**PRA026601 GLENIFFER RESERVOIR**

LAND DESCRIPTION  
LICENCE B0188 5-02-035: 20NP  
LICENCE B0189 5-02-035: 29SEP,NWP; 30NEP  
5-02-036: 4SEP

ALL LAND(S) IS/ARE WITHIN A PROVINCIAL RECREATION AREA.

SURFACE ACCESS IS NOT PERMITTED

FOR FURTHER INFORMATION, PLEASE CONTACT:

DEBORAH JOHNSTONE  
PLANNING AND LAND USE TECHNOLOGIST  
TOURISM, PARKS AND RECREATION  
PARKS AND PROTECTED AREAS DIVISION  
9820 106 ST NW FLOOR 2  
EDMONTON AB T5K 2J6 (780) 644-5357

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**SHA006701 KEY WILDLIFE AND BIODIVERSITY ZONES**

LAND DESCRIPTION  
LEASE A0152 4-03-054: 32NP,SEP  
LEASE A0160 4-18-060: 12SP,NWP,NE  
LEASE A0162  
LEASE A0163  
LEASE A0164 5-14-063: 7SE,NEP  
5-15-063: 13SEP  
LEASE A0179 6-11-082: 25SEP  
LICENCE B0193 5-14-063: 4SP,NW,NEP; 5; 8SP,NWP  
LICENCE B0197 5-15-065: 13NP,SWP; 14SP,N; 15SP,NW,NEP; 16SP,NW,NEP; 17N,  
SEP,SW; 18  
5-16-065: 13  
LICENCE B0198 5-17-065: 36NP,SEP  
LICENCE B0202 5-20-071: 32EP,W; 33NWP  
5-20-072: 4NP,SWP; 5; 9N,SEP,SW; 10WP; 14NWP; 15SP,NW,NEP

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

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**SHA007001 SPECIAL ACCESS ZONE**

LAND DESCRIPTION  
LEASE A0171 5-20-069: 35WP  
LEASE A0173 5-20-070: 2WP  
LICENCE B0198 5-17-065: 23SP,N; 25; 26; 35; 36NP,SEP,SW  
LICENCE B0199 5-16-067: 5NP,SWP; 6SP,N; 7; 8; 17-20  
5-17-067: 1SP,N; 2SP,N; 3; 10-16; 21-25; 35; 36  
LICENCE B0200  
LICENCE B0203  
LICENCE B0207 5-13-093: 7  
5-14-093: 12-15; 16SP,NWP,NE; 21-24; 26SP; 27SP; 28SP

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

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**SHA007201 PIPING PLOVER**

LAND DESCRIPTION

LEASE A0141 4-22-047: 11WP; 13NP,SWP; 14SP,NEP; 24P

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

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**SHA008001 SWAN HILLS GRIZZLY BEAR ZONE**

LAND DESCRIPTION

LEASE A0164  
LEASE A0165  
LICENCE B0192  
LICENCE B0193  
LICENCE B0194  
LICENCE B0197  
LICENCE B0198 5-17-065: 23P; 25; 26; 35; 36  
LICENCE B0199 5-16-067: 5P; 6P; 7; 8; 17-20  
5-17-067: 1P; 2P; 10P; 11P; 12-14; 15P; 16P; 21-25; 35; 36  
LICENCE B0200 5-17-068: 6  
5-18-068: 10P; 11P; 14; 15P; 16P; 17P; 19-22; 30

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

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**SHA008201 GRANDE CACHE GRIZZLY BEAR ZONE**

LEASE A0163

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

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**END**