Quarterly Groundwater Monitoring
Chaparral Energy, North Burbank Unit
Osage County, Oklahoma

Monitoring Well	Completion Zone	Quarterly EPA Test	Sample Date	Chloride mg/l	TDS mg/L	Alkalinity mgCaCO3/L	Depth to water (ft)	Chloride Baseline	Chloride Baseline + 30%	Chloride Baseline - 30%	TDS Baseline	TDS Baseline + 30%	TDS Baseline - 30%	Alkalinity Baseline	Alkalinity Baseline + 30%	Alkalinity Baseline - 30%
1	Vanoss B	4Q 2012	10/22/12	6,010	13,000	460	123.90	6,010	7,813	4,207	13,000	16,900	9,100	460	598	322
1	Vanoss B	2Q 2013	6/24/13	154	3,170	2,980	n/a	6,010	7,813	4,207	13,000	16,900	9,100	460	598	322
1	Vanoss B	4Q 2013	10/28/13	2,630	6,370	1,220	113.20	6,010	7,813	4,207	13,000	16,900	9,100	460	598	322
1	Vanoss B	2Q 2014	4/7/14	3,110	6,410	910	115.30	6,010	7,813	4,207	13,000	16,900	9,100	460	598	322
1	Vanoss B	3Q 2014	7/23/14	2,580	6,190	1,070	112.10	6,010	7,813	4,207	13,000	16,900	9,100	460	598	322
1	Vanoss B	4Q 2014	10/29/14	3,540	7,280	605	110.90	6,010	7,813	4,207	13,000	16,900	9,100	460	598	322
1	Vanoss B	1Q 2015	2/19/15	3,780	7,020	520	119.90	6,010	7,813	4,207	13,000	16,900	9,100	460	598	322
1	Vanoss B	2Q 2015	6/29/15	1,610	4,600	1,270	110.90	6,010	7,813	4,207	13,000	16,900	9,100	460	598	322
1	Vanoss B	3Q 2015	9/23/15	3,800	7,180	440	122.10	6,010	7,813	4,207	13,000	16,900	9,100	460	598	322
2	Vanoss B	4Q 2012	10/22/12	1,420	3,430	286	117.40	1,420	1,846	994	3,430	4,459	2,401	286	372	200
2	Vanoss B	2Q 2013	6/24/13	415	2,280	1,490	119.90	1,420	1,846	994	3,430	4,459	2,401	286	372	200
2	Vanoss B	4Q 2013	10/28/13	325	2,160	1,590	123.70	1,420	1,846	994	3,430	4,459	2,401	286	372	200
2	Vanoss B	2Q 2014	4/7/14	281	2,010	1,560	124.40	1,420	1,846	994	3,430	4,459	2,401	286	372	200
2	Vanoss B	3Q 2014	7/22/14	338	1,870	1,200	122.00	1,420	1,846	994	3,430	4,459	2,401	286	372	200
2	Vanoss B	4Q 2014	10/28/14	317	1,770	1,220	122.40	1,420	1,846	994	3,430	4,459	2,401	286	372	200
2	Vanoss B	1Q 2015	2/18/15	2,140	4,030	330	121.40	1,420	1,846	994	3,430	4,459	2,401	286	372	200
2	Vanoss B	2Q 2015	6/30/15	274	1,780	1,260	115.50	1,420	1,846	994	3,430	4,459	2,401	286	372	200
2	Vanoss B	3Q 2015	9/23/15	2,960	4,960	120	127.40	1,420	1,846	994	3,430	4,459	2,401	286	372	200
3	Vanoss B	4Q 2012	10/22/12	589	2,720	1,390	131.70	589	766	412	2,720	3,536	1,904	1,390	1,807	973
3	Vanoss B	2Q 2013	6/25/13	1,210	3,560	2,000	131.60	589	766	412	2,720	3,536	1,904	1,390	1,807	973
3	Vanoss B	4Q 2013	10/28/13	732	2,920	1,720	133.60	589	766	412	2,720	3,536	1,904	1,390	1,807	973
3	Vanoss B	2Q 2014	4/7/14	738	2,380	1,120	132.80	589	766	412	2,720	3,536	1,904	1,390	1,807	973
3	Vanoss B	3Q 2014	7/22/14	570	2,360	990	133.20	589	766	412	2,720	3,536	1,904	1,390	1,807	973
3	Vanoss B	4Q 2014	10/28/14	712	2,290	870	131.80	589	766	412	2,720	3,536	1,904	1,390	1,807	973
3	Vanoss B	1Q 2015	2/18/15	699	2,340	860	131.40	589	766	412	2,720	3,536	1,904	1,390	1,807	973
3	Vanoss B	2Q 2015	6/25/15	585	2,240	790	128.60	589	766	412	2,720	3,536	1,904	1,390	1,807	973
3	Vanoss B	3Q 2015	9/23/15	1,190	2,630	450	130.30	589	766	412	2,720	3,536	1,904	1,390	1,807	973
4	Vanoss B	4Q 2012	10/23/12	2,220	6,910	2,360	62.70	2,220	2,886	1,554	6,910	8,983	4,837	2,360	3,068	1,652
4	Vanoss B	2Q 2013	6/25/13	1,990	5,440	2,060	54.40	2,220	2,886	1,554	6,910	8,983	4,837	2,360	3,068	1,652
4	Vanoss B	4Q 2013	10/28/13	2,240	5,600	1,920	63.80	2,220	2,886	1,554	6,910	8,983	4,837	2,360	3,068	1,652
4	Vanoss B	2Q 2014	4/7/14	2,550	5,550	1,820	63.40	2,220	2,886	1,554	6,910	8,983	4,837	2,360	3,068	1,652
4	Vanoss B	3Q 2014	7/22/14	2,300	5,930	1,740	62.40	2,220	2,886	1,554	6,910	8,983	4,837	2,360	3,068	1,652
4	Vanoss B	4Q 2014	10/28/14	2,020	5,010	1,730	62.30	2,220	2,886	1,554	6,910	8,983	4,837	2,360	3,068	1,652
4	Vanoss B	1Q 2015	2/18/15	1,970	5,080	1,700	59.70	2,220	2,886	1,554	6,910	8,983	4,837	2,360	3,068	1,652
4	Vanoss B	2Q 2015	6/29/15	583	3,130	2,100	57.20	2,220	2,886	1,554	6,910	8,983	4,837	2,360	3,068	1,652
4	Vanoss B	3Q 2015	9/23/15	3,920	7,410	400	57.60	2,220	2,886	1,554	6,910	8,983	4,837	2,360	3,068	1,652

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5	**Vanoss B**	4Q 2012	*10/23/12*	1,770	5,230	860	84.50	1,770	2,301	1,239	5,230	6,799	3,661	860	1,118	602
5	**Vanoss B**	2Q 2013	*6/25/13*	1,000	3,970	2,180	83.20	1,770	2,301	1,239	5,230	6,799	3,661	860	1,118	602
5	**Vanoss B**	4Q 2013	*10/28/13*	862	3,750	2,390	81.60	1,770	2,301	1,239	5,230	6,799	3,661	860	1,118	602
5	**Vanoss B**	2Q 2014	*4/7/14*	871	3,450	2,330	80.90	1,770	2,301	1,239	5,230	6,799	3,661	860	1,118	602
5	**Vanoss B**	3Q 2014	*7/22/14*	827	3,670	2,230	80.00	1,770	2,301	1,239	5,230	6,799	3,661	860	1,118	602
5	**Vanoss B**	4Q 2014	*10/28/14*	900	3,570	2,240	79.50	1,770	2,301	1,239	5,230	6,799	3,661	860	1,118	602
5	**Vanoss B**	1Q 2015	*2/19/15*	746	3,650	4,160	79.60	1,770	2,301	1,239	5,230	6,799	3,661	860	1,118	602
5	**Vanoss B**	2Q 2015	*6/29/15*	793	3,590	2,220	76.00	1,770	2,301	1,239	5,230	6,799	3,661	860	1,118	602
5	**Vanoss B**	3Q 2015	*9/23/15*	4,720	8,100	542	73.90	1,770	2,301	1,239	5,230	6,799	3,661	860	1,118	602
6	**Vanoss A**	4Q 2012	*10/23/12*	387	1,230	465	117.10	387	503	271	1,230	1,599	861	465	605	326
6	**Vanoss A**	2Q 2013	*7/1/13*	638	2,080	540	154.80	387	503	271	1,230	1,599	861	465	605	326
6	**Vanoss A**	4Q 2013	*10/29/13*	347	1,650	880	154.30	387	503	271	1,230	1,599	861	465	605	326
6	**Vanoss A**	2Q 2014	*4/8/14*	380	1,710	860	153.60	387	503	271	1,230	1,599	861	465	605	326
6	**Vanoss A**	3Q 2014	*7/24/14*	306	1,580	980	154.00	387	503	271	1,230	1,599	861	465	605	326
6	**Vanoss A**	4Q 2014	*10/28/14*	673	2,220	598	153.70	387	503	271	1,230	1,599	861	465	605	326
6	**Vanoss A**	1Q 2015	*2/20/15*	565	1,990	686	152.70	387	503	271	1,230	1,599	861	465	605	326
6	**Vanoss A**	2Q 2015	*6/29/15*	316	1,570	940	154.10	387	503	271	1,230	1,599	861	465	605	326
6	**Vanoss A**	3Q 2015	*9/24/15*	691	2,110	516	133.20	387	503	271	1,230	1,599	861	465	605	326
7	**Vanoss A**	4Q 2012	*10/23/12*	296	2,590	1,750	154.20	296	385	207	2,590	3,367	1,813	1,750	2,275	1,225
7	**Vanoss A**	2Q 2013	*7/1/13*	349	1,980	1,210	116.10	296	385	207	2,590	3,367	1,813	1,750	2,275	1,225
7	**Vanoss A**	4Q 2013	*10/28/13*	323	1,680	1,120	118.40	296	385	207	2,590	3,367	1,813	1,750	2,275	1,225
7	**Vanoss A**	2Q 2014	*4/7/14*	330	1,650	1,160	119.40	296	385	207	2,590	3,367	1,813	1,750	2,275	1,225
7	**Vanoss A**	3Q 2014	*7/22/14*	301	1,720	1,150	120.10	296	385	207	2,590	3,367	1,813	1,750	2,275	1,225
7	**Vanoss A**	4Q 2014	*10/28/14*	268	1,840	1,280	119.90	296	385	207	2,590	3,367	1,813	1,750	2,275	1,225
7	**Vanoss A**	1Q 2015	*2/19/15*	293	1,780	1,330	117.60	296	385	207	2,590	3,367	1,813	1,750	2,275	1,225
7	**Vanoss A**	2Q 2015	*6/29/15*	243	1,770	1,280	122.90	296	385	207	2,590	3,367	1,813	1,750	2,275	1,225
7	**Vanoss A**	3Q 2015	*9/24/15*	4,970	9,030	360	154.20	296	385	207	2,590	3,367	1,813	1,750	2,275	1,225
8	**Vanoss A**	4Q 2012	*10/23/12*	2,090	4,980	352	100.80	2,090	2,717	1,463	4,980	6,474	3,486	352	458	246
8	**Vanoss A**	2Q 2013	*7/1/13*	2,090	4,860	372	95.30	2,090	2,717	1,463	4,980	6,474	3,486	352	458	246
8	**Vanoss A**	4Q 2013	*10/29/13*	3,160	6,390	404	96.30	2,090	2,717	1,463	4,980	6,474	3,486	352	458	246
8	**Vanoss A**	2Q 2014	*4/8/14*	1,820	4,100	432	96.20	2,090	2,717	1,463	4,980	6,474	3,486	352	458	246
8	**Vanoss A**	3Q 2014	*7/22/14*	1,200	2,770	396	97.80	2,090	2,717	1,463	4,980	6,474	3,486	352	458	246
8	**Vanoss A**	4Q 2014	*10/28/14*	2,190	6,040	450	97.80	2,090	2,717	1,463	4,980	6,474	3,486	352	458	246
8	**Vanoss A**	1Q 2015	*2/20/15*	2,560	5,620	446	95.50	2,090	2,717	1,463	4,980	6,474	3,486	352	458	246
8	**Vanoss A**	2Q 2015	*6/29/15*	3,320	6,650	424	93.90	2,090	2,717	1,463	4,980	6,474	3,486	352	458	246
8	**Vanoss A**	3Q 2015	*9/24/15*	7,890	15,900	364	107.10	2,090	2,717	1,463	4,980	6,474	3,486	352	458	246

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9	**Vanoss A**	4Q 2012	*10/23/12*	852	2,420	508	84.90	852	1,108	596	2,420	3,146	1,694	508	660	356
9	**Vanoss A**	2Q 2013	*7/1/13*	471	1,960	925	86.70	852	1,108	596	2,420	3,146	1,694	508	660	356
9	**Vanoss A**	4Q 2013	*10/29/13*	482	1,870	880	86.80	852	1,108	596	2,420	3,146	1,694	508	660	356
9	**Vanoss A**	2Q 2014	*4/8/14*	449	1,640	850	87.00	852	1,108	596	2,420	3,146	1,694	508	660	356
9	**Vanoss A**	3Q 2014	*7/23/14*	497	1,780	870	87.50	852	1,108	596	2,420	3,146	1,694	508	660	356
9	**Vanoss A**	4Q 2014	*10/29/14*	503	1,770	840	87.40	852	1,108	596	2,420	3,146	1,694	508	660	356
9	**Vanoss A**	1Q 2015	*2/20/15*	498	1,700	800	86.60	852	1,108	596	2,420	3,146	1,694	508	660	356
9	**Vanoss A**	2Q 2015	*6/29/15*	519	1,780	820	85.30	852	1,108	596	2,420	3,146	1,694	508	660	356
9	**Vanoss A**	3Q 2015	*9/24/15*	5,930	12,100	334	89.00	852	1,108	596	2,420	3,146	1,694	508	660	356
10	**Vanoss B**	4Q 2012	*10/23/12*	1,140	2,550	60	107.90	1,140	1,482	798	2,550	3,315	1,785	60	78	42
10	**Vanoss B**	2Q 2013	*7/1/13*	2,280	4,900	202	114.20	1,140	1,482	798	2,550	3,315	1,785	60	78	42
10	**Vanoss B**	4Q 2013	*10/29/13*	413	1,550	404	108.50	1,140	1,482	798	2,550	3,315	1,785	60	78	42
10	**Vanoss B**	2Q 2014	*4/7/14*	3,000	5,910	224	105.50	1,140	1,482	798	2,550	3,315	1,785	60	78	42
10	**Vanoss B**	3Q 2014	*7/23/14*	564	1,730	392	107.70	1,140	1,482	798	2,550	3,315	1,785	60	78	42
10	**Vanoss B**	4Q 2014	*10/29/14*	913	2,460	376	107.00	1,140	1,482	798	2,550	3,315	1,785	60	78	42
10	**Vanoss B**	1Q 2015	*2/19/15*	327	1,320	428	111.40	1,140	1,482	798	2,550	3,315	1,785	60	78	42
10	**Vanoss B**	2Q 2015	*6/29/15*	312	1,320	500	78.10	1,140	1,482	798	2,550	3,315	1,785	60	78	42
10	**Vanoss B**	3Q 2015	*9/24/15*	469	2,020	496	104.20	1,140	1,482	798	2,550	3,315	1,785	60	78	42
11	**Vanoss A**	4Q 2012	*10/23/12*	246	1,590	358	67.10	246	320	172	1,590	2,067	1,113	358	465	251
11	**Vanoss A**	2Q 2013	*7/8/13*	230	980	320	68.40	246	320	172	1,590	2,067	1,113	358	465	251
11	**Vanoss A**	4Q 2013	*10/29/13*	243	958	300	68.30	246	320	172	1,590	2,067	1,113	358	465	251
11	**Vanoss A**	2Q 2014	*4/8/14*	259	964	350	64.30	246	320	172	1,590	2,067	1,113	358	465	251
11	**Vanoss A**	3Q 2014	*7/23/14*	277	1,050	380	66.70	246	320	172	1,590	2,067	1,113	358	465	251
11	**Vanoss A**	4Q 2014	*10/29/14*	259	980	330	67.80	246	320	172	1,590	2,067	1,113	358	465	251
11	**Vanoss A**	1Q 2015	*2/20/15*	274	910	344	68.70	246	320	172	1,590	2,067	1,113	358	465	251
11	**Vanoss A**	2Q 2015	*6/30/15*	271	904	400	67.90	246	320	172	1,590	2,067	1,113	358	465	251
11	**Vanoss A**	3Q 2015	*9/24/15*	3,380	2,680	535	68.90	246	320	172	1,590	2,067	1,113	358	465	251
13	**Vanoss A**	4Q 2012	*10/23/12*	304	2,130	1,190	127.20	304	395	213	2,130	2,769	1,491	1,190	1,547	833
13	**Vanoss A**	2Q 2013	*7/8/13*	629	2,730	1,320	127.30	304	395	213	2,130	2,769	1,491	1,190	1,547	833
13	**Vanoss A**	4Q 2013	*10/29/13*	596	2,740	1,400	127.80	304	395	213	2,130	2,769	1,491	1,190	1,547	833
13	**Vanoss A**	2Q 2014	*4/8/14*	522	2,280	1,410	127.40	304	395	213	2,130	2,769	1,491	1,190	1,547	833
13	**Vanoss A**	3Q 2014	*7/23/14*	403	2,350	1,400	129.30	304	395	213	2,130	2,769	1,491	1,190	1,547	833
13	**Vanoss A**	4Q 2014	*10/29/14*	404	2,360	1,360	130.20	304	395	213	2,130	2,769	1,491	1,190	1,547	833
13	**Vanoss A**	1Q 2015	*2/20/15*	478	2,150	1,310	127.20	304	395	213	2,130	2,769	1,491	1,190	1,547	833
13	**Vanoss A**	2Q 2015	*6/30/15*	455	2,110	1,290	127.00	304	395	213	2,130	2,769	1,491	1,190	1,547	833
13	**Vanoss A**	3Q 2015	*6/25/15*	7,950	15,100	156	137.70	304	395	213	2,130	2,769	1,491	1,190	1,547	833

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14	**Vanoss A**	4Q 2012	*10/23/12*	3,310	7,790	618	118.00	3,310	4,303	2,317	7,790	10,127	5,453	618	803	433
14	**Vanoss A**	2Q 2013	*7/15/13*	147	1,900	1,730	45.00	3,310	4,303	2,317	7,790	10,127	5,453	618	803	433
14	**Vanoss A**	4Q 2013	*10/29/13*	123	1,940	1,800	46.40	3,310	4,303	2,317	7,790	10,127	5,453	618	803	433
14	**Vanoss A**	2Q 2014	*4/8/14*	213	1,840	1,560	49.10	3,310	4,303	2,317	7,790	10,127	5,453	618	803	433
14	**Vanoss A**	3Q 2014	*7/23/14*	93	1,590	1,520	n/a	3,310	4,303	2,317	7,790	10,127	5,453	618	803	433
14	**Vanoss A**	4Q 2014	*10/30/14*	142	1,660	1,320	52.20	3,310	4,303	2,317	7,790	10,127	5,453	618	803	433
14	**Vanoss A**	1Q 2015	*2/20/15*	209	1,450	1,080	53.60	3,310	4,303	2,317	7,790	10,127	5,453	618	803	433
14	**Vanoss A**	2Q 2015	*6/30/15*	288	1,380	860	53.00	3,310	4,303	2,317	7,790	10,127	5,453	618	803	433
14	**Vanoss A**	3Q 2015	*9/30/15*	3,460	7,120	210	157.20	3,310	4,303	2,317	7,790	10,127	5,453	618	803	433
15	**Vanoss B**	4Q 2012	*10/23/12*	3,770	7,790	238	57.60	3,770	4,901	2,639	7,790	10,127	5,453	238	309	167
15	**Vanoss B**	2Q 2013	*7/15/13*	4,320	8,840	262	121.80	3,770	4,901	2,639	7,790	10,127	5,453	238	309	167
15	**Vanoss B**	4Q 2013	*10/29/13*	2,560	4,760	248	119.60	3,770	4,901	2,639	7,790	10,127	5,453	238	309	167
15	**Vanoss B**	2Q 2014	*4/8/14*	2,060	4,020	236	119.20	3,770	4,901	2,639	7,790	10,127	5,453	238	309	167
15	**Vanoss B**	3Q 2014	*7/23/14*	1,660	3,590	240	121.00	3,770	4,901	2,639	7,790	10,127	5,453	238	309	167
15	**Vanoss B**	4Q 2014	*10/30/14*	1,900	4,290	232	120.00	3,770	4,901	2,639	7,790	10,127	5,453	238	309	167
15	**Vanoss B**	1Q 2015	*2/20/15*	1,950	3,700	292	118.40	3,770	4,901	2,639	7,790	10,127	5,453	238	309	167
15	**Vanoss B**	2Q 2015	*6/30/15*	719	2,230	870	117.60	3,770	4,901	2,639	7,790	10,127	5,453	238	309	167
15	**Vanoss B**	3Q 2015	*9/29/15*	10,300	19,200	292	117.30	3,770	4,901	2,639	7,790	10,127	5,453	238	309	167
16	**Vanoss A**	4Q 2012	*10/24/12*	5,490	11,700	312	136.50	5,490	7,137	3,843	11,700	15,210	8,190	312	406	218
16	**Vanoss A**	2Q 2013	*7/15/13*	798	2,110	394	125.00	5,490	7,137	3,843	11,700	15,210	8,190	312	406	218
16	**Vanoss A**	4Q 2013	*10/29/13*	7,320	13,500	386	125.20	5,490	7,137	3,843	11,700	15,210	8,190	312	406	218
16	**Vanoss A**	2Q 2014	*4/8/14*	6,320	11,700	384	125.60	5,490	7,137	3,843	11,700	15,210	8,190	312	406	218
16	**Vanoss A**	3Q 2014	*7/23/14*	5,890	11,500	402	127.30	5,490	7,137	3,843	11,700	15,210	8,190	312	406	218
16	**Vanoss A**	4Q 2014	*10/30/14*	5,570	11,600	400	128.20	5,490	7,137	3,843	11,700	15,210	8,190	312	406	218
16	**Vanoss A**	1Q 2015	*2/20/15*	5,720	10,700	422	127.40	5,490	7,137	3,843	11,700	15,210	8,190	312	406	218
16	**Vanoss A**	2Q 2015	*6/30/15*	6,910	13,200	406	127.00	5,490	7,137	3,843	11,700	15,210	8,190	312	406	218
16	**Vanoss A**	3Q 2015	*9/30/15*	8,470	15,200	332	53.40	5,490	7,137	3,843	11,700	15,210	8,190	312	406	218
17	**Vanoss A**	4Q 2012	*10/24/12*	3,510	7,800	332	45.70	3,510	4,563	2,457	7,800	10,140	5,460	332	432	232
17	**Vanoss A**	2Q 2013	*7/23/13*	15,800	29,100	232	PIW	3,510	4,563	2,457	7,800	10,140	5,460	332	432	232
17	**Vanoss A**	4Q 2013	*10/29/13*	10,700	18,900	312	PIW	3,510	4,563	2,457	7,800	10,140	5,460	332	432	232
17	**Vanoss A**	2Q 2014	*4/8/14*	9,820	18,300	298	PIW	3,510	4,563	2,457	7,800	10,140	5,460	332	432	232
17	**Vanoss A**	3Q 2014	*7/24/14*	9,300	17,500	312	PIW	3,510	4,563	2,457	7,800	10,140	5,460	332	432	232
17	**Vanoss A**	4Q 2014	*10/30/14*	8,710	16,000	224	PIW	3,510	4,563	2,457	7,800	10,140	5,460	332	432	232
17	**Vanoss A**	1Q 2015	*2/20/15*	9,270	16,600	300	21.10	3,510	4,563	2,457	7,800	10,140	5,460	332	432	232
17	**Vanoss A**	2Q 2015	*6/30/15*	8,640	14,500	88	23.50	3,510	4,563	2,457	7,800	10,140	5,460	332	432	232
17	**Vanoss A**	3Q 2015	*9/30/15*	9,830	17,800	272	24.85	3,510	4,563	2,457	7,800	10,140	5,460	332	432	232

Quarterly Groundwater Monitoring
Chaparral Energy, North Burbank Unit
Osage County, Oklahoma

Monitoring Well	Completion Zone	Quarterly EPA Test	Sample Date	Chloride mg/l	TDS mg/L	Alkalinity mgCaCO3/L	Depth to water (ft)	Chloride Baseline	Chloride Baseline + 30%	Chloride Baseline - 30%	TDS Baseline	TDS Baseline + 30%	TDS Baseline - 30%	Alkalinity Baseline	Alkalinity Baseline + 30%	Alkalinity Baseline - 30%
18	**Vanoss A**	4Q 2012	*10/24/12*	286	2,620	2,020	67.40	286	372	200	2,620	3,406	1,834	2,020	2,626	1,414
18	**Vanoss A**	2Q 2013	*7/23/13*	306	2,270	1,610	77.80	286	372	200	2,620	3,406	1,834	2,020	2,626	1,414
18	**Vanoss A**	4Q 2013	*10/29/13*	327	2,420	1,570	74.10	286	372	200	2,620	3,406	1,834	2,020	2,626	1,414
18	**Vanoss A**	2Q 2014	*4/8/14*	323	1,930	1,490	70.80	286	372	200	2,620	3,406	1,834	2,020	2,626	1,414
18	**Vanoss A**	3Q 2014	*7/23/14*	307	2,000	1,500	71.20	286	372	200	2,620	3,406	1,834	2,020	2,626	1,414
18	**Vanoss A**	4Q 2014	*10/30/14*	331	2,110	1,460	185.80	286	372	200	2,620	3,406	1,834	2,020	2,626	1,414
18	**Vanoss A**	1Q 2015	*2/20/15*	342	2,000	1,450	70.30	286	372	200	2,620	3,406	1,834	2,020	2,626	1,414
18	**Vanoss A**	2Q 2015	*6/30/15*	320	1,940	1,390	70.70	286	372	200	2,620	3,406	1,834	2,020	2,626	1,414
18	**Vanoss A**	3Q 2015	*9/30/15*	550	1,820	820	81.94	286	372	200	2,620	3,406	1,834	2,020	2,626	1,414
19	**Vanoss A**	4Q 2012	*10/24/12*	360	3,130	2,480	72.90	360	468	252	3,130	4,069	2,191	2,480	3,224	1,736
19	**Vanoss A**	2Q 2013	*7/23/13*	67	2,490	2,350	72.00	360	468	252	3,130	4,069	2,191	2,480	3,224	1,736
19	**Vanoss A**	4Q 2013	*10/29/13*	62	2,280	2,230	73.30	360	468	252	3,130	4,069	2,191	2,480	3,224	1,736
19	**Vanoss A**	2Q 2014	*4/8/14*	60	1,870	2,100	74.10	360	468	252	3,130	4,069	2,191	2,480	3,224	1,736
19	**Vanoss A**	3Q 2014	*7/23/14*	63	2,080	2,080	77.20	360	468	252	3,130	4,069	2,191	2,480	3,224	1,736
19	**Vanoss A**	4Q 2014	*10/30/14*	68	2,280	2,080	77.70	360	468	252	3,130	4,069	2,191	2,480	3,224	1,736
19	**Vanoss A**	1Q 2015	*3/12/15*	69	2,080	2,080	76.70	360	468	252	3,130	4,069	2,191	2,480	3,224	1,736
19	**Vanoss A**	2Q 2015	*6/30/15*	73	2,140	2,030	75.20	360	468	252	3,130	4,069	2,191	2,480	3,224	1,736
19	**Vanoss A**	3Q 2015	*9/30/15*	186	1,820	1,400	83.88	360	468	252	3,130	4,069	2,191	2,480	3,224	1,736
20	**Vanoss B**	3Q 2013	*8/7/13*	551	2,910	2,130	98.10	551	716	386	2,910	3,783	2,037	2,130	2,769	1,491
20	**Vanoss B**	4Q 2013	*10/28/13*	872	2,890	1,370	87.10	551	716	386	2,910	3,783	2,037	2,130	2,769	1,491
20	**Vanoss B**	2Q 2014	*4/8/14*	1,730	4,710	1,220	87.10	551	716	386	2,910	3,783	2,037	2,130	2,769	1,491
20	**Vanoss B**	3Q 2014	*7/23/14*	1,050	3,190	1,020	86.70	551	716	386	2,910	3,783	2,037	2,130	2,769	1,491
20	**Vanoss B**	4Q 2014	*10/29/14*	1,060	3,120	852	80.80	551	716	386	2,910	3,783	2,037	2,130	2,769	1,491
20	**Vanoss B**	1Q 2015	*2/20/15*	1,090	3,550	1,060	56.40	551	716	386	2,910	3,783	2,037	2,130	2,769	1,491
20	**Vanoss B**	2Q 2015	*6/30/15*	578	2,330	896	74.80	551	716	386	2,910	3,783	2,037	2,130	2,769	1,491
20	**Vanoss B**	3Q 2015	*9/30/15*	556	2,050	726	96.90	551	716	386	2,910	3,783	2,037	2,130	2,769	1,491
21	**Vanoss B**	3Q 2013	*8/7/13*	2,510	5,310	310	88.10	2,510	3,263	1,757	5,310	6,903	3,717	310	403	217
21	**Vanoss B**	4Q 2013	*10/28/13*	1,170	2,480	430	92.50	2,510	3,263	1,757	5,310	6,903	3,717	310	403	217
21	**Vanoss B**	2Q 2014	*4/7/14*	1,220	2,750	430	89.30	2,510	3,263	1,757	5,310	6,903	3,717	310	403	217
21	**Vanoss B**	3Q 2014	*7/23/14*	1,280	4,220	380	92.90	2,510	3,263	1,757	5,310	6,903	3,717	310	403	217
21	**Vanoss B**	4Q 2014	*10/29/14*	1,510	3,870	350	93.30	2,510	3,263	1,757	5,310	6,903	3,717	310	403	217
21	**Vanoss B**	1Q 2015	*3/12/15*	2,190	4,120	296	92.90	2,510	3,263	1,757	5,310	6,903	3,717	310	403	217
21	**Vanoss B**	2Q 2015	*6/30/15*	2,400	4,640	230	90.30	2,510	3,263	1,757	5,310	6,903	3,717	310	403	217
21	**Vanoss B**	3Q 2015	*9/30/15*	5,230	10,800	342	80.80	2,510	3,263	1,757	5,310	6,903	3,717	310	403	217

Quarterly Groundwater Monitoring
Chaparral Energy, North Burbank Unit
Osage County, Oklahoma

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22	**Vanoss B**	3Q 2013	*8/7/13*	768	1,710	455	57.60	768	998	538	1,710	2,223	1,197	455	592	319
22	**Vanoss B**	4Q 2013	*10/28/13*	4,420	10,000	3,040	58.80	768	998	538	1,710	2,223	1,197	455	592	319
22	**Vanoss B**	2Q 2014	*4/8/14*	4,480	9,870	1,870	54.60	768	998	538	1,710	2,223	1,197	455	592	319
22	**Vanoss B**	3Q 2014	*7/23/14*	4,410	9,970	1,250	52.20	768	998	538	1,710	2,223	1,197	455	592	319
22	**Vanoss B**	4Q 2014	*10/29/14*	4,120	9,630	1,080	53.20	768	998	538	1,710	2,223	1,197	455	592	319
22	**Vanoss B**	1Q 2015	*3/12/15*	4,250	9,090	726	52.80	768	998	538	1,710	2,223	1,197	455	592	319
22	**Vanoss B**	2Q 2015	*6/30/15*	4,180	9,040	720	51.20	768	998	538	1,710	2,223	1,197	455	592	319
22	**Vanoss B**	3Q 2015	*9/30/15*	6,230	11,800	238	70.60	768	998	538	1,710	2,223	1,197	455	592	319
23	**Vanoss B**	3Q 2013	*8/7/13*	1,080	2,490	385	97.50	1,080	1,404	756	2,490	3,237	1,743	385	501	270
23	**Vanoss B**	4Q 2013	*10/28/13*	1,420	3,270	535	98.30	1,080	1,404	756	2,490	3,237	1,743	385	501	270
23	**Vanoss B**	2Q 2014	*4/7/14*	2,000	4,340	620	102.50	1,080	1,404	756	2,490	3,237	1,743	385	501	270
23	**Vanoss B**	3Q 2014	*7/22/14*	1,710	4,540	1,630	104.50	1,080	1,404	756	2,490	3,237	1,743	385	501	270
23	**Vanoss B**	4Q 2014	*10/28/14*	2,090	4,780	600	102.10	1,080	1,404	756	2,490	3,237	1,743	385	501	270
23	**Vanoss B**	1Q 2015	*2/18/15*	2,390	5,360	590	97.10	1,080	1,404	756	2,490	3,237	1,743	385	501	270
23	**Vanoss B**	2Q 2015	*6/25/15*	1,740	4,530	700	95.50	1,080	1,404	756	2,490	3,237	1,743	385	501	270
23	**Vanoss B**	3Q 2015	*9/21/15*	4,060	8,410	388	102.10	1,080	1,404	756	2,490	3,237	1,743	385	501	270
24	**Vanoss B**	3Q 2013	*8/7/13*	191	1,550	1,290	56.30	191	248	134	1,550	2,015	1,085	1,290	1,677	903
24	**Vanoss B**	4Q 2013	*10/28/13*	226	1,440	1,090	62.40	191	248	134	1,550	2,015	1,085	1,290	1,677	903
24	**Vanoss B**	2Q 2014	*4/7/14*	271	1,230	730	62.80	191	248	134	1,550	2,015	1,085	1,290	1,677	903
24	**Vanoss B**	3Q 2014	*7/22/14*	300	1,100	620	61.70	191	248	134	1,550	2,015	1,085	1,290	1,677	903
24	**Vanoss B**	4Q 2014	*10/28/14*	243	956	510	63.40	191	248	134	1,550	2,015	1,085	1,290	1,677	903
24	**Vanoss B**	1Q 2015	*2/18/15*	245	862	390	62.10	191	248	134	1,550	2,015	1,085	1,290	1,677	903
24	**Vanoss B**	2Q 2015	*6/25/15*	292	812	270	62.20	191	248	134	1,550	2,015	1,085	1,290	1,677	903
24	**Vanoss B**	3Q 2015	*9/21/15*	1,490	3,280	246	59.40	191	248	134	1,550	2,015	1,085	1,290	1,677	903
25	**Vanoss A**	3Q 2013	*8/7/13*	504	2,730	1,870	95.70	504	655	353	2,730	3,549	1,911	1,870	2,431	1,309
25	**Vanoss A**	4Q 2013	*10/28/13*	420	2,660	2,100	95.70	504	655	353	2,730	3,549	1,911	1,870	2,431	1,309
25	**Vanoss A**	2Q 2014	*4/7/14*	360	2,680	1,940	95.30	504	655	353	2,730	3,549	1,911	1,870	2,431	1,309
25	**Vanoss A**	3Q 2014	*7/22/14*	311	2,620	1,880	94.10	504	655	353	2,730	3,549	1,911	1,870	2,431	1,309
25	**Vanoss A**	4Q 2014	*10/28/14*	318	2,480	1,810	93.40	504	655	353	2,730	3,549	1,911	1,870	2,431	1,309
25	**Vanoss A**	1Q 2015	*2/18/15*	369	2,300	1,830	93.80	504	655	353	2,730	3,549	1,911	1,870	2,431	1,309
25	**Vanoss A**	2Q 2015	*6/29/15*	322	2,360	1,830	97.30	504	655	353	2,730	3,549	1,911	1,870	2,431	1,309
25	**Vanoss A**	3Q 2015	*9/22/15*	806	2,300	730	92.70	504	655	353	2,730	3,549	1,911	1,870	2,431	1,309

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26	**Vanoss B**	3Q 2013	*8/7/13*	1,830	3,210	300	98.60	1,830	2,379	1,281	3,210	4,173	2,247	300	390	210
26	**Vanoss B**	4Q 2013	*10/28/13*	246	3,130	2,990	99.00	1,830	2,379	1,281	3,210	4,173	2,247	300	390	210
26	**Vanoss B**	2Q 2014	*4/7/14*	336	3,530	3,010	99.00	1,830	2,379	1,281	3,210	4,173	2,247	300	390	210
26	**Vanoss B**	3Q 2014	*7/22/14*	385	3,580	2,900	98.00	1,830	2,379	1,281	3,210	4,173	2,247	300	390	210
26	**Vanoss B**	4Q 2014	*10/28/14*	432	3,680	2,850	98.00	1,830	2,379	1,281	3,210	4,173	2,247	300	390	210
26	**Vanoss B**	1Q 2015	*2/18/15*	422	3,320	2,830	97.00	1,830	2,379	1,281	3,210	4,173	2,247	300	390	210
26	**Vanoss B**	2Q 2015	*6/29/15*	463	3,420	2,700	96.60	1,830	2,379	1,281	3,210	4,173	2,247	300	390	210
26	**Vanoss B**	3Q 2015	*9/22/15*	966	3,180	1,380	94.80	1,830	2,379	1,281	3,210	4,173	2,247	300	390	210
27	**Vanoss B**	3Q 2013	*8/7/13*	3,670	7,320	364	78.50	3,670	4,771	2,569	7,320	9,516	5,124	364	473	255
27	**Vanoss B**	4Q 2013	*10/28/13*	625	3,240	2,010	81.10	3,670	4,771	2,569	7,320	9,516	5,124	364	473	255
27	**Vanoss B**	2Q 2014	*4/7/14*	452	2,970	2,170	n/a	3,670	4,771	2,569	7,320	9,516	5,124	364	473	255
27	**Vanoss B**	3Q 2014	*7/22/14*	472	3,040	2,140	80.40	3,670	4,771	2,569	7,320	9,516	5,124	364	473	255
27	**Vanoss B**	4Q 2014	*10/28/14*	522	2,660	2,020	80.50	3,670	4,771	2,569	7,320	9,516	5,124	364	473	255
27	**Vanoss B**	1Q 2015	*2/18/15*	870	2,900	2,020	81.20	3,670	4,771	2,569	7,320	9,516	5,124	364	473	255
27	**Vanoss B**	2Q 2015	*6/25/15*	454	2,930	1,980	82.60	3,670	4,771	2,569	7,320	9,516	5,124	364	473	255
27	**Vanoss B**	3Q 2015	*9/22/15*	1,550	4,160	940	79.10	3,670	4,771	2,569	7,320	9,516	5,124	364	473	255
28	**Vanoss B**	3Q 2013	*8/7/13*	3,840	10,600	3,250	46.50	3,840	4,992	2,688	10,600	13,780	7,420	3,250	4,225	2,275
28	**Vanoss B**	4Q 2013	*10/28/13*	6,500	11,900	2,720	47.60	3,840	4,992	2,688	10,600	13,780	7,420	3,250	4,225	2,275
28	**Vanoss B**	2Q 2014	*4/7/14*	6,140	12,800	2,720	50.30	3,840	4,992	2,688	10,600	13,780	7,420	3,250	4,225	2,275
28	**Vanoss B**	3Q 2014	*7/22/14*	5,960	12,500	2,660	49.50	3,840	4,992	2,688	10,600	13,780	7,420	3,250	4,225	2,275
28	**Vanoss B**	4Q 2014	*10/28/14*	5,330	12,200	2,580	49.10	3,840	4,992	2,688	10,600	13,780	7,420	3,250	4,225	2,275
28	**Vanoss B**	1Q 2015	*2/18/15*	5,470	9,120	2,460	49.90	3,840	4,992	2,688	10,600	13,780	7,420	3,250	4,225	2,275
28	**Vanoss B**	2Q 2015	*6/25/15*	5,310	9,740	2,420	48.70	3,840	4,992	2,688	10,600	13,780	7,420	3,250	4,225	2,275
28	**Vanoss B**	3Q 2015	*9/22/15*	5,580	9,860	780	48.30	3,840	4,992	2,688	10,600	13,780	7,420	3,250	4,225	2,275
29	**Vanoss B**	3Q 2013	*8/7/13*	181	2,390	1,990	82.20	181	235	127	2,390	3,107	1,673	1,990	2,587	1,393
29	**Vanoss B**	4Q 2013	*10/28/13*	1,420	4,330	2,230	79.00	181	235	127	2,390	3,107	1,673	1,990	2,587	1,393
29	**Vanoss B**	2Q 2014	*4/7/14*	1,790	4,860	2,050	78.10	181	235	127	2,390	3,107	1,673	1,990	2,587	1,393
29	**Vanoss B**	3Q 2014	*7/22/14*	1,430	4,440	2,020	78.00	181	235	127	2,390	3,107	1,673	1,990	2,587	1,393
29	**Vanoss B**	4Q 2014	*10/28/14*	1,540	4,760	2,070	77.40	181	235	127	2,390	3,107	1,673	1,990	2,587	1,393
29	**Vanoss B**	1Q 2015	*2/18/15*	2,290	5,830	2,100	78.20	181	235	127	2,390	3,107	1,673	1,990	2,587	1,393
29	**Vanoss B**	2Q 2015	*6/25/15*	1,600	4,740	2,190	76.60	181	235	127	2,390	3,107	1,673	1,990	2,587	1,393
29	**Vanoss B**	3Q 2015	*9/21/15*	1,370	2,970	1,130	82.00	181	235	127	2,390	3,107	1,673	1,990	2,587	1,393
30	**Vanoss B**	3Q 2014	*7/24/14*	619	1,900	540	96.50	619	805	433	1,900	2,470	1,330	540	702	378
30	**Vanoss B**	4Q 2014	*10/29/14*	857	4,950	2,970	89.20	619	805	433	1,900	2,470	1,330	540	702	378
30	**Vanoss B**	1Q 2015	3/12/15	1,100	4,680	2,700	88.60	619	805	433	1,900	2,470	1,330	540	702	378
30	**Vanoss B**	2Q 2015	*6/25/15*	1,070	4,150	2,520	89.70	619	805	433	1,900	2,470	1,330	540	702	378
30	**Vanoss B**	3Q 2015	*9/29/15*	894	2,750	1,270	90.00	619	805	433	1,900	2,470	1,330	540	702	378

Quarterly Groundwater Monitoring
Chaparral Energy, North Burbank Unit
Osage County, Oklahoma

Monitoring Well	Completion Zone	Quarterly EPA Test	Sample Date	Chloride mg/l	TDS mg/L	Alkalinity mgCaCO3/L	Depth to water (ft)	Chloride Baseline	Chloride Baseline + 30%	Chloride Baseline - 30%	TDS Baseline	TDS Baseline + 30%	TDS Baseline - 30%	Alkalinity Baseline	Alkalinity Baseline + 30%	Alkalinity Baseline - 30%
31	**Vanoss B**	3Q 2014	*7/24/14*	158	626	290	68.00	158	205	111	626	814	438	290	377	203
31	**Vanoss B**	4Q 2014	*10/29/14*	20	514	178	68.70	158	205	111	626	814	438	290	377	203
31	**Vanoss B**	1Q 2015	*3/12/15*	34	496	202	79.20	158	205	111	626	814	438	290	377	203
31	**Vanoss B**	2Q 2015	*6/29/15*	13	410	120	75.00	158	205	111	626	814	438	290	377	203
31	**Vanoss B**	3Q 2015	*9/29/15*	56	1,480	158	73.80	158	205	111	626	814	438	290	377	203
32	**Vanoss B**	3Q 2014	*7/24/14*	1,600	3,910	368	82.20	1,600	2,080	1,120	3,910	5,083	2,737	368	478	258
32	**Vanoss B**	4Q 2014	*10/29/14*	162	936	470	68.80	1,600	2,080	1,120	3,910	5,083	2,737	368	478	258
32	**Vanoss B**	1Q 2015	*3/12/15*	269	1,170	540	68.60	1,600	2,080	1,120	3,910	5,083	2,737	368	478	258
32	**Vanoss B**	2Q 2015	*6/29/15*	249	1,160	560	69.50	1,600	2,080	1,120	3,910	5,083	2,737	368	478	258
32	**Vanoss B**	3Q 2015	*9/30/15*	5,530	10,700	394	69.00	1,600	2,080	1,120	3,910	5,083	2,737	368	478	258
33	**Vanoss B**	3Q 2014	*7/23/14*	269	1,180	444	133.90	269	350	188	1,180	1,534	826	444	577	311
33	**Vanoss B**	4Q 2014	*10/29/14*	357	2,600	1,900	60.80	269	350	188	1,180	1,534	826	444	577	311
33	**Vanoss B**	1Q 2015	*3/12/15*	341	2,220	1,850	36.10	269	350	188	1,180	1,534	826	444	577	311
33	**Vanoss B**	2Q 2015	*6/29/15*	243	1,030	410	39.50	269	350	188	1,180	1,534	826	444	577	311
33	**Vanoss B**	3Q 2015	*9/30/15*	717	1,310	126	67.50	269	350	188	1,180	1,534	826	444	577	311
34	**Vanoss B**	3Q 2014	*7/23/2014*	766	2,120	574	130.20	766	996	536	2,120	2,756	1,484	574	746	402
34	**Vanoss B**	4Q 2014	*10/29/14*	1,820	4,680	1,020	62.00	766	996	536	2,120	2,756	1,484	574	746	402
34	**Vanoss B**	1Q 2015	*3/12/15*	1,080	4,460	2,290	62.10	766	996	536	2,120	2,756	1,484	574	746	402
34	**Vanoss B**	2Q 2015	*6/29/15*	542	4,120	2,630	60.30	766	996	536	2,120	2,756	1,484	574	746	402
34	**Vanoss B**	3Q 2015	*9/30/15*	5,510	10,800	248	60.20	766	996	536	2,120	2,756	1,484	574	746	402
35	**Oscar A**	3Q 2014	*7/23/2014*	452	1,340	478	146.20	452	588	316	1,340	1,742	938	478	621	335
35	**Oscar A**	4Q 2014	*10/29/14*	425	3,220	2,380	29.00	452	588	316	1,340	1,742	938	478	621	335
35	**Oscar A**	1Q 2015	*2/18/15*	230	1,760	1,230	145.90	452	588	316	1,340	1,742	938	478	621	335
35	**Oscar A**	2Q 2015	*6/29/15*	279	2,000	1,430	19.20	452	588	316	1,340	1,742	938	478	621	335
35	**Oscar A**	3Q 2015	*9/22/15*	2,250	4,490	256	77.00	452	588	316	1,340	1,742	938	478	621	335
36	**Vanoss B**	3Q 2014	*7/23/2014*	1,050	2,260	450	144.50	1,050	1,365	735	2,260	2,938	1,582	450	585	315
36	**Vanoss B**	4Q 2014	*10/30/14*	79	2,210	2,190	39.50	1,050	1,365	735	2,260	2,938	1,582	450	585	315
36	**Vanoss B**	1Q 2015	*2/20/15*	84	1,900	1,990	29.60	1,050	1,365	735	2,260	2,938	1,582	450	585	315
36	**Vanoss B**	2Q 2015	*6/30/15*	84	734	580	12.30	1,050	1,365	735	2,260	2,938	1,582	450	585	315
36	**Vanoss B**	3Q 2015	*9/23/15*	115	956	710	20.00	1,050	1,365	735	2,260	2,938	1,582	450	585	315
37	**Vanoss B**	3Q 2014	*7/22/2014*	181	1,480	500	132.50	181	235	127	1,480	1,924	1,036	500	650	350
37	**Vanoss B**	4Q 2014	*10/30/14*	215	1,710	1,340	145.50	181	235	127	1,480	1,924	1,036	500	650	350
37	**Vanoss B**	1Q 2015	*3/12/15*	346	2,360	1,710	31.00	181	235	127	1,480	1,924	1,036	500	650	350
37	**Vanoss B**	2Q 2015	*6/30/15*	164	1,880	1,210	146.50	181	235	127	1,480	1,924	1,036	500	650	350
37	**Vanoss B**	3Q 2015	*9/30/15*	838	1,930	430	146.99	181	235	127	1,480	1,924	1,036	500	650	350

Quarterly Groundwater Monitoring
Chaparral Energy, North Burbank Unit
Osage County, Oklahoma

Monitoring Well	Completion Zone	Quarterly EPA Test	Sample Date	Chloride mg/l	TDS mg/L	Alkalinity mgCaCO3/L	Depth to water (ft)	Chloride Baseline	Chloride Baseline + 30%	Chloride Baseline - 30%	TDS Baseline	TDS Baseline + 30%	TDS Baseline - 30%	Alkalinity Baseline	Alkalinity Baseline + 30%	Alkalinity Baseline - 30%
38	**Vanoss C**	3Q 2014	*7/24/2014*	184	658	228	71.50	184	239	129	658	855	461	228	296	160
38	**Vanoss C**	4Q 2014	*10/29/14*	1,860	5,170	1,940	78.50	184	239	129	658	855	461	228	296	160
38	**Vanoss C**	1Q 2015	*3/12/15*	2,960	6,120	1,890	80.20	184	239	129	658	855	461	228	296	160
38	**Vanoss C**	2Q 2015	*6/25/15*	2,500	7,750	1,860	242.70	184	239	129	658	855	461	228	296	160
38	**Vanoss C**	3Q 2015	*9/29/15*	12,300	22,600	142	79.50	184	239	129	658	855	461	228	296	160

Monthly Groundwater Monitoring Data
Chaparral Energy, North Burbank Unit
Osage County, Oklahoma

Monitoring Well	Monthly EPA Test	Monthly Sample Date	TPH (C6-C12) (mg/L)	TPH (>C12-C28) (mg/L)	TPH (>C28-C35) (mg/L)	TPH (C6-C35) (mg/L)	Total Alk (mgCaCO3/L)	Bicarb Alkalinity (mgCaCO3/L)	Sodium (mg/L)	Acetone (ug/l)	Benzene (ug/L)	Toluene (ug/L)	1,1,2,2 Tetrachloroethene (ug/L)	Ethyl- benzene (ug/L)	m+p Xylene (ug/L)	O-Xylene (ug/L)	Isopropyl- benzene (ug/L)	n-Propyl- benzene (ug/L)	1,3,5-Trimethyl- benzene (ug/L)
12	Feb 2015	***2/20/15***	**<4.67**	**<4.67**	**<4.67**	**<14**	**1,860.00**	**1,860.00**	**1,020.00**	**<20**	**59.10**	**<5**	**<5**	**<5**	**12.10**	**<5**	**<5**	**<5**	**<5**
12	Mar 2015	*3/12/15*	<4.53	<4.53	<4.53	<13.6	1,820.00	1,820.00	964.00	<200	78.20	<50	<50	<50	<50	<50	<50	<50	<50
12	Apr 2015	*4/2/15*	<4.67	<4.67	<4.67	<14	1,790.00	1,790.00	932.00	<20	60.80	<5	<5	<5	14.00	<5	<5	<5	<5
12	Jun 2015	*6/5/15*	<5	<5	<5	<15	1,810.00	666.00	1,010.00	<20	45.10	5.01	<5	<5	7.67	<5	<5	<5	<5
12	Jul 2015	*7/1/15*	<4.71	<4.71	<4.71	<14.1	1,640.00	1,640.00	974.00	<20	49.10	8.15	<5	<5	<10	<5	<5	<5	<5
12	Aug 2015	*8/31/15*	<0.90	<0.90	<0.90	1.06	355.00	355.00	2,740.00	<2.66	<0.20	<0.17	<0.190	<0.190	<0.58	<0.58	<0.33	<0.17	<0.17
12	Sep 2015	9/25/15	<4.16	<4.16	<4.16	<12.5	1,500.00	1,490.00	1,320.00	<20	<5	<5	<5	<5	<10	<5	<5	<5	<5
23-8	Feb 2015	***2/20/15***	**8.91**	**6.45**	**<4.64**	**15.40**	**1,150.00**	**1,150.00**	**2,730.00**	**51.30**	**1,030.00**	**915.00**	**<5**	**98.00**	**769.00**	**373.00**	**28.70**	**37.30**	**65.50**
23-8	Mar 2015	*3/12/15*	23.60	29.10	<4.56	52.70	490.00	490.00	465.00	<200	178.00	405.00	<50	135.00	703.00	348.00	<50	<50	97.70
23-8	Apr 2015	*4/2/15*	59.40	86.10	7.07	153.00	490.00	490.00	478.00	<20	84.90	86.20	<5	42.10	284.00	132.00	35.20	41.50	92.80
23-8	Jun 2015	*6/5/15*	57.70	76.40	5.09	139.00	564.00	564.00	1,010.00	<20	139.00	<5	<5	70.60	163.00	9.49	41.20	47.10	121.00
23-8	Jul 2015	*7/1/15*	20.30	24.10	<4.66	44.40	670.00	670.00	1,040.00	<20	110.00	<5	<5	47.10	56.00	<5	20.60	21.00	75.40
23-8	Aug 2015	*8/31/15*	8.17	12.80	<0.9	<0.9	449.00	449.00	963.00	<2.66	74.30	39.50	<0.19	15.60	248.00	248.00	13.40	12.30	36.60
23-8	Sep 2015	*9/25/15*	34.50	32.70	4.28	71.50	490.00	490.00	1,160.00	<20	54.00	17.70	<5	11.30	160.00	69.50	14.00	13.20	46.90
24-5	Feb 2015	***2/20/15***	**48.40**	**61.10**	**6.70**	**116.00**	**148.00**	**148.00**	**331.00**	**<20**	**252.00**	**520.00**	**<5**	**126.00**	**696.00**	**318.00**	**43.10**	**57.90**	**94.60**
24-5	Mar 2015	*3/12/15*	23.40	37.10	<4.73	60.50	720.00	720.00	1,140.00	<200	856.00	1,280.00	<50	310.00	1,330.00	683.00	74.40	81.70	178.00
24-5	Apr 2015	*4/2/15*	88.20	94.20	5.71	188.00	750.00	750.00	962.00	<20	1,150.00	1,170.00	<5	395.00	1,900.00	815.00	69.80	78.70	157.00
24-5	Jun 2015	*6/5/15*	404.00	534.00	43.00	980.00	570.00	570.00	644.00	28.50	154.00	155.00	<5	209.00	948.00	128.00	86.80	116.00	151.00
24-5	Jul 2015	*7/1/15*	123.00	186.00	16.90	326.00	550.00	486.00	625.00	<40	97.40	14.80	<5	107.00	760.00	7.65	44.60	58.70	119.00
24-5	Aug 2015	*8/31/15*	211.00	347.00	20.50	30.80	503.00	503.00	551.00	<13.3	179.00	137.00	<0.95	185.00	1,140.00	1,140.00	46.70	50.30	105.00
24-5	Sep 2015	*9/25/15*	24.80	19.90	<4.13	44.80	570.00	570.00	642.00	<20	575.00	562.00	<5	444.00	1,730.00	779.00	64.60	71.20	146.00

Monthly Groundwater Monitoring Data
Chaparral Energy, North Burbank Unit
Osage County, Oklahoma

Monitoring Well	Monthly EPA Test	Monthly Sample Date	4-Isopropy- Itoluene (ug/L)	1,2,4-Trimethyl- benzene (ug/L)	sec-Butyl- benzene (ug/L)	n-Butyl- benzene (ug/L)	Napthalene (ug/L)	Bromide (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate as SO4 (mg/L)
12	Feb 2015	***2/20/15***	**<5**	**<5**	**<5**	**<5**	**<5**	**<1.50**	**341.00**	**<.50**	**29.60**
12	Mar 2015	*3/12/15*	<50	<50	<50	<50	<50	<1.50	359.00	<0.50	27.80
12	Apr 2015	*4/2/15*	5.17	<5	5.65	6.24	<5	<1.50	383.00	0.58	29.90
12	Jun 2015	*6/5/15*	<5	<5	<5	<5	<5	1.88	435.00	0.76	45.40
12	Jul 2015	*7/1/15*	<5	<5	<5	<5	<5	2.14	458.00	0.72	56.70
12	Aug 2015	*8/31/15*	<0.17	<0.17	<0.17	<0.24	<0.21	21.30	3,930.00	0.78	517.00
12	Sep 2015	9/25/15	<5	<5	<5	<5	<5	4.06	895.00	<1	198.00
23-8	Feb 2015	***2/20/15***	**9.37**	**415.00**	**6.47**	**<5**	**70.50**	**<30**	**4,550.00**	**<10**	**99.00**
23-8	Mar 2015	*3/12/15*	<50	447.00	<50	<50	85.60	1.74	512.00	2.58	176.00
23-8	Apr 2015	*4/2/15*	18.80	381.00	15.30	14.70	72.90	1.90	444.00	2.51	187.00
23-8	Jun 2015	*6/5/15*	31.50	614.00	20.30	24.60	91.20	5.99	1,400.00	3.06	117.00
23-8	Jul 2015	*7/1/15*	13.60	371.00	<5	7.75	80.90	6.36	1,430.00	3.02	28.50
23-8	Aug 2015	*8/31/15*	6.28	149.00	4.94	6.59	23.80	8.20	1,300.00	3.05	197.00
23-8	Sep 2015	*9/25/15*	9.79	180.00	6.28	5.16	29.20	7.71	1,630.00	2.82	199.00
24-5	Feb 2015	***2/20/15***	**13.30**	**414.00**	**8.43**	**8.36**	**70.20**	**<1.5**	**293.00**	**<0.5**	**32.60**
24-5	Mar 2015	*3/12/15*	<50	815.00	<50	<50	140.00	17.00	1,750.00	<2	128.00
24-5	Apr 2015	*4/2/15*	23.80	1,080.00	18.20	14.70	119.00	<6	1,410.00	<2	138.00
24-5	Jun 2015	*6/5/15*	63.10	675.00	41.40	51.40	121.00	3.14	772.00	2.50	38.50
24-5	Jul 2015	*7/1/15*	19.20	852.00	10.30	9.83	126.00	3.15	705.00	2.57	4.81
24-5	Aug 2015	*8/31/15*	15.50	513.00	13.20	17.60	106.00	3.28	522.00	2.75	131.00
24-5	Sep 2015	*9/25/15*	21.80	1,070.00	13.30	13.30	213.00	3.15	712.00	2.93	94.30