

**TABLE S18: NM8A (no CA) LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY**

#	<u>Composition</u>										<u>Ages</u>							
	Zircon	U	206Pb/	U/Th	206Pb/ 1 $\sigma$	207Pb/ 1 $\sigma$	206Pb/ 1 $\sigma$	Error			206Pb/	1 $\sigma$	207Pb/ 1 $\sigma$	206Pb/ 1 $\sigma$	%			
		(ppm)	204Pb		207Pb (%)	235U (%)	238U (%)	Corr.			238U	(Ma)	235U	(Ma)	207Pb	(Ma)	Disc.	
<b>Run 1</b>																		
Spot 1	669	29964.4	5.3	15.2	0.9	0.7	2.1	0.1	1.9	0.910491342	474.0	8.8	531.9	8.8	788.7	18.5	39.9	
Spot 2	259	58210.4	1.8	17.0	1.2	0.7	2.0	0.1	1.5	0.778781167	506.9	7.5	516.6	8.0	560.0	26.9	9.5	
Spot 3	448	5788.9	3.5	19.5	3.1	0.1	4.3	0.0	1.7	0.388083183	92.9	1.5	95.0	3.9	147.5	92.9	37.0	
Spot 6	568	50161.6	4.5	12.5	1.1	2.0	2.2	0.2	1.9	0.857266561	1099.1	18.8	1130.0	14.8	1189.9	22.0	7.6	
Spot 7	908	80811.8	15.8	12.4	0.7	2.2	1.3	0.2	1.1	0.833450915	1173.5	11.4	1188.9	9.0	1217.0	13.9	3.6	
Spot 8	267	4861.0	1.9	18.8	1.7	0.3	4.1	0.0	2.2	0.541319173	248.0	5.4	244.1	9.0	206.4	80.5	-20.2	
Spot 9	103	86535.5	3.5	14.3	1.1	1.4	2.1	0.1	1.7	0.835781649	877.4	14.1	894.2	12.2	935.9	23.1	6.2	
Spot 10	275	27735.2	1.7	19.1	1.1	0.3	1.8	0.0	1.4	0.767571523	263.9	3.5	267.1	4.1	294.8	25.8	10.5	
Spot 11	266	80115.1	3.0	11.1	0.7	2.8	1.5	0.2	1.3	0.862400444	1312.3	14.9	1363.3	10.9	1444.3	14.0	9.1	
Spot 12	71	16460.0	2.7	12.3	1.5	2.2	2.0	0.2	1.3	0.651046674	1135.4	13.4	1166.4	13.7	1224.4	29.4	7.3	
Spot 13	755	240506.6	3.0	12.4	0.8	2.4	1.6	0.2	1.4	0.860778278	1233.3	15.7	1231.5	11.6	1228.3	16.2	-0.4	
Spot 15	279	85796.0	3.6	12.5	0.7	2.1	1.4	0.2	1.2	0.85830459	1108.1	12.1	1142.1	9.5	1207.3	14.0	8.2	
Spot 16	1377	63559.8	1.7	19.1	0.8	0.3	1.4	0.0	1.2	0.842411239	251.5	2.9	257.7	3.2	314.4	17.4	20.0	
Spot 17	421	54893.3	1.6	8.5	1.0	5.3	2.0	0.3	1.7	0.867931607	1796.9	26.7	1863.9	16.7	1939.4	17.4	7.3	
Spot 18	94	62192.5	3.6	12.3	0.9	2.1	1.5	0.2	1.2	0.806758304	1103.6	11.9	1148.3	10.0	1233.9	16.9	10.6	
Spot 19	818	16851.2	2.3	17.5	1.1	0.6	1.8	0.1	1.4	0.793988917	459.6	6.2	462.3	6.6	475.9	23.8	3.4	
Spot 20	606	18634.7	1.5	18.2	2.6	0.3	3.0	0.0	1.5	0.499282903	253.1	3.7	267.3	7.1	394.0	58.4	35.8	
Spot 22	139	3699.2	1.5	18.1	2.4	0.3	3.2	0.0	1.5	0.455761237	265.3	3.8	265.6	7.5	268.4	65.2	1.2	
Spot 23	273	8315082.4	5.3	12.8	0.8	2.0	1.7	0.2	1.5	0.893243874	1098.8	15.1	1120.0	11.4	1161.5	14.9	5.4	
Spot 24	561	134026.2	3.0	12.7	1.0	2.1	1.7	0.2	1.4	0.815324729	1127.1	14.3	1142.4	11.6	1171.5	19.5	3.8	
Spot 25	394	4462.7	1.5	18.9	0.9	0.3	1.6	0.1	1.3	0.798335804	319.4	4.0	304.6	4.2	192.6	22.3	-65.9	
Spot 26	463	38247.6	1.8	13.1	1.2	1.8	2.0	0.2	1.6	0.804810964	996.3	14.7	1031.7	12.9	1107.6	23.5	10.0	
Spot 27	656	115953.0	4.3	11.7	1.7	2.5	2.5	0.2	1.8	0.712153062	1233.2	19.8	1272.8	18.0	1340.4	33.6	8.0	
Spot 28	36	47380.2	2.8	13.7	2.4	1.5	3.8	0.2	3.0	0.780081914	901.8	25.0	938.7	23.4	1026.1	48.3	12.1	
Spot 29	720	54143.0	7.9	12.7	0.9	2.0	1.8	0.2	1.5	0.853818897	1071.1	15.0	1106.4	12.0	1176.6	18.4	9.0	
Spot 31	241	205727.3	3.7	14.3	0.8	1.4	1.4	0.1	1.1	0.817759922	890.3	9.4	905.3	8.3	941.9	16.4	5.5	
Spot 32	63	8536.9	3.7	13.9	1.3	1.6	2.7	0.2	2.4	0.87375435	1001.3	22.1	987.0	17.2	955.2	27.1	-4.8	
Spot 33	219	5239.7	4.0	16.8	1.5	0.4	3.3	0.1	2.6	0.79945272	344.3	8.8	365.1	10.1	499.6	43.4	31.1	
Spot 35	773	52883.8	3.9	13.1	0.8	1.7	1.4	0.2	1.2	0.843446736	959.1	10.8	1004.8	9.1	1105.8	15.4	13.3	
Spot 36	41	7488.7	1.5	12.5	2.1	2.1	3.4	0.2	2.6	0.772399783	1119.9	26.8	1138.3	23.1	1173.7	42.4	4.6	
Spot 37	390	11351.7	1.9	19.4	1.1	0.3	2.1	0.0	1.4	0.677309505	265.4	3.7	261.6	4.9	227.6	35.7	-16.6	
Spot 38	695	25122.8	1.6	19.8	1.4	0.3	3.0	0.0	2.6	0.882394403	272.1	7.0	265.5	7.0	207.9	32.6	-30.9	
Spot 39	84	14276.8	4.1	13.8	1.7	1.4	2.2	0.1	1.3	0.609172105	875.2	10.8	906.8	13.0	984.8	35.0	11.1	
Spot 40	268	23973.6	2.4	14.4	0.8	1.4	1.5	0.1	1.2	0.823693898	895.0	10.4	897.7	9.0	904.3	17.6	1.0	
Spot 42	460	1908802.1	5.1	13.9	0.8	1.6	1.9	0.2	1.7	0.894228536	945.8	14.7	962.4	11.6	1000.4	16.9	5.5	
Spot 44	1129	38903.5	10.8	19.2	1.2	0.3	1.7	0.0	1.2	0.70515509	263.4	3.0	266.2	3.9	291.3	26.8	9.6	
Spot 45	1260	139456.9	11.5	13.8	0.7	1.7	1.4	0.2	1.2	0.852780503	997.8	11.3	1003.8	9.1	1016.9	15.1	1.9	
Spot 46	1645	42108.2	15.6	11.3	0.6	2.4	1.8	0.2	1.7	0.934947634	1148.0	17.9	1238.1	13.0	1398.5	12.4	17.9	

Spot 48	271	23150.4	2.5	11.5	0.7	2.6	1.8	0.2	1.6	0.908840566	1248.2	18.3	1288.5	12.9	1356.3	14.3	8.0
Spot 49	192	29853.9	1.3	15.7	2.2	0.8	3.2	0.1	2.4	0.743906337	578.3	13.3	610.5	14.8	731.8	45.6	21.0
Spot 50	237	59680.6	9.2	10.4	0.7	3.3	1.8	0.2	1.7	0.920708413	1438.2	21.7	1484.2	14.3	1550.6	13.4	7.2
Spot 51	180	23420.2	3.2	13.5	1.2	1.7	2.0	0.2	1.6	0.803481115	1001.7	14.6	1011.5	12.5	1032.9	23.5	3.0
Spot 53	73	3285.7	3.2	13.2	1.3	1.7	2.0	0.2	1.5	0.758457323	1020.9	14.3	1008.1	12.8	980.6	26.5	-4.1
Spot 55	188	68999.5	1.8	16.7	1.3	0.8	1.7	0.1	1.0	0.596073775	562.1	5.3	570.8	7.2	605.7	28.8	7.2
Spot 56	187	20049.9	1.9	18.6	1.4	0.5	2.4	0.1	1.9	0.7947212	444.2	8.1	428.1	8.3	342.7	32.5	-29.6
Spot 57	117	15958.0	4.1	13.0	1.0	2.0	1.9	0.2	1.5	0.820998331	1131.4	15.8	1124.7	12.7	1111.9	21.2	-1.8
Spot 58	1081	33064.3	3.3	17.9	0.9	0.5	1.6	0.1	1.4	0.831191409	415.7	5.5	419.2	5.6	438.2	20.2	5.1
Spot 60	299	94908.8	3.7	15.2	1.0	1.0	1.9	0.1	1.6	0.842734039	676.2	10.2	708.5	9.7	812.2	21.3	16.7
Spot 61	77	9962.3	1.9	19.3	4.9	0.2	6.6	0.0	4.3	0.659465649	183.4	7.8	186.5	11.2	226.2	114.4	18.9
Spot 62	510	100783.6	2.1	11.7	0.9	2.5	2.0	0.2	1.7	0.878994029	1217.9	19.1	1262.2	14.1	1338.5	18.0	9.0
Spot 63	403	16182.8	8.3	17.3	1.3	0.5	1.8	0.1	1.2	0.667978683	377.0	4.3	395.2	5.8	503.2	28.9	25.1
Spot 64	577	14908.8	1.6	19.0	1.4	0.2	2.1	0.0	1.5	0.707729795	218.1	3.2	223.9	4.2	285.4	33.6	23.6
Spot 65	446	2302.4	1.0	18.6	4.1	0.1	4.8	0.0	1.8	0.386549844	53.0	1.0	53.5	2.5	76.0	NA	30.3
Spot 66	107	649.2	2.6	16.0	5.6	0.2	6.1	0.0	2.3	0.3772672	179.0	4.1	145.8	8.3	NA	NA	
Spot 67	324	205510.7	2.5	9.9	0.7	3.4	1.5	0.2	1.3	0.865209155	1423.8	16.0	1514.1	11.4	1642.9	13.5	13.3
Spot 68	169	2169.9	2.0	17.8	4.4	0.2	5.3	0.0	2.8	0.531743769	160.5	4.4	161.9	7.9	181.6	103.7	11.6
Spot 69	917	15275.7	1.2	19.2	0.9	0.3	1.4	0.0	1.1	0.778752156	257.0	2.7	256.8	3.1	254.4	20.0	-1.0
Spot 70	129	51846.1	7.4	5.8	2.7	11.1	3.2	0.5	1.8	0.568488061	2460.5	37.8	2532.2	30.3	2590.2	44.6	5.0
Spot 71	695	9391.3	3.3	19.8	1.3	0.2	2.2	0.0	1.6	0.720020915	172.3	2.7	171.5	3.5	160.8	35.7	-7.2
Spot 72	428	25550019.2	4.6	12.5	0.9	2.2	1.6	0.2	1.4	0.843979433	1176.6	14.8	1185.6	11.4	1202.0	17.2	2.1
Spot 73	384	3302.7	2.9	16.3	5.4	0.1	6.9	0.0	2.8	0.407946473	70.5	2.0	84.3	5.5	495.2	138.0	85.8
Spot 75	187	35585.3	4.0	12.7	0.8	2.1	1.5	0.2	1.3	0.83737342	1147.0	13.4	1150.9	10.5	1158.3	16.5	1.0
Spot 76	648	20600.5	16.6	19.8	1.4	0.2	3.1	0.0	2.8	0.896242879	224.8	6.2	222.2	6.2	195.2	32.1	-15.1
Spot 77	232	39602.9	1.9	13.0	1.0	1.8	1.7	0.2	1.4	0.82374362	1014.3	13.1	1045.8	11.0	1112.0	19.1	8.8
Spot 78	73	9591.1	1.9	14.2	1.2	1.4	1.8	0.2	1.4	0.758165339	902.0	11.8	904.1	11.0	909.1	24.8	0.8
Spot 79	453	7007.4	1.5	19.1	1.2	0.3	1.6	0.0	1.0	0.623992675	239.4	2.4	237.3	3.4	216.2	29.5	-10.8
Spot 80	340	6553.8	1.6	19.3	1.0	0.3	2.8	0.0	1.4	0.491251151	270.9	3.6	261.6	6.4	179.4	56.4	-51.0
Spot 81	558	42638.4	6.6	15.6	0.9	0.7	2.8	0.1	2.6	0.941770974	523.3	13.3	567.3	12.2	747.8	19.9	30.0
Spot 83	897	33529.7	18.8	12.2	0.8	2.2	1.5	0.2	1.2	0.83878819	1151.0	13.1	1185.0	10.3	1247.5	15.7	7.7
Spot 84	135	24326.5	1.8	19.5	1.9	0.3	2.5	0.0	1.7	0.674238879	270.6	4.5	266.6	5.9	231.1	43.2	-17.1
Spot 85	633	17724.5	0.6	19.6	1.2	0.2	1.9	0.0	1.4	0.749315413	173.2	2.4	175.6	3.1	208.5	29.0	16.9
Spot 86	252	97115.1	13.8	14.4	0.6	1.4	1.4	0.1	1.2	0.881291046	882.4	9.8	892.9	8.0	918.9	13.1	4.0
Spot 87	45	3053.5	1.3	20.3	4.3	0.2	7.3	0.0	5.9	0.806829476	199.9	11.6	179.4	12.0	NA	NA	
Spot 88	189	4998.1	1.0	19.1	2.7	0.2	3.4	0.0	1.6	0.477676386	187.1	3.0	185.7	5.7	167.8	69.4	-11.5
Spot 89	385	6651.5	5.3	19.9	1.9	0.2	2.5	0.0	1.6	0.648011	195.0	3.1	188.5	4.2	108.1	44.4	-80.4
Spot 90	376	63083.5	2.0	12.2	0.8	2.2	2.0	0.2	1.8	0.905100691	1158.2	19.2	1187.4	14.0	1241.0	16.6	6.7
Spot 92	78	8961.6	1.8	16.8	2.9	0.6	3.2	0.1	1.4	0.442045376	455.7	6.2	468.1	12.0	528.9	62.8	13.8
Spot 93	503	182212.8	15.7	14.3	0.9	0.9	1.9	0.1	1.7	0.876628999	596.1	9.7	669.5	9.5	925.0	19.2	35.6
Spot 94	534	76932.9	1.2	13.7	0.8	1.6	1.8	0.2	1.6	0.894380096	939.7	14.2	958.7	11.3	1002.7	16.5	6.3
Spot 96	200	3085.7	1.9	20.3	2.1	0.2	3.5	0.0	2.0	0.577581791	164.3	3.2	149.2	4.8	NA	NA	
Spot 97	166	44494.7	5.0	14.0	1.0	1.5	2.1	0.2	1.9	0.885908271	929.3	16.1	938.4	12.8	959.8	19.8	3.2

Spot 98	152	40908.5	1.6	16.2	1.4	0.9	1.9	0.1	1.4	0.698844625	658.9	8.5	659.3	9.4	660.3	29.8	0.2
Spot 99	545	101677.5	13.5	12.5	0.8	2.1	1.5	0.2	1.3	0.85666387	1133.2	13.5	1156.6	10.5	1200.6	15.4	5.6
Spot 100	97	11649.6	1.2	19.2	3.0	0.3	3.6	0.0	2.1	0.578577027	277.2	5.7	272.9	8.7	235.6	68.3	-17.6
Spot 101	184	16041.4	5.9	11.6	0.9	2.6	1.8	0.2	1.5	0.864338802	1285.3	18.0	1297.0	13.1	1316.4	17.4	2.4
Spot 102	78	31245.8	1.9	12.7	1.0	2.1	1.7	0.2	1.4	0.801477916	1149.2	14.6	1151.8	11.9	1156.7	20.6	0.6
Spot 103	187	340975.0	5.8	10.4	0.9	3.4	1.4	0.3	1.1	0.769626437	1480.0	14.2	1509.0	10.9	1549.8	16.7	4.5
Spot 104	108	21739.9	1.9	14.1	1.0	1.6	1.7	0.2	1.4	0.810276227	980.0	12.8	968.7	10.9	943.1	20.9	-3.9
Spot 105	267	3722.5	1.6	18.1	1.4	0.3	2.2	0.0	1.4	0.626245879	271.5	3.7	269.9	5.2	256.9	39.3	-5.7
Spot 106	513	12547.2	1.6	19.0	1.2	0.3	2.0	0.0	1.7	0.81091658	258.9	4.2	259.8	4.7	268.7	27.3	3.7
Spot 108	217	6938.6	1.1	19.1	2.1	0.3	2.6	0.0	1.5	0.582868258	265.3	3.9	259.5	5.9	207.0	48.6	-28.2
Spot 109	231	6865.7	1.4	19.6	1.3	0.3	1.8	0.0	1.3	0.687100273	266.9	3.3	254.8	4.1	145.5	31.1	-83.5
Spot 110	71	1980.6	1.7	17.9	4.1	0.3	5.0	0.0	1.9	0.369725514	260.7	4.8	247.9	11.1	128.2	110.2	####
Spot 111	367	38028.3	2.3	11.8	1.0	2.5	1.7	0.2	1.3	0.790772379	1251.7	14.9	1271.5	12.0	1305.1	19.7	4.1
Spot 112	255	33741.4	1.8	12.4	0.9	2.0	2.1	0.2	1.9	0.898221812	1070.7	18.9	1115.3	14.4	1203.4	18.4	11.0
Spot 113	265	16149.4	7.0	16.7	1.4	0.7	2.6	0.1	2.1	0.837894715	554.5	11.4	556.6	11.0	564.9	30.5	1.8
Spot 114	302	15201.7	1.9	19.6	2.7	0.3	5.0	0.0	4.2	0.84150252	280.2	11.5	270.7	11.9	190.1	62.9	-47.4
Spot 115	519	6832.8	10.3	19.6	1.3	0.2	2.0	0.0	1.4	0.738495649	232.1	3.3	224.4	4.0	144.5	31.0	-60.6
Spot 117	792	117782.9	16.4	20.1	1.8	0.3	2.5	0.0	1.8	0.701551823	233.4	4.1	228.1	5.2	173.4	42.4	-34.6
Spot 118	818	57265.5	10.1	13.0	0.9	1.8	1.7	0.2	1.5	0.867642927	1023.5	14.3	1049.7	11.4	1104.7	17.4	7.4
Spot 119	279	12074.0	3.8	14.2	1.0	1.2	1.9	0.1	1.6	0.837355159	786.5	11.9	818.8	10.8	907.4	21.7	13.3
Spot 121	179	38639.3	2.7	12.6	1.1	2.2	1.7	0.2	1.3	0.752162633	1191.0	13.6	1182.4	11.6	1166.7	21.7	-2.1
Spot 122	160	100006.4	1.0	8.3	0.8	5.3	1.8	0.3	1.7	0.905625716	1780.1	25.9	1870.1	15.7	1971.6	13.9	9.7
Spot 123	291	17117.0	1.4	18.5	2.0	0.3	2.5	0.0	1.5	0.605660202	282.4	4.2	288.6	6.4	339.3	45.6	16.8
Spot 125	866	10672.9	8.7	16.0	1.3	0.4	2.1	0.0	1.3	0.626383351	287.3	3.6	331.2	5.8	652.5	34.4	56.0
Spot 126	193	32507.1	1.7	19.3	1.9	0.3	2.3	0.0	1.4	0.598754403	273.8	3.8	272.8	5.6	264.0	43.1	-3.7
Spot 127	323	54185.9	1.6	12.5	0.8	2.0	1.8	0.2	1.6	0.883959992	1046.3	15.2	1098.6	12.0	1203.7	16.4	13.1
Spot 128	341	22053.6	1.6	18.9	2.0	0.3	2.5	0.0	1.5	0.612692996	276.1	4.1	278.8	6.1	302.2	45.0	8.6
Spot 130	641	55474.8	1.8	12.1	0.8	2.2	1.6	0.2	1.3	0.859908037	1128.7	13.9	1171.3	10.8	1251.0	15.5	9.8
Spot 131	167	15583.5	4.9	12.7	0.7	2.1	1.7	0.2	1.5	0.899415335	1169.6	15.9	1159.2	11.5	1139.8	14.4	-2.6
Spot 132	115	48784.9	3.6	12.9	2.1	2.1	2.8	0.2	1.9	0.664786383	1166.9	20.1	1151.8	19.5	1123.5	42.3	-3.9
Spot 133	335	23972.2	3.2	12.1	0.6	2.4	1.6	0.2	1.4	0.91523371	1220.5	16.0	1230.5	11.2	1248.0	12.4	2.2
Spot 134	235	7736.4	1.7	18.8	2.3	0.3	2.6	0.0	1.1	0.406827685	278.8	2.9	276.1	6.3	253.4	54.8	-10.0
Spot 135	134	12254.4	2.3	9.0	0.6	4.8	1.6	0.3	1.5	0.919963403	1774.1	22.7	1785.7	13.4	1799.4	11.4	1.4
Spot 136	636	33299.7	1.7	19.0	1.0	0.3	1.7	0.0	1.4	0.815582462	281.2	3.7	282.8	4.1	296.2	22.0	5.1
Spot 137	54	37631.3	2.8	12.7	1.1	2.1	1.9	0.2	1.6	0.814316643	1144.6	16.6	1145.9	13.4	1148.4	22.5	0.3
Spot 140	253	35108.1	3.4	12.8	0.9	2.1	1.9	0.2	1.6	0.875969658	1141.1	17.2	1138.7	12.9	1134.1	18.1	-0.6
Spot 141	579	4472.1	1.9	17.4	1.9	0.2	2.8	0.0	2.0	0.722699872	180.0	3.6	194.3	4.9	371.5	43.4	51.6
Spot 143	183	36306.9	3.2	14.1	0.9	1.5	1.5	0.2	1.3	0.826146976	915.9	10.9	924.5	9.4	944.9	17.8	3.1
Spot 144	232	3385.0	1.7	19.6	1.2	0.3	2.2	0.0	1.2	0.55291087	271.1	3.2	248.0	4.9	34.7	NA	####
Spot 146	157	20927.2	2.0	16.1	1.1	0.9	1.7	0.1	1.2	0.7206247	630.6	7.3	636.7	8.0	658.2	25.2	4.2
Spot 147	291	75935.9	2.6	13.1	4.4	1.0	5.5	0.1	3.2	0.586485397	590.4	18.2	708.9	28.0	1104.7	88.9	46.6
Spot 148	203	35207.7	0.7	8.6	0.7	5.4	1.2	0.3	1.0	0.802272841	1857.8	15.8	1877.0	10.4	1898.3	13.1	2.1
Spot 149	436	97997.1	2.9	12.2	0.8	2.3	1.3	0.2	1.0	0.801986942	1208.6	11.5	1221.4	9.2	1244.1	15.2	2.9

Spot 150	670	695766.4	1.1	19.0	1.5	0.3	2.2	0.0	1.6	0.741682386	277.3	4.4	281.0	5.4	311.7	33.6	11.0
Spot 151	575	37797.1	1.4	19.3	1.0	0.3	2.0	0.0	1.7	0.866770978	265.8	4.4	265.0	4.6	257.9	22.4	-3.1
Spot 152	107	8968.4	1.4	16.5	1.7	0.7	3.3	0.1	2.8	0.834683305	528.4	14.0	536.1	13.8	569.1	39.6	7.1
Spot 154	1237	16661.6	0.8	19.5	1.0	0.3	1.8	0.0	1.4	0.818501657	252.0	3.6	248.3	3.9	214.0	23.4	-17.7
Spot 156	236	8185.6	1.5	19.2	2.4	0.2	3.1	0.0	1.9	0.604705425	156.3	2.9	159.1	4.5	201.2	56.7	22.3
Spot 157	55	9184.6	1.6	13.9	1.1	1.4	2.2	0.1	1.8	0.853315623	877.7	15.2	894.9	12.9	937.7	23.1	6.4
Spot 158	1017	62034.6	3.7	19.5	0.8	0.3	1.4	0.0	1.1	0.813460825	231.5	2.6	231.9	2.9	235.3	18.8	1.6
Spot 159	740	18847.0	0.8	18.3	0.9	0.4	1.8	0.1	1.6	0.863153046	371.6	5.6	370.7	5.6	364.6	20.6	-1.9
Spot 160	150	9360.6	2.6	12.8	0.9	2.1	1.5	0.2	1.2	0.809908222	1150.2	12.7	1133.4	10.2	1101.2	17.5	-4.5
Spot 161	409	35850.2	5.5	14.2	0.6	1.4	1.4	0.1	1.3	0.900164527	865.1	10.3	880.4	8.3	919.3	12.7	5.9
Spot 162	267	6283.4	1.9	13.2	4.4	0.4	4.7	0.0	1.7	0.363356671	273.7	4.6	370.0	14.6	1028.6	88.5	73.4
Spot 163	273	42898.1	7.7	13.7	1.1	1.6	1.8	0.2	1.5	0.804636625	978.4	13.5	983.0	11.6	993.4	22.2	1.5
Spot 164	42	19396.7	4.0	12.2	2.0	2.2	3.0	0.2	2.2	0.745460931	1159.8	23.4	1183.6	20.6	1227.5	38.6	5.5
Spot 165	397	34480.1	1.1	19.0	1.3	0.3	1.9	0.0	1.3	0.708279224	255.4	3.3	257.9	4.2	280.7	30.1	9.0
Spot 166	46	1784.5	2.2	16.1	3.6	0.7	5.4	0.1	4.0	0.747208934	551.1	21.3	515.3	21.8	359.3	80.8	-53.4
Spot 167	220	71009.4	2.3	14.2	1.0	1.5	1.4	0.2	1.1	0.740235821	953.5	9.4	946.6	8.8	930.6	19.7	-2.5
Spot 168	279	5194.7	1.8	18.7	1.5	0.3	2.1	0.0	1.3	0.615197789	264.2	3.4	260.1	4.9	223.2	39.0	-18.4
Spot 170	63	1249.8	2.1	18.1	3.9	0.3	7.1	0.0	2.8	0.400623353	275.2	7.6	235.3	14.8	NA	NA	
Spot 171	422	72623.4	9.6	8.9	1.1	4.8	1.8	0.3	1.5	0.804037951	1722.4	22.1	1776.3	15.2	1840.2	19.5	6.4
Spot 172	435	405628.0	12.7	12.6	0.9	2.2	1.6	0.2	1.4	0.833619925	1170.0	14.5	1172.3	11.3	1176.4	17.7	0.5
Spot 173	1545	35198.9	4.6	12.1	1.0	2.1	1.5	0.2	1.1	0.7330992	1091.5	10.7	1144.9	10.0	1247.4	19.4	12.5
Spot 175	91	11429.0	2.4	18.5	2.2	0.3	2.7	0.0	1.6	0.593035282	264.4	4.1	269.6	6.4	315.5	49.4	16.2
Spot 177	273	31247.1	2.2	16.5	1.5	0.7	2.5	0.1	2.0	0.806058546	548.4	10.7	560.4	10.9	609.2	32.3	10.0
Spot 178	180	13198.6	1.1	17.4	2.2	0.3	2.6	0.0	1.4	0.526006959	264.6	3.5	285.9	6.5	463.8	49.1	43.0
Spot 179	126	789.8	1.9	19.7	3.8	0.1	5.5	0.0	3.7	0.663398381	125.3	4.5	83.4	4.4	NA	NA	
Spot 181	635	33620.1	5.2	19.4	1.4	0.3	2.2	0.0	1.6	0.762298932	241.5	3.9	241.4	4.6	240.5	32.1	-0.4
Spot 182	664	88040.8	0.9	17.6	1.0	0.5	1.8	0.1	1.5	0.838333212	410.9	6.0	421.4	6.2	479.3	21.6	14.3
Spot 184	186	35555.9	2.6	13.3	0.9	1.7	1.7	0.2	1.4	0.856679656	1009.1	13.5	1025.6	10.9	1060.9	17.5	4.9
Spot 186	249	10263.6	11.1	17.1	1.2	0.6	2.5	0.1	2.2	0.871521053	503.1	10.5	501.9	9.9	496.3	27.0	-1.4
Spot 187	639	35577.8	9.3	16.8	1.2	0.6	1.9	0.1	1.4	0.752288722	488.7	6.7	502.5	7.5	565.6	27.2	13.6
Spot 189	450	16005.0	6.1	17.8	0.9	0.4	1.5	0.1	1.2	0.772901508	341.7	3.9	353.1	4.5	428.7	21.3	20.3
Spot 190	384	12702.7	1.4	19.1	1.0	0.3	2.1	0.0	1.8	0.871621133	304.8	5.4	298.9	5.4	253.4	23.3	-20.3
Spot 191	186	3440.3	2.3	18.0	2.8	0.3	4.1	0.0	1.8	0.440218665	286.5	5.1	283.5	10.2	258.5	84.7	-10.8
Spot 192	484	33296.2	2.0	10.2	1.0	3.4	2.2	0.3	2.0	0.892403159	1461.7	25.6	1513.1	17.3	1585.9	18.5	7.8
Spot 193	307	7098.0	2.3	11.0	1.4	2.4	1.8	0.2	1.2	0.655367514	1150.1	12.7	1242.0	13.2	1405.1	26.6	18.1
Spot 194	122	7397.9	1.5	10.3	1.0	3.6	1.6	0.3	1.3	0.804261733	1572.2	18.4	1559.0	13.1	1541.1	18.3	-2.0
Spot 195	236	8657.5	2.2	20.2	2.3	0.2	3.3	0.0	2.3	0.695571311	163.1	3.7	158.9	4.8	97.0	55.4	-68.2
Spot 196	877	46733.6	16.6	13.9	0.7	1.6	1.4	0.2	1.2	0.883626976	989.9	11.4	987.8	8.9	983.3	13.4	-0.7
Spot 197	744	42921.6	3.4	11.1	1.1	2.7	2.2	0.2	1.9	0.86239266	1268.2	21.9	1325.7	16.4	1419.8	21.4	10.7
Spot 198	303	25892.2	19.1	12.3	0.7	2.3	1.7	0.2	1.6	0.907062628	1185.3	16.9	1197.0	12.1	1218.1	14.2	2.7
Spot 199	373	4494.4	2.2	18.1	2.3	0.2	3.1	0.0	1.9	0.619285981	153.8	2.9	162.3	4.6	287.9	55.1	46.6
Spot 200	473	757253.3	18.4	9.9	0.8	3.6	2.0	0.3	1.8	0.905870916	1471.6	23.7	1549.9	15.8	1658.4	15.6	11.3
Spot 201	125	17115.4	3.3	11.6	1.2	2.8	1.9	0.2	1.5	0.776030322	1353.4	17.7	1343.7	13.9	1328.2	22.8	-1.9

Spot 202	243	6651.1	5.5	19.9	1.5	0.3	2.3	0.0	1.6	0.724438948	241.0	3.9	228.7	4.6	103.6	36.8	####
Spot 203	262	3715.4	2.5	19.4	4.6	0.1	5.6	0.0	3.2	0.567636903	69.6	2.2	70.2	3.8	92.8	NA	25.1
Spot 204	454	17173.0	1.9	19.6	1.3	0.3	2.1	0.0	1.6	0.767886029	254.6	4.1	250.4	4.8	211.5	31.8	-20.4
Spot 205	93	3498.9	1.6	17.4	4.0	0.2	5.0	0.0	2.9	0.573867046	169.7	4.8	182.3	8.3	349.0	92.0	51.4
Spot 206	40	4899.1	3.0	11.6	2.0	2.0	3.1	0.2	2.1	0.677029684	1029.0	19.8	1113.6	20.8	1282.6	44.0	19.8
Spot 207	512	59434.7	0.6	11.9	0.7	2.5	1.6	0.2	1.4	0.885214202	1257.4	15.7	1273.4	11.3	1300.3	14.1	3.3
Spot 209	908	205226.8	29.4	13.2	0.9	1.9	1.5	0.2	1.2	0.817474021	1065.4	12.3	1078.7	10.2	1105.8	17.6	3.6
Spot 210	170	11241.9	2.9	16.5	2.3	0.7	3.2	0.1	2.2	0.672586738	559.5	11.6	564.9	13.9	586.4	51.7	4.6
Spot 211	315	2636.3	0.7	19.3	1.4	0.3	1.9	0.0	1.3	0.676041169	252.5	3.2	231.0	3.9	17.4	NA	####
Spot 213	38	3034.3	5.7	14.1	2.3	1.2	5.3	0.1	3.2	0.598262813	823.4	24.5	821.8	29.9	817.4	88.8	-0.7
Spot 214	344	19818.2	4.7	11.9	1.1	2.3	1.9	0.2	1.5	0.797521568	1192.2	16.2	1224.4	13.3	1281.5	21.9	7.0
Spot 215	178	4440.1	1.9	19.6	2.7	0.2	3.6	0.0	2.4	0.666846196	195.8	4.7	189.0	6.3	104.4	64.0	-87.6
Spot 217	107	386449.5	1.8	14.0	1.4	1.5	1.8	0.2	1.3	0.678699983	911.3	10.6	933.9	11.2	987.6	27.5	7.7
Spot 218	575	2673057.3	1.6	19.1	1.2	0.3	1.8	0.0	1.3	0.753042844	259.0	3.4	265.5	4.1	323.2	26.2	19.9
Spot 219	228	7915.6	1.3	19.7	1.9	0.3	3.5	0.0	3.0	0.836858753	293.5	8.5	280.1	8.7	169.5	45.4	-73.1
Spot 220	372	22387.3	2.7	12.6	1.0	2.1	1.7	0.2	1.4	0.806623524	1146.3	14.6	1159.8	11.9	1185.0	20.2	3.3
Spot 221	188	800987.8	1.6	6.2	0.7	9.5	1.6	0.4	1.5	0.900682631	2293.5	28.2	2391.7	14.9	2476.4	11.9	7.4
Spot 222	60	30875.5	1.5	14.4	1.3	1.4	2.9	0.1	2.6	0.886676677	865.3	20.9	880.1	17.1	917.5	27.7	5.7
Spot 223	344	22183.8	1.4	13.6	1.1	1.5	2.1	0.1	1.8	0.845996331	867.7	14.6	913.0	12.8	1024.2	22.9	15.3
Spot 224	621	7500.3	1.2	19.2	1.3	0.2	2.1	0.0	1.5	0.746766159	221.4	3.3	221.7	4.1	225.0	31.6	1.6
Spot 225	1608	86886.5	4.1	18.4	0.9	0.4	1.5	0.1	1.3	0.816481514	363.3	4.4	368.7	4.7	403.3	19.8	9.9
Spot 226	132	16014.8	1.9	18.3	2.0	0.4	2.9	0.1	2.1	0.717045916	337.8	6.8	343.8	8.4	384.6	44.9	12.2
Spot 227	115	64546.6	3.5	14.1	1.2	1.6	2.3	0.2	1.9	0.84992572	954.6	17.1	957.9	14.1	965.6	24.5	1.1
Spot 228	601	25374.0	2.9	13.9	0.9	1.0	2.3	0.1	2.1	0.924236359	617.4	12.4	702.7	11.6	986.3	17.7	37.4
Spot 229	921	68611.8	1.3	19.5	1.6	0.3	3.9	0.0	3.5	0.908608454	232.8	8.1	236.0	8.2	267.7	37.2	13.0
Spot 230	152	69940.9	3.3	12.1	1.0	2.4	1.6	0.2	1.3	0.790134766	1227.4	14.4	1242.8	11.7	1269.5	19.5	3.3
Spot 231	844	6146.6	2.3	19.5	0.9	0.3	1.8	0.0	1.6	0.878376061	257.2	4.0	248.7	4.0	168.9	20.3	-52.2
Spot 232	315	5919.3	2.0	17.7	1.3	0.5	1.8	0.1	1.3	0.704496158	456.1	5.5	444.9	6.4	387.3	28.5	-17.7
Spot 233	147	13682.6	3.6	11.9	0.9	2.5	1.9	0.2	1.6	0.862816818	1259.5	18.7	1270.6	13.7	1289.2	18.6	2.3
Spot 235	168	3528.7	0.8	19.8	2.2	0.2	2.9	0.0	1.8	0.602079603	177.9	3.1	168.1	4.5	32.3	NA	####
Spot 237	337	23214.8	8.3	18.8	2.2	0.3	2.7	0.0	1.4	0.536638061	232.8	3.3	242.3	5.7	335.3	50.8	30.6
Spot 238	1289	45910.0	46.1	13.4	0.8	1.7	1.5	0.2	1.3	0.840124923	999.8	11.7	1024.0	9.7	1075.9	16.3	7.1
Spot 239	97	7234.8	2.8	14.4	1.6	1.4	2.5	0.2	1.6	0.632050349	901.4	13.5	892.8	15.1	871.4	40.8	-3.4
Spot 240	788	35168.6	2.4	11.5	1.1	2.6	2.3	0.2	2.0	0.871085418	1284.2	22.9	1314.2	16.7	1363.5	21.4	5.8
Spot 241	214	33143.7	6.5	13.0	1.1	2.0	2.0	0.2	1.7	0.844771963	1116.5	17.1	1118.6	13.4	1122.6	21.1	0.5
Spot 242	695	32129.2	2.2	18.5	1.8	0.4	2.1	0.0	1.2	0.5704771	304.7	3.6	314.1	5.8	384.3	39.6	20.7
Spot 244	1078	199416.2	2.8	14.0	0.9	1.7	1.5	0.2	1.3	0.828659031	1016.6	11.9	1006.5	9.7	984.7	17.3	-3.2
Spot 245	622	346652.7	4.5	12.7	0.7	2.0	1.6	0.2	1.4	0.897500971	1076.5	14.2	1113.8	10.8	1187.4	13.9	9.3
Spot 247	174	39723.0	1.6	17.4	3.3	0.3	5.4	0.0	4.2	0.786123604	261.3	10.9	288.6	13.6	516.0	73.3	49.4
Spot 248	63	4133.6	3.9	16.8	3.1	0.5	4.7	0.1	3.1	0.665560712	424.4	12.9	431.2	16.6	467.3	78.0	9.2
Spot 249	441	41509.7	4.7	8.4	0.9	5.2	1.9	0.3	1.7	0.883730965	1776.7	26.2	1858.8	16.3	1951.8	16.0	9.0
Spot 250	246	3874.1	0.6	19.3	2.2	0.2	5.1	0.0	2.3	0.454909234	178.4	4.1	174.4	8.2	120.7	106.9	-47.8
Spot 251	65	33642.7	2.0	7.6	1.1	6.7	2.5	0.4	2.3	0.896053092	2008.3	39.4	2066.1	22.5	2124.2	19.8	5.5

Spot 253	1155	33158.9	77.7	19.4	1.1	0.3	1.8	0.0	1.4	0.795973806	239.3	3.3	241.3	3.8	261.4	24.5	8.5
Spot 254	278	17170.9	2.8	12.3	1.0	2.2	1.7	0.2	1.4	0.814746678	1180.7	14.9	1196.5	11.9	1225.1	19.3	3.6
Spot 255	459	256951.8	1.8	11.1	1.1	3.0	1.8	0.2	1.4	0.783061335	1396.6	17.4	1412.8	13.5	1437.3	21.0	2.8
Spot 256	607	413705.7	8.7	13.6	1.0	1.7	2.0	0.2	1.7	0.850051806	980.5	15.2	996.3	12.5	1031.4	21.0	4.9
Spot 257	408	35286.5	6.1	11.1	1.0	3.1	1.9	0.2	1.6	0.859642241	1438.5	21.0	1437.9	14.6	1437.0	18.4	-0.1
Spot 258	160	19537.0	5.2	13.8	1.1	1.6	2.2	0.2	2.0	0.872582263	979.1	17.8	980.5	14.1	983.5	22.3	0.4
Spot 261	275	14776.3	1.6	17.9	2.1	0.3	2.7	0.0	1.7	0.633509759	271.1	4.6	286.4	6.8	413.3	47.0	34.4
Spot 262	189	14074.4	4.1	12.6	1.0	2.1	1.7	0.2	1.4	0.795955237	1134.9	14.2	1143.8	11.8	1160.7	20.6	2.2
Spot 263	485	35504.4	9.3	19.4	1.3	0.3	2.1	0.0	1.7	0.808798145	229.1	3.9	232.0	4.4	260.8	28.8	12.2
Spot 264	181	20076.6	5.1	10.7	1.5	3.2	2.2	0.2	1.6	0.716157065	1426.6	20.2	1452.7	17.1	1491.1	29.2	4.3
Spot 265	114	35610.7	9.8	13.0	1.0	2.0	1.8	0.2	1.4	0.813301092	1125.7	14.8	1124.0	12.0	1120.7	20.5	-0.4
Spot 266	1110	30015.6	1.0	17.1	1.2	0.4	4.2	0.1	4.0	0.957673122	334.4	13.1	361.0	12.7	535.6	26.4	37.6
Spot 267	288	7640.8	1.9	20.1	2.0	0.2	3.0	0.0	1.8	0.602946044	235.7	4.2	223.3	6.0	94.8	57.0	####
Spot 268	53	16246.6	0.9	12.7	1.9	2.1	2.7	0.2	2.0	0.717489619	1149.6	20.7	1148.4	18.8	1146.0	37.9	-0.3
Spot 269	229	11515.3	2.6	17.2	1.1	0.6	1.7	0.1	1.2	0.691067115	490.2	5.6	491.0	6.6	494.6	27.2	0.9
Spot 275	167	53994.8	2.9	12.6	1.4	2.2	1.9	0.2	1.3	0.6744345	1178.8	14.2	1180.4	13.6	1183.2	28.4	0.4
Spot 276	531	7311.6	9.7	19.1	1.2	0.3	1.9	0.0	1.4	0.755160983	271.0	3.8	266.3	4.4	225.1	28.4	-20.4
Spot 277	1444	17717.0	0.7	20.3	1.4	0.2	2.3	0.0	1.7	0.749536541	153.3	2.6	152.3	3.2	136.4	35.2	-12.4
Spot 278	243	40988.6	2.1	10.5	0.8	3.5	1.7	0.3	1.5	0.872155488	1502.2	20.0	1516.1	13.5	1535.6	15.8	2.2
Spot 279	371	43435.1	2.3	17.4	0.9	0.7	2.0	0.1	1.8	0.893520696	518.8	9.1	517.2	8.3	510.0	20.2	-1.7
Spot 280	962	4790.6	1.4	18.2	2.5	0.2	4.0	0.0	2.6	0.64295427	152.9	3.9	161.8	6.1	294.8	70.8	48.1
Spot 281	450	43098.9	3.9	12.3	5.0	0.7	5.8	0.1	2.9	0.498582288	402.2	11.3	551.5	24.7	1227.9	98.8	67.2
Spot 282	602	38460.2	5.7	12.3	0.7	2.1	1.7	0.2	1.5	0.915705991	1121.0	15.8	1161.0	11.6	1236.4	13.2	9.3
Spot 283	689	679155.5	2.3	11.8	0.8	2.6	1.9	0.2	1.7	0.915308667	1277.0	20.2	1292.3	13.9	1317.7	14.9	3.1
Spot 285	132	16221.1	1.0	16.9	1.3	0.8	2.0	0.1	1.3	0.678336528	598.3	7.6	588.8	8.8	552.4	31.4	-8.3
Spot 286	341	6171.0	9.3	17.0	1.2	0.7	2.4	0.1	2.1	0.877021782	533.7	10.9	525.0	9.9	487.1	25.7	-9.6
Spot 287	354	38171.7	2.4	17.5	1.4	0.5	1.9	0.1	1.3	0.661875795	401.9	5.0	416.3	6.6	497.0	31.8	19.1
Spot 288	1195	57913.7	5.8	14.2	0.7	1.6	1.4	0.2	1.2	0.864402488	987.4	11.4	974.4	9.0	945.0	14.8	-4.5
Spot 289	641	46074.5	2.2	13.7	0.6	1.6	1.5	0.2	1.3	0.905695265	963.4	12.1	982.1	9.4	1024.2	12.8	5.9
Spot 290	400	4856.1	1.1	18.6	1.4	0.3	2.2	0.0	1.6	0.710588162	259.5	4.0	258.1	5.0	245.5	35.5	-5.7
Spot 291	66	11869.6	3.6	12.6	1.3	2.0	1.9	0.2	1.4	0.711800851	1101.3	13.8	1122.1	13.0	1162.6	26.6	5.3
Spot 292	351	40622.1	4.9	12.2	0.7	2.4	1.6	0.2	1.5	0.892069924	1240.6	16.5	1244.7	11.7	1251.7	14.5	0.9
Spot 293	498	10297.9	2.8	16.0	2.8	0.4	3.2	0.0	1.6	0.49270762	261.7	4.1	305.6	8.6	655.7	60.5	60.1
Spot 294	113	6999.8	4.2	13.7	0.8	1.6	2.0	0.2	1.4	0.693713903	993.8	12.7	985.4	12.5	966.5	29.1	-2.8
Spot 295	393	26722.7	4.6	12.5	0.7	2.3	1.5	0.2	1.3	0.885742144	1225.9	14.8	1214.0	10.6	1192.7	13.7	-2.8
Spot 296	502	74113.8	2.3	13.2	0.8	1.7	1.7	0.2	1.5	0.891753539	966.9	13.5	1006.5	10.8	1093.8	15.3	11.6
Spot 297	826	73400.6	5.6	12.0	0.8	2.6	2.2	0.2	2.0	0.93672786	1300.0	23.9	1291.9	15.8	1278.6	14.7	-1.7
Spot 298	368	24045.8	1.8	17.6	0.8	0.6	1.5	0.1	1.3	0.836995258	482.4	6.0	480.3	5.9	470.3	18.7	-2.6
Spot 299	806	25079.5	3.3	19.4	1.2	0.3	1.8	0.0	1.3	0.742732146	257.3	3.3	257.7	4.0	260.6	27.1	1.2
Spot 300	95	8263.9	2.8	13.4	0.8	1.8	1.4	0.2	1.1	0.770072217	1047.0	10.2	1041.1	8.9	1028.8	17.7	-1.8
Spot 302	638	205778.4	2.6	12.6	0.8	2.1	1.5	0.2	1.3	0.871816739	1119.1	13.8	1144.7	10.6	1193.6	14.9	6.2
Spot 303	1154	106189.8	63.2	13.1	1.0	1.7	2.0	0.2	1.7	0.866678072	956.2	15.5	1006.6	12.9	1118.0	20.1	14.5
Spot 304	91	9002.7	5.2	14.3	1.4	1.4	2.1	0.2	1.2	0.589706805	905.8	10.5	900.3	12.6	886.8	35.1	-2.2

Spot 306	153	8439.4	3.0	12.4	2.5	2.3	3.9	0.2	3.0	0.771889993	1232.7	33.5	1219.1	27.4	1195.2	48.5	-3.1
Spot 307	32	10521.2	1.8	17.8	5.4	0.3	6.5	0.0	3.5	0.541089391	278.4	9.5	294.6	16.5	425.3	121.1	34.5
Spot 308	193	26514.1	3.4	14.4	0.9	1.5	1.4	0.2	1.0	0.76412251	925.8	9.0	924.3	8.2	920.8	18.0	-0.5
Spot 309	42	28766.1	2.4	13.1	4.2	2.0	7.3	0.2	5.9	0.814532183	1119.6	60.7	1113.8	49.1	1102.4	84.2	-1.6
Spot 312	300	4180.6	1.0	19.2	1.2	0.3	2.5	0.0	1.9	0.774758793	266.5	5.0	255.1	5.5	151.9	36.3	-75.4
Spot 313	226	6485.9	1.8	19.5	1.4	0.3	2.3	0.0	1.8	0.781345906	284.3	5.1	272.2	5.6	170.0	33.9	-67.3
Spot 315	319	16024.4	2.0	18.9	1.6	0.3	2.3	0.0	1.6	0.709811503	274.7	4.4	277.7	5.6	302.8	36.9	9.3
Run 1 NM8A (discordant)																	
Spot 107	38	386.5	1.6	73.6	20.4	0.1	20.6	0.0	2.9	0.138089608	176.5	5.0	51.5	10.4	NA	NA	
Spot 116	1406	279555.5	29.3	12.4	1.0	1.7	3.0	0.2	2.8	0.942040912	917.2	23.9	1008.7	19.0	1213.1	19.6	24.4
Spot 120	15	1443.5	9.4	14.0	3.1	1.9	3.8	0.2	2.1	0.556920323	1145.0	22.0	1084.6	25.2	965.3	64.0	-18.6
Spot 124	20	1124.7	4.2	16.4	8.6	1.2	9.2	0.1	3.3	0.358311434	851.4	26.2	796.0	50.6	643.8	184.3	-32.3
Spot 129	93	2728.6	1.2	11.2	4.5	2.2	4.7	0.2	1.3	0.268121465	1050.9	12.3	1174.2	32.8	1409.1	87.0	25.4
Spot 138	152	27815.8	8.7	16.7	3.1	2.1	27.3	0.3	27.1	0.993527419	1480.3	358.8	1158.4	190.7	597.3	67.1	####
Spot 139	151	39460.4	5.3	9.2	1.6	2.9	2.1	0.2	1.4	0.669722027	1153.2	15.2	1392.0	16.2	1779.4	29.0	35.2
Spot 14	956	49427.5	32.9	12.5	1.1	1.8	1.9	0.2	1.6	0.825066365	961.0	14.3	1037.7	12.6	1203.0	21.6	20.1
Spot 142	932	29197.3	9.8	12.8	0.9	1.4	1.8	0.1	1.5	0.85055888	799.1	11.4	897.3	10.6	1147.6	18.6	30.4
Spot 145	58	2313.2	2.2	33.3	3.9	0.3	30.3	0.1	30.0	0.991639959	427.3	124.0	253.7	68.0	NA	NA	
Spot 153	91	4323.2	4.7	14.9	1.0	1.4	1.7	0.2	1.3	0.793186844	925.0	11.3	900.6	9.9	841.1	21.0	-10.0
Spot 155	190	8894.3	3.1	14.9	1.0	1.4	1.6	0.2	1.2	0.757929558	934.1	10.6	907.2	9.6	842.2	21.8	-10.9
Spot 169	41	2340.8	2.7	15.7	2.1	1.3	2.9	0.1	2.0	0.685658089	899.8	16.6	851.3	16.6	727.0	44.5	-23.8
Spot 174	157	35140.1	2.9	23.6	1.9	1.0	30.1	0.2	30.0	0.997998819	1024.2	284.3	707.2	154.3	NA	NA	
Spot 176	607	35372.2	1.3	10.2	0.9	2.5	1.8	0.2	1.6	0.858029536	1084.9	15.5	1264.3	13.1	1583.8	17.4	31.5
Spot 180	688	33681.1	9.6	12.2	0.8	2.6	2.1	0.2	1.9	0.931410852	1321.6	23.1	1291.0	15.2	1240.5	14.8	-6.5
Spot 183	39	462.0	1.2	43.7	21.7	0.1	22.0	0.0	3.6	0.163329473	216.7	7.6	104.0	21.7	NA	NA	
Spot 185	145	14118.5	2.1	13.1	1.0	2.2	1.7	0.2	1.4	0.826481657	1219.1	16.0	1176.2	12.1	1098.1	19.6	-11.0
Spot 188	127	4360.7	1.4	24.3	2.8	0.2	18.2	0.0	18.0	0.988146524	253.6	44.8	208.4	34.4	NA	NA	
Spot 208	64	356.1	2.2	145.9	8.5	0.0	9.4	0.0	3.8	0.410314501	166.4	6.3	24.8	2.3	NA	NA	
Spot 21	2371	145143.1	15.3	12.7	0.9	1.7	1.4	0.2	1.1	0.790300174	922.3	9.5	996.4	8.8	1163.2	16.9	20.7
Spot 212	422	13309.9	3.8	21.3	3.7	0.1	30.2	0.0	30.0	0.992616125	86.8	25.9	85.4	24.8	45.8	NA	-89.6
Spot 216	0	1000.0	0.8	5.2	1.0	26.4	1.2	1.0	0.6	0.514146551	4445.5	19.3	3360.9	11.4	2765.6	16.4	-60.7
Spot 234	213	9573.9	0.7	20.5	2.7	0.2	7.2	0.0	6.6	0.928703844	200.2	13.1	195.3	12.7	137.0	62.3	-46.1
Spot 236	162	6911.9	3.5	13.0	0.9	2.1	1.5	0.2	1.2	0.773428252	1185.9	12.5	1164.4	10.4	1124.5	18.9	-5.5
Spot 243	52	2427.2	3.5	14.8	2.1	1.5	2.9	0.2	2.0	0.69974346	983.6	18.4	945.6	17.7	858.1	42.8	-14.6
Spot 246	39	5959.2	2.2	13.1	1.6	2.1	2.2	0.2	1.4	0.656348944	1184.8	15.4	1156.5	15.0	1103.7	32.7	-7.3
Spot 252	892	56829.8	13.3	12.2	1.4	1.6	2.1	0.1	1.6	0.752902823	844.0	12.3	960.9	12.8	1238.9	26.7	31.9
Spot 259	91	2421.0	2.0	36.8	11.8	0.2	32.2	0.1	30.0	0.930403714	343.7	100.4	189.7	55.8	NA	NA	
Spot 260	62	587.3	1.1	49.5	65.7	0.1	65.8	0.0	2.8	0.042454548	191.1	5.3	81.6	51.6	NA	NA	
Spot 270	74	2102.5	3.2	38.1	4.3	0.2	30.3	0.1	30.0	0.99002259	377.8	110.1	200.4	55.2	NA	NA	
Spot 271	9	2627.7	3.6	14.3	7.3	1.5	10.1	0.2	7.0	0.692353897	919.4	59.7	921.8	61.0	927.3	149.3	0.9
Spot 272	230	9727.8	2.0	21.6	4.0	0.1	12.8	0.0	12.1	0.949604272	79.8	9.6	77.6	9.5	10.5	NA	####
Spot 273	56	2691.3	1.4	15.7	2.6	1.2	3.1	0.1	1.5	0.504219112	840.3	12.2	812.1	17.1	735.5	56.0	-14.2
Spot 274	754	530737.4	7.1	9.7	1.7	2.6	2.4	0.2	1.7	0.699022827	1096.6	17.2	1310.1	18.0	1679.0	32.3	34.7

Spot 284	330	5561.9	3.1	20.0	4.8	0.1	9.2	0.0	7.8	0.854506827	78.7	6.1	82.5	7.3	193.7	110.7	59.4
Spot 30	53	3085.4	3.1	15.4	1.4	1.4	2.0	0.2	1.4	0.694317809	930.8	12.0	885.5	11.8	774.0	30.1	-20.3
Spot 301	305	17665.3	12.2	13.6	0.8	1.9	1.3	0.2	1.0	0.75665171	1094.5	9.8	1074.6	8.6	1034.3	17.1	-5.8
Spot 305	64	2690.8	3.7	15.1	1.5	1.4	2.3	0.2	1.7	0.744686072	911.7	14.3	883.3	13.4	812.9	31.6	-12.2
Spot 310	52	2665.4	4.7	15.2	4.4	1.4	4.6	0.2	1.3	0.279170871	909.4	11.0	876.9	27.2	795.7	93.2	-14.3
Spot 311	390	130966.7	5.6	12.4	1.0	2.4	2.1	0.2	1.9	0.875769039	1279.0	21.5	1253.7	15.3	1210.6	20.1	-5.6
Spot 314	1122	67186.6	19.8	14.3	0.7	1.6	1.4	0.2	1.2	0.871014821	1002.6	11.2	979.4	8.7	927.9	14.0	-8.1
Spot 34	497	10590.7	5.2	21.2	1.9	0.3	6.7	0.0	6.4	0.960814455	248.6	15.7	230.7	13.8	52.0	44.3	####
Spot 4	12	1411.3	3.3	15.1	8.4	1.6	9.1	0.2	3.3	0.368179188	1062.3	32.8	982.8	57.3	809.3	177.1	-31.3
Spot 41	31	2012.4	0.5	5.3	5.6	1.1	8.9	0.0	6.9	0.772572503	276.5	18.5	776.6	48.2	2743.1	92.7	89.9
Spot 43	121	2310.9	3.5	12.1	9.3	0.2	15.4	0.0	12.3	0.798119262	111.3	13.5	184.3	25.9	1266.8	181.3	91.2
Spot 47	45	5029.1	2.2	13.6	4.1	2.0	5.8	0.2	4.1	0.708924665	1179.2	44.5	1128.4	39.7	1031.9	83.0	-14.3
Spot 5	89	6173.3	5.0	13.1	1.1	1.5	1.7	0.1	1.3	0.762918561	857.5	10.6	927.4	10.5	1097.4	22.3	21.9
Spot 52	254	179317.0	3.1	8.2	0.9	4.2	2.4	0.2	2.2	0.923158027	1431.1	28.7	1674.7	19.9	1995.0	16.6	28.3
Spot 54	900	302134.2	10.9	7.9	2.7	3.4	3.2	0.2	1.7	0.534866094	1163.9	18.3	1514.3	25.3	2045.7	48.0	43.1
Spot 59	237	600623.7	2.5	15.2	3.0	1.5	8.6	0.2	8.0	0.935451297	970.1	72.2	920.3	51.9	802.5	63.5	-20.9
Spot 74	134	24963.2	1.2	18.2	3.1	0.7	12.8	0.1	12.4	0.969843546	608.5	72.0	567.8	55.6	407.9	69.7	-49.2
Spot 82	475	35580.2	1.4	30.3	1.5	0.2	30.0	0.0	30.0	0.998781951	269.3	79.1	180.3	49.7	NA	NA	
Spot 91	69	10198.4	3.6	14.3	1.8	1.6	2.8	0.2	2.1	0.771302856	977.8	19.4	960.4	17.2	920.7	36.3	-6.2
Spot 95	85	3243.3	1.8	14.0	1.0	1.8	1.6	0.2	1.3	0.805886923	1055.0	12.8	1027.8	10.5	970.3	19.7	-8.7

**Run 2**

Spot 2	489	4980.5	0.9	19.3	1.6	0.3	2.6	0.0	2.1	0.779794433	258.8	5.2	246.6	5.8	131.3	38.9	-97.1
Spot 3	388	31585.6	3.5	12.5	1.3	2.1	2.0	0.2	1.5	0.745129072	1145.9	15.8	1158.9	14.0	1183.3	26.6	3.2
Spot 4	655	7845.2	1.1	17.0	4.6	0.1	5.5	0.0	2.7	0.485531368	69.8	1.9	82.9	4.4	479.5	106.7	85.4
Spot 5	430	628301.4	2.4	13.1	0.7	1.9	1.8	0.2	1.6	0.926389511	1063.6	16.0	1076.6	11.7	1103.1	13.2	3.6
Spot 6	286	20255.5	2.8	16.0	4.8	0.4	6.2	0.0	4.0	0.638786023	284.6	11.1	330.6	17.6	668.0	102.7	57.4
Spot 7	773	79084.6	3.2	13.0	0.8	1.8	1.8	0.2	1.6	0.892072532	1027.5	15.0	1056.6	11.6	1117.3	15.9	8.0
Spot 8	169	4950.1	2.1	12.3	1.7	2.2	2.1	0.2	1.3	0.605656981	1204.4	14.2	1186.2	15.0	1153.2	33.8	-4.4
Spot 9	1560	128810.6	7.5	12.6	1.1	2.1	2.3	0.2	2.0	0.870032979	1116.4	20.5	1145.1	15.8	1200.0	22.3	7.0
Spot 10	459	11407.4	1.2	17.7	1.9	0.3	2.8	0.0	1.8	0.657223114	276.1	4.9	293.5	7.0	434.0	46.3	36.4
Spot 11	1190	24760.0	10.6	17.8	1.1	0.4	1.8	0.0	1.4	0.796337482	299.2	4.1	317.2	4.8	451.6	23.9	33.7
Spot 13	268	12872.2	2.9	13.2	0.8	1.9	1.7	0.2	1.5	0.879371792	1109.1	14.9	1096.8	11.2	1072.5	15.9	-3.4
Spot 14	97	9264.7	2.8	12.3	3.3	2.2	4.5	0.2	3.0	0.675546269	1168.8	32.4	1179.6	31.3	1199.3	65.3	2.5
Spot 15	620	9281.2	6.4	17.1	2.2	0.6	3.4	0.1	2.6	0.767004985	483.9	12.2	486.8	13.2	500.7	48.1	3.4
Spot 17	664	25268.1	2.1	12.6	1.0	2.1	1.8	0.2	1.4	0.809167994	1112.4	14.6	1135.7	12.1	1180.6	20.5	5.8
Spot 19	74	31678.5	2.0	14.7	3.0	1.3	4.1	0.1	2.7	0.676348089	854.5	22.0	857.7	23.5	865.9	62.1	1.3
Spot 20	793	34439.3	15.9	14.0	0.8	1.5	1.4	0.2	1.2	0.82640368	907.3	9.8	928.1	8.5	977.8	16.0	7.2
Spot 21	584	43131.2	0.9	20.0	1.6	0.2	2.1	0.0	1.4	0.639775782	185.9	2.5	186.9	3.7	200.2	38.2	7.1
Spot 22	832	10525.1	3.0	18.2	1.6	0.3	2.2	0.0	1.5	0.68722131	263.9	3.9	275.2	5.3	373.1	36.0	29.3
Spot 23	1071	91234.2	8.4	19.4	1.5	0.3	1.8	0.0	1.1	0.591402128	242.9	2.6	245.6	4.0	271.8	33.8	10.6
Spot 24	810	7237.5	5.9	19.7	1.7	0.3	3.2	0.0	1.9	0.601849011	273.2	5.2	261.2	7.4	154.8	60.1	-76.5
Spot 25	398	18225.0	11.4	12.9	1.0	2.0	1.6	0.2	1.3	0.794642377	1086.4	13.0	1100.3	11.0	1127.8	19.8	3.7
Spot 26	500	4006.9	1.3	19.8	1.0	0.3	1.7	0.0	1.3	0.782119058	286.1	3.7	262.6	3.9	57.3	25.2	####



Spot 27	398	30670.7	1.8	17.7	1.1	0.6	1.8	0.1	1.5	0.809411142	479.6	6.8	478.3	6.9	472.3	23.7	-1.5
Spot 28	181	1205599.6	1.1	16.1	2.4	0.8	2.9	0.1	1.6	0.555477633	560.6	8.6	586.2	12.8	686.7	50.9	18.4
Spot 29	187	37174.4	3.1	13.3	1.3	1.7	1.9	0.2	1.4	0.729784324	966.4	12.8	1001.9	12.4	1080.5	26.7	10.6
Spot 31	483	7591.4	2.0	15.9	1.0	0.7	2.1	0.1	1.8	0.864397274	519.0	8.9	543.6	8.7	648.2	22.3	19.9
Spot 32	703	78545.5	2.2	9.4	1.1	1.4	2.9	0.1	2.6	0.918677767	575.3	14.5	879.9	16.9	1751.3	20.8	67.2
Spot 33	402	31547.8	1.7	20.4	1.9	0.3	3.5	0.0	3.0	0.851112368	305.7	9.0	287.7	8.9	144.2	43.6	####
Spot 34	256	34739.6	1.3	13.3	1.9	1.8	5.3	0.2	4.9	0.929712677	1042.6	47.2	1051.8	34.5	1070.9	39.0	2.6
Spot 35	216	11968.8	1.5	12.6	1.1	2.0	3.4	0.2	3.2	0.944300445	1096.8	32.5	1124.6	23.2	1178.6	22.2	6.9
Spot 36	451	5845.0	1.4	19.3	1.2	0.3	2.4	0.0	1.7	0.676222468	255.2	4.1	248.3	5.4	183.4	42.0	-39.1
Spot 37	1739	4688.5	0.8	19.9	1.3	0.2	1.9	0.0	1.3	0.683940484	163.5	2.1	157.8	2.7	72.5	32.5	####
Spot 38	652	6226.5	14.5	19.3	1.5	0.3	2.3	0.0	1.5	0.644854669	233.1	3.4	229.0	4.7	187.5	41.1	-24.3
Spot 39	792	54221.8	2.2	16.7	1.1	0.8	2.1	0.1	1.8	0.856279479	565.1	9.6	574.8	9.1	613.6	23.2	7.9
Spot 40	121	17427.6	1.8	12.3	1.3	2.1	2.7	0.2	2.3	0.877314056	1123.6	24.0	1159.2	18.4	1226.4	25.0	8.4
Spot 41	904	78613.1	1.7	6.4	1.0	9.7	2.3	0.4	2.0	0.90287016	2366.4	40.4	2402.9	20.8	2433.9	16.5	2.8
Spot 42	316	3143.4	0.6	19.2	3.9	0.2	4.3	0.0	1.3	0.305940608	225.4	2.9	214.4	8.3	94.6	96.5	####
Spot 43	1834	53994.9	3.7	12.0	0.8	2.5	1.6	0.2	1.4	0.873558194	1287.9	16.7	1286.3	11.9	1283.5	15.5	-0.3
Spot 44	440	14615.6	1.3	18.9	3.0	0.3	4.3	0.0	3.1	0.716622816	287.5	8.7	289.5	10.8	305.9	68.3	6.0
Spot 45	359	37355.3	1.2	10.9	1.4	2.9	2.4	0.2	2.0	0.817537076	1340.1	24.2	1394.8	18.5	1479.5	26.7	9.4
Spot 46	122	1599.4	1.0	17.5	4.9	0.3	5.9	0.0	2.8	0.475990693	257.6	7.1	244.8	12.8	123.1	121.7	####
Spot 47	632	14878.4	4.0	13.0	1.0	1.8	2.0	0.2	1.8	0.868337781	1011.1	16.4	1047.3	13.2	1123.8	20.0	10.0
Spot 48	221	1923.7	1.7	18.0	3.1	0.3	3.5	0.0	1.4	0.402891634	292.1	4.0	273.9	8.3	121.1	74.7	####
Spot 49	1215	183086.3	2.8	17.4	1.1	0.6	1.5	0.1	1.1	0.69596363	440.4	4.6	455.6	5.7	532.9	24.3	17.3
Spot 50	262	13316.8	2.0	16.9	1.6	0.7	2.3	0.1	1.6	0.695153714	553.2	8.6	554.7	10.0	560.6	36.6	1.3
Spot 51	491	19148.0	1.4	18.8	2.4	0.3	2.9	0.0	1.6	0.550197513	278.1	4.3	283.7	7.1	330.5	54.6	15.9
Spot 52	110	34710.3	2.4	14.5	1.4	1.4	2.3	0.2	1.8	0.792260439	909.4	15.5	908.8	13.9	907.2	29.0	-0.2
Spot 54	1047	6854.1	19.2	19.7	1.4	0.3	2.2	0.0	1.3	0.603220273	240.8	3.1	232.8	4.5	152.8	40.3	-57.5
Spot 55	520	27489.9	3.2	17.7	1.6	0.7	2.8	0.1	2.3	0.809718192	539.5	11.7	526.3	11.4	469.7	36.2	-14.9
Spot 56	304	6082.5	0.8	18.2	4.2	0.2	5.7	0.0	3.7	0.649610124	183.8	6.8	194.5	10.2	325.6	99.1	43.5
Spot 57	1584	73559.8	7.0	14.8	0.9	0.6	1.7	0.1	1.4	0.857048346	384.8	5.3	460.4	6.1	857.6	17.7	55.1
Spot 58	571	34731.3	4.3	12.6	1.0	2.1	2.1	0.2	1.9	0.874172343	1132.4	19.3	1150.4	14.6	1184.3	20.4	4.4
Spot 59	850	21173.7	9.1	15.9	1.2	0.9	2.0	0.1	1.6	0.784619391	618.2	9.4	633.1	9.5	686.7	26.8	10.0
Spot 60	548	38065.4	0.4	19.5	2.5	0.2	3.9	0.0	3.0	0.77401739	182.1	5.4	186.9	6.7	248.7	56.9	26.8
Spot 61	839	17167.9	4.4	17.7	1.4	0.6	2.1	0.1	1.5	0.721058669	451.6	6.6	451.6	7.7	451.7	32.4	0.0
Spot 62	564	103033.4	2.0	12.0	0.9	2.3	1.5	0.2	1.2	0.800847853	1163.7	12.7	1203.8	10.5	1276.4	17.3	8.8
Spot 63	1987	37372.4	0.9	19.4	1.9	0.3	3.0	0.0	2.4	0.784712488	269.0	6.3	268.0	7.2	259.1	43.4	-3.8
Spot 64	1404	49867.8	3.0	12.2	0.9	2.3	1.6	0.2	1.4	0.844867261	1190.1	15.0	1211.2	11.5	1249.0	17.1	4.7
Spot 66	1331	21758.2	7.3	12.3	1.1	2.1	1.9	0.2	1.6	0.838252665	1108.8	16.5	1144.9	13.3	1214.1	20.8	8.7
Spot 67	724	12425.8	1.2	17.5	3.6	0.2	3.9	0.0	1.4	0.367727579	155.0	2.2	175.3	6.3	458.2	81.0	66.2
Spot 68	1954	294661.2	11.3	13.4	0.8	1.8	1.4	0.2	1.1	0.80333932	1048.8	11.1	1055.4	9.4	1069.1	17.0	1.9
Spot 69	955	69531.8	23.5	19.5	1.2	0.3	1.9	0.0	1.5	0.777539422	250.8	3.7	250.4	4.3	246.7	28.1	-1.6
Spot 70	713	28361.7	1.8	17.3	2.0	0.4	3.1	0.0	2.3	0.757265515	292.1	6.7	317.5	8.4	509.1	44.5	42.6
Spot 71	308	60377.8	3.4	12.2	1.0	2.3	3.2	0.2	3.1	0.948083636	1179.3	32.9	1204.4	22.7	1249.9	20.0	5.7
Spot 72	525	4770.7	1.6	20.4	3.5	0.1	4.0	0.0	1.9	0.480911683	73.5	1.4	71.5	2.8	5.7	NA	

Spot 73	1410	177851.8	1.4	19.0	1.1	0.3	1.8	0.0	1.5	0.793049847	276.6	3.9	281.7	4.5	323.9	25.4	14.6
Spot 74	212	13662.5	1.9	9.3	1.0	4.3	2.6	0.3	2.4	0.924125901	1642.5	35.3	1688.8	21.7	1746.9	18.5	6.0
Spot 76	1475	2490.2	79.8	13.9	5.8	0.2	6.2	0.0	1.1	0.177132538	113.1	1.2	152.7	8.8	822.8	128.0	86.3
Spot 77	632	6796.0	4.0	17.8	2.4	0.4	3.2	0.0	1.9	0.592043175	308.7	5.6	316.2	8.6	371.6	57.2	16.9
Spot 78	1486	25876.8	1.1	19.2	1.2	0.3	1.8	0.0	1.3	0.727733956	275.7	3.6	274.9	4.4	268.5	29.0	-2.7
Spot 79	925	29564.8	1.1	19.9	1.2	0.2	1.9	0.0	1.4	0.763717397	183.9	2.6	184.4	3.2	191.7	28.3	4.1
Spot 80	385	5292.0	0.9	13.5	4.1	0.8	5.1	0.1	2.4	0.46098127	490.9	11.2	587.2	22.9	979.8	92.8	49.9
Spot 81	1578	116209.7	1.1	17.6	1.0	0.6	1.6	0.1	1.2	0.763465759	451.3	5.3	459.0	5.9	497.2	22.6	9.2
Spot 82	305	10425.6	1.1	13.4	0.8	1.8	1.8	0.2	1.5	0.81399235	1045.3	14.5	1040.6	12.0	1030.7	21.7	-1.4
Spot 84	368	262997.1	3.8	11.6	0.9	2.8	1.5	0.2	1.3	0.815508123	1343.6	15.2	1345.0	11.4	1347.1	17.1	0.3
Spot 85	821	40794.7	2.4	12.6	0.7	2.1	1.5	0.2	1.3	0.882760803	1118.6	13.3	1139.2	10.1	1178.6	13.7	5.1
Spot 86	380	29878.9	3.7	12.6	1.0	2.2	2.6	0.2	2.4	0.928698493	1157.7	25.3	1167.8	17.8	1186.5	18.8	2.4
Spot 87	978	2414920.3	5.6	13.7	1.2	1.5	2.1	0.1	1.7	0.81967382	870.2	14.0	915.9	12.6	1027.8	24.3	15.3
Spot 88	1584	180477.2	6.3	17.6	1.2	0.6	1.9	0.1	1.5	0.770748712	464.9	6.5	469.4	7.1	491.7	26.6	5.5
Spot 89	396	27355.0	5.7	12.7	1.1	2.1	2.5	0.2	2.3	0.902853293	1120.4	23.2	1135.9	17.1	1165.4	21.3	3.9
Spot 90	283	72829.2	3.1	15.9	2.5	1.0	3.2	0.1	2.0	0.628670262	707.1	13.4	706.3	16.2	703.9	52.5	-0.4
Spot 92	779	11913.4	0.7	14.5	2.4	0.9	3.4	0.1	2.2	0.663065317	612.8	13.1	670.0	16.6	867.4	52.4	29.4
Spot 93	352	41318.4	1.6	13.2	1.7	1.8	2.7	0.2	2.1	0.780613184	1010.9	19.7	1035.1	17.5	1086.6	33.8	7.0
Spot 94	2358	138642.2	4.5	12.4	0.9	2.4	1.5	0.2	1.2	0.799910427	1238.9	13.8	1231.1	10.9	1217.4	18.0	-1.8
Spot 95	1272	7975.7	14.2	18.1	1.6	0.3	2.3	0.0	1.4	0.594456354	234.6	3.1	245.6	5.0	351.7	41.6	33.3
Spot 97	100	4179.9	2.0	12.3	1.4	1.9	2.6	0.2	1.9	0.712752758	1057.2	18.1	1088.0	17.4	1150.0	36.3	8.1
Spot 98	545	11919.6	4.1	19.8	1.5	0.3	2.4	0.0	1.7	0.712526723	259.6	4.4	250.1	5.4	162.7	40.2	-59.5
Spot 99	671	45899.1	4.0	10.6	1.0	3.4	1.8	0.3	1.5	0.833564031	1500.6	20.5	1505.3	14.4	1511.8	19.1	0.7
Spot 100	1324	21614.8	2.3	19.5	1.8	0.3	2.8	0.0	2.1	0.759115864	296.1	6.1	289.2	7.0	233.9	41.8	-26.6
Spot 101	955	24986.4	0.8	18.2	1.8	0.3	2.5	0.0	1.7	0.681865088	261.9	4.4	276.1	6.1	398.3	41.3	34.2
Spot 102	366	59954.2	3.7	11.6	0.9	2.8	1.6	0.2	1.3	0.803223506	1359.5	15.4	1355.4	11.7	1349.1	18.0	-0.8
Spot 104	333	74947.8	3.2	10.4	0.9	3.5	1.7	0.3	1.4	0.827778211	1518.6	18.8	1534.1	13.3	1555.4	17.7	2.4
Spot 105	398	19388.7	2.5	9.7	1.0	4.1	1.9	0.3	1.6	0.84291796	1653.3	22.8	1659.7	15.1	1667.8	18.4	0.9
Spot 107	665	34233.5	4.5	12.8	1.0	2.1	2.0	0.2	1.7	0.865313945	1141.7	17.8	1145.0	13.5	1151.3	19.6	0.8
Spot 108	614	6134.8	1.5	18.8	1.3	0.3	2.1	0.0	1.7	0.770392935	273.1	4.4	270.0	5.1	243.6	31.5	-12.1
Spot 109	277	4619.7	1.8	19.2	2.4	0.3	2.7	0.0	1.1	0.415227206	240.3	2.6	231.7	5.6	144.8	57.6	-66.0
Spot 110	218	5995.0	2.1	12.6	1.4	2.0	2.4	0.2	1.9	0.794231461	1123.3	19.3	1126.1	16.0	1131.5	28.4	0.7
Spot 111	464	107018.9	2.4	13.3	1.1	1.8	1.8	0.2	1.5	0.797908503	1020.2	13.7	1041.5	11.9	1086.3	22.0	6.1
Spot 112	3347	17311.4	6.0	13.1	1.5	1.7	2.7	0.2	2.2	0.80664046	978.4	19.6	1014.9	17.2	1094.6	31.6	10.6
Spot 113	542	58308.8	0.7	17.5	1.2	0.7	1.9	0.1	1.5	0.786378798	519.2	7.4	517.8	7.7	511.7	25.8	-1.5
Spot 114	330	15465.5	0.9	17.7	3.2	0.3	3.8	0.0	2.1	0.542184806	274.6	5.6	294.1	9.8	452.4	71.4	39.3
Spot 115	129	7019.2	2.0	13.5	1.2	1.5	2.5	0.2	1.7	0.68568871	927.2	15.0	948.6	15.6	998.5	37.5	7.1
Spot 116	532	28210.7	2.2	17.9	2.7	0.5	4.1	0.1	3.0	0.738218491	390.9	11.4	399.8	13.4	451.6	60.8	13.4
Spot 117	326	7720.1	1.5	19.2	1.9	0.3	2.5	0.0	1.6	0.634899552	276.5	4.3	271.5	5.9	228.7	44.5	-20.9
Spot 118	501	18811.0	6.3	18.2	2.8	0.3	3.5	0.0	2.1	0.612976041	242.5	5.1	257.3	7.9	394.7	61.9	38.6
Spot 119	375	330852.4	1.5	12.9	0.8	2.2	1.3	0.2	1.0	0.778382078	1202.2	10.9	1182.1	8.9	1145.5	16.0	-4.9
Spot 120	384	41455.0	1.0	11.4	0.8	2.9	1.4	0.2	1.1	0.800464975	1368.6	13.6	1375.7	10.3	1386.8	15.8	1.3
Spot 122	159	973.5	1.6	18.1	4.8	0.2	6.1	0.0	3.6	0.592879258	281.2	9.9	225.0	12.2	NA	NA	

Spot 124	595	24880.4	6.6	14.8	1.7	0.5	3.1	0.1	2.5	0.832232308	369.6	9.1	444.6	11.0	854.3	35.2	56.7
Spot 125	742	7932.4	4.3	17.5	2.0	0.4	2.6	0.1	1.7	0.637251557	329.7	5.4	343.6	7.7	438.8	45.1	24.9
Spot 126	401	5130.2	0.9	17.7	2.6	0.3	3.3	0.0	1.8	0.560101346	263.9	4.7	275.4	7.8	374.2	60.6	29.5
Spot 127	242	1323.6	2.1	16.2	2.8	0.2	3.3	0.0	1.7	0.501062891	166.8	2.8	172.2	5.3	246.0	66.8	32.2
Spot 128	384	8437.1	4.9	14.1	1.4	1.5	2.1	0.2	1.5	0.699398894	915.7	12.6	918.4	12.8	925.2	31.0	1.0
Spot 129	1846	22132.7	1.7	13.0	0.8	2.0	1.6	0.2	1.4	0.840202072	1104.3	13.9	1111.3	11.0	1125.0	17.6	1.8
Spot 130	615	1109.7	1.5	19.3	3.6	0.1	4.2	0.0	1.9	0.444793003	82.4	1.5	67.4	2.7	NA	NA	
Spot 131	1221	4069.0	6.2	15.5	1.5	0.3	1.9	0.0	1.2	0.627605884	215.2	2.6	257.5	4.4	662.2	32.2	67.5
Spot 132	444	14523.9	1.3	19.2	1.8	0.3	2.4	0.0	1.5	0.639642084	278.4	4.2	277.8	5.9	272.5	42.6	-2.1
Spot 133	384	10452.8	3.0	12.2	1.5	2.0	2.0	0.2	1.3	0.623870841	1064.6	12.4	1120.4	13.7	1230.2	31.0	13.5
Spot 134	641	7472.4	2.2	26.8	2.8	0.1	3.6	0.0	2.4	0.651889522	93.5	2.2	70.7	2.5	NA	NA	
Spot 135	155	22688.8	1.8	17.9	2.7	0.7	3.8	0.1	2.7	0.716603831	564.7	14.9	541.0	16.1	442.4	59.5	-27.6
Spot 136	465	175197.7	1.6	18.2	2.1	0.3	3.2	0.0	2.3	0.736509924	268.0	6.1	285.4	7.9	431.0	47.6	37.8
Spot 137	497	83212.1	3.1	14.1	1.1	1.5	1.8	0.2	1.4	0.791327551	903.3	12.0	923.8	10.9	973.1	22.4	7.2
Spot 139	535	6498.7	1.2	12.2	4.4	0.5	4.7	0.0	1.2	0.260338333	268.2	3.2	393.3	15.3	1216.0	88.9	77.9
Spot 140	1614	585057.1	4.3	12.6	0.9	2.2	1.4	0.2	1.0	0.766888279	1184.3	11.2	1188.0	9.5	1194.7	17.1	0.9
Spot 141	208	28618.5	3.1	14.5	1.2	1.3	1.7	0.1	1.2	0.694658529	801.5	8.9	828.1	9.7	900.2	25.3	11.0
Spot 142	410	135790.1	3.2	12.3	0.7	2.4	1.4	0.2	1.2	0.843815112	1220.4	12.8	1231.4	9.7	1250.7	14.3	2.4
Spot 143	91	885.0	3.3	16.4	4.4	0.2	6.6	0.0	1.6	0.236515259	215.8	3.3	193.6	11.7	NA	NA	
Spot 144	193	4243.2	0.9	19.0	3.0	0.3	4.8	0.0	3.4	0.707665938	276.3	9.1	266.6	11.2	182.3	78.7	-51.5
Spot 146	83	466868.7	2.5	13.2	2.0	1.9	3.5	0.2	2.9	0.819041945	1092.8	29.2	1094.8	23.8	1098.7	40.7	0.5
Spot 147	438	5905.3	0.7	20.0	1.9	0.3	5.5	0.0	5.1	0.933857331	302.4	15.0	280.0	13.3	96.2	46.2	####
Spot 148	602	12537.3	1.2	18.5	2.2	0.3	2.8	0.0	1.7	0.6030528	260.4	4.3	268.6	6.5	341.1	49.9	23.6
Spot 149	288	20094.1	1.8	18.3	2.9	0.3	3.5	0.0	1.9	0.542155654	279.7	5.2	291.0	8.8	382.8	66.0	26.9
Spot 150	2076	21995.0	1.8	18.8	0.9	0.4	1.6	0.1	1.3	0.823429877	338.4	4.3	336.2	4.5	321.3	20.3	-5.3
Spot 151	355	1585.4	0.8	19.2	1.4	0.3	2.2	0.0	1.6	0.726222233	279.3	4.4	236.3	4.7	NA	NA	
Spot 152	260	2785.5	1.0	18.3	2.6	0.3	4.3	0.0	2.6	0.622784531	249.4	6.5	243.3	9.2	184.9	77.5	-34.9
Spot 153	837	40604.6	0.8	12.8	0.8	2.0	1.6	0.2	1.4	0.867641975	1103.8	14.3	1122.6	11.0	1159.1	16.0	4.8
Spot 155	869	21159.4	1.8	17.3	0.7	0.6	1.3	0.1	1.0	0.808178954	444.7	4.5	455.3	4.8	509.1	16.8	12.6
Spot 158	793	10218.7	13.3	19.5	1.3	0.3	1.9	0.0	1.4	0.733913276	242.1	3.3	238.0	4.0	198.2	29.7	-22.2
Spot 159	974	137914.1	9.2	7.2	1.3	1.9	6.0	0.1	5.9	0.975762616	623.4	34.9	1096.3	40.4	2212.8	22.8	71.8
Spot 160	151	7967.1	3.3	14.1	1.6	1.4	2.6	0.1	2.0	0.774845219	870.0	16.1	883.8	15.1	918.4	33.2	5.3
Spot 162	1052	32479.7	2.6	11.4	0.8	2.8	1.4	0.2	1.1	0.809732093	1346.6	13.4	1359.0	10.2	1378.6	15.3	2.3
Spot 163	241	2103.4	1.3	19.7	4.0	0.2	6.3	0.0	3.0	0.475404056	206.6	6.1	184.0	10.6	NA	NA	
Spot 164	150	4429.7	3.4	13.8	1.2	1.5	3.0	0.2	1.5	0.508438771	921.9	13.0	925.3	18.0	933.3	52.5	1.2
Spot 165	329	15943.4	1.1	11.6	0.8	2.7	1.5	0.2	1.3	0.844205729	1298.6	15.2	1317.6	11.3	1348.5	15.9	3.7
Spot 166	327	10589.9	2.2	19.1	1.6	0.3	2.3	0.0	1.6	0.700283946	284.0	4.5	281.8	5.6	263.8	37.6	-7.7
Spot 167	794	403580.2	3.6	13.6	1.1	1.6	1.9	0.2	1.5	0.797377418	946.3	13.1	977.6	11.7	1048.8	22.7	9.8
Spot 168	853	238224.2	8.6	18.3	1.7	0.3	2.2	0.0	1.4	0.623610415	275.9	3.8	291.3	5.7	416.7	39.1	33.8
Spot 169	109	10461.8	2.3	13.7	2.3	1.4	3.5	0.1	2.6	0.754640006	834.9	20.5	879.8	20.4	994.5	46.3	16.1
Spot 171	206	8515.5	1.0	16.8	1.7	0.6	2.7	0.1	2.1	0.777072547	444.2	9.2	460.9	10.2	545.1	37.7	18.5
Spot 172	860	35724.1	2.7	11.4	0.7	2.4	1.6	0.2	1.5	0.899009888	1155.7	15.4	1236.4	11.6	1379.9	13.7	16.2
Spot 173	261	14908.0	2.7	12.3	1.0	2.3	1.8	0.2	1.4	0.802719644	1216.1	15.8	1219.8	12.6	1226.2	20.8	0.8

Spot 174	315	39599.3	1.4	13.5	2.2	1.8	3.5	0.2	2.7	0.784115883	1071.0	27.0	1061.8	23.0	1042.9	43.7	-2.7
Spot 176	326	17861.0	1.5	18.4	1.3	0.4	2.4	0.1	2.0	0.832194637	337.9	6.6	341.7	6.9	367.4	29.9	8.0
Spot 177	1020	30436.1	2.4	13.5	0.9	1.8	1.9	0.2	1.7	0.870086012	1024.7	15.8	1029.9	12.4	1041.0	19.1	1.6
Spot 178	1243	36419.5	2.4	13.9	2.0	0.5	2.7	0.1	1.8	0.676432845	323.6	5.8	418.6	9.3	982.4	40.8	67.1
Spot 179	674	39351.6	2.1	13.0	0.8	1.9	1.8	0.2	1.6	0.892290812	1050.6	15.8	1076.4	12.1	1129.1	16.4	7.0
Spot 181	362	3979.8	1.4	17.8	1.3	0.5	2.3	0.1	1.8	0.777882479	464.2	8.0	441.5	8.3	324.7	32.9	-43.0
Spot 182	402	463138.5	4.6	14.0	1.2	1.5	2.3	0.2	1.9	0.837453752	915.6	16.2	934.7	13.8	980.0	25.2	6.6
Spot 183	553	35002.9	1.5	11.9	1.0	2.5	1.9	0.2	1.7	0.856449703	1261.4	19.1	1278.0	14.1	1305.9	19.5	3.4
Spot 184	207	72459.2	3.2	11.2	1.5	2.6	2.0	0.2	1.3	0.651133168	1244.8	14.6	1308.2	14.6	1413.9	28.8	12.0
Spot 186	1977	35329.8	26.0	13.7	1.5	1.1	2.1	0.1	1.4	0.682278824	679.4	9.1	762.3	11.1	1013.7	30.8	33.0
Spot 187	588	11446.4	3.3	14.7	1.5	0.9	3.0	0.1	2.5	0.830739516	573.7	13.7	633.0	14.2	851.1	34.8	32.6
Spot 188	174	1691.9	1.2	29.1	2.1	0.2	11.8	0.1	2.0	0.167911383	409.9	7.8	211.7	22.5	NA	NA	
Spot 189	213	17449.9	2.2	11.5	1.0	2.5	2.8	0.2	2.6	0.926562949	1235.2	29.0	1277.4	20.2	1349.0	20.2	8.4
Spot 190	424	5086.2	1.2	18.5	2.4	0.3	3.5	0.0	2.4	0.673261947	299.4	6.9	294.4	9.0	255.6	59.7	-17.1
Spot 191	1114	8338.5	2.3	19.0	0.9	0.4	1.4	0.1	1.2	0.803578186	398.4	4.5	376.8	4.5	246.3	19.8	-61.8
Spot 193	2011	169908.0	3.3	12.8	1.1	2.1	2.6	0.2	2.4	0.914724844	1126.1	24.7	1138.1	17.9	1160.9	21.0	3.0
Spot 194	183	155404.6	2.7	13.9	2.2	1.5	3.3	0.1	2.5	0.756856681	900.8	21.0	927.7	20.1	992.1	43.9	9.2
Spot 195	592	7976.2	1.1	19.8	1.5	0.3	2.5	0.0	1.6	0.632576215	281.4	4.4	267.1	6.0	143.0	46.3	-96.9
Spot 196	920	3508.9	1.4	19.2	1.6	0.3	2.8	0.0	1.6	0.558024844	248.5	3.8	235.0	5.8	102.6	54.7	####
Spot 197	897	9681.8	1.1	19.2	1.1	0.3	1.9	0.0	1.5	0.773502767	271.2	4.0	267.5	4.6	235.1	28.5	-15.3
Spot 198	775	37594.8	5.3	11.9	0.6	2.6	1.3	0.2	1.2	0.909149819	1311.1	14.5	1303.3	9.9	1290.4	10.9	-1.6
Spot 199	400	46845.4	3.2	7.2	0.9	7.4	1.5	0.4	1.2	0.812208549	2114.1	22.5	2163.7	13.7	2211.0	15.5	4.4
Spot 200	1503	20998.4	3.3	11.6	0.7	2.2	1.8	0.2	1.6	0.9129273	1081.4	16.1	1168.1	12.3	1332.6	14.0	18.8
Spot 201	2095	121685.5	8.0	14.4	0.8	1.4	1.7	0.1	1.5	0.875539514	864.9	12.2	882.9	10.1	928.2	17.1	6.8
Spot 202	1159	33463.7	6.9	14.1	1.0	1.5	1.5	0.2	1.1	0.746565997	936.4	9.9	941.4	9.3	953.2	20.6	1.8
Spot 203	2376	7952.5	29.1	13.7	0.8	1.4	1.6	0.1	0.8	0.50278154	854.4	6.6	889.8	9.8	978.8	29.0	12.7
Spot 204	999	11713.0	1.3	19.0	1.6	0.3	2.0	0.0	1.3	0.627068004	275.9	3.4	275.6	4.9	273.3	36.3	-0.9
Spot 205	464	21677.0	1.5	17.8	2.7	0.3	3.1	0.0	1.6	0.509443591	270.0	4.2	289.7	7.8	452.1	59.0	40.3
Spot 206	341	31187.1	3.1	13.1	1.1	1.9	1.8	0.2	1.5	0.809187709	1041.2	14.3	1064.5	12.1	1112.3	21.5	6.4
Spot 207	143	30995.5	2.7	12.1	1.3	2.2	2.3	0.2	1.8	0.813613377	1127.0	19.0	1177.5	15.8	1271.5	25.6	11.4
Spot 208	628	17186.7	1.3	18.7	1.8	0.3	2.5	0.0	1.7	0.677032213	269.5	4.4	276.8	6.0	339.5	41.0	20.6
Spot 209	390	318288.4	2.9	9.3	1.4	4.3	2.1	0.3	1.6	0.752818564	1614.1	22.3	1688.2	17.1	1781.4	24.9	9.4
Spot 210	989	115382.2	8.1	12.8	1.0	2.0	1.7	0.2	1.5	0.836737779	1075.5	14.4	1105.0	11.7	1163.6	18.9	7.6
Spot 211	474	14093.4	2.0	12.7	1.1	2.1	1.6	0.2	1.2	0.740102772	1123.3	12.5	1135.2	11.2	1158.0	21.8	3.0
Spot 212	299	14326.6	2.7	12.4	1.4	2.0	2.2	0.2	1.8	0.782952172	1087.0	17.6	1128.3	15.3	1208.5	27.5	10.1
Spot 214	711	37267.2	2.5	13.5	0.9	1.7	2.0	0.2	1.8	0.893963184	1000.2	16.3	1017.3	12.6	1054.2	17.7	5.1
Spot 215	505	11533.6	1.0	16.6	2.2	0.6	2.6	0.1	1.2	0.474353061	467.9	5.5	490.1	10.0	595.5	49.0	21.4
Spot 216	706	30184.8	4.1	18.1	4.8	0.1	5.7	0.0	2.9	0.514741485	72.1	2.1	83.5	4.5	422.3	108.3	82.9
Spot 217	753	23764.1	1.1	10.1	0.9	3.5	2.1	0.3	1.8	0.89062725	1479.7	24.4	1533.8	16.4	1609.1	17.6	8.0
Spot 218	279	14052.7	1.1	13.6	1.6	1.7	2.0	0.2	1.3	0.649085493	977.5	12.1	991.8	13.0	1023.6	31.6	4.5
Spot 220	740	27525.9	3.7	12.6	0.6	2.1	1.3	0.2	1.2	0.872996093	1107.2	11.8	1133.9	9.1	1185.4	12.8	6.6
Spot 221	349	2974.1	2.1	17.9	3.2	0.3	4.5	0.0	3.0	0.671863286	276.4	8.2	275.4	10.8	266.7	76.2	-3.6
Spot 222	785	213190.7	7.7	12.5	1.0	2.1	1.5	0.2	1.1	0.731546158	1098.4	10.9	1137.5	10.1	1212.8	19.7	9.4

Spot 223	1476	181607.0	1.6	13.9	1.3	1.0	2.2	0.1	1.8	0.816631919	596.2	10.3	689.9	11.0	1008.6	25.8	40.9
Spot 224	618	11117.5	8.3	10.7	1.2	2.8	2.0	0.2	1.6	0.784726014	1276.0	18.1	1355.9	14.9	1484.1	23.4	14.0
Spot 225	364	15671.4	3.2	13.6	0.9	1.7	1.6	0.2	1.3	0.821585832	1002.6	12.0	1006.7	10.1	1015.6	18.2	1.3
Spot 226	336	18209.3	1.5	17.3	3.8	0.4	4.4	0.0	2.2	0.510241707	278.3	6.1	305.2	11.6	516.4	83.2	46.1
Spot 227	665	16493.2	15.7	19.6	1.7	0.3	2.3	0.0	1.4	0.638381411	246.1	3.5	243.6	4.9	219.5	40.4	-12.2
Spot 228	245	11301.2	2.7	10.3	1.3	3.3	2.3	0.2	1.9	0.832946565	1425.5	24.5	1481.3	17.9	1562.2	23.9	8.7
Spot 229	254	26975.4	0.8	16.4	5.4	0.3	6.7	0.0	4.0	0.59987954	189.5	7.5	227.1	13.7	637.1	116.0	70.3
Spot 230	250	10221.7	2.7	12.2	3.9	2.2	5.7	0.2	4.1	0.731665679	1153.5	43.8	1180.4	39.6	1230.1	75.9	6.2
Spot 231	526	8707.3	1.7	18.5	2.2	0.3	2.9	0.0	1.8	0.625711111	274.3	4.8	279.5	7.0	323.2	50.7	15.1
Spot 232	686	35892.4	1.4	18.2	1.9	0.3	2.2	0.0	1.0	0.462887015	276.6	2.7	291.3	5.5	410.7	43.1	32.6
Spot 233	241	5624.9	4.0	18.1	1.6	0.4	2.5	0.1	1.9	0.749153952	327.2	6.0	327.2	7.0	327.7	37.6	0.2
Spot 234	1100	87418.8	4.7	12.8	0.8	2.1	1.5	0.2	1.3	0.86159824	1128.1	13.2	1140.6	10.2	1164.4	14.9	3.1
Spot 235	357	42989.4	0.9	13.9	1.5	1.6	2.2	0.2	1.6	0.72392496	986.7	14.5	989.4	13.8	995.2	30.7	0.9
Spot 237	476	29840.0	3.5	12.9	1.0	2.1	2.0	0.2	1.7	0.84883966	1158.5	17.7	1149.3	13.6	1132.1	20.7	-2.3
Spot 239	323	23165.4	2.0	13.9	1.0	1.6	2.1	0.2	1.9	0.888546884	948.6	16.5	960.4	13.1	987.6	19.7	4.0
Spot 240	253	99915.5	1.7	17.8	2.7	0.3	3.4	0.0	2.1	0.612658426	261.8	5.4	284.2	8.4	472.8	59.6	44.6
Spot 243	704	9324.2	1.7	18.6	1.3	0.3	2.3	0.0	1.6	0.661258418	276.7	4.2	279.7	5.7	305.0	40.2	9.3
Spot 244	1487	40266.0	3.6	12.3	0.9	2.0	1.5	0.2	1.2	0.77629438	1044.0	11.2	1105.4	10.1	1228.2	18.5	15.0
Spot 245	501	25018.7	2.4	10.9	0.7	3.0	1.6	0.2	1.4	0.882860113	1378.3	17.1	1413.2	11.9	1466.4	13.9	6.0
Spot 246	348	10243.7	0.7	19.1	2.8	0.3	3.5	0.0	2.1	0.600633166	261.6	5.4	260.7	8.1	253.5	64.8	-3.2
Spot 247	704	3918.9	8.8	18.9	2.0	0.2	3.0	0.0	2.1	0.693849466	228.4	4.7	223.0	6.0	166.8	50.5	-36.9
Spot 248	1802	45694.7	7.0	12.9	0.8	2.1	1.5	0.2	1.2	0.834054742	1158.5	13.0	1149.0	10.1	1131.0	16.1	-2.4
Spot 249	1099	14458.3	8.1	19.7	1.3	0.3	1.9	0.0	1.3	0.673306844	236.1	2.9	232.4	3.9	195.0	32.0	-21.0
Spot 251	211	14514.4	2.2	11.4	1.2	2.7	2.3	0.2	2.0	0.841819726	1303.5	23.2	1329.8	17.3	1372.3	24.2	5.0
Spot 252	316	924233.1	2.7	11.8	1.1	2.6	1.7	0.2	1.4	0.788578781	1286.3	16.1	1297.2	12.8	1315.2	20.8	2.2
Spot 253	198	11761.0	2.7	14.2	1.3	1.5	1.8	0.2	1.2	0.656604547	931.9	10.3	928.8	11.0	921.4	28.1	-1.1
Spot 254	417	2277.1	1.1	18.5	1.1	0.3	2.1	0.0	1.7	0.791534703	273.3	4.5	255.4	4.8	93.6	30.7	####
Spot 255	304	20802.3	1.4	12.7	1.0	2.2	1.6	0.2	1.2	0.782082773	1168.3	13.1	1165.1	10.8	1159.0	19.3	-0.8
Spot 256	1443	56692.0	3.4	12.6	1.0	2.3	1.5	0.2	1.2	0.787803033	1218.1	13.5	1206.1	10.9	1184.8	18.8	-2.8
Spot 259	371	13118.9	1.9	13.7	1.1	1.7	2.0	0.2	1.7	0.83202172	1016.8	15.9	1011.4	13.0	999.7	22.9	-1.7
Spot 260	666	35211.3	1.2	20.1	1.4	0.3	2.1	0.0	1.5	0.716006698	230.9	3.4	227.2	4.2	188.5	33.6	-22.5
Spot 261	633	36379.8	2.5	8.8	0.8	4.3	1.9	0.3	1.7	0.893849938	1564.0	23.4	1698.0	15.6	1867.6	15.3	16.3
Spot 262	401	28085.2	3.5	11.6	0.8	2.8	1.5	0.2	1.2	0.822823017	1340.1	14.7	1343.9	11.0	1350.1	16.2	0.7
Spot 263	320	9372.4	0.7	16.9	1.3	0.8	1.8	0.1	1.2	0.662666501	579.4	6.7	569.8	7.9	531.4	29.9	-9.0
Spot 264	957	5747.3	3.8	19.2	1.6	0.3	3.3	0.0	1.3	0.395713798	288.8	3.7	278.8	8.0	195.4	70.0	-47.8
Spot 265	127	356343.5	0.9	12.9	1.0	2.1	2.6	0.2	2.4	0.914638353	1155.3	24.9	1151.0	17.7	1143.0	20.7	-1.1
Spot 266	683	8401.8	5.0	18.6	2.5	0.3	3.7	0.0	2.6	0.699339711	237.6	6.1	244.0	8.1	305.4	60.6	22.2
Spot 267	77	4043.2	2.3	14.3	1.7	1.3	3.2	0.1	2.7	0.835959959	829.4	20.9	831.2	18.2	836.2	36.7	0.8
Spot 268	176	8095.8	3.4	14.3	1.5	1.4	2.3	0.2	1.7	0.757566954	907.8	14.5	904.5	13.6	896.4	30.5	-1.3
Spot 269	465	28578.2	4.0	12.5	0.9	2.2	1.4	0.2	1.1	0.785830859	1188.3	12.0	1190.9	9.9	1195.8	17.2	0.6
Spot 270	147	15136.6	1.2	15.4	7.5	0.3	9.2	0.0	5.2	0.570774147	187.7	9.7	237.2	19.4	760.7	159.1	75.3
Spot 271	90	5211.6	1.9	12.4	1.9	2.0	3.3	0.2	2.2	0.681697891	1085.2	22.1	1110.1	21.9	1159.2	47.2	6.4
Spot 272	602	115278.1	2.1	11.5	1.1	2.6	2.6	0.2	2.4	0.904918499	1273.6	27.7	1309.5	19.5	1368.7	21.7	6.9

Spot 273	509	78644.4	4.4	12.5	0.9	2.2	1.6	0.2	1.3	0.811551344	1167.7	14.0	1184.1	11.3	1214.2	18.6	3.8
Spot 274	1370	28927.1	0.8	19.2	1.1	0.3	1.9	0.0	1.5	0.788770345	273.2	4.0	274.6	4.5	286.8	26.4	4.7
Spot 276	114	5156.1	2.6	13.8	2.8	1.4	4.4	0.1	3.3	0.74496406	846.7	25.9	870.5	25.6	931.5	60.0	9.1
Spot 277	621	7075.3	1.8	19.7	0.9	0.3	1.6	0.0	1.3	0.808666011	270.9	3.5	259.1	3.7	153.2	22.3	-76.8
Spot 278	144	30510.7	1.7	12.2	2.6	2.1	3.0	0.2	1.5	0.505817156	1114.5	15.7	1164.5	21.1	1258.7	51.3	11.5
Spot 279	1149	69389.8	2.7	12.7	1.0	2.1	1.4	0.2	1.0	0.707561984	1127.5	10.5	1147.9	9.9	1186.6	20.0	5.0
Spot 280	126	8439.4	2.1	12.7	1.3	2.0	1.9	0.2	1.2	0.640146543	1120.2	12.6	1129.8	13.0	1148.3	29.1	2.4
Spot 281	811	56733.6	2.3	12.3	0.9	2.2	1.7	0.2	1.4	0.828363925	1159.7	14.8	1186.5	11.8	1235.6	18.5	6.1
Spot 283	487	34674.3	1.1	17.1	1.5	0.6	2.2	0.1	1.6	0.728931812	456.3	7.0	471.2	8.3	544.9	32.9	16.3
Spot 285	470	5536.6	4.1	16.8	1.2	0.6	2.1	0.1	1.7	0.801548945	496.2	8.0	496.6	8.2	498.9	27.6	0.5
Spot 287	625	687.5	2.3	17.1	4.5	0.1	5.6	0.0	3.2	0.568114443	69.3	2.2	54.3	3.0	NA	NA	
Spot 289	1851	18417.0	2.3	19.7	2.0	0.1	2.8	0.0	2.0	0.719737507	72.9	1.5	77.3	2.1	212.7	45.4	65.7
Spot 290	196	32108.3	1.6	7.8	0.8	6.5	1.4	0.4	1.1	0.806232829	2022.2	19.3	2048.8	12.1	2075.8	14.3	2.6
Spot 291	314	375210.8	3.3	11.8	1.6	2.6	2.5	0.2	2.0	0.776713822	1279.4	22.8	1294.0	18.5	1318.2	30.9	2.9
Spot 292	1471	35374.4	4.2	18.2	1.3	0.3	2.0	0.0	1.5	0.757958687	267.5	4.0	282.9	5.0	412.2	29.4	35.1
Spot 293	391	10561.3	1.5	16.5	2.3	0.6	3.2	0.1	2.3	0.705081103	483.5	10.6	501.9	12.8	587.0	49.9	17.6
Spot 294	225	7685.7	5.2	16.7	2.8	0.5	4.0	0.1	2.5	0.633831482	377.0	9.2	402.2	13.1	549.9	66.8	31.5
Spot 296	136	12784.3	1.0	12.8	2.2	1.7	3.7	0.2	3.0	0.795391395	952.7	26.2	1011.9	23.8	1142.3	44.8	16.6
Spot 297	1297	39594.7	1.3	9.6	1.4	3.9	2.2	0.3	1.6	0.751627949	1550.3	22.3	1615.6	17.4	1701.7	26.2	8.9
Spot 298	747	132671.1	3.4	13.1	1.2	2.0	2.0	0.2	1.7	0.819090774	1137.4	17.4	1131.2	13.9	1119.3	23.3	-1.6
Spot 300	966	17217.2	1.4	17.3	1.3	0.5	2.2	0.1	1.7	0.794723123	389.2	6.5	406.9	7.3	508.4	29.0	23.4
Spot 301	651	28124.1	3.6	10.7	2.7	2.7	3.0	0.2	1.4	0.477668934	1233.1	16.2	1334.6	22.4	1501.4	50.2	17.9
Spot 302	326	10773.3	3.4	13.5	0.9	1.8	1.6	0.2	1.4	0.846567743	1041.5	13.1	1035.7	10.5	1023.5	17.4	-1.8
Spot 303	688	56269.3	9.1	18.8	2.0	0.3	2.4	0.0	1.3	0.548295832	235.4	3.1	245.7	5.3	344.8	46.0	31.7
Spot 304	167	51694.4	1.2	13.9	1.6	1.7	2.3	0.2	1.7	0.717110036	1033.4	16.0	1020.1	15.1	991.7	33.2	-4.2
Spot 305	695	34204.1	2.7	12.7	2.4	0.8	3.0	0.1	1.8	0.594819851	464.8	8.0	605.0	13.7	1172.4	48.0	60.4
Spot 307	717	34784.6	18.1	13.7	0.9	1.7	1.5	0.2	1.2	0.811377961	981.9	11.3	993.9	9.7	1020.4	18.1	3.8
Spot 308	165	4773.6	0.7	19.3	5.1	0.2	7.4	0.0	5.4	0.727532707	204.9	10.8	201.7	13.5	164.3	118.6	-24.7
Spot 309	196	9123.0	1.9	13.9	3.2	1.4	3.8	0.1	2.1	0.544367797	890.1	17.4	909.0	23.1	955.1	66.0	6.8
Spot 310	131	10015.7	3.5	12.8	1.8	1.9	2.5	0.2	1.5	0.616170694	1070.1	14.9	1093.5	16.5	1140.3	38.5	6.2
Spot 311	417	4885.4	1.1	17.1	2.3	0.5	4.3	0.1	2.4	0.564234314	438.0	10.3	441.8	15.4	461.5	78.7	5.1
Spot 312	698	30039.3	1.4	19.5	1.0	0.3	1.4	0.0	1.0	0.68905515	269.2	2.6	268.4	3.4	261.4	23.9	-3.0
Spot 313	1260	113917.5	2.4	12.4	1.0	2.1	1.6	0.2	1.2	0.785341115	1131.9	12.7	1164.7	10.8	1226.2	19.0	7.7
Spot 314	463	15514.8	2.0	19.2	1.7	0.3	2.4	0.0	1.7	0.71162806	284.4	4.8	284.0	6.0	280.5	39.2	-1.4
Spot 315	301	38436.4	13.4	13.2	1.0	1.6	2.8	0.2	2.6	0.925587593	905.1	21.6	964.2	17.2	1101.4	20.9	17.8
Run 2 NM8A (discordant)																	
Spot 1	1283	40478.1	4.5	6.1	0.9	4.7	2.7	0.2	2.6	0.944988191	1209.2	28.3	1761.6	22.7	2498.3	14.9	51.6
Spot 103	225	23668.8	1.4	13.1	2.9	2.1	4.3	0.2	3.2	0.736417765	1176.5	33.9	1150.5	29.5	1101.9	57.9	-6.8
Spot 106	49	16823.3	2.9	13.9	2.8	1.3	5.4	0.1	4.6	0.860251322	787.6	34.4	842.3	30.9	989.6	56.0	20.4
Spot 12	458	3570.1	1.3	20.6	2.8	0.3	6.9	0.0	6.3	0.912108819	278.2	17.0	262.0	15.9	119.6	66.3	####
Spot 121	2397	135660.8	24.5	13.8	0.8	2.0	1.4	0.2	1.2	0.810776541	1148.5	12.2	1099.9	9.6	1004.8	17.0	-14.3
Spot 123	2268	31807.7	13.1	10.0	1.1	2.2	2.1	0.2	1.8	0.857928572	958.3	15.7	1186.0	14.4	1628.9	19.6	41.2
Spot 138	966	59616.5	8.9	29.5	1.6	0.3	30.0	0.1	30.0	0.998577791	348.8	101.9	234.7	63.0	NA	NA	

Spot 145	211	2202.9	4.9	11.2	5.8	2.0	6.4	0.2	2.6	0.413376682	991.1	24.3	1131.0	43.7	1410.4	111.6	29.7
Spot 154	1948	424047.7	52.0	11.1	0.9	1.9	1.4	0.2	1.1	0.793660327	930.8	9.8	1089.4	9.5	1421.8	16.6	34.5
Spot 156	170	4375.6	0.8	26.0	4.2	0.2	30.3	0.0	30.0	0.990156145	233.2	68.7	180.9	50.2	NA	NA	
Spot 157	880	4594.8	3.1	12.7	4.1	1.3	4.3	0.1	1.2	0.268504819	724.7	7.9	840.5	24.6	1160.0	82.3	37.5
Spot 16	86	1734.3	1.3	14.1	2.8	1.7	3.5	0.2	2.0	0.576623193	1029.1	19.0	1006.3	22.1	957.1	57.7	-7.5
Spot 161	231	15410.8	2.4	14.1	3.6	2.1	11.7	0.2	11.1	0.951091625	1233.2	124.4	1135.7	79.8	953.7	73.6	-29.3
Spot 170	554	99737.4	4.6	13.8	1.5	1.2	2.3	0.1	1.7	0.749323796	708.9	11.5	783.7	12.5	1002.7	30.8	29.3
Spot 175	256	11220.0	3.8	13.2	3.6	2.1	6.0	0.2	4.8	0.804864508	1193.3	52.5	1155.7	41.3	1086.0	71.2	-9.9
Spot 18	670	43756.7	1.7	20.7	2.7	1.9	17.2	0.3	17.0	0.987620744	1624.9	244.0	1084.2	115.0	113.9	63.6	####
Spot 180	97	3632.8	2.7	14.9	3.5	1.4	4.0	0.1	1.9	0.479807785	887.2	16.0	875.0	23.6	844.5	73.6	-5.1
Spot 185	2350	85823.4	8.0	14.3	0.9	1.6	1.5	0.2	1.2	0.82367073	1010.2	11.6	983.9	9.5	925.9	17.6	-9.1
Spot 192	949	64196.5	3.5	13.3	1.3	1.3	2.0	0.1	1.5	0.761071672	750.6	10.7	838.5	11.3	1079.1	25.7	30.4
Spot 213	140	934.9	1.2	34.2	5.7	0.2	8.9	0.1	6.9	0.768120718	377.4	25.1	221.0	17.7	NA	NA	####
Spot 219	123	20985.2	1.4	15.9	4.1	1.3	8.9	0.2	7.9	0.887139916	904.3	66.6	849.0	51.3	707.3	87.4	-27.9
Spot 236	89	3232.1	3.1	15.2	3.6	1.3	5.4	0.1	4.0	0.743349589	882.9	33.1	860.1	31.4	801.6	75.7	-10.1
Spot 238	2618	480607.5	0.8	13.7	0.8	1.9	1.2	0.2	0.9	0.767708987	1128.9	9.5	1092.1	8.0	1019.4	15.5	-10.7
Spot 241	58	2874.3	1.3	13.7	2.0	1.9	2.6	0.2	1.6	0.630510875	1121.8	17.0	1085.6	17.4	1013.9	41.1	-10.6
Spot 242	803	338.0	2.9	5.1	32.8	0.9	33.1	0.0	4.2	0.127933715	199.7	8.3	629.0	156.4	2808.3	553.9	92.9
Spot 250	122	16480.0	0.3	13.3	2.5	1.4	4.0	0.1	3.1	0.772166465	831.8	23.8	901.5	23.6	1076.5	50.4	22.7
Spot 257	220	5840.8	1.2	23.8	3.6	0.2	15.5	0.0	15.1	0.972659886	190.4	28.3	162.7	23.3	NA	NA	
Spot 258	173	13996.8	3.6	13.4	1.9	2.0	2.8	0.2	2.1	0.751587234	1123.1	22.0	1098.8	19.1	1051.1	37.7	-6.8
Spot 275	84	6278.2	2.0	13.2	1.6	2.1	2.5	0.2	2.0	0.785904688	1195.8	21.6	1158.4	17.4	1089.0	31.1	-9.8
Spot 282	781	7784.9	0.8	20.6	2.7	0.3	8.9	0.0	8.4	0.95273762	280.9	23.2	264.9	20.6	125.5	63.3	####
Spot 284	83	5496.8	0.9	14.5	4.2	1.5	8.4	0.2	7.3	0.86968868	938.7	64.1	927.1	51.3	899.7	85.9	-4.3
Spot 286	1808	20193.1	17.1	25.6	1.8	0.3	29.9	0.0	29.9	0.998130199	303.3	88.5	234.2	62.7	NA	NA	
Spot 288	273	22216.7	1.9	20.7	2.7	0.3	18.3	0.0	18.0	0.988969379	296.6	52.3	276.8	44.2	112.8	63.8	####
Spot 295	607	41209.9	2.2	6.5	1.0	6.5	1.9	0.3	1.6	0.848676968	1725.0	24.7	2049.7	16.9	2394.2	17.3	28.0
Spot 299	337	332.7	2.2	4.9	16.6	8.5	18.0	0.3	7.0	0.388377772	1707.9	105.2	2287.9	165.4	2855.8	272.8	40.2
Spot 30	86	1936.6	1.2	23.0	10.6	0.2	30.5	0.0	28.6	0.937523225	251.8	70.7	217.1	59.8	NA	NA	
Spot 306	283	41200.8	5.1	5.4	1.6	5.5	4.3	0.2	4.0	0.930377403	1271.5	46.4	1908.1	37.2	2694.2	26.2	52.8
Spot 53	2440	216863.6	36.9	14.4	1.6	1.7	2.4	0.2	1.8	0.754847348	1050.9	17.6	1005.9	15.4	909.2	32.5	-15.6
Spot 65	468	6273.4	2.0	32.2	3.4	0.1	30.2	0.0	30.0	0.993679468	172.3	51.0	111.4	31.9	NA	NA	
Spot 75	1080	23394.2	2.7	12.6	1.0	1.7	2.1	0.2	1.9	0.8715961	933.6	16.1	1008.9	13.6	1176.5	20.7	20.6
Spot 83	115	527571.1	1.3	12.5	4.1	1.7	5.1	0.2	3.0	0.596382473	920.1	25.9	1003.8	32.3	1191.3	80.2	22.8
Spot 91	1777	1571922.4	15.1	8.5	0.9	3.4	1.8	0.2	1.6	0.872629151	1237.9	17.8	1512.7	14.3	1921.7	15.9	35.6
Spot 96	431	38280.2	5.9	11.8	1.0	2.8	1.8	0.2	1.5	0.842388581	1389.9	19.0	1357.6	13.5	1307.1	18.9	-6.3
Run 3																	
Spot 1	694	12977.1	11.9	20.2	0.9	0.3	1.9	0.0	1.5	0.758160384	248.2	3.5	237.0	4.0	127.6	29.4	-94.5
Spot 2	147	2474.8	1.7	18.3	3.4	0.2	5.7	0.0	2.5	0.431696561	168.8	4.1	166.9	8.8	140.4	121.6	-20.2
Spot 3	217	6916.5	1.0	19.1	2.6	0.3	2.9	0.0	1.3	0.46226276	257.0	3.4	253.0	6.5	215.8	59.6	-19.1
Spot 4	287	9536.5	1.7	19.1	1.5	0.3	2.1	0.0	1.3	0.634866893	252.6	3.3	251.6	4.7	242.5	37.6	-4.1
Spot 5	721	28064.2	0.7	20.7	1.2	0.2	1.7	0.0	1.2	0.698019814	157.5	1.8	153.8	2.4	97.6	28.6	-61.3
Spot 6	488	37332.0	11.9	12.5	0.8	2.2	1.5	0.2	1.3	0.842048307	1158.4	13.8	1168.8	10.8	1188.3	16.5	2.5

Spot 7	391	56325.3	1.1	19.2	1.2	0.3	1.8	0.0	1.4	0.760239921	261.0	3.5	263.8	4.1	289.2	26.5	9.8
Spot 8	182	2066.6	0.9	19.5	1.7	0.2	6.7	0.0	1.4	0.210483797	199.1	2.8	177.8	10.9	NA	NA	
Spot 9	71	39327.0	1.5	13.4	1.3	1.7	2.0	0.2	1.5	0.761142706	973.7	13.9	994.9	12.8	1042.0	26.4	6.5
Spot 10	127	8198.4	2.1	19.2	1.5	0.4	2.7	0.1	2.0	0.752649085	340.3	6.6	322.0	7.3	192.1	40.6	-77.1
Spot 11	130	16406.9	2.0	9.6	0.8	4.2	1.7	0.3	1.5	0.888924139	1678.7	22.4	1674.0	14.0	1668.1	14.5	-0.6
Spot 12	508	305095.9	2.1	14.1	0.6	1.6	1.5	0.2	1.4	0.916766113	964.4	12.2	959.9	9.3	949.5	12.2	-1.6
Spot 14	407	23230.3	7.4	16.7	0.8	0.8	1.7	0.1	1.5	0.866380813	599.9	8.3	593.6	7.5	569.3	18.2	-5.4
Spot 15	71	15829.6	1.9	18.6	3.6	0.3	4.2	0.0	2.1	0.509676048	275.9	5.7	279.7	10.2	311.5	81.6	11.5
Spot 16	543	14709.6	2.0	19.1	1.3	0.3	1.8	0.0	1.1	0.629292683	274.6	3.1	271.6	4.3	245.6	32.4	-11.8
Spot 17	459	9307.1	1.9	19.3	1.5	0.3	2.3	0.0	1.3	0.548157533	280.6	3.5	272.0	5.5	198.5	44.7	-41.4
Spot 20	305	42970.1	6.5	12.8	0.9	1.8	1.8	0.2	1.5	0.862556631	1015.5	14.4	1054.4	11.7	1135.8	17.9	10.6
Spot 21	412	12551.5	1.2	19.0	1.0	0.3	1.8	0.0	1.3	0.707608194	274.8	3.5	271.9	4.3	247.2	29.6	-11.2
Spot 22	125	13569.9	1.0	20.3	2.6	0.2	4.1	0.0	3.2	0.782293344	189.9	6.0	183.5	6.9	101.1	60.4	-87.9
Spot 23	174	39337.7	5.6	11.1	0.8	3.0	1.5	0.2	1.2	0.82521729	1396.0	15.6	1401.1	11.5	1408.8	16.3	0.9
Spot 24	23	984.4	1.1	10.0	11.5	0.3	13.2	0.0	4.8	0.364539919	155.0	7.4	255.5	29.9	1321.3	239.6	88.3
Spot 25	444	25044.7	9.3	18.0	1.5	0.5	3.2	0.1	2.8	0.886325922	443.8	12.2	437.5	11.4	404.4	33.2	-9.8
Spot 27	434	2229.3	4.6	21.0	2.9	0.1	3.7	0.0	2.0	0.551274127	67.8	1.4	58.8	2.1	NA	NA	
Spot 28	378	19153.5	2.1	19.8	1.3	0.3	2.0	0.0	1.4	0.728126719	255.1	3.6	247.3	4.3	174.0	31.2	-46.6
Spot 29	386	158626.9	3.2	10.7	1.1	3.4	1.9	0.3	1.5	0.809798398	1534.1	20.5	1512.0	14.6	1481.0	20.7	-3.6
Spot 30	356	6345.6	1.1	19.2	1.1	0.3	2.2	0.0	1.4	0.662664154	283.9	4.0	272.9	5.2	179.2	38.2	-58.4
Spot 31	348	42231.9	1.5	11.9	0.7	2.4	1.5	0.2	1.4	0.896012242	1228.0	15.3	1247.1	11.0	1280.2	13.2	4.1
Spot 32	107	43872.7	1.0	6.9	1.0	7.9	2.0	0.4	1.8	0.878714214	2154.2	32.2	2214.3	18.0	2270.5	16.5	5.1
Spot 33	168	62400.0	2.4	11.2	0.9	3.1	1.6	0.3	1.3	0.831799109	1445.7	17.4	1425.1	12.4	1394.4	17.2	-3.7
Spot 35	410	209327.8	2.1	12.3	0.8	2.3	1.6	0.2	1.4	0.855530714	1207.4	15.4	1213.2	11.6	1223.4	16.7	1.3
Spot 36	62	22121.5	2.8	13.2	3.8	1.9	6.5	0.2	5.3	0.812157077	1106.5	53.4	1093.0	43.3	1066.1	75.9	-3.8
Spot 37	63	1682.2	2.3	19.4	4.4	0.2	6.7	0.0	3.3	0.499600118	171.0	5.6	149.0	9.3	NA	NA	
Spot 38	196	18586.2	3.9	12.5	1.0	2.2	2.0	0.2	1.7	0.861286795	1187.7	18.4	1179.8	13.7	1165.4	19.8	-1.9
Spot 39	42	1989.7	1.6	13.7	6.3	0.5	8.4	0.1	2.9	0.341349651	319.2	8.9	382.8	26.6	788.1	165.0	59.5
Spot 40	122	7027.1	2.7	21.6	3.7	0.1	6.1	0.0	4.8	0.784704587	93.7	4.4	86.4	5.0	NA	NA	
Spot 41	276	182844.6	1.2	9.2	0.8	4.7	1.5	0.3	1.4	0.873808771	1774.2	20.9	1775.2	13.0	1776.4	13.7	0.1
Spot 42	450	39974.6	7.6	11.8	0.9	2.0	1.5	0.2	1.2	0.81029068	1039.7	11.7	1122.1	10.2	1285.2	17.1	19.1
Spot 44	643	62574.3	1.2	13.6	0.7	1.7	1.6	0.2	1.5	0.900122824	984.5	13.4	991.0	10.3	1005.4	14.4	2.1
Spot 45	523	1547453.3	9.7	16.6	2.6	0.5	6.3	0.1	5.8	0.912696279	354.0	19.9	389.0	20.4	602.2	55.9	41.2
Spot 48	84	90610.2	3.3	11.8	0.9	2.5	1.8	0.2	1.6	0.878214162	1277.1	18.7	1284.8	13.4	1297.6	17.1	1.6
Spot 50	98	34862.2	1.8	9.1	1.2	4.6	1.9	0.3	1.6	0.796648315	1732.2	23.5	1752.8	16.2	1777.5	21.5	2.5
Spot 51	74	136719.4	3.9	14.1	1.4	1.5	2.8	0.1	2.5	0.87573057	900.3	20.9	912.6	17.1	942.5	28.1	4.5
Spot 52	109	33727.8	1.7	14.1	1.1	1.5	1.7	0.2	1.3	0.761387702	914.3	11.3	917.8	10.5	926.3	23.2	1.3
Spot 53	94	2361.0	2.1	17.8	1.8	0.3	4.6	0.0	2.0	0.439659716	279.9	5.5	270.1	10.9	185.6	96.2	-50.8
Spot 54	24	77877.6	1.2	12.5	2.2	2.0	3.5	0.2	2.7	0.766215579	1079.3	26.5	1115.2	23.6	1185.8	44.3	9.0
Spot 55	204	96478.8	5.1	12.9	0.8	2.0	1.5	0.2	1.3	0.851491663	1105.5	13.3	1109.2	10.4	1116.5	16.1	1.0
Spot 56	106	30564.6	2.5	12.7	1.3	2.2	2.1	0.2	1.6	0.770227678	1182.2	17.2	1166.4	14.3	1137.3	26.2	-3.9
Spot 57	250	167405.7	3.1	11.6	0.9	2.8	1.8	0.2	1.6	0.877083721	1370.6	19.6	1354.8	13.5	1329.9	16.8	-3.1
Spot 58	421	9243.1	1.4	18.5	1.9	0.3	2.3	0.0	1.2	0.521585558	275.4	3.2	277.8	5.6	297.7	45.0	7.5



Spot 60	317	13806.9	10.9	19.6	2.5	0.3	3.5	0.0	2.4	0.683277775	245.2	5.8	239.3	7.5	181.7	60.0	-34.9
Spot 61	149	12589.6	2.4	19.6	1.5	0.3	2.3	0.0	1.5	0.672104258	243.2	3.7	237.0	4.8	176.0	39.5	-38.2
Spot 62	242	7277.9	2.3	19.8	1.3	0.3	1.9	0.0	1.3	0.701470537	279.2	3.6	261.9	4.3	110.0	31.5	####
Spot 63	317	346833.6	27.3	19.2	1.5	0.3	2.3	0.0	1.7	0.748565748	259.2	4.4	260.6	5.3	273.6	35.0	5.3
Spot 65	88	7508.8	1.2	15.0	4.7	0.3	6.1	0.0	3.8	0.634279593	193.4	7.3	243.4	13.1	757.7	99.0	74.5
Spot 66	304	29387.5	9.1	19.7	1.6	0.3	2.2	0.0	1.5	0.680278162	250.6	3.7	245.8	4.8	200.5	37.7	-25.0
Spot 67	176	536255.0	3.7	11.4	0.9	2.9	1.4	0.2	1.1	0.764095384	1381.0	13.7	1376.4	10.9	1369.3	17.9	-0.9
Spot 68	378	12942.3	2.9	19.8	1.2	0.2	1.9	0.0	1.5	0.782637722	201.2	3.0	197.5	3.5	154.6	28.2	-30.1
Spot 69	190	127321.1	1.0	17.4	1.2	0.7	2.2	0.1	1.8	0.826734354	550.5	9.5	539.4	9.1	492.7	27.1	-11.7
Spot 71	535	18930.7	1.3	11.1	0.8	1.2	1.5	0.1	1.3	0.837206969	599.3	7.2	799.9	8.3	1408.8	15.7	57.5
Spot 72	264	36197.9	19.2	11.8	0.8	2.7	1.4	0.2	1.2	0.822107028	1337.3	14.3	1320.6	10.7	1293.6	16.0	-3.4
Spot 73	325	10755.1	17.8	15.7	1.5	0.8	2.6	0.1	2.1	0.820175437	585.5	12.0	606.1	11.9	684.1	31.8	14.4
Spot 75	694	42396.5	303.7	19.2	0.7	0.3	1.3	0.0	1.1	0.82091581	252.4	2.6	253.6	2.9	264.7	17.0	4.7
Spot 77	213	33980.7	1.8	19.0	1.3	0.3	2.0	0.0	1.5	0.740697065	289.2	4.2	288.9	5.0	286.1	30.6	-1.1
Spot 78	416	76449.7	2.1	18.9	1.2	0.3	1.7	0.0	1.3	0.744351983	238.7	3.0	245.6	3.8	312.1	26.2	23.5
Spot 79	245	20027.9	3.5	16.8	1.6	0.7	1.9	0.1	1.1	0.569766664	520.6	5.5	527.3	7.9	556.4	34.5	6.4
Spot 80	269	21557.4	1.7	19.4	1.3	0.3	2.2	0.0	1.8	0.80319128	280.2	4.8	274.7	5.3	227.9	30.2	-22.9
Spot 82	39	2954.0	4.3	15.5	2.4	0.8	2.9	0.1	1.5	0.537171077	614.7	9.0	607.3	13.1	579.8	52.5	-6.0
Spot 83	153	32208.3	1.5	11.9	1.5	2.1	4.5	0.2	4.3	0.945501326	1098.0	43.3	1161.5	31.4	1282.1	28.7	14.4
Spot 85	319	22946.9	1.6	19.6	1.0	0.3	1.6	0.0	1.2	0.769213179	313.5	3.8	301.8	4.2	212.5	23.9	-47.5
Spot 86	669	26673.3	0.9	19.3	1.0	0.3	1.4	0.0	1.0	0.713557575	271.4	2.7	268.5	3.4	243.3	23.0	-11.5
Spot 87	243	3864.3	3.7	19.2	1.4	0.3	2.0	0.0	1.4	0.685177434	239.9	3.2	228.0	4.1	106.7	34.3	####
Spot 88	148	24274.1	6.3	11.7	1.1	2.5	2.0	0.2	1.7	0.835388409	1270.6	19.5	1285.9	14.8	1311.5	21.6	3.1
Spot 90	135	12537.8	2.3	19.6	2.5	0.3	3.3	0.0	1.9	0.58980242	294.4	5.6	282.0	8.1	180.1	62.2	-63.5
Spot 91	114	44398.1	2.4	13.9	1.4	1.6	1.9	0.2	1.3	0.678647277	954.7	11.6	960.1	12.0	972.5	28.8	1.8
Spot 92	87	5381.2	1.9	19.2	2.2	0.3	3.3	0.0	2.4	0.735963654	288.7	6.9	274.9	8.0	159.2	52.4	-81.3
Spot 93	148	3622.2	1.6	18.9	2.4	0.3	5.1	0.0	1.5	0.305520558	291.3	4.4	274.5	12.1	132.9	113.1	####
Spot 94	182	13556.4	3.2	13.0	4.1	0.8	6.4	0.1	5.0	0.771780453	449.8	21.5	570.7	28.0	1087.1	81.9	58.6
Spot 96	385	30568.8	6.7	11.4	0.8	2.7	1.4	0.2	1.1	0.803446103	1301.1	13.3	1324.0	10.4	1361.1	16.2	4.4
Spot 97	315	187333.9	5.1	12.5	0.7	2.2	1.7	0.2	1.6	0.910027575	1159.0	16.6	1169.6	12.0	1189.5	14.1	2.6
Spot 98	605	2728298.7	1.0	17.7	2.2	0.3	2.6	0.0	1.3	0.514223107	281.6	3.7	302.5	6.9	467.0	49.8	39.7
Spot 99	149	5978.1	1.3	19.4	1.8	0.3	3.4	0.0	1.4	0.420006706	280.1	3.9	267.3	8.0	156.4	72.3	-79.1
Spot 100	67	14805.8	2.6	17.0	1.3	0.7	1.7	0.1	0.9	0.551847325	560.5	4.9	552.2	7.1	518.1	30.5	-8.2
Spot 101	354	588815.4	7.0	13.0	1.3	2.0	2.0	0.2	1.6	0.777764671	1100.1	15.8	1104.7	13.5	1113.7	25.2	1.2
Spot 102	127	14309.2	3.5	12.5	1.5	2.1	2.1	0.2	1.5	0.692440096	1121.2	15.3	1136.6	14.7	1166.0	30.6	3.8
Spot 103	64	7946.0	2.7	14.4	1.7	1.4	3.0	0.1	2.3	0.75707754	887.3	19.1	878.3	17.9	855.6	41.3	-3.7
Spot 104	350	146836.3	2.2	8.3	0.8	5.6	1.6	0.3	1.4	0.876421921	1880.1	22.6	1913.9	13.6	1950.6	13.6	3.6
Spot 106	37	3994.8	1.3	16.0	2.6	0.7	3.2	0.1	1.9	0.594423813	534.6	9.9	540.2	13.5	564.0	56.6	5.2
Spot 107	501	25843.3	1.7	19.3	1.0	0.3	1.3	0.0	0.9	0.697297869	238.1	2.2	239.0	2.9	248.0	22.2	4.0
Spot 108	173	2282.6	1.2	20.8	2.5	0.1	4.1	0.0	3.1	0.768964578	166.4	5.2	141.8	5.4	NA	NA	
Spot 109	621	97761.8	0.9	13.5	0.9	1.8	1.6	0.2	1.3	0.821683544	1032.0	12.3	1033.4	10.1	1036.3	18.0	0.4
Spot 110	567	59597.1	17.5	19.6	1.1	0.3	1.9	0.0	1.5	0.812084278	243.0	3.7	241.4	4.1	225.9	25.5	-7.6
Spot 111	60	850.1	1.1	18.1	3.6	0.1	5.8	0.0	2.8	0.475736019	177.6	4.8	137.5	7.4	NA	NA	

Spot 112	172	10213.5	3.5	19.4	1.8	0.3	2.2	0.0	1.2	0.56527113	258.0	3.1	252.5	4.8	202.1	41.2	-27.6
Spot 114	491	160837.2	31.4	13.4	0.9	1.7	1.5	0.2	1.2	0.813710041	986.4	11.2	1010.5	9.6	1063.0	17.6	7.2
Spot 115	71	3952.6	2.4	19.7	3.1	0.2	4.6	0.0	3.2	0.691940018	207.1	6.5	195.0	8.2	51.0	NA	####
Spot 117	42	7276.5	2.1	12.8	1.8	2.1	2.7	0.2	1.8	0.665742739	1152.8	19.2	1135.3	18.7	1102.0	40.9	-4.6
Spot 118	99	14436.6	2.4	14.0	1.1	1.6	1.9	0.2	1.5	0.803866917	960.2	13.6	953.0	11.7	936.4	23.2	-2.5
Spot 119	48	2846.3	1.1	12.7	7.7	0.3	7.9	0.0	1.9	0.236481982	186.4	3.4	264.7	18.5	1031.4	156.0	81.9
Spot 120	193	36122.0	1.1	18.8	1.7	0.3	2.2	0.0	1.4	0.612986705	299.5	4.0	301.5	5.8	316.9	39.6	5.5
Spot 121	90	11239.9	2.7	12.7	1.2	2.1	1.6	0.2	1.1	0.686671441	1181.4	12.0	1164.6	11.2	1133.6	23.4	-4.2
Spot 122	177	27141.1	2.4	8.8	0.9	4.9	1.7	0.3	1.5	0.846255282	1762.0	22.8	1808.8	14.7	1863.1	16.8	5.4
Spot 123	32	14717.4	6.9	13.8	2.9	1.4	4.2	0.1	3.1	0.73031482	873.2	25.1	904.0	25.2	980.1	58.6	10.9
Spot 124	227	32405.2	1.7	19.1	1.5	0.3	2.0	0.0	1.4	0.691045976	301.3	4.1	298.8	5.2	278.6	33.4	-8.1
Spot 125	108	4123.2	1.2	18.5	1.5	0.6	2.0	0.1	1.4	0.669581301	514.0	6.7	464.2	7.5	224.6	34.6	####
Spot 126	54	5569.0	3.6	13.5	1.8	1.6	2.6	0.2	1.5	0.584931112	970.3	13.5	970.5	16.1	970.9	42.5	0.1
Spot 127	473	45600.5	1.6	13.7	0.9	1.7	1.5	0.2	1.1	0.765260059	1007.3	10.4	1008.2	9.3	1009.9	19.1	0.3
Spot 128	35	4383.8	1.1	17.2	4.1	0.3	4.9	0.0	2.5	0.499789294	264.7	6.4	279.4	12.0	404.6	95.5	34.6
Spot 129	616	7889.6	2.2	19.5	0.8	0.3	1.4	0.0	1.1	0.808775346	277.8	3.0	267.1	3.2	173.8	18.8	-59.9
Spot 131	74	1249.0	5.3	20.3	5.0	0.1	8.6	0.0	6.0	0.694645573	108.4	6.4	85.2	7.1	NA	NA	
Spot 132	221	2510.5	0.9	20.2	1.4	0.2	2.2	0.0	1.7	0.756239047	198.4	3.2	175.2	3.5	NA	NA	
Spot 133	128	29263.4	3.3	12.6	0.7	2.2	1.7	0.2	1.5	0.903156857	1210.6	16.7	1194.2	11.8	1164.6	14.3	-4.0
Spot 134	126	11417.1	1.8	17.8	1.8	0.6	2.2	0.1	1.3	0.567927055	484.3	5.8	470.7	8.3	405.2	40.6	-19.5
Spot 135	390	8443.1	7.9	19.0	2.1	0.3	3.4	0.0	2.3	0.666729631	248.3	5.5	246.9	7.4	233.8	58.1	-6.2
Spot 136	148	6495.4	1.3	18.7	2.0	0.3	2.4	0.0	1.2	0.503073042	290.0	3.4	286.4	6.0	256.8	47.8	-12.9
Spot 137	200	3104.5	11.9	19.5	2.0	0.3	3.1	0.0	2.2	0.715366523	255.7	5.6	234.3	6.6	24.7	NA	####
Spot 138	73	3960.1	1.3	16.6	1.5	0.8	2.4	0.1	1.7	0.6947281	666.2	10.4	624.2	11.1	474.8	37.8	-40.3
Spot 139	274	65566.5	2.2	11.4	0.6	2.9	1.9	0.2	1.8	0.940084677	1380.6	22.0	1378.1	14.2	1374.3	12.3	-0.5
Spot 140	38	1405.7	3.3	19.0	4.0	0.3	6.2	0.0	3.5	0.563570616	282.1	9.6	234.8	12.9	NA	NA	
Spot 141	123	7298.0	1.8	18.7	2.3	0.3	3.2	0.0	1.4	0.436522838	298.6	4.0	295.2	8.1	267.8	65.3	-11.5
Spot 142	146	15236.8	1.4	16.5	1.1	0.8	1.7	0.1	1.2	0.737029274	596.1	7.0	595.3	7.5	592.5	24.3	-0.6
Spot 143	101	19073.2	3.3	7.8	0.6	6.6	1.4	0.4	1.2	0.891008041	2031.2	21.4	2052.9	12.1	2074.7	11.0	2.1
Spot 144	141	2638.2	2.5	15.8	3.9	0.3	4.3	0.0	1.7	0.388378383	274.6	4.5	303.3	11.3	530.4	86.9	48.2
Spot 146	482	345773.8	3.8	14.4	0.9	1.2	1.6	0.1	1.4	0.847479837	791.7	10.4	822.5	9.3	906.8	18.0	12.7
Spot 147	146	15465.5	11.3	17.6	2.4	0.3	2.9	0.0	1.6	0.542666182	254.1	3.9	274.5	6.9	452.7	53.4	43.9
Spot 148	65	1979.0	1.4	24.3	2.4	0.1	3.2	0.0	1.4	0.441329381	184.3	2.5	127.9	3.8	NA	NA	
Spot 150	159	10667.8	1.8	18.0	2.7	0.4	3.1	0.0	1.4	0.454884276	298.2	4.1	307.9	8.1	381.9	61.4	21.9
Spot 151	21	863.6	1.8	13.6	9.1	0.2	13.1	0.0	4.4	0.340416386	190.6	8.4	214.9	25.3	491.4	271.8	61.2
Spot 152	782	14890.3	1.4	19.4	1.0	0.3	1.5	0.0	1.1	0.752923834	243.3	2.7	241.1	3.2	219.8	22.8	-10.7
Spot 153	100	112703.4	1.8	6.3	0.7	9.3	1.3	0.4	1.1	0.84118163	2283.3	20.9	2370.7	11.8	2446.7	11.8	6.7
Spot 155	686	31123.4	12.0	17.9	1.1	0.5	2.0	0.1	1.6	0.824412359	373.3	6.0	382.4	6.4	438.1	25.2	14.8
Spot 156	137	37037.0	1.5	10.0	1.2	3.1	2.6	0.2	2.3	0.883922535	1324.4	27.3	1442.1	19.9	1620.3	22.5	18.3
Spot 157	56	1408.3	0.7	20.3	3.3	0.2	5.5	0.0	2.8	0.510899062	189.0	5.2	149.4	7.6	NA	NA	
Spot 158	501	126694.0	9.3	15.2	0.9	1.0	2.1	0.1	1.8	0.890415797	696.9	12.2	721.1	10.7	797.2	19.7	12.6
Spot 159	73	10764.9	2.7	15.5	1.3	1.0	2.0	0.1	1.3	0.66596712	709.2	9.0	710.1	10.3	712.8	31.9	0.5
Spot 160	149	27230.5	4.1	12.3	1.0	2.3	1.5	0.2	1.1	0.724458405	1208.8	11.9	1213.7	10.5	1222.5	20.2	1.1

Spot 161	458	68154.3	2.4	13.5	1.0	1.7	1.6	0.2	1.2	0.757934486	980.7	10.8	1001.0	10.0	1045.9	20.6	6.2
Spot 162	174	13195.4	1.7	19.5	1.4	0.3	2.2	0.0	1.5	0.689936549	301.8	4.4	291.4	5.5	208.4	36.3	-44.8
Spot 163	143	70564.0	1.3	19.2	2.4	0.3	3.0	0.0	1.9	0.627110967	298.0	5.5	295.7	7.8	278.1	54.0	-7.2
Spot 165	293	3388.2	3.2	9.7	3.2	3.7	4.2	0.3	1.7	0.417913745	1553.3	24.1	1578.5	33.5	1612.2	70.8	3.7
Spot 166	76	6593.1	1.4	15.8	1.6	0.9	2.3	0.1	1.6	0.694967558	688.1	10.5	677.2	11.4	641.0	35.7	-7.4
Spot 168	74	9175.9	1.9	14.1	1.8	1.4	2.4	0.1	1.5	0.620943448	876.9	12.2	884.8	14.2	904.5	38.8	3.0
Spot 170	471	114488.3	1.9	19.5	1.1	0.3	1.9	0.0	1.5	0.797069413	268.1	4.0	266.2	4.5	250.3	26.5	-7.1
Spot 172	115	4936.9	1.5	18.8	2.6	0.3	4.4	0.0	3.5	0.790320574	290.3	9.9	280.5	10.8	199.7	62.8	-45.4
Spot 173	323	471678.9	7.2	8.4	1.5	5.6	2.5	0.3	2.0	0.814488783	1901.3	33.8	1921.7	21.7	1943.7	26.1	2.2
Spot 174	1761	11566.7	17.9	13.9	0.8	0.8	1.8	0.1	1.6	0.89136315	481.8	7.6	572.2	8.0	949.6	17.0	49.3
Spot 176	444	831375.8	1.8	12.1	0.9	2.5	1.4	0.2	1.0	0.77053532	1295.5	12.2	1282.0	9.9	1259.4	16.9	-2.9
Spot 177	121	8396.1	4.4	13.8	1.4	1.6	2.1	0.2	1.5	0.724895701	984.9	13.9	973.3	13.1	947.4	29.6	-4.0
Spot 178	177	18559.4	18.6	16.2	2.0	0.5	2.6	0.1	1.7	0.644990648	358.8	6.0	398.8	8.7	637.3	43.5	43.7
Spot 179	470	14179.2	3.1	19.9	1.3	0.2	2.6	0.0	2.1	0.835266748	197.9	4.2	194.6	4.5	155.3	32.9	-27.5
Spot 180	142	58862.5	282.0	15.2	1.8	1.0	2.2	0.1	1.3	0.588812261	699.4	8.5	719.7	11.3	783.8	37.1	10.8
Spot 181	104	11560.1	1.8	12.6	1.4	1.8	2.4	0.2	1.9	0.787540506	988.9	17.3	1038.1	15.6	1143.1	29.4	13.5
Spot 184	61	3993.4	1.1	16.3	3.3	0.7	4.2	0.1	2.5	0.598176502	510.4	12.2	510.7	16.7	511.8	73.1	0.3
Spot 185	274	3993.9	1.8	18.8	1.0	0.3	1.8	0.0	1.5	0.83393081	281.9	4.2	270.4	4.4	171.5	23.7	-64.4
Spot 186	222	55297.6	3.1	12.3	1.0	2.3	1.7	0.2	1.4	0.808053583	1213.3	14.9	1214.2	11.8	1215.8	19.4	0.2
Spot 187	197	126233.9	1.8	8.7	0.8	5.2	1.7	0.3	1.5	0.878171567	1839.7	23.4	1857.8	14.2	1878.0	14.4	2.0
Spot 188	92	10933.6	3.3	9.8	1.1	3.5	3.4	0.3	3.2	0.947646801	1453.5	41.7	1524.6	26.7	1624.8	20.1	10.5
Spot 189	49	3474.9	2.2	12.8	1.5	1.7	3.2	0.2	1.6	0.49674996	977.4	14.6	993.0	20.6	1027.6	57.0	4.9
Spot 191	481	11422.9	5.2	19.4	1.4	0.3	1.8	0.0	1.2	0.633626523	235.1	2.7	231.8	3.8	198.0	32.7	-18.7
Spot 193	16	2125.1	1.4	11.4	4.0	2.1	5.7	0.2	2.0	0.348608897	1113.6	20.2	1147.1	39.0	1210.9	104.8	8.0
Spot 194	297	13822.8	1.7	19.2	0.9	0.3	1.7	0.0	1.4	0.834132287	287.6	3.9	282.2	4.1	238.2	21.3	-20.7
Spot 195	585	31269.5	3.1	18.5	1.2	0.3	1.7	0.0	1.2	0.718715968	249.0	3.0	258.2	3.9	342.7	27.3	27.4
Spot 196	414	13518.2	1.3	19.5	0.9	0.3	2.0	0.0	1.8	0.879724546	268.8	4.7	261.7	4.7	199.0	22.3	-35.1
Spot 197	183	14452.1	1.5	17.1	0.9	0.7	1.7	0.1	1.4	0.812243815	543.0	7.2	536.4	7.1	508.4	21.9	-6.8
Spot 198	725	33175.2	1.0	18.7	1.8	0.3	2.4	0.0	1.5	0.644282353	262.1	3.9	268.5	5.6	324.6	41.2	19.3
Spot 199	296	3393.2	1.7	18.9	1.4	0.3	2.2	0.0	1.7	0.757229889	287.1	4.7	269.8	5.2	122.6	34.1	####
Spot 200	291	5476.0	3.6	17.9	3.0	0.1	3.9	0.0	2.2	0.562062345	72.8	1.6	81.0	3.0	329.9	73.4	77.9
Spot 202	857	4710.7	3.5	19.9	1.9	0.1	3.1	0.0	1.3	0.438893774	67.9	0.9	67.1	2.0	40.5	NA	-67.6
Spot 203	77	1386.2	1.3	16.1	4.6	0.3	5.3	0.0	2.0	0.38091094	281.0	5.6	278.9	13.0	261.3	113.2	-7.5
Spot 204	227	32858.0	1.5	5.5	0.6	11.0	1.6	0.4	1.5	0.920469301	2373.1	29.0	2527.2	14.8	2653.4	10.3	10.6
Spot 205	714	32485.8	1.0	19.2	0.9	0.3	1.8	0.0	1.5	0.85143489	288.1	4.3	285.8	4.4	267.6	21.5	-7.6
Spot 206	136	584699.7	2.1	12.6	1.2	2.2	1.9	0.2	1.5	0.795088866	1200.0	16.8	1191.7	13.5	1176.6	23.2	-2.0
Spot 207	259	11520.9	3.7	19.3	1.4	0.3	2.3	0.0	1.5	0.66547394	270.4	4.1	264.4	5.4	212.3	40.0	-27.3
Spot 208	918	244317.9	18.9	12.3	1.0	2.4	2.0	0.2	1.7	0.858682064	1276.0	20.2	1255.5	14.6	1220.4	20.4	-4.6
Spot 209	207	39384.1	1.3	19.3	2.1	0.3	2.6	0.0	1.5	0.574496926	284.1	4.1	281.2	6.3	256.8	48.5	-10.7
Spot 210	1220	91664.4	32.7	14.0	1.0	1.6	1.9	0.2	1.6	0.852791965	995.8	14.9	982.3	11.9	952.4	20.2	-4.6
Spot 212	596	9110.0	0.9	19.3	0.9	0.3	1.4	0.0	1.1	0.787922411	271.9	2.9	263.7	3.2	191.6	19.9	-41.9
Spot 213	132	17855.8	2.1	17.0	1.2	0.7	1.8	0.1	1.4	0.753975569	556.7	7.4	550.4	7.8	524.4	26.4	-6.2
Spot 214	265	558253.8	338.0	17.0	0.9	0.7	1.9	0.1	1.6	0.868272027	526.6	8.2	531.9	7.8	554.4	20.3	5.0

Spot 215	477	20089.9	45.0	17.1	0.9	0.7	1.6	0.1	1.3	0.817084013	554.0	7.1	547.0	6.9	518.2	20.7	-6.9
Spot 216	569	201364.0	37.9	12.4	0.7	2.3	1.3	0.2	1.1	0.843531217	1198.7	11.6	1201.2	8.8	1205.8	13.3	0.6
Spot 218	125	1763.5	1.4	18.2	4.2	0.2	6.3	0.0	1.7	0.273229516	174.6	3.0	164.7	9.5	24.1	NA	####
Spot 219	350	41746.0	1.6	19.1	1.1	0.3	1.8	0.0	1.5	0.795709564	270.8	3.9	271.1	4.4	273.6	25.4	1.0
Spot 220	93	15775.5	3.5	12.4	1.2	2.2	1.8	0.2	1.3	0.738940328	1162.9	14.1	1173.4	12.5	1192.8	23.8	2.5
Spot 222	526	36988.9	47.3	12.6	0.8	2.1	1.4	0.2	1.2	0.825769697	1131.7	12.3	1145.1	9.8	1170.5	16.0	3.3
Spot 224	111	6213.6	3.3	16.6	2.6	0.6	3.5	0.1	1.5	0.4128075	435.8	6.1	449.9	12.8	522.2	70.5	16.5
Spot 226	277	6877.8	2.2	19.5	1.1	0.3	1.9	0.0	1.5	0.796529367	277.7	4.2	264.3	4.5	147.0	27.4	-88.9
Spot 227	578	49311.2	3.3	15.2	1.2	1.0	1.6	0.1	1.1	0.686362717	690.2	7.4	712.1	8.4	781.8	25.0	11.7
Spot 228	198	3497.4	1.2	20.1	3.5	0.1	4.5	0.0	2.6	0.57574083	77.3	2.0	73.8	3.2	NA	NA	
Spot 230	124	4517.2	1.2	21.5	2.1	0.2	4.8	0.0	2.1	0.428847905	192.2	3.9	168.8	7.4	NA	NA	
Spot 231	153	14278.3	3.7	19.0	1.9	0.4	3.2	0.1	2.5	0.779382869	326.1	7.9	319.0	8.7	268.0	45.9	-21.7
Spot 232	254	76412.2	2.0	11.2	1.1	2.9	1.9	0.2	1.5	0.816337488	1364.4	18.9	1380.7	14.2	1406.0	20.8	3.0
Spot 233	121	4376.3	1.5	18.7	2.2	0.3	3.2	0.0	1.8	0.560379659	281.3	4.9	273.7	7.6	209.6	60.7	-34.2
Spot 234	87	41557.0	2.5	14.2	1.1	1.4	2.2	0.1	1.9	0.861990219	855.4	15.5	879.2	13.2	939.5	23.3	9.0
Spot 236	457	31369.8	4.0	11.7	0.8	2.5	2.0	0.2	1.8	0.907873513	1241.0	20.6	1270.5	14.5	1320.8	16.3	6.0
Spot 237	422	17613.1	2.6	19.4	0.8	0.3	1.5	0.0	1.3	0.838394897	240.0	3.0	238.9	3.3	228.3	19.3	-5.1
Spot 239	228	20768.3	2.5	18.8	1.9	0.3	2.5	0.0	1.7	0.656890816	289.6	4.7	291.9	6.4	310.2	43.4	6.6
Spot 240	207	33172.8	2.5	13.5	0.8	1.7	1.7	0.2	1.5	0.878968136	1014.4	14.3	1019.9	11.2	1031.9	16.7	1.7
Spot 241	111	37229.1	1.5	12.7	0.8	2.1	2.6	0.2	2.4	0.948279135	1135.3	25.3	1144.5	17.6	1161.9	16.1	2.3
Spot 242	184	13257.8	2.3	12.5	1.1	2.1	2.4	0.2	2.1	0.877106228	1122.1	21.5	1142.9	16.4	1182.5	22.7	5.1
Spot 243	137	25131.0	1.3	18.7	1.8	0.3	2.1	0.0	1.1	0.517086558	279.0	3.0	284.8	5.3	332.8	41.0	16.2
Spot 244	952	11938.3	12.7	16.0	1.5	0.3	1.8	0.0	1.0	0.549758885	224.8	2.2	266.8	4.2	653.4	32.5	65.6
Spot 245	415	10343.8	7.0	19.7	1.6	0.2	2.3	0.0	1.2	0.530215021	174.8	2.1	174.8	3.6	174.7	44.7	0.0
Spot 246	113	3721.7	1.7	19.4	1.7	0.3	2.7	0.0	1.7	0.615870402	275.3	4.5	256.4	6.1	87.1	50.3	####
Spot 247	69	121782.7	3.2	13.9	1.6	1.5	2.2	0.1	1.5	0.681092999	888.0	12.2	917.5	13.0	989.2	32.1	10.2
Spot 248	159	22172.1	0.7	10.5	0.8	3.6	1.5	0.3	1.2	0.835216217	1557.7	17.1	1542.5	11.8	1521.7	15.4	-2.4
Spot 249	63	20004.9	2.2	12.6	1.6	2.0	2.5	0.2	1.9	0.766820122	1100.3	19.7	1123.3	17.2	1167.9	32.2	5.8
Spot 250	38	3397.9	2.0	12.8	7.3	0.3	7.7	0.0	2.4	0.310140479	179.9	4.2	258.0	17.6	1045.3	148.2	82.8
Spot 251	199	52545.2	3.5	11.0	0.8	2.9	1.4	0.2	1.2	0.842675066	1347.2	14.7	1389.6	10.9	1455.3	14.7	7.4
Spot 252	364	105242.7	2.3	17.6	1.3	0.6	1.9	0.1	1.4	0.727884052	477.2	6.3	480.1	7.2	493.8	28.3	3.4
Spot 253	183	36724.4	4.8	12.3	0.8	2.4	1.3	0.2	1.0	0.77763019	1274.5	11.5	1256.1	9.2	1224.8	15.8	-4.1
Spot 254	400	78583564.0	6.6	12.7	0.9	1.8	1.7	0.2	1.4	0.824666311	997.7	12.8	1054.5	11.0	1174.2	18.7	15.0
Spot 255	67	10230.3	1.9	16.0	1.7	0.8	2.4	0.1	1.6	0.663774894	605.4	9.1	613.2	10.9	642.1	38.0	5.7
Spot 256	521	62824.9	14.3	13.8	0.9	1.5	1.7	0.1	1.5	0.84951883	877.8	12.0	914.0	10.4	1002.3	18.5	12.4
Spot 258	361	7873.5	1.6	18.6	2.7	0.2	3.1	0.0	1.5	0.488515542	164.4	2.4	172.5	4.9	286.1	61.4	42.5
Spot 259	196	5202.2	2.6	18.0	1.6	0.3	2.5	0.0	1.9	0.732767957	298.5	5.4	301.4	6.6	323.4	39.3	7.7
Spot 260	99	25740.7	1.8	11.2	0.9	2.8	1.8	0.2	1.6	0.875633613	1311.4	18.5	1347.0	13.3	1404.0	16.5	6.6
Spot 261	49	5305.1	3.9	12.9	1.2	1.9	1.9	0.2	1.4	0.744488026	1110.4	14.3	1096.0	12.7	1067.6	25.4	-4.0
Spot 262	49	3009.3	1.6	18.1	3.9	0.2	5.5	0.0	3.6	0.654998429	185.9	6.5	188.3	9.4	217.9	95.4	14.7
Spot 263	134	13363.7	1.9	16.4	2.7	0.4	3.3	0.0	1.8	0.557509641	296.3	5.3	334.3	9.3	607.8	58.6	51.2
Spot 264	170	32801.8	3.0	12.2	1.0	2.2	1.7	0.2	1.3	0.796533006	1167.6	14.3	1189.8	11.8	1230.6	19.9	5.1
Spot 265	340	9666.6	10.5	19.1	1.6	0.3	2.3	0.0	1.5	0.628599063	261.8	3.8	258.5	5.3	229.2	41.9	-14.2

Run 3 NM8A (discordant)

Spot 105	0	1000.0	2.0	5.2	1.0	27.0	1.2	1.0	0.6	0.514177533	4540.9	19.6	3383.6	11.4	2755.1	16.4	-64.8
Spot 113	203	34181.0	8.2	12.1	1.0	2.6	1.6	0.2	1.3	0.794084573	1342.8	15.8	1313.6	12.1	1266.3	19.5	-6.0
Spot 116	137	90411.7	1.2	12.4	1.0	2.5	1.6	0.2	1.3	0.789521254	1282.9	14.8	1258.6	11.6	1217.1	19.4	-5.4
Spot 13	55	3483.4	3.5	15.5	1.6	1.3	2.8	0.1	2.4	0.831081022	871.4	19.3	841.3	16.3	762.4	33.4	-14.3
Spot 130	131	362660.1	2.9	12.3	0.8	2.5	1.9	0.2	1.8	0.905126945	1304.3	20.7	1274.5	14.1	1224.7	16.2	-6.5
Spot 145	64	13475.2	2.7	14.5	3.7	1.6	5.2	0.2	3.6	0.701641297	1002.9	33.9	970.0	32.5	896.1	76.4	-11.9
Spot 149	37	5363.0	1.3	32.7	3.6	0.2	30.2	0.1	30.0	0.992705622	330.4	96.6	203.4	55.8	NA	NA	
Spot 154	38	5368.5	2.9	15.6	1.8	1.3	2.7	0.2	2.0	0.73590203	913.3	16.9	866.8	15.7	749.7	38.6	-21.8
Spot 164	132	20559.4	3.6	13.2	4.0	2.4	9.8	0.2	8.9	0.913441651	1321.3	106.7	1237.2	70.1	1093.7	79.7	-20.8
Spot 167	82	8139.2	3.1	13.2	1.1	2.1	1.7	0.2	1.3	0.737856918	1168.2	13.4	1140.5	11.6	1088.1	22.9	-7.4
Spot 169	401	21392.6	7.5	16.1	1.1	1.0	1.6	0.1	1.2	0.750669503	708.7	8.1	699.7	8.1	670.6	22.7	-5.7
Spot 171	178	19560.5	2.7	9.7	0.9	2.6	2.1	0.2	1.8	0.897726095	1094.2	18.5	1306.9	15.1	1675.4	16.7	34.7
Spot 175	132	41660.8	7.8	14.7	1.0	1.5	1.7	0.2	1.3	0.781804908	955.4	11.5	928.8	10.1	866.3	21.5	-10.3
Spot 18	602	35632.3	3.1	11.8	1.1	2.0	2.2	0.2	1.9	0.868522634	1038.5	18.4	1127.3	15.1	1302.6	21.3	20.3
Spot 182	195	24142.8	8.9	12.3	1.6	2.5	2.2	0.2	1.5	0.683856678	1306.1	18.1	1279.6	16.3	1235.4	32.1	-5.7
Spot 183	50	5065.5	2.3	4.1	11.1	5.5	11.5	0.2	2.9	0.249072802	980.1	26.0	1899.4	99.1	3137.1	177.7	68.8
Spot 19	106	6046.3	1.7	20.9	2.3	0.6	16.1	0.1	15.9	0.99015684	516.6	79.2	445.6	58.2	93.6	53.4	####
Spot 190	38	565.9	1.2	15.1	7.1	0.3	7.4	0.0	2.2	0.292497817	185.4	4.0	239.4	15.8	808.6	148.5	77.1
Spot 192	229	37466.9	17.1	8.8	9.6	2.0	10.2	0.1	3.5	0.346916226	766.7	25.5	1105.7	68.7	1851.2	173.1	58.6
Spot 201	43	2659.5	1.9	15.9	4.4	1.1	5.4	0.1	3.1	0.578223957	753.2	22.0	741.7	28.2	706.9	93.1	-6.5
Spot 211	463	297508.4	5.6	14.1	2.6	1.8	3.8	0.2	2.9	0.747172556	1087.2	28.7	1043.3	25.0	952.7	52.2	-14.1
Spot 217	73	25652.7	2.9	12.4	0.8	2.5	1.6	0.2	1.4	0.861653713	1286.1	16.4	1261.1	11.8	1218.7	16.3	-5.5
Spot 221	59	2048.8	1.3	23.2	5.9	0.2	13.8	0.0	12.5	0.905592294	190.1	23.5	166.1	21.2	NA	NA	
Spot 223	86	5867.2	3.0	17.3	2.0	1.0	2.8	0.1	1.9	0.677857416	786.0	13.9	721.2	14.3	524.6	44.7	-49.8
Spot 225	213	8203.5	1.9	21.8	2.7	0.2	10.9	0.0	10.6	0.968943947	216.4	22.4	198.7	19.7	NA	NA	
Spot 229	303	45901.6	20.2	11.4	0.8	2.1	1.7	0.2	1.5	0.895363607	1054.6	14.9	1164.0	11.8	1373.8	14.6	23.2
Spot 235	23	3951.4	1.7	14.1	4.3	1.8	8.6	0.2	7.5	0.867406659	1098.7	75.7	1050.9	56.6	952.9	88.0	-15.3
Spot 238	52	1795.8	3.4	16.3	1.8	1.3	2.6	0.1	1.8	0.715336927	896.7	15.4	828.7	14.5	650.4	38.5	-37.9
Spot 257	53	2654.8	1.4	28.2	5.8	0.8	8.0	0.2	5.5	0.688195706	1005.2	51.3	611.3	36.8	NA	NA	
Spot 26	211	19378.9	8.8	14.1	1.0	1.7	1.5	0.2	1.2	0.774858113	1032.9	11.3	1006.1	9.8	948.0	19.8	-9.0
Spot 269	47	547.1	1.8	26.2	10.4	0.1	12.0	0.0	6.0	0.502181155	178.0	10.6	139.3	15.7	NA	NA	
Spot 270	87	7255.0	5.0	23.2	4.1	0.1	8.8	0.0	7.7	0.883052116	112.1	8.6	100.7	8.4	NA	NA	
Spot 282	76	12781.1	1.6	14.2	1.1	1.7	1.9	0.2	1.5	0.815288538	1012.6	14.1	991.5	11.7	945.1	22.0	-7.1
Spot 284	72	37195.5	1.9	16.2	2.0	1.0	2.7	0.1	1.9	0.697242315	745.3	13.4	726.6	14.1	669.1	41.8	-11.4
Spot 293	54	1352.9	4.7	19.5	7.4	0.1	12.1	0.0	9.5	0.789719547	100.4	9.5	106.8	12.2	253.7	170.4	60.4
Spot 307	45	19721.9	3.4	14.7	1.5	1.5	1.9	0.2	1.2	0.620455157	933.7	10.1	915.8	11.3	873.0	30.5	-7.0
Spot 309	161	33286.5	8.6	7.3	2.1	2.3	2.7	0.1	1.7	0.640089738	749.6	12.3	1219.2	19.2	2184.5	36.2	65.7
Spot 311	233	90752.6	2.8	13.2	1.6	1.3	2.4	0.1	1.8	0.746807646	746.2	12.6	836.0	13.7	1083.0	32.0	31.1
Spot 34	868	20199.0	1.9	10.3	1.1	2.1	2.3	0.2	2.0	0.870995098	934.2	17.6	1143.7	16.0	1566.1	21.4	40.3
Spot 43	27	28405.4	11.7	13.4	2.2	1.3	5.1	0.1	4.7	0.903766411	792.3	34.7	866.6	30.0	1061.6	44.3	25.4
Spot 46	47	1883.6	4.2	15.2	1.6	1.4	2.1	0.2	1.4	0.650970224	944.4	12.1	903.2	12.6	803.5	33.6	-17.5
Spot 47	149	5815.5	3.7	14.8	1.1	1.5	1.7	0.2	1.3	0.766836509	982.4	12.2	942.0	10.7	848.8	23.2	-15.7
Spot 49	12	518.1	1.4	26.6	15.3	0.2	25.2	0.0	19.9	0.792562239	206.8	40.6	158.6	37.0	NA	NA	

Spot 59	136	233978.8	2.8	21.3	4.2	0.1	11.7	0.0	11.0	0.934715282	99.1	10.8	96.9	10.8	40.8	NA	####
Spot 64	91	48051.9	1.9	15.0	1.1	1.5	2.1	0.2	1.8	0.858200489	963.8	16.2	921.8	12.8	822.8	22.6	-17.1
Spot 70	180	12827.9	2.0	15.8	0.9	1.1	1.7	0.1	1.4	0.827042483	762.2	10.0	751.0	8.9	717.9	20.0	-6.2
Spot 74	126	15149.4	3.2	13.2	1.1	2.1	1.8	0.2	1.4	0.77824703	1204.2	15.4	1164.6	12.5	1091.7	22.7	-10.3
Spot 76	212	59402.1	3.5	10.7	0.8	3.6	1.6	0.3	1.4	0.86711957	1586.8	19.0	1545.2	12.4	1488.8	14.7	-6.6
Spot 81	90	13986.4	0.7	13.9	7.0	0.3	9.3	0.0	6.1	0.658560116	200.0	12.0	276.5	22.4	986.6	142.0	79.7
Spot 84	477	1918.1	0.6	10.7	5.1	2.0	5.5	0.2	2.2	0.39353189	908.6	18.5	1098.9	37.2	1498.2	96.3	39.4
Spot 89	1	1000.0	0.8	5.2	1.0	27.0	1.2	1.0	0.6	0.51417895	4545.3	19.6	3384.8	11.4	2755.1	16.4	-65.0
Spot 95	31	2698.7	3.3	14.5	3.8	1.7	4.2	0.2	1.7	0.406410475	1043.0	16.5	997.6	26.7	899.0	79.4	-16.0

<b>Run 4</b>																	
Spot 1	328	13287.1	1.2	17.4	1.2	0.5	2.3	0.1	1.9	0.841986968	396.8	7.4	409.4	7.6	480.6	27.0	17.4
Spot 2	1250	34857.6	2.8	20.1	2.1	0.1	2.4	0.0	1.2	0.495950331	70.9	0.8	73.9	1.7	170.5	49.0	58.4
Spot 3	108	13346.4	0.7	16.8	1.4	0.7	2.3	0.1	1.7	0.766714071	562.9	9.3	562.9	9.7	563.1	31.5	0.0
Spot 4	100	20982.9	3.3	14.6	2.4	1.4	3.7	0.1	2.8	0.757061425	882.6	22.9	877.7	21.6	865.5	49.7	-2.0
Spot 5	262	32923.6	2.6	13.3	0.9	1.7	1.8	0.2	1.6	0.869203288	998.1	14.8	1020.6	11.8	1069.0	18.3	6.6
Spot 6	1850	401094.7	10.9	12.9	0.8	1.9	1.4	0.2	1.1	0.811078336	1060.5	11.1	1085.1	9.3	1134.9	16.3	6.6
Spot 7	730	1058804.7	5.9	16.5	1.0	0.8	1.6	0.1	1.3	0.775754324	587.6	7.1	598.2	7.4	638.5	22.1	8.0
Spot 8	530	152593.9	4.8	11.5	0.8	2.7	1.5	0.2	1.2	0.844256979	1294.8	14.6	1323.0	10.9	1369.1	15.2	5.4
Spot 9	727	130011.4	7.7	12.7	0.7	2.0	1.3	0.2	1.1	0.856531048	1082.3	11.4	1116.0	9.1	1182.3	13.7	8.5
Spot 10	177	7109.1	17.8	16.2	1.5	0.9	2.0	0.1	1.3	0.666842687	634.9	7.9	628.1	9.2	603.3	31.8	-5.2
Spot 11	136	13251.8	0.6	15.6	2.5	1.1	3.7	0.1	2.7	0.722918488	741.9	18.8	737.1	19.4	722.7	54.3	-2.6
Spot 13	50	8440.5	2.6	13.2	3.1	1.6	4.6	0.2	3.3	0.716093643	959.6	29.2	987.3	28.9	1049.5	64.5	8.6
Spot 15	154	41222.1	8.5	12.5	0.9	2.2	1.7	0.2	1.5	0.855763487	1151.7	15.5	1168.9	11.9	1200.8	17.5	4.1
Spot 16	243	6223.1	3.1	19.3	1.5	0.3	3.4	0.0	2.1	0.606152964	235.8	4.8	231.4	7.1	186.9	63.3	-26.1
Spot 17	81	740.6	1.2	17.9	4.6	0.1	5.0	0.0	1.9	0.384865704	173.7	3.3	128.7	6.0	NA	NA	
Spot 18	665	36820.6	21.5	12.2	0.8	2.3	1.4	0.2	1.1	0.820136873	1166.3	12.1	1196.9	9.7	1252.5	15.5	6.9
Spot 19	438	104379.5	3.3	12.2	0.9	2.3	1.7	0.2	1.4	0.850690812	1211.6	16.0	1225.9	12.1	1251.1	17.5	3.2
Spot 20	345	180060.1	8.3	12.1	0.7	2.3	1.7	0.2	1.5	0.896921997	1187.6	16.2	1214.9	11.8	1263.8	14.4	6.0
Spot 21	289	14841.1	7.5	10.2	1.6	1.1	2.1	0.1	1.3	0.604805841	507.2	6.1	754.9	11.0	1581.5	30.8	67.9
Spot 22	323	339169.0	3.8	12.1	0.9	2.3	1.7	0.2	1.5	0.860563891	1171.4	16.0	1207.0	12.3	1271.2	17.3	7.9
Spot 23	315	90857.6	6.1	13.7	1.2	1.7	2.1	0.2	1.7	0.809060804	1005.4	15.5	1013.4	13.2	1030.8	24.5	2.5
Spot 24	228	13623.6	256.1	16.3	1.2	0.8	2.3	0.1	1.9	0.836885789	609.8	11.3	613.9	10.7	628.8	27.4	3.0
Spot 25	83	8338.8	3.0	12.8	2.6	1.9	5.5	0.2	4.8	0.881087842	1083.4	48.3	1097.0	36.9	1124.1	51.8	3.6
Spot 26	481	28088.2	24.0	12.4	0.9	2.1	1.7	0.2	1.4	0.830226383	1132.8	14.5	1164.6	11.6	1224.1	18.4	7.5
Spot 27	276	825.5	3.8	19.7	3.8	0.0	4.9	0.0	2.6	0.539334469	68.3	1.8	47.8	2.3	NA	NA	
Spot 28	364	105093.3	4.4	13.9	0.8	1.6	1.4	0.2	1.2	0.831617118	941.8	10.5	960.3	9.0	1002.7	16.2	6.1
Spot 31	117	5723.4	1.1	16.9	1.4	0.6	2.1	0.1	1.3	0.632972212	509.0	6.4	506.0	8.3	492.1	35.5	-3.4
Spot 32	1137	22138.4	17.9	17.6	0.8	0.4	1.5	0.0	1.3	0.830280131	292.6	3.6	313.7	4.1	473.1	18.6	38.1
Spot 33	1157	29771.2	9.4	17.3	0.9	0.6	1.5	0.1	1.2	0.77713275	479.1	5.4	485.9	5.8	518.5	20.8	7.6
Spot 34	295	10717.7	10.6	19.5	1.6	0.3	2.4	0.0	1.5	0.636776397	232.8	3.5	230.2	4.9	203.7	42.8	-14.3
Spot 35	167	30720.3	1.7	19.2	1.8	0.3	3.2	0.0	2.6	0.823317039	265.5	6.9	268.1	7.5	290.7	41.5	8.7
Spot 36	481	2403354.5	44.5	11.2	0.8	3.1	1.3	0.3	1.1	0.824115025	1442.1	14.3	1433.9	10.3	1421.8	14.5	-1.4
Spot 37	107	39910.7	4.2	11.7	0.9	2.6	1.5	0.2	1.2	0.786091192	1256.2	13.4	1287.4	10.9	1339.8	17.8	6.2

Spot 38	43	17438.3	2.1	14.0	1.8	1.4	2.5	0.1	1.8	0.6977771077	863.0	14.4	892.3	15.1	965.7	37.3	10.6
Spot 40	499	145081.0	19.4	19.9	1.0	0.3	1.7	0.0	1.3	0.799402005	243.0	3.2	240.6	3.6	217.9	23.3	-11.5
Spot 41	753	12035.9	4.4	20.1	2.5	0.1	3.4	0.0	2.3	0.672941604	77.7	1.8	79.9	2.6	145.1	58.6	46.5
Spot 42	180	38978.2	1.3	10.1	0.8	3.7	1.8	0.3	1.6	0.882675382	1538.1	21.4	1574.6	14.2	1623.8	15.5	5.3
Spot 44	82	14423.2	1.6	12.0	1.1	2.4	2.0	0.2	1.6	0.794304397	1214.4	17.2	1237.0	14.0	1276.7	23.2	4.9
Spot 45	333	34070.2	2.0	18.1	1.4	0.5	2.0	0.1	1.4	0.714466803	431.0	5.8	430.4	6.9	426.7	30.6	-1.0
Spot 46	552	25398.0	4.9	16.3	0.8	0.9	1.8	0.1	1.6	0.884846105	628.3	9.5	632.5	8.4	647.6	17.9	3.0
Spot 47	168	653.3	3.3	20.8	3.3	0.0	4.5	0.0	2.0	0.440219464	66.6	1.3	35.6	1.6	NA	NA	
Spot 48	1197	35179.7	2.3	11.3	0.9	2.8	1.7	0.2	1.4	0.837093245	1333.5	17.2	1358.9	12.8	1398.9	17.9	4.7
Spot 49	180	13543.8	2.6	12.8	0.9	1.9	1.6	0.2	1.2	0.780541709	1061.8	11.9	1087.3	10.4	1138.7	19.3	6.8
Spot 50	491	303462.6	13.2	8.1	0.8	5.8	1.6	0.3	1.4	0.864039696	1874.2	22.4	1950.3	13.8	2032.0	14.2	7.8
Spot 51	227	16307.4	1.4	18.6	1.9	0.3	2.4	0.0	1.5	0.603574522	259.2	3.8	267.9	5.8	344.5	44.2	24.8
Spot 52	118	8241.9	3.4	13.5	1.2	1.7	1.8	0.2	1.4	0.761373384	994.7	12.6	1000.9	11.5	1014.4	23.6	1.9
Spot 53	356	32469.3	4.2	15.9	0.9	1.0	1.7	0.1	1.4	0.832860931	675.8	9.0	683.4	8.4	708.4	19.8	4.6
Spot 54	497	66981.3	4.4	13.2	1.0	1.8	1.5	0.2	1.1	0.731024095	1015.7	10.1	1041.0	9.6	1094.4	20.1	7.2
Spot 55	206	9361.8	1.4	16.8	0.9	0.7	1.7	0.1	1.4	0.844415104	567.2	7.8	563.2	7.3	546.7	19.8	-3.8
Spot 57	25	2797.0	2.8	12.3	3.7	2.0	5.5	0.2	3.7	0.662912082	1115.6	37.5	1115.8	37.4	1116.3	82.6	0.1
Spot 58	58	4033.0	2.9	12.0	2.4	2.0	3.1	0.2	1.9	0.608692359	1081.8	18.5	1122.3	20.8	1201.6	47.8	10.0
Spot 59	79	34481.3	2.4	14.1	1.5	1.5	2.3	0.2	1.7	0.732402094	946.6	14.6	946.9	13.9	947.6	31.6	0.1
Spot 60	183	11545.0	2.5	18.2	2.0	0.4	2.6	0.1	1.6	0.610382407	347.7	5.4	350.3	7.8	368.2	46.7	5.6
Spot 61	177	197463.4	7.3	12.4	1.0	2.3	1.8	0.2	1.5	0.82958433	1210.2	16.7	1213.8	12.9	1220.4	20.1	0.8
Spot 62	180	32392.1	5.7	12.9	2.6	1.9	2.8	0.2	1.2	0.410343997	1040.4	11.1	1071.0	18.6	1133.8	51.2	8.2
Spot 63	48	3349.8	3.4	12.4	3.1	1.6	3.5	0.2	1.6	0.438844208	909.3	13.2	971.5	22.2	1114.9	63.6	18.4
Spot 64	132	39537.3	2.3	19.1	1.4	0.3	1.9	0.0	1.3	0.688978225	275.4	3.5	276.9	4.6	290.1	31.5	5.1
Spot 65	2035	53023.3	18.5	13.3	0.9	1.5	1.6	0.1	1.3	0.834169088	886.2	11.1	940.9	9.9	1071.3	17.8	17.3
Spot 66	747	42896.7	9.4	13.4	0.9	1.2	2.7	0.1	2.6	0.938952826	692.6	16.8	785.9	14.9	1060.8	18.9	34.7
Spot 67	122	57437.1	2.7	14.3	2.6	1.6	4.8	0.2	4.0	0.841051925	972.3	36.2	959.2	29.6	929.3	53.0	-4.6
Spot 68	215	214053.7	2.6	10.7	0.8	3.2	1.5	0.2	1.2	0.830057276	1407.4	15.7	1446.6	11.6	1504.6	15.8	6.5
Spot 69	208	5260.6	1.1	18.4	1.7	0.3	3.2	0.0	2.0	0.605500604	282.9	5.4	282.6	8.0	279.9	59.0	-1.1
Spot 70	411	20066.8	10.0	15.9	0.9	0.9	1.4	0.1	1.1	0.743554088	659.8	6.7	665.2	7.0	683.5	20.4	3.5
Spot 71	657	12119.6	14.0	20.1	1.6	0.2	2.7	0.0	2.2	0.799224066	226.4	4.9	218.6	5.4	134.9	38.6	-67.8
Spot 73	256	20405.0	2.0	18.8	1.2	0.3	2.0	0.0	1.6	0.7890935	260.5	4.0	265.6	4.7	311.0	28.0	16.2
Spot 74	248	89494.1	1.1	17.3	1.9	0.6	2.9	0.1	2.1	0.745046753	450.6	9.3	461.6	10.6	516.8	41.9	12.8
Spot 75	311	92736.9	3.0	12.5	1.0	2.1	1.6	0.2	1.3	0.792744794	1142.8	13.1	1160.6	10.9	1194.0	19.0	4.3
Spot 76	95	3128.1	4.3	16.6	2.5	0.4	3.7	0.1	1.4	0.375171491	347.9	4.7	358.3	11.3	426.0	77.3	18.3
Spot 77	201	98380.8	2.8	16.2	1.7	0.8	2.4	0.1	1.6	0.693987478	564.9	8.9	582.4	10.5	651.1	36.6	13.2
Spot 78	178	17263.2	2.0	19.0	1.7	0.3	2.4	0.0	1.7	0.68299664	273.0	4.4	273.1	5.8	273.5	40.5	0.2
Spot 79	593	8019.0	1.6	19.1	1.2	0.3	1.7	0.0	1.2	0.723041449	262.2	3.2	258.2	3.9	221.9	27.3	-18.2
Spot 81	165	7989.2	1.2	18.5	3.0	0.3	3.6	0.0	1.9	0.520133934	267.1	4.9	269.4	8.6	289.5	70.7	7.7
Spot 83	175	50507.3	3.2	13.8	0.9	1.6	1.4	0.2	1.1	0.788351244	980.3	10.0	980.4	8.8	980.5	17.5	0.0
Spot 84	55	6675.9	1.8	13.4	2.1	1.4	4.8	0.1	4.3	0.899778173	835.2	33.9	882.5	28.3	1003.0	42.6	16.7
Spot 85	188	16078.3	1.2	13.7	1.1	1.5	1.9	0.2	1.5	0.791188865	931.2	12.9	947.9	11.6	986.8	23.5	5.6
Spot 86	179	1805.0	1.1	20.6	2.0	0.2	3.6	0.0	3.0	0.811149719	176.3	5.1	145.3	4.9	NA	NA	



Spot 87	974	35757.8	1.9	19.1	0.9	0.3	1.4	0.0	1.1	0.775720871	267.7	2.9	268.5	3.3	275.7	20.3	2.9
Spot 89	495	43265.7	1.5	19.4	1.4	0.2	2.2	0.0	1.7	0.777327078	223.2	3.7	224.9	4.4	242.0	31.9	7.7
Spot 90	113	3601.3	1.6	17.7	4.0	0.2	4.5	0.0	2.0	0.436762035	166.8	3.3	175.6	7.3	296.5	92.8	43.8
Spot 91	395	31236.5	2.5	12.6	1.1	2.0	1.6	0.2	1.2	0.746974201	1079.1	11.9	1109.1	10.8	1168.3	21.1	7.6
Spot 92	238	5586.1	10.0	17.7	2.9	0.3	3.7	0.0	1.8	0.493805798	240.2	4.3	251.4	8.2	357.4	72.6	32.8
Spot 93	186	9099.3	1.3	19.1	2.7	0.2	3.6	0.0	2.3	0.642860039	200.8	4.5	202.7	6.6	225.0	63.2	10.7
Spot 95	301	864.7	1.8	20.7	3.4	0.0	5.7	0.0	3.6	0.628589959	56.6	2.0	37.3	2.1	NA	NA	
Spot 96	195	4912.4	1.6	20.6	2.3	0.2	3.3	0.0	2.1	0.645795788	165.0	3.4	152.3	4.6	NA	NA	
Spot 97	160	18164.9	1.9	18.4	1.3	0.3	2.0	0.0	1.5	0.752024525	267.3	4.0	274.5	4.9	337.1	30.2	20.7
Spot 99	198	32652.8	3.7	14.2	1.1	1.5	4.6	0.2	4.4	0.971874528	923.1	38.3	920.2	27.7	913.2	22.2	-1.1
Spot 100	224	17362.5	13.1	13.8	1.1	1.6	1.8	0.2	1.4	0.77548757	981.0	12.7	977.2	11.3	968.8	23.3	-1.2
Spot 101	39	8325.7	2.3	14.1	1.5	1.4	2.4	0.1	1.5	0.640811342	895.9	12.6	893.7	14.0	888.1	37.4	-0.9
Spot 102	193	364795.2	2.5	12.1	1.0	2.4	1.5	0.2	1.2	0.770461696	1214.9	13.1	1228.1	10.9	1251.4	19.1	2.9
Spot 103	689	4572.3	1.7	14.1	1.2	0.7	1.9	0.1	1.5	0.786701353	449.6	6.6	522.5	7.9	855.1	24.8	47.4
Spot 105	71	1343.5	1.0	16.8	4.3	0.3	5.5	0.0	3.2	0.59055595	247.8	7.8	235.5	11.5	114.3	103.9	####
Spot 106	88	4568.4	3.0	16.6	2.4	0.6	2.9	0.1	1.6	0.549616472	472.1	7.3	473.9	11.0	482.9	53.8	2.3
Spot 107	54	5380.7	2.4	12.4	1.3	2.2	2.5	0.2	1.8	0.693902199	1197.3	19.2	1178.1	17.6	1142.9	36.2	-4.8
Spot 108	327	12814.7	1.1	19.9	2.1	0.2	3.0	0.0	2.2	0.736145624	163.3	3.6	162.1	4.6	144.0	48.3	-13.5
Spot 109	529	4821026.6	7.4	11.9	0.9	2.4	1.8	0.2	1.6	0.859142954	1218.1	17.6	1240.4	13.2	1279.3	18.4	4.8
Spot 110	80	5841.0	1.4	5.2	16.6	0.7	17.0	0.0	3.6	0.215120695	179.5	6.5	562.1	73.4	2741.5	274.6	93.5
Run 4 NM8A (discordant)																	
Spot 104	38	7526.6	1.7	11.9	2.8	1.9	4.4	0.2	3.4	0.774972995	986.9	31.4	1086.8	29.6	1293.0	54.4	23.7
Spot 12	40	1191.3	1.4	17.8	6.6	0.2	8.9	0.0	6.0	0.676079042	175.6	10.5	197.1	16.0	463.1	146.1	62.1
Spot 14	293	5667.2	1.3	20.5	2.5	0.3	7.1	0.0	6.7	0.935729808	287.3	18.8	271.7	17.0	139.3	59.1	####
Spot 29	35	592.9	1.7	31.6	12.2	0.1	14.2	0.0	7.2	0.507756888	192.7	13.7	126.2	16.8	NA	NA	
Spot 30	209	5059.6	0.7	20.9	2.5	0.2	9.6	0.0	9.2	0.964907601	188.8	17.2	181.5	15.9	87.0	59.6	####
Spot 39	94	664929.8	2.4	11.7	1.6	2.9	4.3	0.2	4.0	0.928641057	1429.4	51.2	1388.5	32.5	1326.3	30.9	-7.8
Spot 43	22	304.7	1.4	31.2	12.9	0.1	18.8	0.0	13.7	0.726172518	169.9	22.9	113.2	20.2	NA	NA	
Spot 56	68	2723.8	2.8	15.6	1.7	1.3	2.3	0.1	1.5	0.665396863	882.0	12.6	845.0	13.1	749.1	36.1	-17.7
Spot 72	33	259.3	1.3	91.9	8.9	0.0	10.1	0.0	4.8	0.478858447	189.3	9.0	44.4	4.4	NA	NA	
Spot 80	429	144188.9	5.5	15.9	2.9	1.3	14.8	0.2	14.5	0.980719735	930.3	126.0	864.0	86.5	697.4	61.7	-33.4
Spot 82	194	4539.2	1.6	23.7	2.2	0.2	9.7	0.0	9.4	0.972995699	263.5	24.3	220.2	19.2	NA	NA	
Spot 88	153	32285.2	3.9	13.0	1.0	2.2	1.5	0.2	1.2	0.781809447	1206.3	13.3	1174.6	10.7	1116.7	19.2	-8.0
Spot 94	30	711.3	2.2	17.1	14.5	0.3	19.5	0.0	12.9	0.664517535	201.7	25.7	231.0	40.2	540.8	319.6	62.7
Spot 98	54	9515.8	3.4	16.3	2.3	1.0	3.2	0.1	2.2	0.687646786	752.4	15.5	727.7	16.5	652.3	49.5	-15.3