



Insider Trading Summary

* This summary starts with each insider's opening balance as of July 1, 2010, or the effective date in which the individual became an insider. Balance includes shares held by individual directly, or indirectly, or by entities which he or she controls, unless otherwise noted.

* All data is provided to the corporation by the individual insider. The insider is responsible to provide the data to the corporation within two days following the transaction.

Name	Position	Transaction Detail							Opening Balance (shares)	Closing Balance (shares)
		Date	Trade Type	Ownership Type	Comment	Number of Shares	Price per share	Value		
Don Gray	Chairman	01-Jul-10		Direct/Indirect	Opening Balance				-	2,101,840
Don Gray	Chairman	09-Jul-10	Buy	Direct/Indirect	Private Placement	666,666	\$ 3.75	\$ 2,499,998	2,101,840	2,768,506
Don Gray	Chairman	04-Sep-13	Buy	Direct/Indirect	Grey Market	30,000	\$ 2.20	\$ 66,000	2,768,506	2,798,506
Don Gray	Chairman	13-Sep-13	Buy	Direct/Indirect	Grey Market	50,000	\$ 2.50	\$ 125,000	2,798,506	2,848,506
Don Gray	Chairman	19-Sep-13	Buy	Direct/Indirect	Grey Market	100,000	\$ 2.50	\$ 250,000	2,848,506	2,948,506
Don Gray	Chairman	08-Oct-13	Buy	Direct/Indirect	Grey Market	33,333	\$ 2.65	\$ 88,332	2,948,506	2,981,839
Don Gray	Chairman	10-Oct-13	Buy	Direct/Indirect	Grey Market	100,000	\$ 2.75	\$ 275,000	2,981,839	3,081,839
Don Gray	Chairman	20-Nov-13	Buy	Direct/Indirect	Market	100,000	\$ 2.59	\$ 258,920	3,081,839	3,181,839
Don Gray	Chairman	21-Nov-13	Buy	Direct/Indirect	Market	48,100	\$ 2.69	\$ 129,389	3,181,839	3,229,939
Don Gray	Chairman	25-Nov-13	Buy	Direct/Indirect	Market	50,000	\$ 3.00	\$ 150,000	3,229,939	3,279,939
Don Gray	Chairman	29-Nov-13	Buy	Direct/Indirect	Market	50,000	\$ 3.21	\$ 160,500	3,279,939	3,329,939
Don Gray	Chairman	16-Jun-14	Sell	Direct/Indirect	Market	200,000	\$ 5.50	\$ 1,100,000	3,329,939	3,129,939
Don Gray	Chairman	19-Aug-14	Sell	Direct/Indirect	Market	200,000	\$ 5.30	\$ 1,059,220	3,129,939	2,929,939
Don Gray	Chairman	02-Oct-14	Buy	Direct/Indirect	Market	30,000	\$ 4.35	\$ 130,500	2,929,939	2,959,939
Don Gray	Chairman	07-Oct-14	Buy	Direct/Indirect	Market	30,000	\$ 4.46	\$ 133,773	2,959,939	2,989,939
Don Gray	Chairman	05-Dec-14	Buy	Direct/Indirect	Market	26,500	\$ 2.76	\$ 73,140	2,989,939	3,016,439
Don Gray	Chairman	12-Dec-14	Buy	Direct/Indirect	Market	29,800	\$ 2.04	\$ 60,792	3,016,439	3,046,239
Don Gray	Chairman	30-Nov-15	Buy	Direct/Indirect	Bought Deal	533,334	\$ 0.75	\$ 400,001	3,046,239	3,579,573
Don Gray	Chairman	17-Dec-15	Sell	Direct/Indirect	Market	325,422	\$ 0.485	\$ 157,830	3,579,573	3,254,151
Don Gray	Chairman	17-Dec-15	Buy	Direct/Indirect	Market	325,422	\$ 0.485	\$ 157,830	3,254,151	3,579,573
Don Gray	Chairman	29-Jun-16	Buy	Direct/Indirect	Bought Deal	714,286	\$ 0.70	\$ 500,000	3,579,573	4,293,859
Don Gray	Chairman	29-Aug-16	Transfer	Indirect	Fund Transfer	939,277	\$ 0.71	\$ 666,887	4,293,859	3,354,582
Don Gray	Chairman	02-Sep-16	Sell	Indirect	Market	37,657	\$ 0.71	\$ 26,736	3,354,582	3,316,925
Don Gray	Chairman	01-Dec-16	Buy	Direct	Private Purchase	42,845	\$ 0.82	\$ 35,133	3,316,925	3,359,770
Don Gray	Chairman	02-Dec-16	Transfer	Indirect	Fund Transfer	1,012,816	\$ 0.84	\$ 850,765	3,359,770	2,346,954
Don Gray	Chairman	02-Dec-16	Buy	Indirect	Fund Transfer	1,907,046	\$ 0.84	\$ 1,601,919	2,346,954	4,254,000
Don Gray	Chairman	02-Dec-16	Buy	Direct	Fund Transfer	142,723	\$ 0.84	\$ 119,887	4,254,000	4,396,723
Don Gray	Chairman	28-Jun-17	Buy	Direct	Market	91,000	\$ 0.70	\$ 63,700	4,396,723	4,487,723
Don Gray	Chairman	11-Aug-17	Buy	Direct	Market	200,000	\$ 0.74	\$ 148,000	4,487,723	4,687,723
Don Gray	Chairman	06-Sep-17	Buy	Direct	Market	200,000	\$ 0.74	\$ 148,000	4,687,723	4,887,723
Don Gray	Chairman	07-Sep-17	Buy	Direct	Market	113,000	\$ 0.71	\$ 80,230	4,887,723	5,000,723
Don Gray	Chairman	08-Sep-17	Buy	Direct	Market	87,000	\$ 0.71	\$ 61,770	5,000,723	5,087,723
Don Gray	Chairman	27-Sep-17	Buy	Direct	Option Purchase	35,929	\$ 0.71	\$ 25,510	5,087,723	5,123,652
Don Gray	Chairman	15-Dec-17	Buy	Direct	Market	350,000	\$ 0.82	\$ 287,000	5,123,652	5,473,652
Don Gray	Chairman	12-Jan-18	Buy	Direct	Market	400,000	\$ 0.99	\$ 396,000	5,473,652	5,873,652
Don Gray	Chairman	16-May-18	Buy	Direct	Market	355,400	\$ 1.10	\$ 390,940	5,873,652	6,229,052
Don Gray	Chairman	25-May-18	Buy	Direct	Market	132,300	\$ 1.07	\$ 141,561	6,229,052	6,361,352
Don Gray	Chairman	23-Aug-18	Buy	Direct	Option Purchase	35,929	\$ 0.71	\$ 25,510	6,361,352	6,397,281
Don Gray	Chairman	23-Aug-18	Buy	Direct	Option Purchase	53,000	\$ 0.69	\$ 36,570	6,397,281	6,450,281
Ingram Gillmore	President & CEO	01-Jul-10		Direct	Opening Balance				400,000	400,000
Ingram Gillmore	President & CEO	29-Mar-11	Buy	Direct	Grey Market	25,000	\$ 3.00	\$ 75,000	400,000	425,000
Ingram Gillmore	President & CEO	13-Apr-12	Buy	Direct	Award	35,000	\$ 2.50	\$ 87,500	425,000	460,000
Ingram Gillmore	President & CEO	01-Apr-13	Buy	Direct	Award	16,000	\$ 2.50	\$ 40,000	460,000	476,000
Ingram Gillmore	President & CEO	20-Nov-13	Buy	Direct	Market	24,000	\$ 2.60	\$ 62,400	476,000	500,000
Ingram Gillmore	President & CEO	03-Oct-14	Buy	Direct	Market	45,000	\$ 4.48	\$ 201,447	500,000	545,000
Ingram Gillmore	President & CEO	19-Mar-15	Buy	Direct	Market	16,055	\$ 1.65	\$ 26,491	545,000	561,055
Ingram Gillmore	President & CEO	13-Aug-15	Buy	Direct	Market	9,000	\$ 1.33	\$ 11,970	561,055	570,055
Ingram Gillmore	President & CEO	20-Aug-15	Buy	Direct	Market	10,000	\$ 0.99	\$ 9,947	570,055	580,055
Ingram Gillmore	President & CEO	30-Nov-15	Buy	Direct	Bought Deal	180,000	\$ 0.75	\$ 135,000	580,055	760,055
Ingram Gillmore	President & CEO	09-Dec-15	Buy	Direct	Market	81,500	\$ 0.50	\$ 40,750	760,055	841,555
Ingram Gillmore	President & CEO	29-Jun-16	Buy	Direct	Bought Deal	107,143	\$ 0.70	\$ 75,000	841,555	948,698
Ingram Gillmore	President & CEO	26-Sep-16	Buy	Direct	Market	97,000	\$ 0.70	\$ 67,900	948,698	1,045,698
Ingram Gillmore	President & CEO	26-May-17	Buy	Direct	Market	22,500	\$ 0.78	\$ 17,550	1,045,698	1,068,198
Ingram Gillmore	President & CEO	29-May-17	Buy	Direct	Market	31,802	\$ 0.78	\$ 24,806	1,068,198	1,100,000
Ingram Gillmore	President & CEO	20-Jun-17	Buy	Direct	Market	91,500	\$ 0.62	\$ 56,730	1,100,000	1,191,500
Ingram Gillmore	President & CEO	24-Nov-17	Buy	Direct	Market	8,500	\$ 0.80	\$ 6,800	1,191,500	1,200,000
Ingram Gillmore	President & CEO	27-Sep-18	Buy	Direct	Option Purchase	86,752	\$ 1.17	\$ 101,500	1,200,000	1,286,752
Ingram Gillmore	President & CEO	27-Sep-18	Buy	Direct	Option Purchase	30,552	\$ 1.17	\$ 35,746	1,286,752	1,317,304
Ray Cej	Director	02-Apr-13	Buy	Direct	Grey Market	10,000	\$ 2.50	\$ 25,000	-	10,000
Ray Cej	Director	29-Jun-16	Buy	Direct	Bought Deal	50,000	\$ 0.70	\$ 35,000	10,000	60,000
Ray Cej	Director	23-Aug-18	Buy	Direct	Option Purchase	9,029	\$ 1.18	\$ 10,654	60,000	69,029
Ray Cej	Director	23-Aug-18	Buy	Direct	Option Purchase	11,093	\$ 1.18	\$ 13,090	69,029	80,122
Harry English	Director	05-Jun-14	Buy	Direct	Market	10,000	\$ 5.33	\$ 53,300	-	10,000
Harry English	Director	30-Nov-15	Buy	Direct	Bought Deal	33,334	\$ 0.75	\$ 25,001	10,000	43,334
Harry English	Director	23-Aug-18	Buy	Direct	Option Purchase	9,007	\$ 1.18	\$ 10,628	43,334	52,341
Harry English	Director	23-Aug-18	Buy	Direct	Option Purchase	11,067	\$ 1.18	\$ 13,059	52,341	63,400

Name	Position	Transaction Detail							Opening Balance (shares)	Closing Balance (shares)
		Date	Trade Type	Ownership Type	Comment	Number of Shares	Price per share	Value		
John O'Connell ⁽¹⁾	Director	23-Aug-18	Buy	Direct	Option Purchase	75,000	\$ 0.71	\$ 53,250	12,967,131	13,042,131
John O'Connell ⁽¹⁾	Director	23-Aug-18	Buy	Direct	Option Purchase	50,000	\$ 0.69	\$ 34,500	13,042,131	13,092,131
John O'Connell ⁽¹⁾	Director	19-Sep-18	Buy	Direct	Buy	80,000	\$ 1.14	\$ 91,408	13,092,131	13,172,131
John O'Connell ⁽¹⁾	Director	28-Sep-18	Buy	Direct	Buy	80	\$ 1.18	\$ 94	13,172,131	13,172,211
Kevin Olson ⁽²⁾	Director	27-Jul-16		Direct/Indirect	Opening Balance				-	8,438,260
Kevin Olson ⁽²⁾	Director	16-May-18	Sell	Direct/Indirect	Market	1,500,000	\$ 1.10	\$ 1,650,750	8,438,260	6,938,260
Kevin Olson ⁽²⁾	Director	24-May-18	Sell	Direct/Indirect	Market	500,000	\$ 1.22	\$ 610,000	6,938,260	6,438,260
Kevin Olson ⁽²⁾	Director	23-Aug-18	Buy	Direct	Option Purchase	75,000	\$ 0.71	\$ 53,250	6,438,260	6,513,260
Kevin Olson ⁽²⁾	Director	23-Aug-18	Buy	Direct	Option Purchase	50,000	\$ 0.69	\$ 34,500	6,513,260	6,563,260
David Hwang	VP Finance & CFO	13-Jun-11	Buy	Direct	Grey Market	68,200	\$ 3.15	\$ 214,830	-	68,200
David Hwang	VP Finance & CFO	23-Dec-11	Buy	Direct	Grey Market	31,800	\$ 2.50	\$ 79,500	68,200	100,000
David Hwang	VP Finance & CFO	13-Apr-12	Buy	Direct	Award	16,650	\$ 2.50	\$ 41,625	100,000	116,650
David Hwang	VP Finance & CFO	01-Apr-13	Buy	Direct	Award	15,750	\$ 2.50	\$ 39,375	116,650	132,400
David Hwang	VP Finance & CFO	20-Nov-13	Buy	Direct	Market	19,400	\$ 2.59	\$ 50,246	132,400	151,800
David Hwang	VP Finance & CFO	16-May-14	Buy	Direct	Market	7,000	\$ 5.03	\$ 35,210	151,800	158,800
David Hwang	VP Finance & CFO	10-Jun-14	Buy	Direct	Option Purchase	100,500	\$ 2.50	\$ 251,250	158,800	259,300
David Hwang	VP Finance & CFO	02-Jun-15	Buy	Direct	Market	12,000	\$ 2.12	\$ 25,440	259,300	271,300
David Hwang	VP Finance & CFO	03-Jun-15	Buy	Direct	Market	12,000	\$ 2.10	\$ 25,154	271,300	283,300
David Hwang	VP Finance & CFO	30-Nov-15	Buy	Direct	Bought Deal	400,000	\$ 0.75	\$ 300,000	283,300	683,300
David Hwang	VP Finance & CFO	29-Jun-16	Buy	Direct	Bought Deal	171,429	\$ 0.70	\$ 120,000	683,300	854,729
David Hwang	VP Finance & CFO	29-Sep-17	Buy	Direct	Option Purchase	184,000	\$ 0.71	\$ 130,640	854,729	1,038,729
David Hwang	VP Finance & CFO	07-Dec-17	Sell	Direct	Option Purchase	84,000	\$ 0.81	\$ 68,166	1,038,729	954,729
David Hwang	VP Finance & CFO	01-Oct-18	Buy	Direct	Option Purchase	62,553	\$ 1.20	\$ 75,064	954,729	1,017,282
David Hwang	VP Finance & CFO	01-Oct-18	Buy	Direct	Option Purchase	23,353	\$ 1.20	\$ 28,024	1,017,282	1,040,635
Yvan Chretien	VP Land	15-Sep-10	Buy	Direct	Private Placement	15,000	\$ 3.75	\$ 56,250	-	15,000
Yvan Chretien	VP Land	23-Dec-11	Buy	Direct	Grey Market	12,000	\$ 2.50	\$ 30,000	15,000	27,000
Yvan Chretien	VP Land	13-Apr-12	Buy	Direct	Award	25,875	\$ 2.50	\$ 64,688	27,000	52,875
Yvan Chretien	VP Land	13-Apr-12	Buy	Direct	Option Purchase	100,500	\$ 2.50	\$ 251,250	52,875	153,375
Yvan Chretien	VP Land	29-Jun-16	Buy	Direct	Bought Deal	96,626	\$ 0.70	\$ 67,638	153,375	250,001
Yvan Chretien	VP Land	28-Sep-18	Buy	Direct	Option Purchase	52,737	\$ 1.17	\$ 61,702	250,001	302,738
Yvan Chretien	VP Land	05-Oct-18	Buy	Direct	Option Purchase	15,995	\$ 1.13	\$ 18,074	302,738	318,733
Jason Kaluski	VP Operations	10-Mar-11	Buy	Direct	Private Placement	11,000	\$ 3.75	\$ 41,250	-	11,000
Jason Kaluski	VP Operations	13-Jun-11	Buy	Direct	Grey Market	10,000	\$ 3.15	\$ 31,500	11,000	21,000
Jason Kaluski	VP Operations	13-Apr-12	Buy	Direct	Award	23,400	\$ 2.50	\$ 58,500	21,000	44,400
Jason Kaluski	VP Operations	01-Apr-13	Buy	Direct	Award	11,050	\$ 2.50	\$ 27,625	44,400	55,450
Jason Kaluski	VP Operations	21-Nov-13	Buy	Direct	Market	6,800	\$ 2.61	\$ 17,748	55,450	62,250
Jason Kaluski	VP Operations	28-May-14	Buy	Direct	Option Purchase	18,000	\$ 2.50	\$ 45,000	62,250	80,250
Jason Kaluski	VP Operations	12-Sep-14	Buy	Direct	Market	5,000	\$ 5.02	\$ 25,100	80,250	85,250
Jason Kaluski	VP Operations	08-Oct-14	Buy	Direct	Market	5,000	\$ 4.29	\$ 21,450	85,250	90,250
Jason Kaluski	VP Operations	19-Aug-15	Buy	Direct	Market	2,660	\$ 1.00	\$ 2,649	90,250	92,910
Jason Kaluski	VP Operations	30-Nov-15	Buy	Direct	Bought Deal	33,000	\$ 0.75	\$ 24,750	92,910	125,910
Jason Kaluski	VP Operations	29-Jun-16	Buy	Direct	Bought Deal	42,858	\$ 0.70	\$ 30,001	125,910	168,768
Jason Kaluski	VP Operations	03-Mar-17	Buy	Direct	Market	5,215	\$ 0.92	\$ 4,798	168,768	173,983
Jason Kaluski	VP Operations	01-Jun-17	Buy	Direct	Market	6,300	\$ 0.77	\$ 4,851	173,983	180,283
Jason Kaluski	VP Operations	28-Sep-18	Buy	Direct	Option Purchase	54,488	\$ 1.17	\$ 63,751	180,283	234,771
Bryan Dozzi	VP Engineering	19-Aug-15	Buy	Direct	Market	20,000	\$ 1.00	\$ 20,000	-	20,000
Bryan Dozzi	VP Engineering	30-Nov-15	Buy	Direct	Bought Deal	66,667	\$ 0.75	\$ 50,000	20,000	86,667
Bryan Dozzi	VP Engineering	29-Jun-16	Buy	Direct	Bought Deal	42,858	\$ 0.70	\$ 30,001	86,667	129,525
Bryan Dozzi	VP Engineering	16-Dec-16	Buy	Direct	Market	45,000	\$ 0.92	\$ 41,400	129,525	174,525
Bryan Dozzi	VP Engineering	27-Sep-18	Buy	Direct	Option Purchase	32,838	\$ 1.17	\$ 38,420	174,525	207,363
Bryan Dozzi	VP Engineering	28-Sep-18	Buy	Direct	Option Purchase	20,688	\$ 1.17	\$ 24,205	207,363	228,051
Bryan Dozzi	VP Engineering	05-Oct-18	Buy	Direct	Option Purchase	17,237	\$ 1.13	\$ 19,478	228,051	245,288
Dustin Ressler	VP Exploration	09-Nov-16		Direct	Opening Balance	42,429			-	42,429
Dustin Ressler	VP Exploration	27-Sep-18	Buy	Direct	Option Purchase	27,398	\$ 1.17	\$ 32,056	42,429	69,827

Notes

(1) This total includes 750 shares held by Solutions Investment Management Inc. which is controlled directly by Mr. O'Connell. The remaining Common Shares are held by entities affiliated with Davis-Rea Ltd., an investment firm which is controlled or directed, directly or indirectly by Mr. O'Connell.

(2) This total includes 4,934,360 Common Shares held by entities affiliated with Kyklopes Capital Management Ltd. an investment firm which is controlled or directed, directly or indirectly by Mr. Olson. The remaining Common Shares are controlled directly or indirectly by Mr. Olson.