

MANITOBA SPILL REPORT

29-AUG-19

**29-AUG-14
TO
29-AUG-19**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2014-30-W	07-SEP-14	EOG	FLOWLINE/JOINT/HOLE	HUMAN ERROR	02C-09-02-28	2.00	2.00	.00	3.95	215.00	.00
2014-31-W	16-SEP-14	Newalta Corp	BAT/SHAKER/OVERFLOW	HUMAN ERROR	09-30-01-25	.00	.00	3.00	3.00	120.00	.00
2014-32-W	19-SEP-14	Red Beds	BAT/TREATER/OVERFLOW	MECH FAILURE	08-33-01-24	.24	.00	.00	.20	7500.00	7500.00
2014-33-W	03-OCT-14	CNRL	WELL/TBG SPOOL/STUFFING BOX	MECH FAILURE	05-23-02-29	.40	.60	.00	13.00	1824.98	.00
2014-34-W	12-NOV-14	Tundra	FLOWLINE/LINE/LINE	CORROSION	08-11-04-22	.00	.50	.00	.10	2.00	.00
2014-35-W	28-NOV-14	ARC	SAT/HEADER/HOLE	CORROSION	07-04-01-24	16.00	1.00	.00	17.50	157.00	.00
2014-36-W	01-DEC-14	ARC	WELL/RISER/UNION	HUMAN ERROR	15-10-01-24	4.00	1.00	.00	11.00	506.00	.00
2014-37-W	02-DEC-14	CNRL	WELL/TAG SPOOL/FLOW TEE	MECH FAILURE	14-10-02-29	.00	.00	2.00	2.00	133.00	.00
2014-38-W	03-DEC-14	Penn West	BAT/PUMP/VALVE (DUMP)	MECH FAILURE	11-30-01-25	1.00	49.00	.00	50.00	2275.00	2275.00
2014-39-W	16-DEC-14	CNRL	FLOWLINE/JOINT/HOLE	HUMAN ERROR	15-09-02-29	2.00	.70	.00	2.70	48.00	.00
2014-40-V	02-SEP-14	Tundra	FLOWLINE WRONG LINE CUT	HUMAN ERROR	01-30-07-28	.00	2.00	.00	1.99	.00	.00
2014-41-V	15-SEP-14	Corval Energ	WELL/WELLHEAD/VALVE	HUMAN ERROR/LEFT OPEN	02-33-08-28	1.00	1.50	.00	2.30	150.00	.00
2014-42-V	19-SEP-14	Cres Pt Ener	WELL/TANK/HOLE	CORROSION/INTERNAL	08-28-10-28	.00	3.00	.00	6.00	12.00	.00
2014-43-V	06-OCT-14	Corex Res	WELL/PUMP/NIPPLE	MECH FAILURE/ VIBRATION FROM P	07-08-10-26	.00	2.00	.00	.10	338.39	.00
2014-44-V	29-OCT-14	Corex Res	TRUCK	TRUCK OVERFLOW	02-11-10-26	.00	5.00	.00	5.00	67.00	.00
2014-45-V	30-OCT-14	Corex Res	TRUCK	FITTING ON TRUCK LET GO	02-11-10-26	.00	.50	.00	.50	38.00	.00
2014-46-V	11-NOV-14	Corval Energ			14-23-08-28	6.50	.00	.00	6.00	.00	64.00
2014-47-V	14-NOV-14	Unknown/NA	TRUCK	HUMAN ERROR	-12-10-29	.00	.00	2.00	1.90	4000.00	64.00
2014-48-V	14-NOV-14	Unknown/NA	TRUCK	HUMAN ERROR	-26-10-29	.00	.00	.00	.00	1000.00	1000.00
2014-49-V	16-NOV-14	Tundra	TANK	BALL PLUG	04-11-09-29	3.00	3.00	.00	3.00	.00	.00
2014-50-V	20-NOV-14	Tundra	TEST TANK	BALL PLUG- CORROSION	05-16-11-29	.75	.75	.00	1.40	100.00	.00
2014-51-V	24-NOV-14	Corex Res	WELL	PACKING FAILURE	02-14-10-26	.00	.00	.80	.80	161.40	.00
2014-52-V	03-DEC-14	Highmark	WELL/TANK/OVERFLOW HOSE/GASKET	MECH FAILURE	09-21-12-27	2.00	1.00	.00	2.50	500.00	.00
2014-53-V	04-DEC-14	Corex Res	FLOWLINE	RUPTURE	13-11-10-28	.50	4.50	.00	6.00	394.32	100.00
2014-54-V	24-NOV-14	Tundra	TEST TANK	HUMAN ERROR FAULTY BLOW PLUG	---	80.00	20.00	.00	90.00	1.50	1.50
2014-55-V	08-DEC-14	Corex Res	BAT/KO PUMP/FITTING	MECH FAILURE/LOOSE FITTING	02-11-10-26	.00	2.00	.00	.20	673.29	.00
2014-56-V	15-DEC-14	Tundra	WATER INJECTION LINE	MECH FAILURE/CORROSION	04-15-08-29	.00	180.00	.00	170.00	4350.00	.00
2014-57-V	17-DEC-14	Corex Res	HUMAN ERROR TANK OVERFLOW	HUMAN ERROR	12-03-10-28	.00	10.00	.00	10.00	100.00	.00
2015-01-V	02-JAN-15	Interwest Pe	FLOWLINE/HOLE	CORROSION	04-32-09-29	3.50	.00	.00	702.00	1050.00	.00
2015-01-W	19-JAN-15	Tundra	WELL/LINE/FLOW TEE	MECH FAILURE	10-09-02-24	.50	2.50	.00	2.98	1000.00	.00
2015-02-V	11-JAN-15	Tundra	FRAC TANK/ VALVE FROZEN	HUMAN ERROR	04-10-08-28	.00	3.00	.00	2.50	33.00	.00
2015-02-W	19-JAN-15	Tundra	WELL/JOINT/UNION	MECH FAILURE	11-10-02-25	.00	5.00	.00	4.70	200.00	.00
2015-03-W	19-JAN-15	Tundra	BAT/PUMP/VALVE	HUMAN ERROR	04-01-02-28	.30	.70	.00	.70	400.00	.00
2015-04-V	15-JAN-15	Kripa	FLOWLINE	ROCK RUPTURED LINE	13-06-09-27	.00	60.00	.00	560.00	500.00	500.00
2015-04-W	20-JAN-15	Tundra	FLOWLINE/HEADER/VALVE	MECH FAILURE	07B-19-01-25	.50	.00	.00	.45	100.00	.00
2015-05-V	15-JAN-15	Corex Res	FRAC TANK/BYPASS VALVE	HUMAN ERROR	12-01-09-28	.00	.00	.50	.50	.00	.00
2015-05-W	05-FEB-15	Tundra	FLOWLINE/LINE/HOLE	CORROSION	08-09-01-25	15.00	185.00	.00	299.50	7420.00	7420.00
2015-06-V	19-JAN-15	Tundra	TANK	MECH FAILURE	01-12-11-29	.00	6.00	.00	6.00	80.00	.00

MANITOBA SPILL REPORT

29-AUG-19

29-AUG-14

TO

29-AUG-19

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2015-06-W	15-FEB-15	Tundra	SAT/LINE/HOLE	CORROSION	07-22-01-25	.20	.80	.00	.95	597.00	597.00
2015-07-V	26-JAN-15	Tundra	TANK	HUMAN ERROR	09-02-10-29	.00	.00	6.00	3.00	165.00	.00
2015-07-W	26-MAR-15	Atikwa	WELL/LINE/FLOW TEE	MECH FAILURE	16A-14-02-29	.35	1.10	.00	3.00	50.00	.00
2015-08-V	02-FEB-15	Tundra	WELLHEAD/FLOW TEE/VALVE	WELLHEAD/VALVE/SPLIT	16-27-10-26	.36	5.64	.00	5.95	126.00	.00
2015-08-W	22-APR-15	Tundra	TRUCK/TANK OIL/OVERFLOW	HUMAN ERROR	13-24-01-25	.80	.20	.00	.95	300.00	.00
2015-09-V	22-JAN-15	Fox Tail	TRUCK	HUMAN ERROR	03-10-09-28	.08	.00	.00	.08	600.00	600.00
2015-09-W	26-APR-15	Penn West	Flowline/Joint/Hole	Corrosion	15-24-01-26	.50	23.50	.00	23.00	2702.00	2702.00
2015-10-V	12-FEB-15	2928419 MB	FLOW LINE/JOINT/CONNECTION	MECHANICAL FAILURE	06-09-10-26	.00	30.00	.00	400.00	2000.00	2000.00
2015-10-W	09-JUN-15	CNRL	BAT/LINE/HOLE	MECH FAILURE	14-09-02-29	.50	.00	.00	.50	10.00	.00
2015-11-V	14-FEB-15	Tundra	TANK	FROZE LINE	12-08-09-28	3.00	.00	.00	2.95	323.00	323.00
2015-11-W	21-JUN-15	ARC	FLOWLINE/JOINT/HOLE	MECH FAILURE	03-15-01-24	.15	.15	.00	.00	25.00	25.00
2015-12-V	15-FEB-15	Tundra	DRAGON TANK	HUMAN ERROR	13-34-08-28	.00	2.00	.00	1.95	160.00	.00
2015-12-W	21-JUN-15	Tundra	BAT/TANK/OVERFLOW	HUMAN ERROR	02-25-04-22	38.70	.00	.00	400.00	3397.00	3397.00
2015-13-V	19-FEB-15	Corex Res	WELL/CSGBOWL/VALVE	CORROSION	16-25-10-26	.20	1.30	.00	1.50	394.32	100.00
2015-13-W	22-JUN-15	Tundra	WELL/TBG SPOOL/FLOW TEE	CORROSION	15-20-01-25	.13	.87	.00	.90	407.82	.00
2015-14-V	23-FEB-15	Tundra	HDR/FLOWLINE/VALVE	MECH FAILURE	05-26-09-29	.20	.80	.00	.95	300.00	.00
2015-14-W	28-JUL-15	Tundra	FLOWLINE/LINE	CORROSION	07-24-01-26	1.00	2.00	.00	2.99	57.00	57.00
2015-15-V	24-FEB-15	Tundra	FLOWLINE/HDR	CORROSION	11-27-09-29	.30	.30	.00	.55	20.00	.00
2015-15-W	01-SEP-15	Tundra	FLOWLINE/LINE	LINE	02-24-01-26	.10	.65	.00	.70	50.00	50.00
2015-16-V	05-MAR-15	Cres Pt Ener	TANKS	ESD FAILURE	14-10-11-29	6.00	54.00	.00	91.50	502.00	.00
2015-16-W	09-OCT-15	Tundra	SAT/LINE/HOLE	CORROSION	12-22-01-27	1.00	.50	.00	1.40	200.00	.00
2015-17-V	08-MAR-15	Corex Res	WELL HEAD	CORROSION	03-28-10-25	1.00	14.00	.00	20.00	402.99	402.00
2015-17-W	24-OCT-15	Tundra	TANKS/VALVE	MECHANICAL FAILURE	08-08-06-29	.00	12.00	.00	11.95	24.00	.00
2015-18-V	13-MAR-15	Corex Res	FLARE STACK	FROZEN LINE	15-03-11-26	.50	.00	.00	3.00	.00	485.00
2015-18-W	07-NOV-15	Tundra	BATTERY/LINE/OVERFLOW	MECHANICAL FAILURE	15-02-03-21	4.00	.00	.00	3.80	70.00	.00
2015-19-V	23-MAR-15	Corex Res	SAT/CHECK VALVE/O-RING	MECH FAILURE	12-01-09-28	15.00	15.00	.00	88.50	345.00	.00
2015-19-W	22-NOV-15	Tundra	FLOWLINE/LINE/HOLE	CORROSION	08-12-01-26	7.00	2.00	.00	8.80	220.00	.00
2015-20-V	01-APR-15	Corex Res	FLOWLINE/JOINT/BREAK	MECH FAILURE	11-23-10-26	.50	1.00	.00	1.50	170.00	170.00
2015-21-V	03-APR-15	Tundra	TEST/TANK/HOLE	CORROSION	11-26-07-29	.80	.20	.00	.90	50.00	.00
2015-22-V	20-APR-15	Corex Res	WELLHEAD/CASING NIPPLE	CORROSION/INTERNAL	09-16-09-25	.20	.30	.00	.30	769.28	369.00
2015-23-V	23-APR-15	Tundra	TEST SEPERATOR/SAMPLER	MECH FAILURE	01-03-09-29	.70	1.20	.00	1.95	371.00	.00
2015-24-V	27-APR-15	Red River Oi	WATER/ TANK/OVERFLOW	MECHANICAL FAILUURE	15-18-07-29	.00	35.00	.00	37.00	.00	.00
2015-25-V	04-MAY-15	Tundra	FLOWLINE	GASKET FAILURE	05-08-08-29	.00	400.00	.00	3305.00	22391.00	22391.00
2015-27-V	21-MAY-15	Tundra	WELLHEAD FLOWTEE PACKING LEAK	MECH FAILURE	11-25-09-28	.20	.80	.00	.25	364.00	64.00
2015-28-V	23-MAY-15	Tundra	WELLHEAD/PACKING LEAK	MECH FAILURE	09-07-10-28	1.66	.33	.00	1.95	787.00	.00
2015-29-V	05-JUN-15	Corex Res	SKUD NIPPLE SOURCE	MECH FAILURE	07-10-12-29	.00	3.00	.00	2.80	95.87	.00
2015-30-V	07-JUN-15	Tundra	WELL TEST TANK/EQUALIZING LINE	MECH FAILURE	01-07-10-29	.50	12.00	.00	11.95	142.00	.00
2015-31-V	08-JUN-15	Corex Res	F/L JOINT HOLE	MECH FAILURE	03-04-10-28	.00	.50	.00	3.00	2067.00	2067.00

MANITOBA SPILL REPORT

29-AUG-19

**29-AUG-14
TO
29-AUG-19**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2015-32-V	12-JUN-15	Corex Res	HEADER/BROKENVALVE/WINDSTORM	WIND STORM	16-09-11-26	.50	1.00	.00	5.00	126.00	.00
2015-33-V	18-JUN-15	Tundra	PIPELINE	HUMAN ERROR	04-04-10-29	.00	.00	.00	.00	200.00	200.00
2015-34-V	11-JUL-15	Tundra	WELL	MECH FAILURE POLISH ROD FAILUR	04-20-10-28	.19	.01	.00	.19	616.00	616.00
2015-35-V	17-JUL-15	Tundra	WELL HEAD/FLOW TEE/NIPPLE	COROSION/INTERNAL	16-11-09-25	.20	.80	.00	.95	96.00	.00
2015-36-V	28-JUL-15	Corex Res	TESTANK	HIGH LEVEL ALARM FAILED	03-11-11-26	.00	9.00	.00	125.00	2999.00	2999.00
2015-37-V	28-JUL-15	Cres Pt Ener	RISER/NIPPLE/BLOW PLUG	CORROSION/INTERNAL	15-10-11-29	.00	.00	.00	660.00	2097.00	2000.00
2015-39-V	18-SEP-15	Tundra	F/L RISER GASKET	HUMAN ERROR	13-10-09-28	.00	1.00	.00	.98	311.00	.00
2015-40-V	24-SEP-15	Tundra	F/L RISER/HOLE/CORROSION	CORROSION	07-05-08-28	.50	1.50	.00	1.99	176.00	.00
2015-41-V	07-OCT-15	Tundra	TRUCK	.Trucker Error/Overfill	12-24-10-29	.00	1.00	.00	.95	292.00	.00
2015-42-V	17-OCT-15	Tundra	WELL/TANK/RISER	CORROSION/INTERNAL	13-35-12-28	.20	1.80	.00	1.95	102.00	.00
2015-43-V	09-NOV-15	Corex Res	WELL	CHECK VALVE FAULTY	13-05-11-25	8.00	8.00	1.50	16.50	685.00	685.00
2015-44-V	18-NOV-15	Tundra	INJECTION WELL	NIPPLE ON PIT	12-22-08-29	.20	3.00	.00	2.95	450.00	.00
2015-45-V	21-NOV-15	2928419 MB	NIPPLE ON DISPOSAL PUMP	PUMP NIPPLE	06-09-10-26	.00	10.00	.00	10.00	100.00	.00
2015-46-V	24-NOV-15	2928419 MB	FLOWLINE/DISPOSAL	CORROSION	06-09-10-26	.00	.50	.00	.50	600.00	600.00
2015-47-V	20-DEC-15	Corex Res	TANK/OVERFLOW	HUMAN ERROR	15-25-09-29	4.00	.00	.00	4.00	285.00	.00
2016-01-V	17-JAN-16	Tundra	NIPPLE ON DISPOSAL PUMP	PUMP NIPPLE	06-29-10-26	.00	8.00	.00	2.00	168.00	.00
2016-01-W	13-JAN-16	Cres Pt Ener	FLOWLINE/RISER/ELBOW	MECH FAILURE	04-35-01-28	16.00	1.00	.00	17.00	1497.00	.00
2016-02-V	18-FEB-16	Tundra	WELL/TANK/VALVE	MECH FAILURE	16-14-08-28	1.50	.50	.00	1.90	100.00	.00
2016-02-W	28-JAN-16	Tundra	WELL/TBG SPOOL/NIPPLE	MECH FAILURE	14-07-01-25	.50	2.50	.00	2.90	577.00	.00
2016-03-V	20-FEB-16	Corex Res	BAT/HDR/PIGTRAP	CORROSION	09-16-11-26	.00	.00	10.00	10.00	93.14	.00
2016-03-W	06-APR-16	Tundra	WELL/SEPERATOR/HOSE	MECH. FAILURE	16-35-01-26	2.00	2.00	.00	3.80	565.00	.00
2016-04-V	24-MAR-16	Interwest Pe	TRUCK/TANK/OVERFLOW	HUMAN ERROR	14-33-09-29	6.50	.00	.00	6.00	20.00	.00
2016-04-W	10-JUN-16	Tundra	WELL/TBG SPOOL/STUFFING BOX	MECH FAILURE	02-20-02-21	.20	1.80	.00	1.00	500.00	.00
2016-05-V	10-MAR-16	Corex Res	WELL	PACKING FAILURE	11-30-10-25	.20	1.80	.00	1.50	120.00	.00
2016-05-W	21-JUL-16	Tundra	BULL PLUG VALVE ON TANK	CORROSION	01-12-05-22	9.00	9.00	.00	42.00	624.00	.00
2016-06-V	18-MAR-16	Corex Res	WELL	CORROSION	10-22-11-26	.00	27.50	.00	.50	295.00	295.00
2016-06-W	28-JUL-16	Tundra	WELL/TANK/HOLE	CORROSION	10-31-01-27	.05	4.95	.00	4.95	300.00	.00
2016-07-V	25-MAR-16	Tundra	WELL/TANK	CORROSION	04-08-13-28	16.25	16.25	.00	32.49	100.00	.00
2016-07-W	13-AUG-16	Tundra	WELL/TBG SPOOL/STUFFING BOX	MECH FAILURE	03-03-02-25	.10	.70	.00	.80	220.00	.00
2016-08-V	20-APR-16	Tundra	WELL HEAD	BROKEN ROD	12-03-09-29	.90	.60	.00	1.45	100.00	.00
2016-08-W	22-AUG-16	CNRL	BAT/PUMP/NIPPLE	CORROSION	14-09-02-29	.00	9.50	.00	9.00	153.39	.00
2016-09-V	02-MAY-16	Tundra	TESTTANK/CORROSION/INTERNAL	CORROSION	03-13-08-29	.20	1.80	.00	1.99	100.00	.00
2016-09-W	27-AUG-16	Tundra	WELL/TBG SPOOL/STUFFING BOX	MECH FAILURE.	16-33-02-21	2.00	2.00	.00	3.75	854.00	.00
2016-10-V	03-MAY-16	Tundra	WELL/POLISH ROD	MECH FAILURE	09-08-07-28	1.50	1.00	.00	2.43	746.00	.00
2016-10-W	14-SEP-16	Tundra	WELL/TBG SPOOL/FLOW TEE	HUMAN ERROR	09A-04-02-25	2.00	.00	.00	1.99	625.00	.00
2016-11-V	04-MAY-16	Tundra	TEST TANK	LEAK FROM TANK	09-24-08-28	.00	30.00	.00	30.00	111.00	.00
2016-12-V	17-MAY-16	Corex Res	FLOWLINE/JOINT/HOLE	HUMANERROR/RUPTURE RESTORING R	05-11-09-28	1.00	.05	.00	.50	40.00	40.00
2016-12-W	14-OCT-16	Tundra	FLOWLINE	CORROSION	08D-04-01-24	1.00	.20	.00	1.10	900.00	.00

MANITOBA SPILL REPORT

29-AUG-19

**29-AUG-14
TO
29-AUG-19**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2016-13-V	28-MAY-16	Corval Energ	WELLHEADPACKING	MECHANICAL FAILURE	13-23-08-28	.95	.05	.00	.95	20.00	10.00
2016-13-W	07-NOV-16	Tundra	FLOWLINE/LINE/LINE	CORROSION	13-04-02-25	1.50	.50	.00	1.50	315.00	.00
2016-14-V	25-JUN-16	Elcano Expl	WELLHEAD/NIPPLE	INTERNAL CORROSION	04-27-12-27	5.00	14.00	.00	16.00	80.00	80.00
2016-14-W	10-NOV-16	Cres Pt Ener	TRUCK/TANK/VALVE	HUMAN ERROR	05-22-02-29	.00	.00	.33	.00	3000.00	.00
2016-15-V	26-JUN-16	Elcano Expl	WELLHEAD/NIPPLE/HAMMERUNION	MECH FAILURE	03-01-13-27	3.00	12.00	.00	14.60	.00	.00
2016-15-W	12-DEC-16	CNRL	WELL/RISER/HOLE	HUMAN ERROR	05-10-02-29	.50	1.50	.00	1.75	144.00	.00
2016-16-V	03-JUL-16	Corex Res	FLOWLINE	CORROSION	10-27-11-26	5.00	20.00	.00	59.00	15000.00	15000.00
2016-16-W	22-DEC-16	Tundra	WELL/TBG SPOOL/STUFFING BOX	MECH FAILURE	15B-28-01-25	.90	.10	.00	.90	50.00	.00
2016-17-V	28-JUL-16	Tundra	TESTTANK/HOLE	CORROSION	16-31-07-29	.10	7.90	.00	7.90	100.00	.00
2016-18-V	02-AUG-16	Elcano Expl	FLOWLINE/JOINT/HOLE	MECH FAILURE	14-27-12-27	.00	20.00	.00	37.00	300.00	3500.00
2016-19-V	08-AUG-16	Corex Res	WELL/FLOWLINE/HOLE	CORROSION	15-21-11-26	.10	.10	.00	.00	9.00	20.00
2016-20-V	15-AUG-16	Tundra	WELL/PACKING	MECH FAILURE	06-15-08-28	.40	.10	.00	.48	175.00	.00
2016-21-V	18-AUG-16	Corex Res	FLOWLINE	CORROSION	07-21-11-26	.20	.50	.00	.80	50.00	50.00
2016-22-V	29-AUG-16	Tundra	TANK/OVERFLOW	MECH FAILURE	11-10-09-28	.00	20.00	.00	19.00	742.00	.00
2016-23-V	27-SEP-16	Corex Res	FLOWLINE	CORROSION/INTERNAL	12-22-11-26	.00	5.00	.00	3.00	3294.00	3294.00
2016-24-V	06-OCT-16	Tundra	FLOWLINE RISER	HUMAN ERROR	04-12-08-29	.00	1.00	.00	.90	150.00	.00
2016-25-V	11-OCT-16	Cres Pt Ener	FLOWLINE BREAK	FARMER HIT LINE	01-21-11-29	.80	3.20	.00	3.50	2270.00	2270.00
2016-26-V	13-OCT-16	Corex Res	WELLHEAD CASING FLANGE	MECH FAILURE	11-24-11-26	1.00	.00	.00	1.25	875.00	.00
2016-27-V	25-OCT-16	Tundra	TESTTANK FLANGE HOLE	MECH FAILURE	01-21-09-28	.20	.80	.00	.90	110.00	.00
2016-28-V	30-OCT-16	Tundra	condensate pump failure	MECH FAILURE	13-16-09-28	.00	.00	1.00	.50	200.00	.00
2016-29-V	21-NOV-16	Seneca Pet	FLOWLINE	RUPTURE	15-10-10-26	.00	3.00	.00	34.00	32.00	32.00
2016-30-V	10-DEC-16	Tundra	BATTERY	MECHANICAL FAILURE	04-01-08-29	2.50	2.50	.00	4.80	415.00	415.00
2016-31-V	10-DEC-16	Kinwest 08	WELL FLOWLINE ABOVE GROUND	HOLE IN LINE/CORROSION	05-09-16-27	.00	.00	1.50	1.00	4.00	.00
2016-32-V	13-DEC-16	Corex Res	F-2365	CORROSION	06-28-09-25	.50	3.50	.00	4.00	300.00	.00
2016-33-V	20-DEC-16	Corex Res	HDR/PIGRECEIVER/CHECKVALVE	MECHFAILURE	08-28-11-26	1.00	9.00	.00	9.00	120.00	.00
2017-01-V	02-JAN-17	Corex Res	FLOWLINE/JOINT/HOLE	CORROSION	13-14-10-26	.50	1.00	.00	.00	900.00	900.00
2017-01-W	11-FEB-17	Tundra	TKS / TANK / VALVE	CORROSION	13B-25-02-28	.00	1.00	.00	.90	78.00	.00
2017-02-V	17-JAN-17	Tundra	SEPERATOR HOSE	MECHFAILURE	13-03-09-29	25.00	25.00	.00	49.50	3465.00	3465.00
2017-02-W	14-FEB-17	Tundra	WELL/FLOW TEE	CORROSION	10D-10-06-22	.50	2.50	.00	2.70	268.00	.00
2017-03-V	03-FEB-17	Tundra	HDR/INJ/GASKET	MECHFAILURE	04-09-08-28	.00	.00	.00	.90	29.00	.00
2017-03-W	03-MAR-17	Tundra	WELL/TBG SPOOL/STUFFING BOX	MECH FAILURE	07C-04-01-24	1.00	.00	.00	.95	742.00	742.00
2017-04-V	20-JAN-17	2928419 MB	TANK	TANK/OVERFLOW/HUMANERROR	16-17-11-26	.00	11.00	.00	11.00	100.00	.00
2017-04-W	24-MAR-17	Tundra	TKS/TANK/OVERFLOW	Human Error	09D-13-01-26	5.00	1.00	.00	5.90	1122.00	.00
2017-05-V	05-FEB-17	Corex Res	FLOWLINE/JOINT/HOLE	CORROSION/INTERNAL	09-04-12-26	3.60	38.40	.00	10.00	2000.00	2000.00
2017-05-W	03-APR-17	Tundra	FLOWLINE/LINE	MECH FAILURE/ BREAK AT FLANGE	14A-02-03-21	3.50	.30	.00	3.70	1540.00	.00
2017-06-V	03-FEB-17	Tundra	WELL/TANK/TEST	CORROSION	03-27-18-29	3.50	3.50	.00	7.00	120.00	.00
2017-06-W	07-JUN-17	Corval Energ	TKS/TST/HOLE	Corrosion	14D-05-03-28	.00	2.00	.00	1.99	5.00	.00
2017-07-V	23-FEB-17	Tundra	TRUCK	Human Error	03-04-08-29	1.00	.00	.00	.99	500.00	.00

MANITOBA SPILL REPORT

29-AUG-19

**29-AUG-14
TO
29-AUG-19**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2017-07-W	11-JUL-17	Tundra	WELL/TANK, EMUL/HOLE	CORROSION	05D-14-02-25	15.50	.00	.00	15.49	400.00	.00
2017-08-V	26-FEB-17	Corex Res	TANK	HUMAN ERROR	09-04-10-28	.00	3.00	.00	2.50	320.00	.00
2017-08-W	14-AUG-17	Tundra	FLOWLINE/LINE/HOLE	CORROSION	07-09-02-25	10.00	20.00	.00	30.00	.00	.00
2017-09-V	16-MAR-17	Tundra	TANK/VENTLINE/FROZE/CRACK	MECHFAILURE	09-06-10-29	.75	.75	.00	1.50	150.00	.00
2017-09-W	26-AUG-17	Tundra	FLOWLINE/LINE/LINE	HUMAN ERROR	12-04-02-25	2.50	2.50	.00	.50	169.00	.00
2017-10-V	14-MAR-17	Tundra	WELL	MECHFAILURE	14-25-16-28	1.30	1.70	.00	2.95	50.00	.00
2017-10-W	27-AUG-17	Tundra	TKS/TANK TST/OVERFLOW	MECH FAILURE	13-03-02-25	9.00	.00	.00	8.95	625.00	.00
2017-11-V	14-MAR-17	Paradise Pet	WELLHEAD VALVE	HUMAN ERROR	03-23-09-29	.45	.05	.00	.50	39.00	.00
2017-11-W	02-SEP-17	Tundra	SAT/LINE/HOLE	CORROSION	06-09-01-25	.25	.25	.00	.50	188.00	.00
2017-12-V	24-MAR-17	2928419 MB	WELL	Mechanical Failure	15-17-11-26	.00	.00	3.00	180.00	500.00	.00
2017-12-W	14-SEP-17	Tundra	FLOWLINE/LINE/HOLE	CORROSION	16-30-01-25	.50	19.50	.00	8.10	510.00	510.00
2017-13-V	28-MAR-17	Cres Pt Ener	header internal corrosion	Mechanical Failure	13-10-11-29	8.00	2.00	.00	8.00	11079.00	11079.00
2017-13-W	16-SEP-17	Cres Pt Ener	REC/LINE/HOLE	CORROSION	09-32-01-28	.00	.00	1.00	4.00	150.00	.00
2017-14-V	28-MAR-17	Corex Res	WELLHEAD NIPPLE LEAK	CORROSION/ INTERNAL	15-13-10-26	.50	1.50	.00	32.00	50.00	.00
2017-14-W	14-DEC-17	Tundra	FLOWLINE	CORROSION	13-23-01-25	.10	.90	.00	.95	22.00	.00
2017-15-V	04-APR-17	Corex Res	FLARE STACK	MECH FAILURE	12-33-08-28	1.50	.00	.00	3.00	350.00	100.00
2017-16-V	08-APR-17	Fox Tail	TRUCK	HUMAN ERROR	-34-09-28	.10	.00	.00	.10	40.00	.00
2017-17-V	14-APR-17	Corex Res	WELL/FITTING/HOLE	CORROSION/INTERNAL	07-15-11-26	.20	.80	.00	6.00	225.00	.00
2017-18-V	26-APR-17	Corex Res	WELL	Mechanical Failure	12-16-09-25	.50	4.50	.00	8.00	200.00	.00
2017-19-V	04-MAY-17	Tundra	Pig Receiver	Mechanical Failure	06-23-09-28	1.50	.50	.00	1.90	120.00	.00
2017-20-V	09-MAY-17	Corex Res	WELL	Mechanical Failure	11-25-09-29	.50	1.50	.00	.00	120.00	120.00
2017-21-V	01-JUN-17	Surge	WELLHEAD/NIPPLE HOLE	INTERNAL CORROSION	12-07-14-28	.24	5.76	.00	2.00	300.00	.00
2017-22-V	06-JUN-17	Tundra	WELLHEAD	PACKING FAILURE	04-29-09-29	.50	.50	.00	.99	80.00	.00
2017-23-V	27-JUN-17	Red River Oi	BAT/ESD VALVE/HOLE	CORROSION	08-16-07-29	.00	2.00	.00	1.80	10.00	.00
2017-24-V	28-JUN-17	Tundra	WELL/POLISH ROD/PACKING LEAK	MECH FAILURE	01-17-10-29	.50	.50	.00	.99	80.00	.00
2017-25-V	11-JUL-17	Tundra	TRUCK	TRUCK NOT EMPTY BEFORE TRANSP	13-14-09-28	.10	.00	.00	.09	.00	500.00
2017-26-V	18-JUL-17	Elcano Expl	WELL	CORROSION	15-03-13-27	1.00	2.00	.00	3.00	200.00	.00
2017-27-V	08-AUG-17	Prairie Ag	TRUCK/TANK/HOLE	MECHANICAL FAILURE	-18-10-29	.00	8.10	.00	8.00	.00	50.00
2017-28-V	28-AUG-17	Corex Res	WELL/RISER	CORROSION/EXTERNAL	05-03-12-26	.50	4.50	.00	5.00	125.00	.00
2017-29-V	07-SEP-17	Corex Res	TRUCK	HUMAN ERROR	02-04-12-26	.00	.00	.13	.00	350.00	50.00
2017-30-V	08-SEP-17	Tundra	FLOW/TEE/WELL	CORROSION	01-35-10-29	2.50	2.50	.00	4.95	130.00	.00
2017-31-V	13-SEP-17	Corex Res	WELL	CORROSION	06-04-12-26	.50	4.50	.00	5.00	75.00	.00
2017-33-V	27-SEP-17	Elcano Expl	FLOWLINE	FAILURE	01-16-13-27	5.00	195.00	.00	.00	7500.00	7500.00
2017-34-V	28-SEP-17	Cres Pt Ener	TANK	MECHANICAL FAILURE	01-23-11-29	1.00	22.00	.00	22.50	240.00	.00
2017-35-V	09-NOV-17	Corex Res	WELL/RISER/HOLE	CORROSION/EXTERNAL	08-14-11-26	.20	1.80	.00	2.00	320.00	300.00
2017-36-V	11-NOV-17	Tundra	WELL/TANK/OVERFLOW	FRAC/INCREASED PRODUCTION	02-22-08-28	24.00	76.00	.00	99.80	5000.00	5000.00
2017-37-V	13-DEC-17	Tundra	TEST TANK HOLE	CORROSION INTERNAL	04-08-13-28	2.00	2.00	.00	4.00	225.00	.00
2018-01-V	31-DEC-17	Elcano Expl	WELLHEAD/FLOWTEE/PAACKING	MECH FAILURE	08-20-12-27	.25	1.75	.00	1.50	10.00	.00

MANITOBA SPILL REPORT

29-AUG-19

**29-AUG-14
TO
29-AUG-19**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2018-01-W	06-JAN-18	Tundra	BAT/LINE/HOLE	CORROSION	15-21-01-25	.20	2.00	.00	2.10	50.00	.00
2018-02-V	10-FEB-18	Tundra	WELLHEAD/FRAC LINE	HUMAN ERROR	04-35-09-28	.00	.90	.10	.97	150.00	.00
2018-02-W	11-JAN-18	Tundra	WELL/TBG SPOOL/STUFFING BOX	MECH FAILURE	04C-03-02-25	.91	8.09	.00	8.91	685.00	.00
2018-03-V	14-FEB-18	Tundra	WELL/RISER/COLLAR	MECH FAILURE	10-14-10-29	.10	.90	.00	.99	200.00	.00
2018-03-W	30-JUN-18	Tundra	BAT/LINE/LINE	MECH FAILURE	08-33-01-24	4.40	.10	.00	4.50	200.00	.00
2018-04-W	06-OCT-18	Tundra	PIPELINE/HEADER/VALVE,DRAIN	HUMAN ERROR	15-21-01-25	1.00	.00	.00	.00	200.00	200.00
2018-05-V	01-MAR-18	Corex Res	FLOWLINE	MECHANICAL	01-31-09-28	1.50	6.50	.00	5.00	551.00	551.00
2018-05-W	22-OCT-18	Tundra	FLOWLINE/LINE/UNION	MECH. FAILURE	01-07-01-24	.10	.90	.00	.99	400.00	.00
2018-06-V	02-MAR-18	Cres Pt Ener	VALVE FROZE	MECHANICAL FAILURE	01-02-13-28	.01	7.90	.00	12.00	500.00	.00
2018-06-W	25-OCT-18	Tundra	TKS/TANK, EMUL	MECH FAILURE	04-01-02-25	.10	.90	.00	1.00	105.00	.00
2018-07-V	14-MAR-18	Corex Res	FLOWLINE	MECHANICAL FAILURE RUPTURE	02-09-10-28	5.00	15.00	.00	18.00	900.00	900.00
2018-07-W	29-OCT-18	Tundra	WELL/TBG/STUFFING BOX	MECH FAILURE	14-01-04-22	.45	.05	.00	.50	25.00	.00
2018-08-V	05-APR-18	Vermilion	WELL/FLOWTEE/NIPPLE	CORROSION/INTERNAL	14-17-07-29	.04	.96	.00	.95	125.00	.00
2018-08-W	09-NOV-18	Tundra	TKS/EMUL/HOLE	CORROSION	05-01-02-25	.05	.50	.00	.50	400.00	.00
2018-09-V	07-APR-18	Tundra	WELL/FLOWLINE/ELBOW	MECH FAILURE	09-28-07-29	1.00	.00	.00	.99	175.00	.00
2018-09-W	09-NOV-18	Tundra	WELL/TBG SPOOL/VALVE	CORROSION	10-24-04-22	1.35	.15	.00	1.49	130.00	.00
2018-10-V	20-APR-18	Tundra	OIL TANK HOLE	CORROSION/INTERNAL	13-29-11-26	3.20	.00	.00	3.00	70.00	.00
2018-10-W	06-DEC-18	CNRL	FLOWLINE/JOINT/HOLE	MECH FAILURE	06-17-02-29	.25	.75	.00	.00	55.00	.00
2018-11-V	21-MAY-18	TORC	INSPECTION LINE RISER HOLE	MECH FAILURE	02-29-13-28	.25	4.75	.00	4.00	60.00	.00
2018-11-W	08-DEC-18	Tundra	WELL/RISER/UNION (HAMMER CAP)	HUMAN ERROR	02-04-01-24	.20	.20	.00	.39	700.00	700.00
2018-12-V	23-MAY-18	Corex Res	FLOWLINE/JOINT/HOLE	CORROSION	07-24-10-28	2.80	.20	.00	2.50	165.00	165.00
2018-12-W	12-DEC-18	Tundra	FLOWLINE/LINE	CORROSION	02-09-02-25	.00	3.00	.00	2.99	400.00	400.00
2018-13-V	28-MAY-18	Cres Pt Ener	WELL/HDR/CHECK VALVE	CORROSION	09-09-11-29	5.30	.20	.00	5.00	370.00	350.00
2018-13-W	15-DEC-18	CNRL	FLOWLINE/LINE/HOLE	MECHANICAL FAILURE	14-09-02-29	.00	3.50	.00	3.00	150.00	.00
2018-14-V	13-JUN-18	Corex Res	Disposal Shack/Fitting/Corrosi	Internal Corrosion	15-25-09-29	.00	1.50	.00	1.50	240.00	.00
2018-15-V	02-JUL-18	Fire Sky	FLOWLINE/HOLE	Mech Failure	12-24-12-27	2.00	33.00	.00	21.00	1267.00	1267.00
2018-16-V	26-JUL-18	Tundra	TANK DOOR	TANK DOOR FAILURE	03-03-11-28	1.10	6.40	.00	7.50	70.00	50.00
2018-17-V	01-AUG-18	Corex Res	WELL/FLOWLINE/JOINT	CORROSION	03-11-11-26	.70	1.30	.00	2.00	300.00	300.00
2018-18-V	18-AUG-18	Corex Res	WELL	CORROSION	14-11-10-26	.00	10.00	.00	9.00	40.00	.00
2018-19-V	21-AUG-18	Elcano Expl	WELL/JOIN/HOLE	PIPE FAILURE	03-34-12-27	.00	8.00	.00	4.50	5.57	.00
2018-20-V	29-AUG-18	TORC	FLOWLINE/RISER/HOLE	CORROSION INTERNAL	09-09-11-29	.12	5.88	.00	6.00	200.00	.00
2018-21-V	01-SEP-18	TORC	FLOWLINE	CORROSION	01-02-13-28	2.80	1.20	.00	4.00	64.00	.00
2018-22-V	06-SEP-18	Elcano Expl	WELL/TESTER/HOSE	MECH FAILURE/FAULTY HOSE	14-15-13-27	.03	2.97	.00	.00	200.00	.00
2018-23-V	11-SEP-18	Tundra	Flowline Hole	Mech Failure	11-25-09-28	.00	.00	2.00	1.50	4.00	4.00
2018-24-V	12-SEP-18	Tundra	Hydration Unit/Mech Failure	Mech Failure	09-26-09-28	.00	.00	.50	.50	30.00	.00
2018-25-V	12-SEP-18	Tundra	FLOWLINE		11-36-09-28	.00	.00	5.00	4.50	.00	.00
2018-27-V	29-SEP-18	Tundra	Well/Dragon Tank/Overflow	Human Error	08-25-09-29	.00	1.00	.00	2.00	16.00	.00
2018-28-V	02-OCT-18	Tundra	Battery Recycle Line	Rubber Gasket	13-14-08-29	2.40	.60	.00	2.90	350.00	350.00

MANITOBA SPILL REPORT

29-AUG-19

**29-AUG-14
TO
29-AUG-19**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2018-29-V	18-OCT-18	Corex Res	Piping/Join/Hole	Internal Corrosion	15-25-09-29	.10	.40	.00	.50	40.00	.00
2018-30-V	22-OCT-18	Corex Res	Dragon Tank Overflow	Human Error	04-03-10-28	.00	2.00	.00	.00	54.53	54.53
2018-31-V	03-NOV-18	Tundra	Wellhead Hammer Union	Mechanical Failure	11-04-08-28	.50	1.50	.00	1.99	208.00	.00
2018-32-V	07-NOV-18	TORC	TANK TRUCK OVERFLOW	Human Error	13-29-13-28	.00	.00	.00	.00	200.00	.00
2018-33-V	14-NOV-18	TORC	TRUCK	Human Error/TRUCK OVERFLOW	16-04-13-28	10.00	.00	.00	3.00	976.00	.00
2018-34-V	16-NOV-18	Tundra	TRUCK	Human Error/TRUCK OVERFLOW	04-01-08-29	.00	1.00	.00	.99	420.00	.00
2018-35-V	19-NOV-18	TORC	Flowline/Hole	Mech Failure	02-29-13-28	.00	.00	.00	97.50	748.00	.00
2018-36-V	19-NOV-18	Tundra	TANK TRUCK OVERFLOW	Human Error	04-01-08-29	.00	.50	.00	.49	150.00	.00
2018-37-V	20-NOV-18	Unknown/NA	Unknown	Unknown	13-32-09-29	.00	.20	.05	.56	10.00	.00
2018-38-V	22-NOV-18	Tundra	Overfill Tank Fracing	Human Error	08-17-10-28	.00	.50	.00	.49	215.00	.00
2018-39-V	26-NOV-18	Tundra	TANK	CORROSION	10-28-10-28	.00	15.00	.00	14.95	133.00	.00
2018-40-V	07-DEC-18	TEML	Pipeline	Unknown	10-16-11-26	.00	.00	.00	.00	.00	.00
2018-41-V	13-DEC-18	Elcano Expl	BAT/TANK/OVERFLOW	MECH FAILURE/PLC	03-34-12-27	60.00	.00	.00	60.00	800.00	.00
2018-42-V	12-DEC-18	Imperial	Waste Line	Mech Failure	02-08-01-01	.00	.00	12.00	10.00	100.00	.00
2019-01-V	06-JAN-19	Corex Res	HDR/Flowline/Hole	Corrosion	12-22-11-26	.50	1.50	.00	1.50	70.00	.00
2019-01-W	02-JAN-19	Tundra	TRUCK/TANK/OVERFLOW	HUMAN ERROR	15-21-01-25	.00	1.00	.00	.99	20.00	20.00
2019-02-V	06-JAN-19	Elcano Expl	Disposal Pump/Piping Hole	Corrosion/internal	03-34-12-27	.00	3.00	.00	2.00	60.00	.00
2019-02-W	09-JAN-19	CNRL	WELL/FLOW TEE	OTHER - WILDLIFE	08-15-02-29	2.00	4.00	.00	5.50	518.00	.00
2019-03-V	20-JAN-19	Elcano Expl	Injection Line	Mechanical Failure/Hole	14-27-12-27	.00	20.00	.00	12.00	652.00	652.00
2019-03-W	20-JAN-19	Tundra	TKS/TANK/RIG/HOSE	HUMAN ERROR	16-31-01-25	.00	4.00	.00	3.99	120.00	120.00
2019-04-V	24-JAN-19	Corex Res	Vac Truck Valve	Human Error	07-28-09-25	.00	.00	.32	.00	100.00	100.00
2019-04-W	22-JAN-19	Tundra	SAT/HEADER/UNION(CAP ON PIGTRA	HUMAN ERROR	07-31-01-28	1.25	1.25	.00	2.49	225.00	.00
2019-05-V	09-FEB-19	Corex Res	Well/Stuffingbox/Packing	Mech Failure	12-06-11-26	.75	1.00	.00	1.75	85.00	.00
2019-05-W	01-FEB-19	CNRL	WELL/LINE/UNION	MECH FAILURE	01-30-02-29	.00	17.00	.00	15.00	1696.00	.00
2019-06-V	13-FEB-19	Elcano Expl	Well Head Piping	Corrosion Internal	13-22-12-27	.10	4.90	.00	3.00	210.00	.00
2019-06-W	19-MAY-19	Tundra	WELL/CASING BOWL/ROD LINER	MECH FAILURE	02-27-01-25	.75	.25	.00	.99	60.00	.00
2019-07-V	22-FEB-19	Tundra	Flowline/Joint/Hole	Mech Failure/Frozen Line	06-27-08-29	.18	.33	.00	.45	155.00	155.00
2019-07-W	23-MAY-19	Tundra	BAT/LINE/LINE	CORROSION	11-30-01-25	1.00	.00	.00	.90	100.00	.00
2019-08-V	24-FEB-19	Tundra	Above Ground Flowline	Mech Failure	12-26-18-29	2.00	8.00	.00	9.99	235.00	.00
2019-08-W	18-MAY-19	1576062 AB	WELL	CORROSION	05-08-06-28	2.50	.00	.00	2.50	.00	.00
2019-09-V	04-MAR-19	Tundra	Moyno Pump	Mech Failure	05-09-08-29	2.00	25.00	.00	26.73	1700.00	1700.00
2019-09-W	19-JUN-19	CNRL	BAT/TANK/OVERFLOW	MECH FAILURE	14-09-02-29	.00	5.00	.00	4.50	210.00	.00
2019-10-V	05-MAR-19	Elcano Expl	WELLHEAD	Mech Failure/Frozen Up	08-30-12-26	.10	.39	.00	3.50	14.86	.00
2019-10-W	26-JUN-19	Tundra	BATT/PUMP/LINE (DISCHARGE)	HUMAN ERROR	16-10-01-24	.00	.50	.00	.50	180.00	.00
2019-11-V	19-MAR-19	Corex Res	WELL	Valve Flowline	03-26-11-26	2.00	1.00	.00	4.50	400.00	.00
2019-12-V	21-MAR-19	BCX	WELL/VALVE	MECH FAILURE/CRACKED VALVE	02-23-09-26	4.00	.00	.00	.00	20.00	.00
2019-14-V	21-APR-19	Corex Res	WELL/TANK/HOLE	CORROSION	01-25-16-28	.00	2.50	.00	2.50	100.00	.00
2019-16-V	02-JUN-19	Flushing Ene	TANK	Corrosion	01-15-13-27	2.00	13.00	.00	15.00	.00	.00

MANITOBA SPILL REPORT

29-AUG-19

**29-AUG-14
TO
29-AUG-19**

Spill No	Spill Date	Company	Spill Source	Spill Cause	Location	Oil Volume m3	SW Volume m3	Other Volume m3	Recovered m3	Total Area m2	Off Lease m2
2019-18-V	17-JUN-19	Corex Res	Wellhead Flow Tee	Human Error	16-13-10-26	.50	4.50	.00	6.00	249.00	.00
2019-19-V	12-JUL-19	Corval Energ	TEST TANK HOLE	INTERNAL CORROSION	12-22-08-28	5.05	24.45	.00	28.50	1200.00	.00
2019-20-V	22-JUL-19	Corex Res	BAT/TANK/LOAD BOX	Human Error	04-22-11-26	.25	.85	.00	.60	285.00	.00
Total:	269					593.09	2224.78	52.73	8733.29	184896.65	127184.03