

2017 SEPTEMBER 13

PUBLIC OFFERING OF CROWN PETROLEUM AND NATURAL GAS RIGHTS



Alberta 
Government

PUBLIC OFFERING CONTROL COUNTS FOR 2017.09.13

From	To	Total	Area
LEASES: A0008	A0081	74	19,200.0000 ha.
LICENCES: B0082	B0094	13	9,280.0000 ha.

		87	28,480.0000 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 September 13**.

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 September 13** 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 ---			
A0008	256	4-22-015: 14 PETROLEUM AND NATURAL GAS	
A0009	1024	4-29-018: 2; 11; 12; 14 PETROLEUM AND NATURAL GAS	
A0010	256	4-29-018: 31 PETROLEUM AND NATURAL GAS	(SHA006701)
A0011	768		
	TRACT ONE	4-10-024: 31 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MEDICINE HAT SD	(DRRZD 12)
	TRACT TWO	4-10-024: 30 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MEDICINE HAT SD EXCEPTING NATURAL GAS IN THE BASAL COLORADO SD	(DRRZD 12) (ZD 156)
	TRACT THREE	4-10-024: 19 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MEDICINE HAT SD EXCEPTING NATURAL GAS IN THE BASAL COLORADO SD EXCEPTING NATURAL GAS IN THE BASAL BLAIRMORE	(DRRZD 12) (ZD 156) (ZD 156)
A0012	768		
	TRACT ONE	4-11-024: 29N PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MILK RIVER FM EXCEPTING NATURAL GAS IN THE COLORADO GRP	(DRRZD 11) (ZD 18-A)
	TRACT TWO	4-11-024: 20; 29S; 30 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0013	768		
	TRACT ONE	4-10-025: 4 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MEDICINE HAT SD	(DRRZD 12)
	TRACT TWO	4-10-025: 5; 6 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0014	512		
	TRACT ONE	4-02-027: 10 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
	TRACT TWO	4-02-027: 3 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)

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LEASE	HECTARES	LAND DESCRIPTION	
A0015	768		
		TRACT ONE 4-02-027: 4 PETROLEUM AND NATURAL GAS	
		TRACT TWO 4-02-027: 9 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
		TRACT THREE 4-02-027: 5 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
A0016	512	4-02-027: 11; 14 PETROLEUM AND NATURAL GAS	
A0017	384	4-02-027: 13; 24S PETROLEUM AND NATURAL GAS	
A0018	256	4-08-028: 7 PETROLEUM AND NATURAL GAS	
A0019	256	4-23-031: 31 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)
A0020	256		
		TRACT ONE 4-23-032: 20NE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
		TRACT TWO 4-23-032: 20S,NW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE PEKISKO FM	(DRRZD 30)
A0021	64	4-23-032: 26NE PETROLEUM AND NATURAL GAS	
A0022	256	4-23-033: 6 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
A0023	128	4-23-033: 16E PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0024	128	4-23-033: 16W PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0025	256	5-04-037: 32 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP TO THE BASE OF THE TURNER VALLEY FM	(DRRZD 4) (DRRZD 28)
A0026	256	5-04-037: 33 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP TO THE BASE OF THE TURNER VALLEY FM	(DRRZD 4) (DRRZD 28)

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LEASE	HECTARES	LAND DESCRIPTION	
A0027	256	5-04-038: 8 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE ROCK CREEK MBR	(DRRZD 60)
A0028	256	5-04-038: 10 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE JURASSIC SYSTEM	(DRRZD 90)
A0029	64	5-04-038: 15SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0030	256	5-04-038: 16 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0031	128	5-04-038: 17N PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0032	256	5-01-046: 14 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0033	256	5-01-046: 22 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0034	256	5-02-046: 4 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BANFF FM	(DRRZD 57)
A0035	256	5-02-047: 22 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BANFF FM	(DRRZD 57)
A0036	256	TRACT ONE 5-02-047: 22N, SE, L3, L6 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP TO THE BASE OF THE BANFF FM EXCEPTING PETROLEUM AND NATURAL GAS IN THE CARDIUM FM	(DRRZD 39) (DRRZD 57) (DRRZD 3)
		TRACT TWO 5-02-047: 22L4, L5 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE BANFF FM	(DRRZD 3) (DRRZD 57)
A0037	512	TRACT ONE 5-02-047: 28; 32S PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP EXCEPTING PETROLEUM AND NATURAL GAS IN THE CARDIUM FM	(DRRZD 39) (DRRZD 3)
		TRACT TWO 5-02-047: 32N PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM	(DRRZD 3)

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LEASE	HECTARES	LAND DESCRIPTION	
A0038	256	5-03-047: 9 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP TO THE BASE OF THE BANFF FM	(DRRZD 39) (DRRZD 57)
A0039	256	5-03-047: 9 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BANFF FM	(DRRZD 57)
A0040	128	5-03-047: 24W PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE MANNVILLE GRP	(DRRZD 3) (DRRZD 4)
A0041	128	5-03-047: 24W PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0042	64	4-01-048: 2SE PETROLEUM AND NATURAL GAS	
A0043	128	4-07-048: 22E PETROLEUM AND NATURAL GAS	
A0044	128	4-07-048: 22W PETROLEUM AND NATURAL GAS	
A0045	256	5-01-048: 10 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0046	512	TRACT ONE 5-02-048: 9S,NW; 10 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
		TRACT TWO 5-02-048: 9NE PETROLEUM AND NATURAL GAS TO THE BASE OF THE BELLY RIVER GRP	(DRRZD 39)
A0047	256	4-27-049: 34 PETROLEUM AND NATURAL GAS	
A0048	256	5-01-049: 24 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0049	256	5-01-051: 20 PETROLEUM AND NATURAL GAS	
A0050	256	4-19-055: 24 PETROLEUM AND NATURAL GAS	
A0051	256	4-25-056: 18 PETROLEUM AND NATURAL GAS	

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LEASE	HECTARES	LAND DESCRIPTION	
A0052	256	4-26-056: 24 PETROLEUM AND NATURAL GAS	
A0053	256	4-16-058: 23 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
A0054	256	4-18-059: 10 PETROLEUM AND NATURAL GAS TO THE TOP OF THE ELK POINT GRP	(DRRZD 284)
A0055	256	5-01-063: 16 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM	(DRRZD 6)
A0056	256	5-01-063: 16 PETROLEUM AND NATURAL GAS TO THE BASE OF THE VIKING FM	(DRRZD 6)
--- NORTHERN REGION ---			
A0057	256	5-07-039: 3 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE TOP OF THE MANNVILLE GRP	(DRRZD 3) (DRRZD 4)
A0058	256	5-07-039: 12 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE VIKING FM TO THE BASE OF THE MANNVILLE GRP	(DRRZD 6) (DRRZD 4)
A0059	64	5-05-040: 14NE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE ROCK CREEK MBR	(DRRZD 60)
A0060	64	5-05-040: 14NE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE VIKING FM PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP TO THE TOP OF THE ROCK CREEK MBR	(DRRZD 3) (DRRZD 6) (DRRZD 4) (DRRZD 60)
A0061	256	5-05-041: 23 PETROLEUM AND NATURAL GAS TO THE BASE OF THE CARDIUM FM	(DRRZD 3)
A0062	128	5-07-041: 23E PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE TOP OF THE DUVERNAY-MAJEAU LAKE FM	(DRRZD 3) (DRRZD 287)
A0063	256	5-06-042: 1 PETROLEUM AND NATURAL GAS TO THE BASE OF THE CARDIUM FM	(DRRZD 3)
A0064	64	5-09-051: 9SE PETROLEUM AND NATURAL GAS	

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LEASE	HECTARES	LAND DESCRIPTION	
A0065	64	5-08-052: 11SW PETROLEUM AND NATURAL GAS	
A0066	64	5-08-052: 28SE PETROLEUM AND NATURAL GAS	
A0067	128	5-08-052: 33E PETROLEUM AND NATURAL GAS	
A0068	256	5-11-052: 1 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE TOP OF THE L MANNVILLE - ROCK CREEK	(DRRZD 3) (ZD 3092-1)
A0069	256	5-11-052: 1 PETROLEUM AND NATURAL GAS TO THE BASE OF THE CARDIUM FM	(DRRZD 3)
A0070	512	TRACT ONE 5-11-052: 18N,SE 5-12-052: 24 NATURAL GAS IN THE L MANNVILLE - ROCK CREEK PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE ROCK CREEK MBR	(ZD 3092-1) (DRRZD 60)
		TRACT TWO 5-11-052: 18SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE ROCK CREEK MBR	(DRRZD 60)
A0071	64	6-08-063: 24NW PETROLEUM AND NATURAL GAS TO THE BASE OF THE CHINOOK MBR	(SHA006701) (SHA008201) (DRRZD 77)
A0072	256	6-04-071: 22 PETROLEUM AND NATURAL GAS TO THE BASE OF THE DUNVEGAN FM	(DRRZD 38)
A0073	256	6-01-077: 22 PETROLEUM AND NATURAL GAS TO THE BASE OF THE WABAMUN GRP	(SHA007001) (DRRZD 277)
A0074	256	6-01-077: 30 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE STODDART GRP TO THE BASE OF THE WABAMUN GRP	(BWP001901) (SHA007001) (DRRZD 271) (DRRZD 277)
A0075	64	5-14-083: 17SE PETROLEUM AND NATURAL GAS	(ADM011501)
A0076	64	5-14-083: 17SW PETROLEUM AND NATURAL GAS	(ADM011501)
A0077	64	5-14-083: 17NW PETROLEUM AND NATURAL GAS	(ADM011501)

PETROLEUM AND NATURAL GAS LEASES

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LEASE	HECTARES	LAND DESCRIPTION	
A0078	64	5-14-083: 17NE PETROLEUM AND NATURAL GAS	(ADM011501)
A0079	256	6-11-083: 14 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MONTNEY FM	(SHA006701) (DRRZD 264)
A0080	128	5-11-087: 5W PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SLAVE POINT FM	(ADM011501) (DRRZD 18)
A0081	64	6-05-111: 32SE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD	(DRRZD 21)
74	19,200.00	HA TOTALS	END

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LICENCE	HECTARES	LAND DESCRIPTION	
--- NORTHERN REGION ---			
B0082	1024	5-06-039: 7 5-07-039: 3; 4; 12 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MANNVILLE GRP	(DRRZD 4)
B0083	512	5-08-042: 33; 34 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM	(HRV000103) (HRV002501) (HRV003201) (HRV003301) (IRZ003501) (SHA006701) (DRRZD 3)
B0084	384	TRACT ONE 5-08-043: 22SE PETROLEUM AND NATURAL GAS TO THE BASE OF THE NORDEGG MBR	(IRZ003501) (SHA006701) (DRRZD 66)
		TRACT TWO 5-08-043: 22N,SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE BASE OF THE NORDEGG MBR	(DRRZD 3) (DRRZD 66)
		TRACT THREE 5-08-043: 16N PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE CARDIUM FM TO THE TOP OF THE NORDEGG MBR	(DRRZD 3) (DRRZD 66)
B0085	384	5-14-047: 7; 8W PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BELLY RIVER GRP	(SHA007901) (DRRZD 39)
B0086	512	5-20-051: 5; 6 PETROLEUM AND NATURAL GAS	(SHA007901)
B0087	1024	5-06-055: 29-32 PETROLEUM AND NATURAL GAS TO THE BASE OF THE MANNVILLE GRP PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE NORDEGG MBR	(NAT008701) (SHA006801) (DRRZD 4) (DRRZD 66)
B0088	1024	5-06-056: 7 5-07-056: 2; 11; 12 PETROLEUM AND NATURAL GAS	
B0089	256	6-02-069: 5 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE MONTNEY FM TO THE BASE OF THE BELLOY FM	(TSH003401) (TSH003501) (DRRZD 264) (DRRZD 32)

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LICENCE	HECTARES	LAND DESCRIPTION	
B0090	768		(SHA007001)
	TRACT ONE	6-06-075: 1 PETROLEUM AND NATURAL GAS TO THE BASE OF THE DOIG FM	(DRRZD 251)
	TRACT TWO	6-06-075: 2; 3N,SE PETROLEUM AND NATURAL GAS TO THE BASE OF THE HALFWAY FM	(DRRZD 246)
	TRACT THREE	6-06-075: 3SW PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD TO THE BASE OF THE HALFWAY FM	(DRRZD 21) (DRRZD 246)

B0091	256	6-09-081: 19 PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE BLUESKY-BULLHEAD TO THE BASE OF THE FERNIE GRP	(DRRZD 21) (DRRZD 276)

B0092	512	6-10-081: 24; 25 PETROLEUM AND NATURAL GAS TO THE BASE OF THE FERNIE GRP	(DRRZD 276)

B0093	1344	5-12-087: 22NE; 27S,NW; 28E; 33NE; 34W 5-12-088: 4; 5E; 8; 9SW; 17SE PETROLEUM AND NATURAL GAS BELOW THE BASE OF THE SLAVE POINT FM	(ADM011501) (DRRZD 18)

--- Foothills Region ---			
B0094	1280	5-20-048: 22; 27-29; 33 PETROLEUM AND NATURAL GAS	(IRZ001901) (SHA006701) (SHA007901)

13	9,280.00	HA TOTALS	END

ZONE DESIGNATIONS APPLICABLE TO THE 2017 SEPTEMBER 13 PUBLIC OFFERING NOTICE

ZD: 18-A ZONE: 1600 COLORADO GRP

INTERVAL: 1480.00 - 2878.00 FEET
KEY WELL: 00/10-19-024-11W4/0
LOG TYPE: ELECTRICAL

 ZONE: 2440 BLAIRMORE GRP

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

ZD: 156 ZONE: 2420 BASAL COLORADO SD

INTERVAL: 2799.00 - 2809.00 FEET
KEY WELL: 00/07-19-024-10W4/0
LOG TYPE: ELECTRICAL

 ZONE: 3180 BASAL BLAIRMORE

INTERVAL: 3028.00 - 3082.00 FEET
KEY WELL: 00/07-19-024-10W4/0
LOG TYPE: ELECTRICAL

ZD: 3092-1 ZONE: 3113 L MANNVILLE - ROCK CREEK

INTERVAL: 6724.00 - 6890.00 FEET
KEY WELL: 00/07-10-052-11W5/0
LOG TYPE: BOREHOLE COMPENSATED SONIC

END

DEEPER RIGHTS REVERSION ZONE DESIGNATIONS

APPLICABLE TO THE 2017 SEPTEMBER 13 PUBLIC OFFERING NOTICE

DRRZD: 3 ZONE: 1700 CARDIUM FM

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

DRRZD: 4 ZONE: 2480 MANNVILLE GRP

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

DRRZD: 6 ZONE: 2140 VIKING FM

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

DRRZD: 11 ZONE: 1580 MILK RIVER FM

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

DRRZD: 12 ZONE: 1640 MEDICINE HAT SD

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

DRRZD: 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

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

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

DRRZD: 32 ZONE: 5560 BELLOY FM

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

DRRZD: 38 ZONE: 1920 DUNVEGAN FM

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

DEEPER RIGHTS REVERSION ZONE DESIGNATIONS

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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

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

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

DRRZD: 66 ZONE: 4440 NORDEGG MBR

INTERVAL: 5610.00 - 5670.00 FEET
KEY WELL: 00/10-12-055-09W5/0
LOG TYPE: COMPENSATED NEUTRON-FORMATION DENSITY

DRRZD: 77 ZONE: 1540 CHINOOK MBR

INTERVAL: 4532.00 - 4656.00 FEET
KEY WELL: 00/11-27-064-09W6/0
LOG TYPE: DUAL INDUCTION FOCUSED

DRRZD: 90 ZONE: 4000 JURASSIC SYSTEM

INTERVAL: 7052.00 - 7148.00 FEET
KEY WELL: 00/06-29-039-03W5/0
LOG TYPE: INDUCTION ELECTROLOG

DRRZD: 246 ZONE: 5160 HALFWAY FM

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

DRRZD: 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

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

DRRZD: 271 ZONE: 6040 STODDART GRP

INTERVAL: 7170.00 - 8095.00 FEET
KEY WELL: 00/07-17-078-10W6/0
LOG TYPE: BOREHOLE COMPENSATED SONIC

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

DEEPER RIGHTS REVERSION ZONE DESIGNATIONS

APPLICABLE TO THE 2017 SEPTEMBER 13 PUBLIC OFFERING NOTICE

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: 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

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

END

ADDENDA AND CONTACTS APPLICABLE TO THE 2017 SEPTEMBER 13 PUBLIC OFFERING NOTICE

ADM011501 PEACE RIVER OIL SANDS DESIGNATED AREA #2

LEASE A0075
 LEASE A0076
 LEASE A0077
 LEASE A0078
 LEASE A0080
 LICENCE B0093

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

BWP001901 BIRCH HILLS

LEASE A0074

ALL LAND(S) IS/ARE WITHIN A 'BUCK FOR WILDLIFE' PROJECT 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

HRV000103 ARCHAEOLOGICAL SITE

LAND DESCRIPTION

LICENCE B0083 5-08-042: 33L6-L11; 34L5, L11, L12

ALL LAND(S) IS/ARE WITHIN AN HISTORICAL RESOURCES MANAGEMENT AREA.

SURFACE ACCESS IS NOT PERMITTED

FOR FURTHER INFORMATION, PLEASE CONTACT:

REBECCA TRAQUAIR
 ADMINISTRATIVE COORDINATOR
 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) 431-2373

APPENDIX 3

PAGE 2

ADDENDA AND CONTACTS APPLICABLE TO THE 2017 SEPTEMBER 13 PUBLIC OFFERING NOTICE

HRV002501 ARCHAEOLOGICAL SITE

LAND DESCRIPTION
LICENCE B0083 5-08-042: 33L1-L3,L5,L12-L16; 34L3,L4,L6,L10,L13-L15

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:
REBECCA TRAQUAIR
ADMINISTRATIVE COORDINATOR
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) 431-2373

HRV003201 HISTORICAL RESOURCE MANAGEMENT AREA

LAND DESCRIPTION
LICENCE B0083 5-08-042: 33P; 34NP,SWP

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:
REBECCA TRAQUAIR
ADMINISTRATIVE COORDINATOR
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) 431-2373

HRV003301 HISTORICAL RESOURCE MANAGEMENT AREA

LAND DESCRIPTION
LICENCE B0083 5-08-042: 33L6-L11; 34L5,L11,L12

ALL LAND(S) IS/ARE WITHIN AN HISTORICAL 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

IRZ001901 COAL BRANCH ZONE 2

LAND DESCRIPTION
LICENCE B0094 5-20-048: 22P; 27P; 28P; 29; 33P

ALL LAND(S) IS/ARE WITHIN ZONE 2 (CRITICAL WILDLIFE) OF AN INTEGRATED RESOURCE PLAN.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:
LANDS OFFICER
HINTON OFFICE
HINTON OFFICE - LAND USE AREA- LANDS DIVISION DEPT. OF SUSTAINABLE
RESOURCE DEV
131 CIVIC CENTRE RD FLOOR 3
HINTON AB T7V 2E6 (780) 865-8267

ADDENDA AND CONTACTS APPLICABLE TO THE 2017 SEPTEMBER 13 PUBLIC OFFERING NOTICE

IRZ003501 ROCKY-NORTH SASKATCHEWAN ZONE 2

LAND DESCRIPTION

LICENCE B0083 5-08-042: 33P; 34P
 LICENCE B0084 5-08-043: 22P

ALL LAND(S) IS/ARE WITHIN ZONE 2 (CRITICAL WILDLIFE) OF AN INTEGRATED RESOURCE PLAN.

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

LANDS OFFICER
 ROCKY MOUNTAIN HOUSE OFFICE
 ROCKY MOUNTAIN HOUSE REGIONAL OFFICE - LAND AND FOREST SERVICE DEPT. OF
 SUSTAINABLE RESOURCE DEV
 COURIER BOX 21
 PO BOX 1720
 ROCKY MOUNTAIN HOUSE AB T4T 1B3 (403) 845-8272

NAT008701 PREFONTAINE BROCK LAKES

LAND DESCRIPTION

LICENCE B0087 5-06-055: 32NP

ALL LAND(S) IS/ARE WITHIN A NATURAL AREA, ESTABLISHED UNDER THE PUBLIC LANDS ACT.

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

SHA006701 KEY WILDLIFE AND BIODIVERSITY ZONES

LAND DESCRIPTION

LEASE A0010 4-29-018: 31SP,NEP
 LEASE A0071 6-08-063: 24NWP
 LEASE A0079 6-11-083: 14S,NWP,NE
 LICENCE B0083 5-08-042: 33S,NP; 34
 LICENCE B0084 5-08-043: 16NEP; 22EP,W
 LICENCE B0094 5-20-048: 22S,NW,NEP; 27SP,NWP; 28S,NP; 29; 33SWP

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

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

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

SHA006801 COLONIAL NESTING BIRDS

LAND DESCRIPTION

LICENCE B0087 5-06-055: 29NP; 31EP; 32P

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

SURFACE ACCESS IS SUBJECT TO SPECIFIC RESTRICTIONS

FOR FURTHER INFORMATION, PLEASE CONTACT:

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

SHA007001 SPECIAL ACCESS ZONE

LAND DESCRIPTION
LEASE A0073 6-01-077: 22SP,NWP
LEASE A0074 6-01-077: 30SP,NEP
LICENCE B0090

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

SHA007901 YELLOWHEAD GRIZZLY BEAR ZONE

LICENCE B0085
LICENCE B0086
LICENCE B0094

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

SHA008201 GRANDE CACHE GRIZZLY BEAR ZONE

LEASE A0071

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

TSH003401 TRUMPETER SWAN HABITAT 500m BUFFER

LAND DESCRIPTION
LICENCE B0089 6-02-069: 5NP

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

ADDENDA AND CONTACTS APPLICABLE TO THE 2017 SEPTEMBER 13 PUBLIC OFFERING NOTICE

TSH003501 TRUMPETER SWAN HABITAT 800m BUFFER

LAND DESCRIPTION

LICENCE B0089 6-02-069: 5NP, SWP

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

END