

2017 JANUARY 11

# PUBLIC OFFERING OF CROWN PETROLEUM AND NATURAL GAS RIGHTS



*Alberta*   
Government

PUBLIC OFFERING CONTROL COUNTS FOR 2017.01.11

From	To	Total	Area
LEASES: A0001	A0099	99	23,686.6200 ha.
LICENCES: B0100	B0142	43	50,532.5000 ha.
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		142	74,219.1200 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 January 11**.

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 January 11** 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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LEASE	HECTARES	LAND DESCRIPTION	
--- PLAINS REGION ---			
A0001	1344		(ESA000701)
	TRACT ONE	4-11-001: 31N, SW 4-12-001: 26NE 4-12-002: 2; 3 PETROLEUM AND NATURAL GAS	
	TRACT TWO	4-12-002: 1 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SECOND WHITE SPECKS	(DRRZD 13)
	TRACT THREE	4-11-002: 6 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
	TRACT FOUR	4-11-001: 31SE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE LIVINGSTONE FM	(DRRZD 236)
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A0002	256	4-14-010: 25 PETROLEUM AND NATURAL GAS	
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A0003	256	4-15-010: 22 PETROLEUM AND NATURAL GAS	(SHA006801)
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A0004	256	4-15-010: 23 PETROLEUM AND NATURAL GAS	
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A0005	256	4-15-010: 28 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MEDICINE HAT SD	(DRRZD 12)
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A0006	256	4-15-010: 29 PETROLEUM AND NATURAL GAS	
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A0007	768	4-14-011: 4-6 PETROLEUM AND NATURAL GAS	(ESA000101)
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A0008	256	4-14-011: 9 PETROLEUM AND NATURAL GAS	
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A0009	384		(ESA000101)
	TRACT ONE	4-14-011: 11S PETROLEUM AND NATURAL GAS	
	TRACT TWO	4-14-011: 12 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
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A0010	64	4-14-011: 17SE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BOW ISLAND SD	(DRRZD 8)
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A0011	64	4-14-011: 17SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BOW ISLAND SD	(DRRZD 8)
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LEASE	HECTARES	LAND DESCRIPTION	
A0012	256	4-15-011: 1 PETROLEUM AND NATURAL GAS	
A0013	256	4-15-011: 12 PETROLEUM AND NATURAL GAS	
A0014	256	4-18-013: 36 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SECOND WHITE SPECKS	(DRRZD 13)
A0015	128	4-22-017: 10E PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0016	128	4-22-017: 10W PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0017	256	4-14-019: 18 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MEDICINE HAT SD TO THE BASE OF THE MANNVILLE GRP	(DRRZD 12) (DRRZD 4)
A0018	256	4-14-019: 19 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MEDICINE HAT SD TO THE BASE OF THE MANNVILLE GRP	(DRRZD 12) (DRRZD 4)
A0019	256	4-18-019: 4 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MEDICINE HAT SD	(HRV000401) (HRV003201) (DRRZD 12)
A0020	160	4-13-024: 24N,L3,L6 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP EXCEPTING NATURAL GAS IN THE COLORADO GRP EXCEPTING NATURAL GAS IN THE BLAIRMORE GRP	(DRRZD 4) (ZD 7-1) (ZD 7-1)
A0021	64	4-17-027: 28SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MEDICINE HAT SD TO THE BASE OF THE MANNVILLE GRP	(DRRZD 12) (DRRZD 4)
A0022	256	4-13-034: 36 PETROLEUM AND NATURAL GAS	
A0023	1280		(PRP004101)
TRACT ONE		4-21-034: 30 4-21-035: 6 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
TRACT TWO		4-21-034: 32 4-21-035: 4 4-22-034: 36 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)

PETROLEUM AND NATURAL GAS LEASES

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LEASE	HECTARES	LAND DESCRIPTION	
A0024	256	5-04-034: 34 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM TO THE BASE OF THE TURNER VALLEY FM	(DRRZD 6) (DRRZD 28)
A0025	256	5-04-034: 34 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE TURNER VALLEY FM	(DRRZD 28)
A0026	256	4-12-035: 1 PETROLEUM AND NATURAL GAS	
A0027	256	4-12-035: 2 PETROLEUM AND NATURAL GAS	
A0028	256	4-12-035: 4 PETROLEUM AND NATURAL GAS	
A0029	256	4-12-035: 5 PETROLEUM AND NATURAL GAS	
A0030	256	4-13-035: 2 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0031	16	4-03-037: 3L1 PETROLEUM AND NATURAL GAS EXCEPTING NATURAL GAS IN THE VIKING FM	(ZD 1035-1)
A0032	64	4-03-037: 3L5-L8 PETROLEUM AND NATURAL GAS EXCEPTING NATURAL GAS IN THE VIKING FM	(ZD 1035-1)
A0033	256	TRACT ONE 4-03-037: 22N,SE PETROLEUM AND NATURAL GAS EXCEPTING NATURAL GAS IN THE VIKING FM	(ZD 20-1)
		TRACT TWO 4-03-037: 22SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0034	192	5-04-040: 19S,NE PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0035	256	5-04-040: 19 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)
A0036	64	4-02-042: 12SE PETROLEUM AND NATURAL GAS	
A0037	256	4-24-042: 29 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)

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LEASE	HECTARES	LAND DESCRIPTION	
A0038	256	4-25-043: 12 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0039	256	4-25-044: 18 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0040	256	4-25-044: 20 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
A0041	256	4-20-046: 36 PETROLEUM AND NATURAL GAS	
A0042	256	4-22-047: 6 PETROLEUM AND NATURAL GAS	
A0043	256	4-26-047: 30 PETROLEUM AND NATURAL GAS	
A0044	256	4-26-048: 28 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP	(DRRZD 280)
A0045	256	4-26-049: 2 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
A0046	256	4-26-050: 12 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0047	176	TRACT ONE 4-22-058: 9SW, L2, L7 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM TO THE TOP OF THE ELK POINT GRP	(DRRZD 6) (DRRZD 284)
		TRACT TWO 4-22-058: 9L1, L8, L11-L13 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM TO THE TOP OF THE ELK POINT GRP EXCEPTING PETROLEUM AND NATURAL GAS IN THE LEDUC FM	(DRRZD 6) (DRRZD 284) (DRRZD 65)
A0048	64	4-24-058: 29SE PETROLEUM AND NATURAL GAS	
A0049	384	4-22-063: 14NW; 15NW; 21NE; 22SE; 23SW, NE PETROLEUM AND NATURAL GAS TO THE BASE OF THE VIKING FM	(SHA006701) (DRRZD 6)
A0050	768	4-08-065: 23; 24; 26 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(ADM001801) (IRS000304) (SHA006701) (DRRZD 4)

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LEASE	HECTARES	LAND DESCRIPTION	
--- NORTHERN REGION ---			
A0051	128	5-05-039: 7S PETROLEUM AND NATURAL GAS TO THE BASE OF THE CARDIUM FM	(DRRZD 3)
A0052	128	5-05-039: 7S PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE MANNVILLE GRP	(DRRZD 3) (DRRZD 4)
A0053	128	5-08-039: 33W PETROLEUM AND NATURAL GAS TO THE BASE OF THE CARDIUM FM	(DRRZD 3)
A0054	256	5-11-043: 18 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SECOND WHITE SPECKS TO THE BASE OF THE MANNVILLE GRP	(DRRZD 13) (DRRZD 4)
A0055	256	5-15-044: 11 PETROLEUM AND NATURAL GAS TO THE BASE OF THE BLUESKY-BULLHEAD	(SHA007901) (DRRZD 21)
A0056	256	5-14-048: 13 PETROLEUM AND NATURAL GAS TO THE BASE OF THE BELLY RIVER GRP	(SHA007901) (DRRZD 39)
A0057	256	5-14-048: 15 PETROLEUM AND NATURAL GAS TO THE BASE OF THE BELLY RIVER GRP	(SHA007901) (DRRZD 39)
A0058	64	5-05-049: 32NE PETROLEUM AND NATURAL GAS TO THE BASE OF THE BANFF FM	(NAT004301) (DRRZD 57)
A0059	256	5-09-053: 4 PETROLEUM AND NATURAL GAS	
A0060	256	TRACT ONE 5-19-055: 10E PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE SPIRIT RIVER FM	(DRRZD 3) (DRRZD 22)
		TRACT TWO 5-19-055: 10W PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE DUNVEGAN FM TO THE BASE OF THE SPIRIT RIVER FM	(DRRZD 38) (DRRZD 22)
A0061	256	5-20-058: 28 PETROLEUM AND NATURAL GAS TO THE BASE OF THE VIKING FM PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE WABAMUN GRP EXCEPTING NATURAL GAS IN THE WOODBEND GRP	(SHA006701) (SHA008201) (DRRZD 6) (DRRZD 277) (ZD 298)

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LEASE	HECTARES	LAND DESCRIPTION	
A0062	64	5-23-059: 8SE PETROLEUM AND NATURAL GAS TO THE BASE OF THE BLUESKY-BULLHEAD PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE TRIASSIC SYSTEM EXCEPTING PETROLEUM AND NATURAL GAS IN THE SPIRIT RIVER FM	(SHA008201)  (DRRZD 21) (DRRZD 37) (DRRZD 22)
A0063	128	5-11-060: 30N PETROLEUM AND NATURAL GAS TO THE BASE OF THE PEKISKO FM	(SHA008001)  (DRRZD 30)
A0064	256	5-17-060: 9 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE DUNVEGAN FM TO THE BASE OF THE BULLHEAD GRP EXCEPTING NATURAL GAS IN THE BULLHEAD GRP	(SHA006701) (SHA008201)  (DRRZD 38) (ZD 3116) (ZD 3116)
A0065	256	5-25-063: 4 PETROLEUM AND NATURAL GAS	(SHA008201)
A0066	256	5-25-064: 19 PETROLEUM AND NATURAL GAS	(ES2000103) (SHA006701) (SHA008201)
A0067	256	5-25-064: 30 PETROLEUM AND NATURAL GAS	(ES2000103) (SHA006701) (SHA008201)
A0068	256	5-17-065: 1 PETROLEUM AND NATURAL GAS	(SHA008001)
A0069	64	5-06-066: 8SE PETROLEUM AND NATURAL GAS TO THE BASE OF THE SPIRIT RIVER FM	(SHA008001)  (DRRZD 22)
A0070	256	6-04-066: 36 PETROLEUM AND NATURAL GAS TO THE TOP OF THE SPIRIT RIVER FM PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD TO THE BASE OF THE HALFWAY FM PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BEAVERHILL LAKE GRP	(ES2000103) (SHA006701)  (DRRZD 22)  (DRRZD 21) (DRRZD 246) (DRRZD 5)
A0071	64	6-09-072: 13SW PETROLEUM AND NATURAL GAS TO THE TOP OF THE MONTNEY FM	(DRRZD 264)
A0072	236.8	5-01-073: 16SP,N PORTION(S) LYING OUTSIDE SLAVE LAKE CARIBOU SUB UNIT. PETROLEUM AND NATURAL GAS	(FRP000801)



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LEASE	HECTARES	LAND DESCRIPTION	
A0073	192	6-10-073: 11S,NE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE FERNIE GRP TO THE BASE OF THE DOIG FM	(TSH003501)  (DRRZD 276) (DRRZD 251)
A0074	64	6-08-075: 6NE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD TO THE TOP OF THE DOIG FM	(DRRZD 21) (DRRZD 251)
A0075	64	6-10-075: 16NW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE DOE CREEK MBR TO THE TOP OF THE HALFWAY FM	(DRRZD 25) (DRRZD 246)
A0076	64	6-10-075: 17NE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE DUNVEGAN FM TO THE BASE OF THE CHARLIE LAKE FM	(DRRZD 38) (DRRZD 247)
A0077	163.6		(ADM011601)
		TRACT ONE 4-08-076: 10SP,NEP PORTION(S) LYING OUTSIDE COLD LAKE CARIBOU SUB UNIT. PETROLEUM AND NATURAL GAS	
		TRACT TWO 4-08-076: 10NW PETROLEUM AND NATURAL GAS EXCEPTING PETROLEUM AND NATURAL GAS IN THE MANNVILLE GRP	(DRRZD 4)
A0078	871.7	5-08-078: 4; 7S,NP; 8S,NP; 9S,NP PORTION(S) LYING OUTSIDE NIPISI CARIBOU SUB UNIT. PETROLEUM AND NATURAL GAS	
A0079	64	6-07-079: 5SW PETROLEUM AND NATURAL GAS TO THE BASE OF THE DOE CREEK MBR	(DRRZD 25)
A0080	256	6-11-079: 13 PETROLEUM AND NATURAL GAS TO THE BASE OF THE HALFWAY FM	(DRRZD 246)
A0081	256	6-10-080: 6 PETROLEUM AND NATURAL GAS	
A0082	256	6-12-080: 12 PETROLEUM AND NATURAL GAS TO THE BASE OF THE HALFWAY FM	(DRRZD 246)
A0083	25.7	5-07-081: 18WP PORTION(S) LYING OUTSIDE NIPISI CARIBOU SUB UNIT. PETROLEUM AND NATURAL GAS	
A0084	8.1	5-07-081: 29NWP PORTION(S) LYING OUTSIDE NIPISI CARIBOU SUB UNIT. PETROLEUM AND NATURAL GAS	

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LEASE	HECTARES	LAND DESCRIPTION	
A0085	256	6-09-081: 21 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEACE RIVER FM	(DRRZD 40)
A0086	256	5-25-082: 33 PETROLEUM AND NATURAL GAS	(ADM001901)
A0087	256	6-09-082: 9 PETROLEUM AND NATURAL GAS	
A0088	256	6-10-082: 11 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD	(DRRZD 21)
A0089	256	6-09-084: 19 PETROLEUM AND NATURAL GAS TO THE BASE OF THE FERNIE GRP	(DRRZD 276)
A0090	128	6-06-085: 16N PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SPIRIT RIVER FM TO THE BASE OF THE MONTNEY FM	(DRRZD 22) (DRRZD 264)
A0091	64	6-09-087: 34SE PETROLEUM AND NATURAL GAS TO THE BASE OF THE BELLOY FM	(SHA007001) (DRRZD 32)
A0092	256	6-09-088: 2 PETROLEUM AND NATURAL GAS TO THE BASE OF THE BELLOY FM	(SHA007001) (SHA008401) (DRRZD 32)
A0093	34.1	6-12-090: 16WP PORTION(S) LYING OUTSIDE CHINCHAGA CARIBOU SUB UNIT. PETROLEUM AND NATURAL GAS	(SHA008401)
A0094	64	6-06-114: 26SE PETROLEUM AND NATURAL GAS	
A0095	51.52	6-04-116: 32SWP PORTION(S) LYING OUTSIDE BISCHTO CARIBOU SUB UNIT. PETROLEUM AND NATURAL GAS	
--- Foothills Region ---			
A0096	256	5-08-034: 9 PETROLEUM AND NATURAL GAS	(SHA006701) (SHA008301)
A0097	128	5-08-037: 23W PETROLEUM AND NATURAL GAS TO THE BASE OF THE CARDIUM FM	(IR2000201) (SHA006701) (SHA008301) (DRRZD 3)

PETROLEUM AND NATURAL GAS LEASES

LEASE SCHEDULE

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LEASE	HECTARES	LAND DESCRIPTION	
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A0098	256		(IR2000201) (SHA006701) (SHA008301)
		5-09-037: 25 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
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A0099	247.1		(SHA008201) (SIP000601)
		6-06-057: 25N, SEP, SW PORTION(S) LYING OUTSIDE A LA PECHE CARIBOU SUB UNIT. PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEACE RIVER FM	(DRRZD 40)
		EXCEPTING NATURAL GAS IN THE CADOMIN FM	(ZD 3018-2)
		EXCEPTING NATURAL GAS IN THE JURASSIC-TRIASSIC	(ZD 3000)
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99	23,686.62	HA TOTALS	<b>END</b>



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LICENCE	HECTARES	LAND DESCRIPTION	
--- PLAINS REGION ---			
B0100	3072		
	TRACT ONE	4-11-001: 7 4-12-001: 9; 11; 12; 15; 16; 18 PETROLEUM AND NATURAL GAS	
	TRACT TWO	4-12-001: 17 PETROLEUM AND NATURAL GAS EXCEPTING PETROLEUM AND NATURAL GAS IN THE BOW ISLAND SD	(DRRZD 8)
	TRACT THREE	4-12-001: 10 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SECOND WHITE SPECKS	(DRRZD 13)
	TRACT FOUR	4-11-001: 6 4-12-001: 1; 7 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
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B0101	1536		
	TRACT ONE	4-12-001: 2; 5; 6 4-13-001: 1 PETROLEUM AND NATURAL GAS	
	TRACT TWO	4-12-001: 3; 4 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SECOND WHITE SPECKS	(DRRZD 13)
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B0102	2816		(SHA006701)
		4-25-006: 6; 7; 18; 20 4-26-005: 32 4-26-006: 2; 6; 10-12; 24 PETROLEUM AND NATURAL GAS	
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B0103	3072		(ESA000101) (GZR000501)
		4-14-010: 19-21; 28-33 4-15-010: 24; 25; 36 PETROLEUM AND NATURAL GAS	
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B0104	1536		(ESA000101) (TPG001801)
	TRACT ONE	4-14-010: 22; 27; 34 4-14-011: 3; 10S,NW,L9,L10 PETROLEUM AND NATURAL GAS	
	TRACT TWO	4-14-011: 10L15,L16 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SAWTOOTH FM	(DRRZD 20)
	TRACT THREE	4-14-011: 2 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
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B0105	2048		(NAT015501) (PPP001001) (PRP004101)
	TRACT ONE	4-21-032: 31 4-21-033: 5-7 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
	TRACT TWO	4-22-033: 12-14; 24 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
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LICENCE	HECTARES	LAND DESCRIPTION	
B0106	2048		
	TRACT ONE	4-21-033: 28; 29 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
	TRACT TWO	4-20-033: 31 4-21-033: 27; 33-36 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
--- NORTHERN REGION ---			
B0107	1280		(IR2000601) (SHA007901)
		5-15-043: 31 5-15-044: 3-5; 10 PETROLEUM AND NATURAL GAS TO THE BASE OF THE CARDIUM FM	(DRRZD 3)
B0108	768		(IR2000601) (SHA007901)
	TRACT ONE	5-15-044: 4; 5 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM	(DRRZD 3)
	TRACT TWO	5-15-043: 31 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE RUNDLE GRP	(DRRZD 3) (DRRZD 27)
B0109	256		
		5-11-046: 25 PETROLEUM AND NATURAL GAS TO THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
B0110	256		
		5-11-046: 25 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
B0111	256		
		5-11-046: 36 PETROLEUM AND NATURAL GAS TO THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
B0112	256		
		5-11-046: 36 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
B0113	512		
	TRACT ONE	5-09-050: 26 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
	TRACT TWO	5-09-050: 25S,NW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE EDMONTON GRP TO THE BASE OF THE MANNVILLE GRP	(DRRZD 280) (DRRZD 4)
	TRACT THREE	5-09-050: 25NE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE MANNVILLE GRP	(DRRZD 3) (DRRZD 4)

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LICENCE	HECTARES	LAND DESCRIPTION	
B0114	256	5-16-050: 13 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE SPIRIT RIVER FM	(DRRZD 3) (DRRZD 22)
B0115	256	5-08-051: 7 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP EXCEPTING NATURAL GAS IN THE PASKAPOO FM EXCEPTING NATURAL GAS IN THE GLAUCONITIC SS	(DRRZD 4) (ZD 165) (ZD 165)
B0116	256	5-09-051: 2 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
B0117	768	5-21-053: 2; 15; 21 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD	(DRRZD 21)
B0118	512	5-20-059: 28; 33 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE DUVERNAY-MAJEAU LAKE FM	(SHA008201) (DRRZD 287)
B0119	468.8	6-01-062: 17SP,N; 20 PORTION(S) LYING OUTSIDE LITTLE SMOKY CARIBOU SUB UNIT. PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE FERNIE GRP	(SHA006701) (SHA008201) (SIP000601) (DRRZD 51) (DRRZD 276)
B0120	512	6-03-062: 21; 22 PETROLEUM AND NATURAL GAS TO THE BASE OF THE FERNIE GRP	(ES2000103) (SHA006701) (SHA008201) (DRRZD 276)
B0121	512	5-23-063: 19 5-24-063: 24 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEACE RIVER FM TO THE TOP OF THE DUVERNAY-MAJEAU LAKE FM	(DRRZD 40) (DRRZD 287)
B0122	256	5-24-063: 14 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE DUNVEGAN FM TO THE TOP OF THE DUVERNAY-MAJEAU LAKE FM	(DRRZD 38) (DRRZD 287)
B0123	256	6-06-071: 2 PETROLEUM AND NATURAL GAS	
B0124	256	6-06-071: 7 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CHARLIE LAKE FM	(TSH003401) (TSH003501) (DRRZD 247)

2017 JANUARY 11

LICENCE	HECTARES	LAND DESCRIPTION	
B0125	832		(TSH003401) (TSH003501)
	TRACT ONE	6-06-071: 29; 32 PETROLEUM AND NATURAL GAS	
	TRACT TWO	6-06-071: 30 6-07-071: 36SE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CHARLIE LAKE FM	(DRRZD 247)
B0126	1024	6-03-074: 7; 8; 18 6-04-074: 13 PETROLEUM AND NATURAL GAS	
B0127	1280		
	TRACT ONE	6-05-074: 1; 12; 14 PETROLEUM AND NATURAL GAS	
	TRACT TWO	6-05-074: 2; 11 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CHARLIE LAKE FM	(DRRZD 247)
B0128	512	6-10-075: 33 6-10-076: 4 PETROLEUM AND NATURAL GAS TO THE BASE OF THE DOE CREEK MBR	(SHA006701) (DRRZD 25)
B0129	768		(TSH003401) (TSH003501)
	TRACT ONE	6-11-080: 23; 26 PETROLEUM AND NATURAL GAS	
	TRACT TWO	6-11-080: 25 PETROLEUM AND NATURAL GAS TO THE BASE OF THE DEBOLT FM	(DRRZD 42)
B0130	1280	5-24-082: 8-10; 16; 17 PETROLEUM AND NATURAL GAS	(ADM001901)
B0131	256	6-12-083: 18 PETROLEUM AND NATURAL GAS TO THE BASE OF THE DOIG FM	(SHA006701) (DRRZD 251)
B0132	3635		(ADM011601)
	TRACT ONE	4-11-084: 16WP; 21SWP; 29WP; 32WP PORTION(S) LYING OUTSIDE EGG-PONY CARIBOU SUB UNIT. PETROLEUM AND NATURAL GAS	
	TRACT TWO	4-11-084: 6; 7; 17-19; 20NP,SEP,SW; 30; 31S,NP PORTION(S) LYING OUTSIDE EGG-PONY CARIBOU SUB UNIT. 4-12-084: 1; 2; 11-14 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE WOODBEND GRP	(DRRZD 258)
B0133	256	6-09-085: 4 PETROLEUM AND NATURAL GAS TO THE BASE OF THE DEBOLT FM	(DRRZD 42)



2017 JANUARY 11

LICENCE	HECTARES	LAND DESCRIPTION	
B0134	512		
	TRACT ONE	6-09-085: 9 PETROLEUM AND NATURAL GAS TO THE BASE OF THE DEBOLT FM	(DRRZD 42)
	TRACT TWO	6-09-085: 16 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SPIRIT RIVER FM TO THE BASE OF THE DEBOLT FM	(DRRZD 22) (DRRZD 42)
B0135	512		
	TRACT ONE	6-13-085: 25 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD EXCEPTING NATURAL GAS IN THE KISKATINAW-GOLATA	(DRRZD 21) (ZD 300-1-A)
	TRACT TWO	6-13-085: 26 PETROLEUM AND NATURAL GAS TO THE BASE OF THE DOIG FM	(DRRZD 251)
B0136	4700.7		(ADM011601) (CHR000101) (IRS001501) (SHA006701) (WPP004701)
		4-06-088: 1-5; 6SP,NWP,NE; 7N,SE,SWP; 8-12; 14-18 PORTION(S) LYING OUTSIDE ALGAR CARIBOU SUB UNIT. 4-07-088: 11NP,SEP; 12SP,N; 15NP,SEP; 17NP,SWP PORTION(S) LYING OUTSIDE ALGAR CARIBOU SUB UNIT. PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE WOODBEND GRP	(DRRZD 258)
--- Foothills Region ---			
B0137	8896		(SHA006701)
		4-27-006: 4; 6; 10-12; 14; 16; 18 4-28-005: 16; 18; 20; 22; 28-30; 32; 34; 36 4-28-006: 2; 4; 6; 10-12; 14; 16; 18 4-29-005: 36 4-29-006: 2; 10-12; 14; 16S,NE; 22 PETROLEUM AND NATURAL GAS	
B0138	256		(IR2001401) (SHA006701) (SHA008301)
		5-08-031: 26 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
B0139	768		(IR2001401) (SHA006701) (SHA008301)
	TRACT ONE	5-08-032: 14; 22 PETROLEUM AND NATURAL GAS	
	TRACT TWO	5-08-032: 10 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
B0140	256		(IR2000501) (SHA006701) (SHA007901)
		5-14-041: 12 PETROLEUM AND NATURAL GAS TO THE BASE OF THE TRIASSIC SYSTEM PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE RUNDLE GRP	(DRRZD 56) (DRRZD 27)

2017 JANUARY 11

LICENCE	HECTARES	LAND DESCRIPTION	
B0141	512		(IR2000201) (SHA006701) (SHA007901)
		5-15-043: 14; 23 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM TO THE BASE OF THE BLUESKY-BULLHEAD	(DRRZD 6) (DRRZD 21)
B0142	256		(IR2000201) (SHA006701) (SHA007901)
		5-15-043: 25 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM TO THE BASE OF THE BLUESKY-BULLHEAD	(DRRZD 6) (DRRZD 21)
43	50,532.50	HA TOTALS	<b>END</b>

ZONE DESIGNATIONS APPLICABLE TO THE 2017 JANUARY 11 PUBLIC OFFERING NOTICE

ZD: 7-1                    ZONE: 1600 COLORADO GRP  
  
INTERVAL: 1495.00 - 2948.00 FEET  
KEY WELL: 00/06-22-024-13W4/0  
LOG TYPE: ELECTRICAL

                          ZONE: 2440 BLAIRMORE GRP  
  
INTERVAL: 2948.00 - 3310.00 FEET  
KEY WELL: 00/06-22-024-13W4/2  
LOG TYPE: ELECTRICAL

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ZD: 20-1                   ZONE: 2140 VIKING FM  
  
INTERVAL: 2381.00 - 2420.00 FEET  
KEY WELL: 00/01-33-037-03W4/0  
LOG TYPE: HALLIBURTON WELL

                          ZONE: 2440 BLAIRMORE GRP  
  
INTERVAL: 2530.00 - 2945.00 FEET  
KEY WELL: 00/01-33-037-03W4/0  
LOG TYPE: HALLIBURTON WELL

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ZD: 165                    ZONE: 0640 PASKAPOO FM  
  
INTERVAL: 600.00 - 873.00 FEET  
KEY WELL: 00/10-18-051-08W5/0  
LOG TYPE: ELECTRICAL

                          ZONE: 3000 GLAUCONITIC SS  
  
INTERVAL: 6098.00 - 6130.00 FEET  
KEY WELL: 00/10-18-051-08W5/0  
LOG TYPE: ELECTRICAL

                          ZONE: 4440 NORDEGG MBR  
  
INTERVAL: 6264.00 - 6364.00 FEET  
KEY WELL: 00/10-18-051-08W5/0  
LOG TYPE: MICROLOG

                          ZONE: 6420 PEKISKO FM  
  
INTERVAL: 6364.00 - 6411.00 FEET  
KEY WELL: 00/10-18-051-08W5/0  
LOG TYPE: GAMMA RAY

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ZD: 298                    ZONE: 7040 WOODBEND GRP  
  
INTERVAL: 10484.00 - 10840.00 FEET  
KEY WELL: 00/11-15-058-20W5/0  
LOG TYPE: INDUCTION ELECTRIC

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ZD: 300-1-A                ZONE: 6061 KISKATINAW-GOLATA  
  
INTERVAL: 5708.00 - 6174.00 FEET  
KEY WELL: 00/06-25-085-13W6/0  
LOG TYPE: INDUCTION ELECTRIC

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ZD: 1035-1                ZONE: 2140 VIKING FM  
  
INTERVAL: 2205.00 - 2293.00 FEET  
KEY WELL: 00/11-18-037-02W4/0  
LOG TYPE: ELECTRICAL

                          ZONE: 2460 UPPER BLAIRMORE  
  
INTERVAL: 2379.00 - 2554.00 FEET  
KEY WELL: 00/11-18-037-02W4/0  
LOG TYPE: ELECTRICAL

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ZONE DESIGNATIONS APPLICABLE TO THE 2017 JANUARY 11 PUBLIC OFFERING NOTICE

ZD: 3000                      ZONE: 4010   JURASSIC-TRIASSIC  
INTERVAL: 6518.00 - 8836.00 FEET  
KEY WELL: 00/11-26-057-06W6/0  
LOG TYPE: BOREHOLE COMPENSATED SONIC

                            ZONE: 6100   RUNDLE GRP  
INTERVAL: 8836.00 - 9530.00 FEET  
KEY WELL: 00/11-26-057-06W6/0  
LOG TYPE: BOREHOLE COMPENSATED SONIC

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ZD: 3018-2                    ZONE: 3480   CADOMIN FM  
INTERVAL: 6284.00 - 6356.00 FEET  
KEY WELL: 00/11-26-057-06W6/0  
LOG TYPE: BOREHOLE COMPENSATED SONIC

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ZD: 3116                      ZONE: 3240   BULLHEAD GRP  
INTERVAL: 6140.00 - 6283.00 FEET  
KEY WELL: 00/07-16-060-17W5/0  
LOG TYPE: BOREHOLE COMPENSATED SONIC

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END

DEEPER RIGHTS REVERSION ZONE DESIGNATIONS

APPLICABLE TO THE 2017 JANUARY 11 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

---

DRRZD: 8                    ZONE: 2130    BOW ISLAND SD  
  
INTERVAL: 2140.00 - 2472.00 FEET  
KEY WELL: 00/11-31-011-10W4/0  
LOG TYPE: INDUCTION 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: 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

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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

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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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DEEPER RIGHTS REVERSION ZONE DESIGNATIONS

APPLICABLE TO THE 2017 JANUARY 11 PUBLIC OFFERING NOTICE

DRRZD: 27                    ZONE: 6100 RUNDLE GRP  
  
INTERVAL: 9040.00 - 9990.00 FEET  
KEY WELL: 00/05-25-029-09W5/0  
LOG TYPE: GAMMA RAY NEUTRON

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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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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: 32                    ZONE: 5560 BELLOY FM  
  
INTERVAL: 2883.00 - 3105.00 FEET  
KEY WELL: 00/10-24-078-19W5/0  
LOG TYPE: DUAL INDUCTION-LATEROLOG

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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: 38                    ZONE: 1920 DUNVEGAN FM  
  
INTERVAL: 2566.00 - 3038.00 FEET  
KEY WELL: 00/11-04-074-05W6/0  
LOG TYPE: DUAL INDUCTION-LATEROLOG

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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

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DRRZD: 42                    ZONE: 6120 DEBOLT FM  
  
INTERVAL: 4444.00 - 5294.00 FEET  
KEY WELL: 00/10-11-080-03W6/0  
LOG TYPE: DUAL INDUCTION-LATEROLOG

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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

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DRRZD: 56                    ZONE: 5000 TRIASSIC SYSTEM  
  
INTERVAL: 12582.00 - 12746.00 FEET  
KEY WELL: 00/06-05-049-21W5/0  
LOG TYPE: BOREHOLE COMPENSATED SONIC

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DEEPER RIGHTS REVERSION ZONE DESIGNATIONS

APPLICABLE TO THE 2017 JANUARY 11 PUBLIC OFFERING NOTICE

DRRZD: 57                    ZONE: 6440 BANFF FM  
  
INTERVAL: 4247.00 - 4776.00 FEET  
KEY WELL: 00/02-24-056-05W5/0  
LOG TYPE: BOREHOLE COMPENSATED SONIC

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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: 236                  ZONE: 6280 LIVINGSTONE FM  
  
INTERVAL: 971.00 - 1108.00 METRES  
KEY WELL: 00/08-20-014-15W4/0  
LOG TYPE: DUAL INDUCTION SFL

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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: 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: 251                  ZONE: 5200 DOIG FM  
  
INTERVAL: 1770.00 - 1853.00 METRES  
KEY WELL: 00/03-22-078-10W6/0  
LOG TYPE: DUAL INDUCTION SPHERICALLY FOCUSED

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DRRZD: 258                  ZONE: 7040 WOODBEND GRP  
  
INTERVAL: 1284.00 - 2251.00 FEET  
KEY WELL: 00/10-29-077-18W4/0  
LOG TYPE: 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: 276                  ZONE: 4140 FERNIE GRP  
  
INTERVAL: 2048.00 - 2151.00 METRES  
KEY WELL: 00/13-01-074-11W6/0  
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

---

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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DEEPER RIGHTS REVERSION ZONE DESIGNATIONS

APPLICABLE TO THE 2017 JANUARY 11 PUBLIC OFFERING NOTICE

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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DRRZD: 287

ZONE: 7285 DUVERNAY-MAJEAU LAKE FM

INTERVAL: 3274.00 - 3334.00 METRES

KEY WELL: 00/03-32-063-22W5/0

LOG TYPE: COMPENSATED NEUTRON LITHOLOGY DENSITY

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END



## ADDENDA AND CONTACTS APPLICABLE TO THE 2017 JANUARY 11 PUBLIC OFFERING NOTICE

**ADM001801 COLD LAKE OIL SANDS DESIGNATED AREA**

LEASE A0050

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

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**ADM001901 PEACE RIVER OIL SANDS DESIGNATED AREA #1**LEASE A0086  
LICENCE B0130

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

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## ADDENDA AND CONTACTS APPLICABLE TO THE 2017 JANUARY 11 PUBLIC OFFERING NOTICE

**ESA000101 PURPLE SPRINGS SANDHILLS**

	LAND DESCRIPTION
LEASE A0007	4-14-011: 4; 5NE
LEASE A0009	
LICENCE B0103	4-14-010: 28NW; 29N; 32S,NE; 33W
LICENCE	4-14-010: 34E
	4-14-011: 2; 3NW

ALL LAND(S) IS/ARE WITHIN AN ENVIRONMENTALLY SIGNIFICANT AREA.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

LOWELL CALDER  
PUBLIC LANDS OFFICER  
LETHBRIDGE NORTH OFFICE-RANGELAND DISTRICT-LANDS DIVISION DEPT. OF  
SUSTAINABLE RESOURCE DEV  
5401 1 AVE S FLOOR 1  
LETHBRIDGE AB T1J 4V6 (403) 382-4290

**ESA000701 MULTIPLE RESOURCE CONCERNS**

	LAND DESCRIPTION
LEASE A0001	4-12-002: 3N

ALL LAND(S) IS/ARE WITHIN AN ENVIRONMENTALLY SIGNIFICANT AREA.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

LOWELL CALDER  
PUBLIC LANDS OFFICER  
LETHBRIDGE NORTH OFFICE-RANGELAND DISTRICT-LANDS DIVISION DEPT. OF  
SUSTAINABLE RESOURCE DEV  
5401 1 AVE S FLOOR 1  
LETHBRIDGE AB T1J 4V6 (403) 382-4290

**FRP000801 FOREST RESEARCH PLOT**

Á	LAND DESCRIPTION
LEASE A0072	5-01-073: 16L9, L10EÁ

ALL LAND(S) IS/ARE WITHIN A FOREST RESEARCH PLOT.

SURFACE ACCESS IS NOT PERMITTED

FOR FURTHER INFORMATION, PLEASE CONTACT:

THERESE YACYSHYN  
OPERATIONS SECTION HEAD  
HIGH PRAIRIE OFFICE - LAND USE AREA -LANDS DIVISION DEPT. OF  
SUSTAINABLE RESOURCE DEV  
PO BOX 149  
HIGH PRAIRIE AB T0G 1E0 (780) 523-6524

**GZR000501 PURPLE SPRINGS**

	LAND DESCRIPTION
LICENCE B0103	4-14-010: 19; 20; 21NW; 29S
	4-15-010: 24SE

ALL LAND(S) IS/ARE WITHIN A GRAZING RESERVE.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

JAKE WILLMS  
PGR RANGELAND AGROLOGIST  
LETHBRIDGE OFFICE - PUBLIC LANDS DEPT. OF SUSTAINABLE RESOURCE DEV  
5401 1 AVE S SUITE 100  
LETHBRIDGE AB T1J 4V6 (403) 382-4287

ADDENDA AND CONTACTS APPLICABLE TO THE 2017 JANUARY 11 PUBLIC OFFERING NOTICE

HRV000401      **ARCHAEOLOGICAL SITE**

LEASE      A0019

ALL LAND(S) IS/ARE WITHIN AN HISTORICAL RESOURCES MANAGEMENT AREA. PURSUANT TO SEC. 37(2) OF THE HISTORICAL RESOURCES ACT, AN HISTORICAL RESOURCES IMPACT ASSESSMENT MAY BE REQUIRED PRIOR TO CONDUCTING ANY SURFACE DISTURBANCE.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

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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CONTINUED ON NEXT PAGE...



ADDENDA AND CONTACTS APPLICABLE TO THE 2017 JANUARY 11 PUBLIC OFFERING NOTICE

**IR2000601**            **BRAZEAU-PEMBINA**  
                          LAND DESCRIPTION  
LICENCE B0107    5-15-043:    31P  
                          5-15-044:    5P  
LICENCE B0108    5-15-043:    31P  
                          5-15-044:    5P

ALL LAND(S) IS/ARE WITHIN ZONE 2 (CRITICAL WILDLIFE) OF THE BRAZEAU-PEMBINA INTEGRATED RESOURCE PLAN.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

ANNE HUBBS  
SENIOR WILDLIFE BIOLOGIST  
ROCKY MOUNTAIN HOUSE OFFICE - FISH AND WILDLIFE DEPT. OF SUSTAINABLE  
RESOURCE DEV  
PO BOX 1720  
ROCKY MOUNTAIN HOUSE AB    T4T 1B3                            (403) 845-8235

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**IR2001401**            **NORDEGG-RED DEER RIVER**  
                          LAND DESCRIPTION  
LICENCE B0138    5-08-031:    26EP  
LICENCE B0139    5-08-032:    10NEP; 14SWP

ALL LAND(S) IS/ARE WITHIN ZONE 2 (CRITICAL WILDLIFE) OF THE NORDEGG-RED DEER RIVER INTEGRATED RESOURCE PLAN.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

ANNE HUBBS  
SENIOR WILDLIFE BIOLOGIST  
ROCKY MOUNTAIN HOUSE OFFICE - FISH AND WILDLIFE DEPT. OF SUSTAINABLE  
RESOURCE DEV  
PO BOX 1720  
ROCKY MOUNTAIN HOUSE AB    T4T 1B3                            (403) 845-8235

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**IRS000304**            **LAKELAND**  
LEASE    A0050

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

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

DAVE LIND  
LAND MANAGEMENT SPECIALIST  
LAC LA BICHE REGIONAL OFFICE - LAND AND FOREST SERVICE DEPT. OF  
SUSTAINABLE RESOURCE DEV  
PO BOX 450  
LAC LA BICHE AB    T0A 2C0                            (780) 623-5240

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**IRS001501**            **FORT MCMURRAY - ATHABASCA OILS SANDS**  
                          LAND DESCRIPTION  
LICENCE B0136    4-07-088:    12P; 15P

ALL LAND(S) IS/ARE WITHIN THE FORT MCMURRAY-ATHABASCA OIL SANDS INTEGRATED RESOURCE PLAN.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

ERIN MACDONNELL  
FOREST OFFICER  
FORT MCMURRAY OFFICE-LAND USE AREA- LANDS DIVISION DEPT. OF SUSTAINABLE  
RESOURCE DEV  
PROVINCIAL BUILDING  
9915 FRANKLIN AVE FLOOR 3  
PO BOX 35  
FORT MCMURRAY AB    T9H 2K4                            (780) 743-7154

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ADDENDA AND CONTACTS APPLICABLE TO THE 2017 JANUARY 11 PUBLIC OFFERING NOTICE

**SHA006701 KEY WILDLIFE AND BIODIVERSITY ZONES**

		LAND DESCRIPTION
LEASE	A0049	4-22-063: 21NEP
LEASE	A0050	
LEASE	A0061	
LEASE	A0064	5-17-060: 9NP,SWP
LEASE	A0066	
LEASE	A0067	
LEASE	A0070	6-04-066: 36WP
LEASE	A0096	5-08-034: 9S,NW,NEP
LEASE	A0097	5-08-037: 23WP
LEASE	A0098	5-09-037: 25SP
LICENCE	B0102	4-25-006: 18SP,NW,NEP; 20SP,N
		4-26-005: 32NP
		4-26-006: 2SP,NW,NEP; 6SP,NEP; 10SP; 11E,WP; 12NP,SWP; 24SP,NEP
LICENCE	B0119	6-01-062: 20NP,SWP
LICENCE	B0120	6-03-062: 21P; 22WP
LICENCE	B0128	6-10-075: 33NP
		6-10-076: 4S,NP
LICENCE	B0131	6-12-083: 18SP
LICENCE	B0136	4-06-088: 4SP,NWP; 5S,NW,NEP; 6SP,NWP,NE; 7N,SE,SWP; 8EP,W; 17SP; 18NP,SEP,SW
		4-07-088: 11NP,SEP; 12SP,N; 15NP,SEP
LICENCE	B0137	4-28-005: 16P; 18P; 22NP,SWP; 28SEP; 36SP
		4-29-006: 2WP; 10NP,SEP,SW; 11SWP; 16EP,SW
LICENCE	B0138	5-08-031: 26NP,SEP
LICENCE	B0139	5-08-032: 10NEP; 14WP; 22SWP
LICENCE	B0140	5-14-041: 12SP
LICENCE	B0141	5-15-043: 14NP,SEP; 23SP,NEP
LICENCE	B0142	5-15-043: 25SP

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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**SHA006801 COLONIAL NESTING BIRDS**

		LAND DESCRIPTION
LEASE	A0003	4-15-010: 22SWP

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**

LEASE	A0091	
LEASE	A0092	

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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ADDENDA AND CONTACTS APPLICABLE TO THE 2017 JANUARY 11 PUBLIC OFFERING NOTICE

**SHA008301 CLEARWATER GRIZZLY BEAR ZONE**

LAND DESCRIPTION

LEASE A0096  
LEASE A0097 5-08-037: 23WP  
LEASE A0098  
LICENCE B0138  
LICENCE B0139

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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**SHA008401 CHINCHAGA GRIZZLY BEAR ZONE**

LAND DESCRIPTION

LEASE A0092 6-09-088: 2P  
LEASE A0093

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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**SIP000601 BERLAND SMOKY INDUSTRIAL ACCESS CORRIDOR PLAN**

LAND DESCRIPTION

LEASE A0099 6-06-057: 25SE  
LICENCE B0119 6-01-062: 17S

ALL LAND(S) IS/ARE WITHIN THE BERLAND SMOKY INDUSTRIAL ACCESS CORRIDOR PLAN (2008)  
AND IS SUBJECT TO ESRD INFORMATION LETTER 2008-05.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

DAVE HUGELSCHAFFER  
SECTION HEAD  
EDSON OFFICE - LAND USE AREA-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE  
DEV  
RANGELAND DISTRICT  
111 54 ST FLOOR 1  
EDSON AB T7E 1T2 (780) 865-8267

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**TPG001801 WIND EROSION HAZARD**

LAND DESCRIPTION

LICENCE B0104 4-14-011: 3NW

ALL LAND(S) CONTAIN(S) LAND WITH RESTRICTIVE TOPOGRAPHIC AND/OR GROUND CONDITIONS.

SURFACE ACCESS IS NOT PERMITTED

FOR FURTHER INFORMATION, PLEASE CONTACT:

LOWELL CALDER  
PUBLIC LANDS OFFICER  
LETHBRIDGE NORTH OFFICE-RANGELAND DISTRICT-LANDS DIVISION DEPT. OF  
SUSTAINABLE RESOURCE DEV  
5401 1 AVE S FLOOR 1  
LETHBRIDGE AB T1J 4V6 (403) 382-4290

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**TSH003401 TRUMPETER SWAN HABITAT 500m BUFFER**

LAND DESCRIPTION  
 LICENCE B0124 6-06-071: 7SEP  
 LICENCE B0125 6-06-071: 29NP; 32P  
 6-07-071: 36SEP  
 LICENCE B0129 6-11-080: 23SEP

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  
 LEASE A0073 6-10-073: 11SEP  
 LICENCE B0124 6-06-071: 7EP  
 LICENCE B0125 6-06-071: 29NP; 30NEP; 32SP,NEP  
 6-07-071: 36SEP  
 LICENCE B0129 6-11-080: 23SP

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

**WPP004701 GIPSY-GORDON CONSERVATION AREA**

LAND DESCRIPTION  
 LICENCE B0136 4-06-088: 5P; 6SP,NEP; 7NP,SWP; 8P; 18P  
 4-07-088: 12SP,NEP; 15P

ALL LAND(S) IS/ARE WITHIN A WILDLAND PROVINCIAL PARK.

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  
 PROVINCIAL BUILDING FLOOR 2  
 9503 BEAVERHILL ROAD  
 PO BOX 1019  
 LAC LA BICHE AB T0A 2C0 (780) 644-5357

END