Petroglyph Operating Company
August/September 2010 Monthly Report

Covering the period of 8/15/2010 through 9/15/2010

Prepared for
Colorado Oil and Gas Conservation Commission

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Petroglyph Operating Company, Inc.
Monthly Report – August/September 2010

Petroglyph Operating Company, Inc. (Petroglyph) is submitting this monthly report for the activities that have occurred at their Little Creek Field in the Raton Basin from the end of the last reporting period through September 15, 2010. Along with this monthly report, Petroglyph is submitting an electronic copy of all data including Microsoft Excel spreadsheets from which the attached summaries and graphs were created.

1.0 Phase 1 and Phase 2 Remediation System

The Phase 1 remediation system associated with the Methane Investigation, Monitoring and Mitigation Program (MIMMP) operated from December 8, 2008 through the start of the Phase 2 remediation system on August 6, 2010. Therefore, remediation at the site has been operational for approximately twenty months. The Phase 1 remediation system consisted of 4 recovery wells and 8 injection wells all completed in the Poison Canyon Formation and designed to pump water with methane, allow the methane to off gas and return the water to approximately the same location from which it was pumped.

The Phase 2 remediation system consists of 4 recovery wells in the Poison Canyon Formation and differs from Phase 1 in that it allows for pumping a limited amount of additional water from the Vermejo Formation in up to 2 production wells (Rohr 04-10 and Rohr 09-10) at a rate not exceed a total of 1,000 barrels per day or approximately 29 gpm. The additional water will be combined with the Poison Canyon water and sent through a reverse osmosis treatment system before being injected into the Poisons Canyon Formation using the 8 injection wells.

Gas Flows in Remediation Wells

The Phase 1 system was started with pumping from Recovery 1 Kittleson and Recovery 3 PEI. Recovery 1 gas production was initially 25.7 MCFD and has dropped to a reading of approximately 4.6 MCFD at the start of this reporting period. During the period the values fluctuated between approximately 0.0095 MCFD and approximately 5.0 MCFD. Since the start-up of the Phase II system, pumping at Recovery 1 has been down more often than has been typical of past operations. When the recovery well pump goes down, even for a few hours as was the case during this reporting period, it often takes 1 to 3 days before normal gas flows resume.

Recovery 3 gas flows were measured at approximately 0.75 MCFD at the start of Phase 1 remediation and increased to approximately 1 MCFD and remained around 1 until late February 2009 and then began a slow and steady decline. During this reporting period the gas flows varied between approximately 0 and 0.18 MCFD. This well has also experienced more pump shut downs than have been typical for past operations with the associated 1 to 3 day recovery time. Recovery 3 was shut down on 8/25/2010 because previous water analyses had shown high TSS results and bacteria problems which affect the operation of reverse osmosis system. A small amount of water was pumped from the

well on 9/7/2010 to obtain a water sample resulting in a small amount of measured gas flow on that date (0.0059 MCFD).

Recovery 4 has shown variability during Phase 1 ranging between approximately 0.9 MCFD and 0 until mid April 2009 when the readings were consistently under 0.001 MCFD. Readings at Recovery 4 showed an increase beginning in late July/early August 2009 and have been a bit variable since that time. During this reporting period the readings for Recovery 4 showed fairly steady readings between a high of approximately 0.267 MCFD and a low of approximately 0.263 MCFD until 8/31/2010. After 8/31/ 2010, the gas flows decreased and ranged between approximately 0.085 MCFD and 0.159 MCFD.

Gas flows at Recovery 5 are estimated from Barton recorder data. Recovery 5 gas flows continued to show an overall decline. Initial readings from this well were between 15 and 20 MCFD. During the most recent reporting period the levels declined from 0.53 MCFD at the beginning of the period to 0.26 MCFD on the last reading (taken on September 8th) with high readings of 0.747 MCFD.

Gas flow in POCI 55 monitoring well and the Recovery wells is shown graphically in Attachment 1. The POCI 55 well has not shown any gas flows since April 2008 shortly after the Phase 1 remediation system became fully operational.

The gas flow data does not appear to show an impact from the Phase 2 operations. It is likely too early to see the effects from injecting additional water, especially due to the pumping problems which have occurred during this reporting period at Recovery 1 and 3.

Pumping and Injection Rates in Remediation Wells

The average pumping rate for Recovery 1 was 18.9 gpm during the reporting period. The average pumping rate at Recovery 3 has been 4 gpm intermittently (or averaging about 1 gpm over a day's time) (Table 1). The well was shut-in on 8/25/2010. Recovery 4 is not functioning properly as explained in previous monthly reports and has not been pumped since early April 2009. Recovery 5 pumped at an average of 6.2 gpm. The Rohr 04-10 production well, activated as part of the Phase 2 remediation, pumped 1.5 million gallons of water at an average rate of 29 gpm. The Rohr 09-10 is expected to be used only as a back up well and has not yet been pumped for the Phase 2 operations.

Injection started in Injection 01 and 04 on December 9, 2008 and Injection 02, 03, 05, 06 and 07 on December 10, 2008 (Table 1). Injection rates vary for the individual injection wells and range from 1.7 to 21.1 gpm during this reporting period with most wells showing an increase in injection rates as a result of the start of Phase 2 operations and the added amounts of water from Rohr 04-10. The two wells on the Rohr property (Injection 04 and 05) have accepted the most water. Injection 08 Haeffner has not accepted water very well. Most of the approximately 22 million gallons of water that have been recovered have been re-injected following methane off gassing and flaring during Phase 1 and the reverse osmosis treatment of Phase 2. The total Vermejo water injected into the

Poison Canyon since the start of Phase 2 is 1.3 million gallons. The Phase 2 reverse osmosis system creates a filter residue which does include some water which is not re-injected.

Petroglyph has an extensive monitoring program for domestic water wells surrounding the remediation system for changes in both water levels and in gas detected at the wellhead. In addition, Petroglyph monitors several of their production wells for changes in water level. All of these results are discussed in subsequent sections of this report. None of the monitoring has ever shown results that can be directly attributable to the remediation system pumping.

Water Treatment System

The reverse osmosis system for water treatment has been operating as expected and has been reducing levels of fluoride in the pumped water to well below the limit of 4 mg/l. The system is currently producing approximately 7.5% brine solution. A total of 4,245 barrels of brine have been shipped off site for disposal.

2.0 Ongoing Investigation

Aquifer Characterization

Petroglyph continues to evaluate data collected through the remediation system operation and ongoing monitoring to refine the aquifer characterization. The geologic model was created for the site using PETREL software and actual data from well logs completed during drilling of the remediation wells. Modeling of the flow of gas and water was completed using actual data and Computer Modeling Group Ltd.'s IMEX software. The modeling verifies that the remediation system is reducing and containing the methane as projected during initial modeling and planning for the remediation system.

Gas Isotope, Dissolved Methane and Water Quality Sampling

The attached data disk includes the results from analyses received during this reporting period for seven samples (Injection 5 Rohr, Recovery 1 Kittleson, Recovery 3 PEI, Recovery 5 Masters, Rohr 04-10, Houghtling and Smith). All of the wells were sampled for gas results. The recovery and injection well sampling will be used to demonstrate that the dissolved gas reduction is at least 50%. The injection and recovery wells were also sampled for fluoride and boron on a weekly basis. The Smith and Houghtling wells were sampled for a full suite of gas and water analyses on July 21, 2010, prior to the initiation of Phase 2 in order to obtain an additional sample prior to the initiation of Phase 2. The results for all dissolved methane sampling available to date, including the most recent sample results, are shown in Table 2 with those results received since the last reporting period highlighted in yellow.

The Phase II remediation system sampling plan requires additional water quality samples be taken to determine the quality of the injected water. This included weekly sampling of fluoride and boron at the finished water tank or at Injection No. 5 well during the first month of the Phase II system. Results of the samples are shown in Table 3a. Samples did not exceed the permit level of 4.0 mg/L for fluoride and 0.5mg/L for boron.

The recovery well dissolved methane samples at Recovery 1, Recovery 3 and Rohr 04-10 were measured weekly during the reporting period and are shown on Table 3b. The results were averaged, using a weighted average based on the volume of water pumped from each recovery well, to determine the background dissolved methane concentration. This resulted in a background dissolved methane concentration of 10,522 ug/L. This background methane concentration is significantly higher compared to the 05 Rohr site – four readings ranging from a high of 490 ug/L taken on 8/9/10 to a low of 150 ug/L taken on 8/30/09. Therefore more than a 50% reduction in dissolved methane is being achieved.

Methane Source Investigation

Petroglyph continues to evaluate the source of methane both in the domestic wells in the vicinity of the production wells and closer to the outcrop. The BLM wellhead and the Haupt #1 wellhead were not sampled during this reporting period. Any additional information on the ongoing investigation will be included in the monthly reports and/or in separate reporting as the data is collected and evaluated.

3.0 Monitoring

Down-hole Pressure and Fluid Level Monitoring

Private Wells

Petroglyph has installed continuous pressure monitoring for fluid levels in water wells at Barrett, Bergman and Coleman located within one mile of the remediation system; Meyer located in the River Ridge Ranch Subdivision but more than one mile from the remediation system; Bruington located in City Ranch Subdivision; and Garza-Vela located in the Silver Spurs Ranch Subdivision.

Information from these wells is downloaded monthly by Petroglyph, graphed, and included in electronic data disk with this monthly report. The POCI 55 Monitoring Well located near the remediation system also has a pressure gage. Attachment 2 shows graphically the changes in pressure for each of these wells. Attachment 4 is a combined graph showing the water levels in both the domestic wells monitored and Petroglyph production wells.

Water level elevations in the POCI 55 well increased from approximately 6231 to approximately 6234 feet through the monitoring period. Water levels at the Barrett well increased from approximately 6268 feet to 6271 feet at the end of the period. Bergman pressure and associated water levels increased from 6360 to 6375 feet at the end of the period. These increases in water level elevations could be indicating a potential response to an increased amount of injected water (Vermejo water) associated with the Phase 2 remediation, particularly in the case of the 15 foot rise of water levels in the Bergman well which is not in line with the most recent rate of water level rise of less than 5 feet in any reporting period.

The Bruington well continues to show an upward trend in water levels with a rise of approximately 4 feet during the reporting period from approximately 6097 feet to

approximately 6101 feet. Coleman also showed an upward trend in water levels with a slight rise of one foot during the reporting period from approximately 6233 feet to 6234 feet. Garza Vela increased from approximately 6293 feet to approximately 6295 feet. The Meyer well water elevations varied by less than 1 foot from beginning to end going from approximately 6116.3 to 6117 feet during this reporting period however there was a slight variation showing a high of 6118 feet. The Gonzalez transducer showed a rise in pressure and associated water levels from approximately 6113.0 feet to approximately 6115.7 feet.

Petroglyph Production Wells

Fifteen Petroglyph production wells are currently monitored for fluid level and casing pressure: Lively 02-02, Lively 02-12, Lively 03-01, Lively 03-10, Lively 03-12, Lively 10-04, Rohr 04-10, Rohr 04-14, Rohr 08-01, Rohr 09-04, Rohr 09-05, Rohr 09-10, State 36-02, State 36-05, State 36-11. A Petroglyph monitoring well installed in the Vermejo coals is also included (Pearson 19-16) was added to this list in the last monthly report however the gage for this well broke and no data is reported during this reporting period. The Lively 02-02, Lively 02-12, Lively 03-01, Lively 03-10, Lively 03-12, Lively 10-04, Rohr 04-10, Rohr 09-10, State 36-02, State 36-05, and State 36-11 are measured using an echometer. The echometer provides a general indication of water level trends. Two monitoring wells are also monitored continuously for water levels (Lively 03-03, and Lively 10-12). The monitoring occurs in the formation into which the wells are completed, the Vermejo/Trinidad Formation. Changes in fluid levels in Petroglyph's production wells are shown graphically in Attachment 3.

Since Petroglyph is no longer pumping these wells to draw down water levels, pressure is equalizing within the Vermejo coals. Consequently, water levels have risen in all wells as would be expected, although the rate of rise is leveling off in most wells. Four of the wells show no water level elevation change throughout the period: Lively 03-01, Lively 02-12, Lively 10-04 and Rohr 04-10. Lively 02-12, Rohr 04-14 and State 36-02 started and ended the period at the same elevation but experienced one or more fluctuations through the period. One well, State 36-05 showed a two foot decrease during the period. The remaining seven wells showed an increase in water level elevation. Of those seven wells, three wells (Rohr 08-01, Rohr 09-04 and Rohr 09-05) showed a small increase of between 2 and 4 feet. The remaining wells, State 36-11, Rohr 9-10, Lively 02-02 and Lively 03-01, showed greater increases in water levels during the period of 13, 15, 15 and 31 feet, respectively.

Comparison of Production Well and Private Well Data

Attachment 4 compares the water elevations for certain Petroglyph production wells and the private wells which are measured and discussed previously. As shown in Attachment 4 the majority of the private wells have water levels significantly higher in elevation than the production wells. Production well water levels showed a large rise after pumping ceased (250-300 feet); however domestic well water levels have remained relatively constant to decreasing during the same period indicating a lack of connection between the production wells in the Vermejo Formation and domestic wells in the Poison Canyon Formation. Attachment 4 also includes a table which shows the completion interval, location and well status.

Gas Flow Monitoring In Domestic Wells

Gas flow monitors have been installed by Petroglyph at the Angely, Bounds, Bruington, Coleman, and Smith wells. All of these wells except for Bruington and Bounds lie within one mile of the remediation system. Continuous gas flow monitoring occurs at Coleman and Smith, while gas flow is spot monitored with a gage and orifice tester at Angely, Bounds, and Bruington. Gas pressure at the Bounds and Angely wells is currently monitored by COGCC or their consultant; however the data, when available, is presented in this report.

Attachment 5 includes graphs representing gas flow measurements from Bruington, Coleman, Angely, Bounds and Smith. The Bruington and Smith wells are not showing any gas. The water level recovery of the Bruington well precludes any gas flow so these results continue to show 0 gas flow. Gas flow may resume when the well stabilizes. Gas concentrations at the wellhead are still monitored monthly and reported. The Coleman well only shows gas when the well is initially pumped. Gas flow rates reported at the Coleman well during this reporting period are consistent with historical rates and were between 44.8 and 53 MCFD for 20 minutes. The Angely and Bounds wells were sampled during the reporting period by a consultant to COGCC and were both at a zero gas flow rate.

A drop in gas flow in the domestic wells appears to have occurred in correlation with the original implementation of the remediation system wells and venting of gas through these wells in late 2008 and early 2009 with continued decreases in gas flows from the remediation system recovery wells. This would indicate that the remediation system has been correctly located to remediate the area of largest gas concentration in the domestic wells.

Bi-Weekly and Monthly Water Well Monitoring

Petroglyph has routinely monitored for methane gas levels near 87 wellheads in the vicinity of the site. Measurements are taken near the wellhead, at the well vent and in some cases are also taken at the cistern or a second wellhead.

Table 4 shows all of the wellheads that are currently being sampled, the sampling start date, the date of the last sample, the number of samples since the last reporting period and a description of the sampling results and any changes from the previous reporting period. A column that discusses the historical readings for each site is included on the table.

Of the 87 wellheads, 65 were not sampled during this reporting period. Sampling may vary during any one reporting period due to a variety of reasons. The majority of these 65 wells will be sampled in the last half of September and therefore were outside of the limit of this reporting period. The results will be reported in the next monthly report. During this reporting period 3 wellheads were sampled once, 1 wellhead was sampled four times, 3 wellheads were sampled ten times, 14 wellheads were sampled 11 times, and one wellhead sampled 12 times.

As shown on Table 4, the wellheads sampled during this reporting period were those within one mile of the remediation system. Most of these wells were sampled bi-weekly in accordance with the Phase 2 Sampling Plan. Of the 25 wells listed in Table 1, 1 well does not lie within the 1 mile boundary (the BLM well) and is therefore not included in the bi-weekly sampling. Two wells, Conley and Colorado Switzer, were not accessible even though repeated attempts were made to access the well. Petroglyph has attempted to contact Mr. Conley by mail and phone and has not received a response. The Angely and Bounds wells are monitored by a consultant to COGCC and results for one sample event were reported to Petroglyph.

Monitoring results for the 22 wellheads sampled during this period showed that overall gas levels at 14 wellheads had no change from the previous monitoring period measurements and no detectable methane. Changes in % LEL, % by volume CH4, and % volume O_2 were evaluated to determine if the area around the wellheads was showing an indication of increasing or decreasing methane gas content as a result of Phase 2 operations. Of the remaining 8 wellheads, 4 wellheads showed no discernable change with detectable methane (Golden Cycle, Hopke, Houghtling and Bounds); 2 wellheads showed one reading of detectable methane with the remainder of the readings at 0 (Burge and Lively 10-02; and 2 wellheads showed decreases in detectable methane which could be related to the Phase 2 operations. Of these wells the Barrett wellhead has shown consistently low to non detectable methane since mid August which is not typical for this well based on past readings. The Bergman well has shown consistent methane levels below >100 %LEL and % volume CH4 below 5.00 since the August 26th reading. Such consistent lower levels have not been the norm for past sampling at this wellhead but additional data is needed to firmly establish a downward trend. There were no overall increases in methane and no changes to wells which have had no detectable methane in the past.

Petroglyph compared those wells showing any detectable methane readings or changes in methane monitored during the reporting period with wells known to have been drilled into the coals within the Raton or Vermejo Formations and lying within 1 to 1.25 miles of the outcrop. Of the 8 wellheads reading detectable methane (Barrett, Bergman, Bounds, Burge, Golden Cycle Land, Hopke, Houghtling and Lively 10-02), 6 are known to have been drilled into the Poisons Canyon based on well depths in well logs available from the State Engineer.

The breakdown by subdivision or area as on Table 4 is as follows:

Within 1 Mile of Remediation System

- Gas near 25 wellheads routinely monitored
- 3 wellheads were not sampled during this reporting period
- 14 wellheads showed no change with no detectable methane gas
- 4 wellheads showed no discernable change with detectable methane
- 2 wellheads showed one detectable methane reading with the remainder being non detectable

- 2 wellheads showed a decrease in methane levels
- No wellheads showed increased methane levels

River Ridge Ranch Subdivision and Vicinity Outside of One Mile
No samples were taken during this reporting period.

City Ranch and Other Properties
No samples were taken during this reporting period.

Silver Spurs Ranch
No samples were taken during this reporting period.

Black Hawk Ranch
No samples were taken during this reporting period.

Table 5 shows the current monitoring schedule including which wells are monitored bi-weekly and which wells are monitored monthly or at a different frequency.

Attachment 6 includes charts of gas monitoring of eighteen wells near the mitigation system. The wells being monitored have not indicated a direct response to the remediation pumping and injection. Of the wellhead charts included in Attachment 6 only those for Barrett, Bergman, Golden Cycle Land, Houghtling, Hopke, Burge and Lively 10-02 showed methane in recent readings. As discussed above the Barrett wellhead readings are likely showing the effects of the Phase 2 remediation system and the Bergman wellhead results may also be showing these effects. Other detectable methane readings do not appear to represent any new or unusual charges to the wells.

Hand Held Measurements
Petroglyph conducts periodic ground surveys using a hand held methane detector at locations where gas has previously been detected, at locations where a property owner requests such a survey or at locations where previous surveys such as the helicopter survey have detected gas seepage. These surveys are conducted based on need or urgency so can range from several times a week to a one time survey based on concerns from a property owner. No handheld surveys were collected during the reporting period.

4.0 Mitigation

Methane Alarms
No activity occurred during the reporting period related to maintaining methane alarms or responding to any methane alarms. There are currently a total of 15 homes with alarm systems provided by Petroglyph. No alarms have ever been triggered by the presence of methane.

Water Supply
Petroglyph is currently providing water to 16 homes. Table 6 provides a list of the homes currently receiving water. Water is delivered as needed and can vary from month to

month due to residential water use and whether or not the homes are occupied. No new homes were added to the list during this reporting period.

Public Outreach
Mr. Craig Saldin of Petroglyph attended a River Ridge Ranch Board of Managers meeting on September 18, 2010.

Health and Safety/Emergency Planning
No changes to Petroglyph's health, safety and emergency planning occurred during the reporting period.

5.0 Schedule

The following is the currently anticipated schedule for Phase II of the Methane Investigation Monitoring and Mitigation Program.

- Continued pumping and injection of the Phase II system with ongoing monitoring to evaluate the response in surrounding wells.
- Implementation of the Phase II Sampling Plan with special samples taken in accordance with the Plan
- Routine bi-weekly and monthly sampling will continue with new sampling sites added as needed.
- Hand held seep monitoring will continue as needed.

Table 1: Recovery and Injection Rates associated with Phase 1 and 2 MIMMP (water flows as of 9/15/2010; gas flows as of 9/15/2010)									
Well Number	**Total Depth (ft)**	**PBTD**	**Injection Tubing Depth**	**Start-up Date**	**Average Injection Rate (gpm)**	**Water Total (gal)**	**Water Totals (bbls)**		**Notes**
Injection 01 Pascual	600	526	458	12/9/08	1.7	1,093,680	26,040		Average injection rate increased from 1.4 to 1.7 gpm.
Injection 02 Gonzales	600	575	362	12/10/08	2.0	1,086,834	25,877		Average injection rate increased from 1.5 to 2.0 gpm.
Injection 03 Benevides	725	629	454	12/10/08	1.8	1,089,900	25,950		Average injection rate increased from 1.5 to 1.8
Injection 04 Rohr	675	667	455	12/9/08	12.7	5,555,256	132,268		Average injection rate increased from 7.5 to 12.7
Injection 05 Rohr	750	735	458	12/10/08	21.1	7,058,100	168,050		Average injection rate increased from 8.3 to 21.1
Injection 06 Masters	725	695	438	12/10/08	6.2	4,886,784	116,352		Average injection rate decreased from 6.4 to 6.2
Injection 07 Walden	750	713	457	12/10/08	1.9	976,458	23,249		.Average injection rate increased from 1.6 to 1.9
Injection 08 Haeffner	650	713	365	12/10/08	see note	4,788	114		Well does not accept water very well. Inject approx. 150 gallons once every two weeks.
			Pump Depth		**Average Pump Rate (gpm)**			**Gas Totals (mcf)**	
Recovery 1 Kittleson	715	705	686	12/8/2008	18.90	16,352,154	389,337	10,545	
Recovery 3 PEI	625	591	575	12/8/2008	1 (see note)	858,438	20,439	796	
Recovery 4 Barrett	500	484	463	2/10/2009	(see note)	3,528	84	371	Intermittent pumping at 4 gpm. Rate over 24 hrs is approx 1 gpm
Recovery 5 Masters	847	847	822	12/24/2009	6.2	2,425,080	57,740	1,435	Started pump 2/10/09 to develop well. Pumps about 100 gallons in 15 minutes, per day. Water has not been injected. Last pump date 4/8/09
Rohr 04-10	2243	2219	2090	8/6/2010 (see note)	29	1,427,286	33,983		Vermejo water supply for Phase II MIMMP. Phase II pumping and injection started 8/6/2010.

Table 2: Sampling of Dissolved Gases in Water Wells (results received from August 2010 sampling)					
	Well	**Sample Date**	**Analyte**	**Results (In ug/l)**	**Comments**
Mitigation wells	Injection 03 Benavides	7/17/08	Ethane	4.9	Grabbed during pump testing
	Injection 03 Benavides	7/17/08	Methane	280	Grabbed during pump testing
	Injection 04 Rohr	7/22/08	Ethane	2.3	Grabbed during pump testing
	Injection 04 Rohr	7/22/08	Methane	4,500	Grabbed during pump testing
	Injection 05 Rohr	7/28/08	Ethane	3.0	Grabbed during pump testing
	Injection 05 Rohr	7/28/08	Methane	3,100	Grabbed during pump testing
	Injection 05 Rohr	3/9/09	Ethane	11	Injection Water
	Injection 05 Rohr	3/9/09	Methane	5,200	Injection Water
	Injection 05 Rohr	7/30/09	Ethane	4.4	Injection Water
	Injection 05 Rohr	7/30/09	Ethene	ND	Injection Water
	Injection 05 Rohr	7/30/09	Methane	2400	Injection Water
	Injection 05 Rohr	9/01/09	Ethane	4.7	Injection Water
	Injection 05 Rohr	9/01/09	Ethene	ND	Injection Water
	Injection 05 Rohr	9/01/09	Methane	2700	Injection Water
	Injection 05 Rohr	10/2/09	Methane	7800	Injection Water
	Injection 05 Rohr	11/5/09	Ethane	6.7	Injection Water
	Injection 05 Rohr	11/5/09	Ethene	ND	Injection Water
	Injection 05 Rohr	11/5/09	Methane33	2400	Injection Water
	Injection 05 Rohr	12/1/09	Ethane	7.1	Injection Water
	Injection 05 Rohr	12/1/09	Ethene	ND	Injection Water
	Injection 05 Rohr	12/1/09	Methane	2400	Injection Water
	Injection 05 Rohr	2/1/10	Ethane	7	Injection Water
	Injection 05 Rohr	2/1/10	Ethene	ND	Injection Water
	Injection 05 Rohr	2/1/10	Methane	3,000	Injection Water
	Injection 05 Rohr	3/2/10	Ethane	8.2	Injection Water
	Injection 05 Rohr	3/2/10	Ethene	ND	Injection Water
	Injection 05 Rohr	3/2/10	Methane	3,700	Injection Water
	Injection 05 Rohr	4/5/10	Ethane	11	Injection Water
	Injection 05 Rohr	4/5/10	Ethene	ND	Injection Water
	Injection 05 Rohr	4/5/10	Methane	3,300	Injection Water
	Injection 05 Rohr	5/3/10	Ethane	12	Injection Water
	Injection 05 Rohr	5/3/10	Ethene	ND	Injection Water
	Injection 05 Rohr	5/3/10	Methane	3,100	Injection Water
	Injection 05 Rohr	6/1/10	Ethane	2.6	Injection Water
	Injection 05 Rohr	6/1/10	Ethene	ND	Injection Water
	Injection 05 Rohr	6/1/10	Methane	1,300	Injection Water
	Injection 05 Rohr	7/6/10	Ethane	1.3	Injection Water
	Injection 05 Rohr	7/6/10	Ethene	ND	Injection Water
	Injection 05 Rohr	7/6/10	Methane	900	Injection Water
	Injection 05 Rohr	8/9/10	Ethane	1.4	RO treated Injection Water
	Injection 05 Rohr	8/9/10	Ethene	ND	RO treated Injection Water
	Injection 05 Rohr	8/9/10	Methane	490	RO treated Injection Water
	Injection 05 Rohr	8/16/10	Ethane	1.1	RO treated Injection Water
	Injection 05 Rohr	8/16/10	Ethene	ND	RO treated Injection Water

Table 2: Sampling of Dissolved Gases in Water Wells (results received from August 2010 sampling)					
	Well	Sample Date	Analyte	Results (In ug/l)	Comments
	Injection 05 Rohr	8/16/10	Methane	490	RO treated Injection Water
	Injection 05 Rohr	8/24/10	Ethane	0.82	RO treated Injection Water
	Injection 05 Rohr	8/24/10	Ethene	ND	RO treated Injection Water
	Injection 05 Rohr	8/24/10	Methane	380	RO treated Injection Water
	Injection 05 Rohr	8/30/10	Ethane	ND	RO treated Injection Water
	Injection 05 Rohr	8/30/10	Ethene	ND	RO treated Injection Water
	Injection 05 Rohr	8/30/10	Methane	150	RO treated Injection Water
	Injection 06 Masters	7/15/08	Ethane	3.9	Grabbed during pump testing
	Injection 06 Masters	7/15/08	Methane	6,300	Grabbed during pump testing
	Injection 07 Walden	7/29/08	Ethane	12	Grabbed during pump testing
	Injection 07 Walden	7/29/08	Methane	12,000	Grabbed during pump testing
	Injection 02 Gonzales	8/20/08	Ethane	2.7	Grabbed during pump testing
	Injection 02 Gonzales	8/20/08	Methane	4.2	Grabbed during pump testing
	Recovery 1 Kittleson	7/8/08	Ethane	3.0	Grabbed during pump testing
	Recovery 1 Kittleson	7/8/08	Methane	4,800	Grabbed during pump testing
	Recovery 1 Kittleson	8/4/08	Ethane	6.8	Grabbed during pump testing
	Recovery 1 Kittleson	8/4/08	Methane	6,800	Grabbed during pump testing
	Recovery 1 Kittleson	1/15/09	Ethane	2.5	IP 12/8/08
	Recovery 1 Kittleson	1/15/09	Methane	2,000	IP 12/8/08
	Recovery 1 Kittleson	7/21/09	Ethane	ND	
	Recovery 1 Kittleson	7/21/09	Ethene	ND	
	Recovery 1 Kittleson	7/21/09	Methane	2700	
	Recovery 1 Kittleson	7/30/09	Ethane	3.7	
	Recovery 1 Kittleson	7/30/09	Ethene	ND	
	Recovery 1 Kittleson	7/30/09	Methane	4100	
	Recovery 1 Kittleson	9/01/09	Ethane	7.3	
	Recovery 1 Kittleson	9/01/09	Ethene	ND	
	Recovery 1 Kittleson	9/01/09	Methane	8600	
	Recovery 1 Kittleson	10/2/09	Methane	9500	
	Recovery 1 Kittleson	11/5/09	Ethane	7.3	
	Recovery 1 Kittleson	11/5/09	Ethene	ND	
	Recovery 1 Kittleson	11/5/09	Methane	7900	
	Recovery 1 Kittleson	12/1/09	Ethane	7.5	
	Recovery 1 Kittleson	12/1/09	Ethene	ND	
	Recovery 1 Kittleson	12/1/09	Methane	8100	
	Recovery 1 Kittleson	2/1/10	Ethane	10	
	Recovery 1 Kittleson	2/1/10	Ethene	ND	
	Recovery 1 Kittleson	2/1/10	Methane	9900	
	Recovery 1 Kittleson	3/2/10	Ethane	7.4	
	Recovery 1 Kittleson	3/2/10	Ethene	ND	
	Recovery 1 Kittleson	3/2/10	Methane	7,500	
	Recovery 1 Kittleson	4/5/10	Ethane	11	
	Recovery 1 Kittleson	4/5/10	Ethene	ND	
	Recovery 1 Kittleson	4/5/10	Methane	6,000	

Table 2: Sampling of Dissolved Gases in Water Wells (results received from August 2010 sampling)					
	Well	Sample Date	Analyte	Results (In ug/l)	Comments
	Recovery 1 Kittleson	5/3/10	Ethane	11	
	Recovery 1 Kittleson	5/3/10	Ethene	ND	
	Recovery 1 Kittleson	5/3/10	Methane	5,100	
	Recovery 1 Kittleson	6/1/10	Ethane	15	
	Recovery 1 Kittleson	6/1/10	Ethene	ND	
	Recovery 1 Kittleson	6/1/10	Methane	7,000	
	Recovery 1 Kittleson	7/6/10	Ethane	8.9	
	Recovery 1 Kittleson	7/6/10	Ethene	ND	
	Recovery 1 Kittleson	7/6/10	Methane	8400	
	Recovery 1 Kittleson	8/9/10	Ethane	35	Phase II water to RO
	Recovery 1 Kittleson	8/9/10	Ethene	ND	Phase II water to RO
	Recovery 1 Kittleson	8/9/10	Methane	6200	Phase II water to RO
	Recovery 1 Kittleson	8/16/10	Ethane	33	Phase II water to RO
	Recovery 1 Kittleson	8/16/10	Ethene	ND	Phase II water to RO
	Recovery 1 Kittleson	8/16/10	Methane	8000	Phase II water to RO
	Recovery 1 Kittleson	8/24/10	Ethane	16	Phase II water to RO
	Recovery 1 Kittleson	8/24/10	Ethene	ND	Phase II water to RO
	Recovery 1 Kittleson	8/24/10	Methane	4900	Phase II water to RO
	Recovery 1 Kittleson	8/30/10	Ethane	7.6	Phase II water to RO
	Recovery 1 Kittleson	8/30/10	Ethene	ND	Phase II water to RO
	Recovery 1 Kittleson	8/30/10	Methane	2800	Phase II water to RO
	Recovery 2 Reiss	4/4/08	Ethane	ND	Water while drilling
	Recovery 2 Reiss	4/4/08	Methane	ND	Water while drilling
	Recovery 3 PEI	8/25/08	Ethane	13	Grabbed during pump testing
	Recovery 3 PEI	8/25/08	Methane	9,600	Grabbed during pump testing
	Recovery 3 PEI	1/16/09	Ethane	15	IP 12/8/08
	Recovery 3 PEI	1/16/09	Methane	13,000	IP 12/8/08
	Recovery 3 PEI	7/21/09	Ethane	15	
	Recovery 3 PEI	7/21/09	Ethene	2.4	
	Recovery 3 PEI	7/21/09	Methane	13000	
	Recovery 3 PEI	7/30/09	Ethane	15	
	Recovery 3 PEI	7/30/09	Ethene	ND	
	Recovery 3 PEI	7/30/09	Methane	17000	
	Recovery 3 PEI	9/01/09	Ethane	22	
	Recovery 3 PEI	9/01/09	Ethene	ND	
	Recovery 3 PEI	9/01/09	Methane	26000	
	Recovery 3 PEI	10/2/09	Methane	29000	
	Recovery 3 PEI	11/5/09	Ethane	21	
	Recovery 3 PEI	11/5/09	Ethene	ND	
	Recovery 3 PEI	11/5/09	Methane	24000	
	Recovery 3 PEI	11/12/09	Ethane	22	
	Recovery 3 PEI	11/12/09	Ethene	ND	
	Recovery 3 PEI	11/12/09	Methane	24000	
	Recovery 3 PEI	12/1/09	Ethane	20	

Table 2: Sampling of Dissolved Gases in Water Wells (results received from August 2010 sampling)					
	Well	Sample Date	Analyte	Results (In ug/l)	Comments
	Recovery 3 PEI	12/1/09	Ethene	ND	
	Recovery 3 PEI	12/1/09	Methane	25000	
	Recovery 3 PEI	2/1/10	Ethane	26	
	Recovery 3 PEI	2/1/10	Ethene	ND	
	Recovery 3 PEI	2/1/10	Methane	29000	
	Recovery 3 PEI	3/2/10	Ethane	ND	
	Recovery 3 PEI	3/2/10	Ethene	ND	
	Recovery 3 PEI	3/2/10	Methane	25,000	
	Recovery 3 PEI	4/5/10	Ethane	26	
	Recovery 3 PEI	4/5/10	Ethene	ND	
	Recovery 3 PEI	4/5/10	Methane	16,000	
	Recovery 3 PEI	5/3/10	Ethane	32	
	Recovery 3 PEI	5/3/10	Ethene	ND	
	Recovery 3 PEI	5/3/10	Methane	18,000	
	Recovery 3 PEI	6/1/10	Ethane	37	
	Recovery 3 PEI	6/1/10	Ethene	ND	
	Recovery 3 PEI	6/1/10	Methane	25,000	
	Recovery 3 PEI	7/6/10	Ethane	18	
	Recovery 3 PEI	7/6/10	Ethene	ND	
	Recovery 3 PEI	7/6/10	Methane	18000	
	Recovery 3 PEI	8/9/10	Ethane	110	Phase II water to RO
	Recovery 3 PEI	8/9/10	Ethene	ND	Phase II water to RO
	Recovery 3 PEI	8/9/10	Methane	19000	Phase II water to RO
	Recovery 3 PEI	8/16/10	Ethane	75	Phase II water to RO
	Recovery 3 PEI	8/16/10	Ethene	ND	Phase II water to RO
	Recovery 3 PEI	8/16/10	Methane	18000	Phase II water to RO
	Recovery 3 PEI	8/24/10	Ethane	32	Phase II water to RO
	Recovery 3 PEI	8/24/10	Ethene	ND	Phase II water to RO
	Recovery 3 PEI	8/24/10	Methane	10000	Phase II water to RO
	Recovery 3 PEI	8/30/10	Ethane	43	Phase II water to RO
	Recovery 3 PEI	8/30/10	Ethene	ND	Phase II water to RO
	Recovery 3 PEI	8/30/10	Methane	14000	Phase II water to RO
	Recovery 4 Barrett	7/10/08	Ethane	5	Grabbed during pump testing
	Recovery 4 Barrett	7/10/08	Methane	3,500	Grabbed during pump testing
	Recovery 4 Barrett	3/12/09	Ethane	12	IP 2/10/09
	Recovery 4 Barrett	3/12/09	Ethene	48	IP 2/10/09
	Recovery 4 Barrett	3/12/09	Methane	8,600	IP 2/10/09
	Recovery 5 Masters	5/4/10	Ethane	19	
	Recovery 5 Masters	5/4/10	Ethene	ND	
	Recovery 5 Masters	5/4/10	Methane	13,000	
	Recovery 5 Masters	6/1/10	Ethane	22	
	Recovery 5 Masters	6/1/10	Ethene	ND	
	Recovery 5 Masters	6/1/10	Methane	19,000	
	Recovery 5 Masters	7/6/10	Ethane	ND	

Table 2: Sampling of Dissolved Gases in Water Wells (results received from August 2010 sampling)					
	Well	**Sample Date**	**Analyte**	**Results (In ug/l)**	**Comments**
	Recovery 5 Masters	7/6/10	Ethene	ND	
	Recovery 5 Masters	7/6/10	Methane	17,000	
	Recovery 5 Masters	8/9/10	Ethane	44	Grabbed during Phase II
	Recovery 5 Masters	8/9/10	Ethene	ND	Grabbed during Phase II
	Recovery 5 Masters	8/9/10	Methane	9700	Grabbed during Phase II
	Recovery 5 Masters	8/16/10	Ethane	25	Grabbed during Phase II
	Recovery 5 Masters	8/16/10	Ethene	ND	Grabbed during Phase II
	Recovery 5 Masters	8/16/10	Methane	11000	Grabbed during Phase II
	Recovery 5 Masters	8/24/10	Ethane	27	Grabbed during Phase II
	Recovery 5 Masters	8/24/10	Ethene	ND	Grabbed during Phase II
	Recovery 5 Masters	8/24/10	Methane	9900	Grabbed during Phase II
	Recovery 5 Masters	8/30/10	Ethane	29	Grabbed during Phase II
	Recovery 5 Masters	8/30/10	Ethene	ND	Grabbed during Phase II
	Recovery 5 Masters	8/30/10	Methane	13000	Grabbed during Phase II
POCI 55	POCI 55	8/19/09	Methane	7800	Pre Phase II
	POCI 55	8/19/09	Ethene	ND	Pre Phase
	POCI 55	8/19/09	Ethane	11	Pre Phase
Wells within 1 mile of Mitigation System	Angely, J	3/26/08	Ethane	35	by COGCC
	Angely, J	3/26/08	Methane	15,000	by COGCC
	Barrett, T	6/24/09	Methane	18,000	
	Barrett, T	6/24/09	Ethane	11	
	Barrett, T	6/24/09	Ethene	12	
	Bergman	6/29/09	Ethane	ND	Grabbed during pump testing
	Bergman	6/29/09	Ethene	ND	Grabbed during pump testing
	Bergman	6/29/09	Methane	2,300	Grabbed during pump testing
	Burge, K	8/5/08	Methane	3,900	
	Burge, K	12/18/08	Ethane	2.3	
	Burge, K	12/18/08	Methane	3,600	
	Burge, K	6/9/09	Ethane	3	
	Burge, K	6/9/09	Ethene	2.4	
	Burge, K	6/9/09	Methane	3,300	
	Coleman, V	3/1/08	Methane	4,600	filtered via house water filter
	Coleman, V	9/23/07	Methane	4,300	filtered via house water filter
	Coleman, V	9/23/07	Methane	5,000	raw- not filtered
	Coleman, V	3/1/08	Methane	5,100	raw- not filtered
	Coleman, V	12/4/08	Ethane	7	raw- not filtered
	Coleman, V	12/4/08	Methane	5,900	raw- not filtered
	Coleman, V	5/9/09	Ethene	2.4	raw- not filtered
	Coleman, V	5/9/09	Ethane	9	raw- not filtered
	Coleman, V	5/9/09	Methane	6,100	raw- not filtered
	Conley, J	3/24/08	Methane	ND	
	Conley, J	12/4/08	Ethane	ND	
	Conley, J	12/4/08	Methane	1.5	

Table 2: Sampling of Dissolved Gases in Water Wells (results received from August 2010 sampling)					
	Well	**Sample Date**	**Analyte**	**Results (In ug/l)**	**Comments**
	Conley, J	6/15/09	Ethane	1.6	
	Conley, J	6/15/09	Ethene	2.4	
	Conley, J	6/15/09	Methane	2.5	
	Dee	6/30/09	Ethane	ND	Grabbed during pump testing
	Dee	6/30/09	Ethene	ND	Grabbed during pump testing
	Dee	6/30/09	Methane	5.7	Grabbed during pump testing
	Derowitsch, D	3/1/08	Methane	4,000	
	Derowitsch, D.	1/15/09	Ethane	4.1	
	Derowitsch, D.	1/15/09	Methane	2,200	
	Derowitsch, D.	4/15/10	Ethane	10	
	Derowitsch, D.	4/15/10	Ethene	ND	
	Derowitsch, D.	4/15/10	Methane	3,700	
	English, B	3/14/08	Methane	ND	
	English, B	12/8/08	Ethane	ND	
	English, B	12/8/08	Methane	ND	
	English, B	7/8/09	Ethane	ND	
	English, B	7/8/09	Ethene	ND	
	English, B	7/8/09	Methane	ND	
	Hopke, B	2/25/08	Methane	5,900	
	Hopke, B	3/26/08	Ethane	11	by COGCC
	Hopke, B	3/26/08	Methane	3,000	by COGCC
	Hopke, B	12/31/08	Ethane	ND	
	Hopke, B	12/31/08	Methane	660	
	Hopke, B	6/22/09	Methane	4,200	
	Hopke, B	6/22/09	Ethane	7.2	
	Hopke, B	6/22/09	Ethene	2.4	
	Hoppe, C	10/23/08	Ethane	ND	
	Hoppe, C	10/23/08	Methane	19	
	Houghtling, J	2/25/08	Methane	9.2	
	Kerman, T	3/1/08	Methane	170	
	Kerman, T	12/4/08	Ethane	ND	
	Kerman, T	12/4/08	Methane	1.1	
	Kerman, T	7/8/09	Ethane	ND	
	Kerman, T	7/8/09	Ethene	ND	
	Kerman, T	7/8/09	Methane	ND	
	Kerman, T WW	11/30/09	Methane	ND	Grabbed from hydrant before cistern
	Kerman, T WW	11/30/09	Ethane	ND	
	Kerman, T WW	11/30/09	Methane	0.78	
	Kerman, T House	11/30/09	Ethane	ND	Grabbed from house after cistern
	Kerman, T House	11/30/09	Ethene	ND	
	Kerman, T House	11/30/09	Methane	ND	
	Masters, T	6/29/09	Ethane	10	
	Masters, T	6/29/09	Ethene	2.4	
	Masters, T	6/29/09	Methane	14,000	

Table 2: Sampling of Dissolved Gases in Water Wells (results received from August 2010 sampling)					
	Well	**Sample Date**	**Analyte**	**Results (In ug/l)**	**Comments**
	McPherson	3/29/08	Methane	54	
	McPherson, P	12/4/08	Ethane	ND	
	McPherson, P	12/4/08	Methane	950	
	McPherson, P	6/3/09	Ethane	16	
	McPherson, P	6/3/09	Ethene	24	
	McPherson, P	6/3/09	Methane	1,700	
	Rohr, W	7/6/09	Ethane	ND	Grabbed during pump testing
	Rohr, W	7/6/09	Ethene	ND	Grabbed during pump testing
	Rohr, W	7/6/09	Methane	800	Grabbed during pump testing
	Searle, S	3/14/08	Methane	7.5	
	Searle, S	12/8/08	Ethane	ND	
	Searle, S	12/8/08	Methane	5.8	
Wells on RRR ex near Mitigation System	Campbell, J	2/23/09	Ethane	0.6	
	Campbell, J	2/23/09	Methane	110	
	Goodwin, R	3/14/08	Methane	240	
	Goodwin, R	12/15/08	Ethane	ND	
	Goodwin, R	12/15/08	Methane	ND	
	Goodwin, R	6/29/09	Ethane	1.6	
	Goodwin, R	6/29/09	Ethene	2.4	
	Goodwin, R	6/29/09	Methane	5.2	
	Goodwin, R WW	11/30/08	Ethane	ND	Grabbed from hydrant before cistern
	Goodwin, R WW	11/30/08	Ethene	ND	
	Goodwin, R WW	11/30/08	Methane	ND	
	Goodwin, R Cistern	11/30/09	Ethane	ND	Grabbed from cistern
	Goodwin, R Cistern	11/30/09	Ethene	ND	
	Goodwin, R Cistern	11/30/09	Methane	ND	
	Rhoads, K	2/23/09	Methane	21	
	Roloff, B	8/5/08	Methane	3,800	
	Speh, D	10/8/08	Methane	7,200	
	Wolahan	3/10/08	Methane	75	
	Wolahan, E	12/4/08	Ethane	ND	
	Wolahan, E	12/4/08	Methane	210	
	Wolahan, E	6/4/09	Methane	24	
	Wolahan, E	6/4/09	Ethene	2.4	
	Wolahan, E	6/4/09	Ethane	1.6	
	Meyer, J	4/29/09	Ethane	ND	
	Meyer, J	4/29/09	Methane	19,000	
Wells on Silver Spurs Ranch unless noted	Goza, C	1/15/09	Ethane	1.4	Blackhawk Ranch
	Goza, C	1/15/09	Methane	580	Blackhawk Ranch
	Gumpert, K	8/5/08	Methane	1,700	
	Sample, Mitch	3/10/08	Methane	19,000	
	Sample, Mitch WW	11/30/09	Ethane	ND	Grabbed before cistern
	Sample, Mitch WW	11/30/09	Ethene	ND	
	Sample, Mitch WW	11/30/09	Methane	48,000	

Table 2: Sampling of Dissolved Gases in Water Wells (results received from August 2010 sampling)					
	Well	Sample Date	Analyte	Results (In ug/l)	Comments
	Sample, Mitch Cistern	11/30/09	Ethane	23	Grabbed from cistern
	Sample, Mitch Cistern	11/30/09	Ethene	ND	
	Sample, Mitch Cistern	11/30/09	Methane	15,000	
	Stephens, K	9/30/08	Methane	ND	
	Evenden, V	9/30/08	Methane	20,000	
	Evenden, V	8/26/09	Ethane	2.5	
	Evenden, V	8/26/09	Ethene	2.4	
	Evenden, V	8/26/09	Methane	7,700	
	Evenden, V	10/7/09	Ethane	ND	
	Evenden, V	10/7/09	Ethene	ND	
	Evenden, V	10/7/09	Methane	22,000	
	Fitzner, P	12/1/08	Methane	4,600	
	Fitzner, P WW	11/30/09	Ethane	ND	Grabbed from hydrant before cistern
	Fitzner, P WW	11/30/09	Ethene	ND	
	Fitzner, P WW	11/30/09	Methane	2,100	
	Fitzner, P Cistern	11/30/09	Ethane	ND	Grabbed from cistern
	Fitzner, P Cistern	11/30/09	Ethene	ND	
	Fitzner, P Cistern	11/30/09	Methane	2,000	
	Geisklbrecht, G	9/30/08	Methane	ND	
	Geisklbrecht	1/27/10	Ethane	ND	Grabbed at water hydrant
	Geisklbrecht	1/27/10	Ethene	ND	
	Geisklbrecht	1/27/10	Methane	ND	
	Haynes, E	6/4/09	Methane	0.8	
	Haynes, E	6/4/09	Ethane	1.6	
	Haynes, E	6/4/09	Ethene	2.4	
	Morine, J	1/15/09	Methane	14	
	Palmer (GIS)	10/1/08	Methane	ND	
	Palmer (GIS)	1/27/10	Ethane	ND	Grabbed at water hydrant
	Palmer (GIS)	1/27/10	Ethene	ND	
	Palmer (GIS)	1/27/10	Methane	ND	
	Stetler	3/20/09	Methane	20,000	
	Stetler	3/20/09	Ethane	50	
	Stetler, J WW	11/30/09	Ethane	100	Grabbed before cistern
	Stetler, J WW	11/30/09	Ethene	ND	
	Stetler, J WW	11/30/09	Methane	38,000	
	Stetler, J Cistern	11/30/09	Ethane	ND	Grabbed from cistern
	Stetler, J Cistern	11/30/09	Ethene	ND	
	Stetler, J Cistern	11/30/09	Methane	22,000	
	Modlish	3/20/09	Methane	0.33	
	Modlish	3/20/09	Ethane	ND	
	Billstrand	7/31/09	Ethane	ND	
	Billstrand	7/31/09	Ethene	ND	
	Billstrand	7/31/09	Methane	0.42	
	Bruington	7/6/09	Ethane	12	Grabbed during pump testing

Table 2: Sampling of Dissolved Gases in Water Wells (results received from August 2010 sampling)					
	Well	**Sample Date**	**Analyte**	**Results (In ug/l)**	**Comments**
	Bruington	7/6/09	Ethene	2.4	Grabbed during pump testing
	Bruington	7/6/09	Methane	7,900	Grabbed during pump testing
	Eddleman, P	8/28/09	Ethane	ND	
	Eddleman, P	8/28/09	Ethene	ND	
	Eddleman, P	8/28/09	Methane	29,000	
	Eddleman, P WW	11/30/09	Ethane	ND	Grabbed before cistern
	Eddleman, P WW	11/30/09	Ethene	ND	
	Eddleman, P WW	11/30/09	Methane	45,000	
	Eddleman, P WWIIA	11/30/09	Ethane	ND	Filled 100 gallon stock tank and agitated with small submersible pump for 2.5 hrs then grabbed sample
	Eddleman, P WWIIA	11/30/09	Ethene	ND	
	Eddleman, PWWIIA	11/30/09	Methane	2,100	
	Wyland, R	9/8/09	Ethane	ND	
	Wyland, R	9/8/09	Ethene	ND	
	Wyland, R	9/8/09	Methane	3	
	Schafer, R	10/2/09	Methane	21	City Ranch
Other	Rohr 04-14	11/11/07	Methane	10,070	CBM water
	Rohr 09-04	11/11/07	Methane	6,350	CBM water
	Rohr 09-04	9/17/09	Ethane	3.6	CBM water pre-phase II
	Rohr 09-04	9/17/09	Ethene	ND	CBM water pre-phase II
	Rohr 09-04	9/17/09	Methane	7300	CBM water pre-phase II
	Rohr 09-10	9/17/09	Ethane	2.1	CBM water pre-phase II
	Rohr 09-10	9/17/09	Ethene	ND	CBM water pre-phase II
	Rohr 09-10	9/17/09	Methane	5900	CBM water pre-phase II
	Rohr 04-10	9/17/09	Ethane	2.3	CBM water pre-phase II
	Rohr 04-10	9/17/09	Ethene	ND	CBM water pre-phase II
	Rohr 04-10	9/17/09	Methane	6400	CBM water pre-phase II
	Rohr 04-10	8/9/10	Ethane	63	Phase II ,CBM water to RO
	Rohr 04-10	8/9/10	Ethene	ND	Phase II ,CBM water to RO
	Rohr 04-10	8/9/10	Methane	15000	Phase II ,CBM water to RO
	Rohr 04-10	8/16/10	Ethane	43	Phase II ,CBM water to RO
	Rohr 04-10	8/16/10	Ethene	ND	Phase II ,CBM water to RO
	Rohr 04-10	8/16/10	Methane	10000	Phase II ,CBM water to RO
	Rohr 04-10	8/24/10	Ethane	24	Phase II ,CBM water to RO
	Rohr 04-10	8/24/10	Ethene	ND	Phase II ,CBM water to RO
	Rohr 04-10	8/24/10	Methane	9900	Phase II ,CBM water to RO
	Rohr 04-10	8/30/10	Ethane	46	Phase II ,CBM water to RO
	Rohr 04-10	8/30/10	Ethene	ND	Phase II ,CBM water to RO
	Rohr 04-10	8/30/10	Methane	20000	Phase II ,CBM water to RO
City Ranch	McEntee, RWW	7/8/10	Ethane	ND	
	McEntee, RWW	7/9/10	Ethene	ND	
	McEntee, RWW	7/10/10	Methane	1900	

ND = Not Detected
Shading indicates sampling added since last reporting period.

Table 3a: Injectate Water Quality (grabbed at Injection 05 Rohr)

Date	Fluoride	Boron	Dissolved Methane
8/9/2010	0.17 mg/L	100 ug/L	490 ug/L
8/16/2010	0.1 mg/L	93 ug/L	490 ug/L
8/24/2010	0.1 mg/L	82 ug/L	380 ug/L
8/30/2010	0.4 mg/L	83 ug/L	150 ug/L

Table 3b: Dissolved Gas in Recovery Water (in µg/l)

	8/9/2010	8/16/2010	8/24/2010	8/30/2010
Recovery 1 Dissolved Gas	6,200	8,000	4,900	2,800
Recovery 3 Dissolved Gas	19,000	18,000	10,000	14,000
Recovery 5 Dissolved Gas	9,700	9,900	13,000	11,000
Rohr 04-10 Dissolved Gas	15,000	10,000	9,900	20,000

Dissolved Methane in Produced Water to RO (wt. ave. Rec1, Rec3, Rohr 04-10)	**10,522 ug/L**

Table 4
Water Well Measurements for the August/September 2010 Monthly Report

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History (Last Updated with May 2010 Monthly Report)	If sampled, comparison of results from this period to last period
Wells Within Approximately One Mile of Pumping and Injection System or of Special Interest						
238689	Angely	7/5/07	9/13/10	9/13/10	Methane detected at levels >100 % LEL and above 10% CH4 by volume until approximately 4/9/08, then began dropping and reached approximately 0 by 5/28/08. Have remained at or near 0 except for jump in December 2008, March 2009 and November 2009 readings.	• % LEL remained unchanged at 0 • CH4% volume remained unchanged at 0.00 • O2% volume decreased from 20.9 to 16.5 • CO and H2S remain unchanged at 0 ppm
257994	Barrett	7/12/07	9/15/10	8/9/10, 8/12/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	Methane detected at levels >100 % LEL and above 10% CH4 by volume. Levels have dropped since March 2009 but remain above 0 except for an occasional 0 reading. Occasionally (October 6, 2009 and March 16, 2010) higher levels of methane are observed.	• % LEL decreased from >100 to 0 on 9/15/10 with measurements of 67, 16, and 5 noted during various samples • CH4% volume decreased from 5.00 to 0 on 9/15/10 with measurements of 3.35, 0.80, and 0.25 noted during various samples • O2% increased from 20.6 to 20.9 on 9/15/10 with measurements of 19.3, 19.5, and 20.8 noted during various samples • CO and H2S remained unchanged at 0 ppm with a light odor of H2S noted on 8/20/10
244403	Bergman	7/6/07	9/15/10	8/9/10, 8/12/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	The methane has been variable with higher and lower values until 11/28/07 and then mostly levels at >100 %LEL and greater than 10% CH4 by volume until September 2009 when levels began to show wider variances in %LEL and CH4 of between >100 and 13.00 and as low as 0 in February 2010.	• % LEL decreased from >100 to 89 on 9/15/10 with a low of 72 on 9/2/10 • CH4% volume decreased from 7.0 to 4.45 on 9/15/10 with a high of 17.0 on 8/9/10 and a low of 3.60 on 9/2/10 • O2% increased from 19.1 to 19.8 on 9/15/10 with a high of 20.8 on 9/8/10 and a low of 17 on 9/10/10 • CO and H2S remained unchanged at 0 ppm
181278	Bounds	7/12/07	9/13/10	9/13/10	Readings from this wellhead have been consistently at or above 100 %LEL with levels of CH4% by volume near 100. This wellhead has also shown fairly consistent low levels of H2S until 6/25/08 when H2S readings became more variable with less H2S present in general.	• % LEL remained unchanged at 100 • CH4% volume remained unchanged at 100 • O2% decreased from 1.3 to 0.9 • CO decreased from 20 to 0 • H2S remained unchanged at 0 ppm
169043	Burge	3/20/09	9/15/10	8/9/10, 8/12/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	Methane detected at levels >100 % LEL and above 10% CH4 by volume until approximately 1/17/08, then began dropping through 3/14/08 and have remained at or near 0 since that time except for a single high reading on 7/2/08 and detectable methane on 10/1 and 10/6/09.	• % LEL remained unchanged at 0 on 9/15/10 with a high of >100 noted on 8/12/10 • CH4% volume remained unchanged at 0 on 9/15/10 with a high of 19 noted on 8/12/10 • O2% remained unchanged at 20.9 on 9/15/10 with a low of 17 noted on 8/12/10 • CO and H2S remained unchanged at 0 ppm
267694	Coleman	7/5/07	9/15/10	8/9/10, 8/12/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	Methane detected at wellhead at levels >100 % LEL and above 5% CH4 by volume until approximately 8/15/07, then began dropping with no methane detected since 10/30/07. Well vent has shown more variable and generally higher readings than the wellhead.	At the wellhead no change from previous measurements with 0% LEL, no detectable methane; O2% volume at 20.9 and CO and H2S at 0 ppm. At the well vent: • % LEL decreased from 10 to 0 on 9/15/10 with a high of 23 noted on 8/9/10 • CH4% decreased from 0.50 to 0 on 9/15/10 with a high of 1.15 noted on 8/9/10 • O2% stayed the same at 20.9 on 9/15/10 with a low of 20.3 on 8/9/10 • CO and H2S remained unchanged at 0 ppm
235516	Colorado Switzer	7/12/07	8/2/10	None	No methane has ever been detected at this wellhead.	Property has been fenced off and readings were not obtainable. Sampling was attempted on 8/9/10, 8/12/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/10/10, and 9/15/10.
255929	Conley	7/11/07	2/19/10	None	No methane has ever been detected at this wellhead.	Sampling attempted 8/910, 8/11/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, and 9/15/10 but gate was locked.

Table 4
Water Well Measurements for the August/September 2010 Monthly Report

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History (Last Updated with May 2010 Monthly Report)	If sampled, comparison of results from this period to last period
260097	Dee	7/5/07	9/15/10	8/9/10, 8/11/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	No methane has ever been detected at this wellhead. A potentially erroneous reading of 5%LEL occurred on 7/30/09 with no detectable methane.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
252931	Derowitsch	7/6/07	9/15/10	8/9/10, 8/12/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	Methane detected at wellhead at levels approximately 100 % LEL and mostly above 5% CH4 by volume until approximately 9/4/07, then methane levels dropped to 0 and has remained at or near 0 since that time. Both the well vent and cistern have historically shown very low to 0 levels of methane. Late September to December 2009 readings at the well vent indicated levels of methane although the wellhead and cistern showed no detectable methane during that time period.	At the wellhead, and well vent, no change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm. At the cistern: • % LEL remained unchanged at 0 on 9/15/10 with highs of 6 on 8/9/10 and 29 on 8/12/10 • CH4% remained the same at 0 on 9/15/10 with highs of 0.30 on 8/9/10 and 1.45 on 8/12/10 • O2% remained unchanged at 20.9 on 9/15/10 with lows of 20 on 8/9/10 and 19.3 on 8/12/10 • CO remained unchanged at 0 • H2S decreased from 11.5 to 0 with highs of 14 on 8/91/10 and 77.5 on 8/12/10
235515	English	8/16/07	9/15/10	8/11/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	No methane has ever been detected at this wellhead.	No change from previous measurements at the wellhead and cistern with 0% LEL, no detectable methane, O2% at 20.9 and no CO or H2S.
16861-F	Golden Cycle Land	7/12/07	9/15/10	8/9/10, 8/11/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	Readings initially showed methane at 100% LEL and greater than 20% by volume CH4, but dropped to 0 by 9/24/07 and remained at 0 (with two readings above 0 on 11/16/07 and 4/23/08) until 10/20/08. Starting 10/20/08 methane was once again detected at higher values along with CO at high levels and showings of H2S.	• %LEL remained unchanged at >100 • CH4% volume decreased from 45.00 to 35.00 on 9/15/10 with a high of 80.00 noted on 8/27/10 • O2% remained unchanged at 0 on 9/15/10 with highs of 10.2 on 8/11/10 and 3 on 9/3/10 • CO increased from 163 to 176 on 9/15/10 with a high of 200 noted on 8/27/10 • H2S decreased from 15.5 to 9 on 9/15/10 with a high of 18 noted on 8/9/10 and a low of 0 noted on 8/16/10
253317	Gonzalez	7/12/07	9/15/10	8/9/10, 8/11/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	No methane has ever been detected at this wellhead.	No change from previous measurements at the wellhead with 0% LEL, no detectable methane, O2% at 20.9 and no CO or H2S.
256504	Hopke	7/5/07	9/15/10	8/9/10, 8/12/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	Readings consistently measure methane at >100% LEL and at values of CH4% by volume fairly consistently above 20 until late 2009 when levels dropped to between 10 and 20. The well has shown an overall slow decline in CH4 % by volume over time. H2S also has shown a decline over time such that most recent readings have been at or slightly above 0. No methane has ever been detected at the cistern.	At the wellhead: • % LEL remained unchanged at >100 • CH4% volume remained unchanged at 17 on 9/15/10 with a high of 20 on 8/9/10 and 8/20/10 • O2% volume decreased from 16.9 to 16.5 with a high of 18.3 on 9/2/10 and a low of 14.8 on 8/9/10, 8/26/10, and 9/8/10 • CO remained unchanged at 0 ppm with a high of 12 noted on 8/12/10 and 8/16/10 At the cistern: no changes from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.

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Water Well Measurements for the August/September 2010 Monthly Report

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History (Last Updated with May 2010 Monthly Report)	If sampled, comparison of results from this period to last period
236272	Houghtling	7/6/07	9/15/10	8/9/10, 8/12/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	Methane levels at this wellhead have been consistently >100% LEL with CH4% by volume fairly consistently above 20 with an occasional lower values (but not 0). No methane has ever been detected at the cistern.	At the wellhead: • % LEL remained unchanged at >100 • CH4% volume decreased from 100 to 96 on 9/15/10 with a low of 95 on 9/8/10 • O2% increased from 0.3 to 1 on 9/15/10 with a high of 1.2 noted on 8/12/10 and a low of 0 noted on all other sample dates • CO remained unchanged at 0 on 9/15/10 with a high of 17 on 8/12/10 • H2S decreased from 2 to 1 on 9/15/10 with a high of 2 on 8/12/10 and a low of 0 on all other sample dates At the cistern: no changes from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
35292	Kerman/Hanson	7/6/07	9/15/10	8/9/10, 8/11/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	Values at this wellhead have been at or near 0 with two readings of >100% LEL and greater than 5% by volume CH4 on 12/2/08 and 12/22/08 and detectable methane readings in July, August and December 2009. No methane has ever been detected at the cistern.	No change from at the wellhead or cistern with 0% LEL, no detectable methane, O2% at 20.9 and no CO2 or H2S.
	Lively 10-02	12/22/2008	9/15/10	8/12/10, 8/20/10, 9/3/10, 9/15/10	Readings from this well started with mostly 0 to low levels of methane but have been moving upward with late 2009 readings showing detectable levels more consistently with some readings as high as >100 % LEL. CH4% volume remains below 5%. Some non detectable readings still also occur with early 2010 showing lower overall readings and many non detect readings.	At the wellhead: • % LEL decreased from >100 to 0 on 8/20/10 and remained there through 9/15/10 • CH4% decreased from 5 to 0 on 8/20/10 and remained there through 9/15/10 • O2% increased from 15.5 to 20.9 with a low of 9.8 noted on 8/12/10 • CO decreased from 476 to 0 on 8/20/10 and remained there through 9/15/10 • H2S decreased from 30 to 0 with a high of 100 on 8/12/10
222539	Lively	7/6/07	9/15/10	8/11/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	No methane has ever been detected at this wellhead.	No change from last measurement with 0% LEL, no detectable methane, O2% at 20.9 and no CO2 or H2S.
16861-F	Masters #1	8/13/07	9/15/10	8/7/10, 8/9/10, 8/12/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
271136	May	7/12/07	9/10/10	8/9/10, 8/13/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10	No methane has ever been detected at this wellhead.	No change from last measurement with 0% LEL, no detectable methane, O2% at 20.9 and no CO2 or H2S.
84108-A	McPherson	7/6/07	9/15/10	8/9/10, 8/12/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10, 9/3/10, 9/8/10, 9/10/10, 9/15/10	No methane has ever been detected at this wellhead.	No change from last measurement with 0% LEL, no detectable methane, O2% at 20.9 and no CO2 or H2S.

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84106	Rohr	7/06/07	9/15/10	8/9/10, 8/12/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10 9/3/10, 9/8/10, 9/10/10, 9/15/10	No methane has ever been detected at this wellhead.	No change from last measurement with 0% LEL, no detectable methane, O2% at 20.9 and no CO2 or H2S.
123144	Searle	7/11/07	8/9/10	8/9/10	No methane has ever been detected at this wellhead.	No change from last measurement with 0% LEL, no detectable methane, O2% at 20.9 and no CO2 or H2S.
239657	Smith	7/5/07	9/15/10	8/9/10, 8/11/10, 8/16/10, 8/20/10, 8/26/10, 8/27/10, 9/2/10 ,9/3/10, 9/8/10, 9/10/10, 9/15/10	Detectable methane in early readings with % LEL at 100 or greater and % by volume of CH4 at up to 100. Began showing some variability in readings on 9/9/07 eventually decreasing until levels at 0 beginning 5/5/08. Three readings since that time on 5/21/08, 10/27/08 and 7/13/09 have shown >100% LEL and CH4 % by volume at or above 5. October 2009 reading showed low levels (18% LEL and 0.9% CH4 by volume).	At the well head no change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm. At the well vent: • % LEL remained unchanged at >100 • CH4% volume decreased to 22 on 9/15/10 with a high of 45 on 9/2/10 and a low of 10 on 8/27/10 • O2% volume remained unchanged at 14 on 9/15/10 with wide variations throughout the sampling process, including a high of 17.9 on 8/27/10 and a low of 9.9 on 8/9/10 • CO and H2S remained unchanged at 0 ppm At the cistern all values remained unchanged with 0 %LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
	BLM 15-12	6/1/09	8/7/10	None	Detectable methane with >100% LEL and CH4 % volume of greater than 70 and limited O2% volume.	Not measured during this reporting period.
Wells Within or in Close Proximity to River Ridge Ranch Subdivision						
249362	Andexler	9/9/07	8/7/10	None	Several readings (3/25/09, 7/30/09 and October 2009) have shown less the 0.25% CH4 methane, otherwise no detectable methane.	Not measured during this reporting period.
215706	Brice	7/12/07	8/2/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
248680	Campbell	8/14/07	8/7/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
20783	Goemmer Cattle	7/12/07	6/11/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
258815	Goodwin	7/12/07	8/2/10	None	Readings have shown methane levels at or near 0 with no readings above 0 from late January 2009 through October 2009. November 2009 through February showed 2010 showed low levels of methane.	Not measured during this reporting period.
249181	Hentschel	9/9/07	8/7/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
259122	Higgins	9/26/07	8/7/10	None	No methane has ever been detected at this wellhead	Not measured during this reporting period.
269435	Hoppe (formerly Goacher)	7/11/07	8/7/10	None	No methane has ever been detected at this wellhead	Not measured during this reporting period.
264581	Ireland	7/12/07	8/2/10	None	Typically no methane, but methane has been detected on 12/2/08, 12/22/08, and 1/6/09 with 100% or greater LEL and 5% by volume CH4.	Not measured during this reporting period.
	Lang	10/29/07	7/28/08	None	No methane has ever been detected at this wellhead.	Sampling attempted 8/2//10 but gate was locked.
93386	Lowry	7/12/07	6/11/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
250369	Martin	7/12/07	6/21/10	None	No methane has ever been detected at this wellhead.	Sampling attempted 8/2/10 but gate was locked.

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248862	Meyer	8/14/07	8/7/10	None	Methane levels generally at >100% LEL and CH4 % by volume of greater than 5. Readings were a bit variable with some lower methane levels until 5/22/08 and then became consistently >100% LEL and CH4% by volume greater than 5.	Not measured during this reporting period.
192203	Rankins	7/12/07	6/21/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
276994	Rhodes	9/9/08	8/7/10	None	Slight LEL (5%) reported 7/30/09, but no methane detected. No methane has been detected previously or since at this wellhead.	Not measured during this reporting period.
274468	Roloff	9/9/07	8/7/10	None	No methane had ever been detected at this wellhead except for low levels detected in the 8/25/09 measurement.	Not measured during this reporting period.
254577	Ryerson	9/9/07	8/7/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
246775	Sharp	9/9/07	8/7/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
267695	Speh	9/4/07	8/7/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
230572	Willis	7/11/07	8/7/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
240947	Wolahan	7/12/07	8/2/10	None	No detectable methane except 5/21/08, 1/27/09 and 2/9/09 with levels at 5% LEL and 0.25% by volume CH4.	Not measured during this reporting period.
City Ranch and Other Properties						
	Andreatta/ Carsella	8/14/07	3/17/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
197472	Bartlett	8/15/07	6/22/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
210526	Bruington	8/7/07	8/3/10	None	From start of reading to November 2009 wellhead readings have shown consistent levels of methane at >100% LEL and CH4 % by volume at greater than 50. Since November 2009 overall %LEL and CH4% volume have decreased. With no detectable methane in March 16, 2010 reading. Some CO and H2S readings in mid to late 2008 but current readings have shown little to no CO and H2S. No methane has ever been detected at the cistern.	Not measured during this reporting period.
220100	Cordova	10/30/07	8/3/10	None	Initial readings were variable with readings as low as 0 and as high as >100% LEL and greater the 5% CH4 by volume. After 3/14/08 mostly readings at 0 with some readings at levels slightly above 0. Since March 2009 no detectable methane.	Not measured during this reporting period.
191079	Brian Dale	8/15/07	8/6/10	None	Variability between 0 and >100% LEL and 5% or greater CH4 by volume until 11/14/08 and since that time no methane has been detected.	Not measured during this reporting period.
193092	Degan	8/25/08	8/6/10	None	Initial readings were variable between 0 and >100% LEL and 5% by volume CH4. From 2/17/09 to March 2010 there was no detectable methane.	Not measured during this reporting period.
	Dernell	8/15/07	8/3/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.

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258651	Gonzalez	5/22/08	8/6/10	None	Methane readings were >100% LEL and CH4 % by volume mostly above 20. From 4/9/09 to 7/13/09 values were reduced with % LEL below 50 and CH4 % by volume below 3. From 7/30/09 reading to present values are variable with >100 for one or more readings and then reduced to as low as 0 for one or more readings. There has been no detectable methane at the cistern.	Not measured during this reporting period.
	Haupt #1	6/1/09	8/7/10	None	Until December 2009 all readings but one have shown % LEL at >100 with CH4 % by volume at 11 or less. Beginning with December 2009 reading there have been several large variations in readings ranging from >100 to 0 %LEL and 5 to 0 %CH4 by volume.	Not measured during this reporting period.
203536	Hurley	8/2/07	8/7/10	None	Readings have fairly consistently shown >100% LEL and CH4 % by volume between 10 and 50 with several much lower readings, most recently in July and October 2009 and March 2010. H2S has also been measured, but starting around 9/08 values have been reduced to at or near 0 ppm.	Not measured during this reporting period.
205195	Johnson	8/15/07	8/6/10	None	Readings have shown mostly low values of methane (% LEL less than 20 and CH4 % by volume less than 1) with 0 values. The number of non detectable methane reading has shown a general increase since late 2008.	Not measured during this reporting period.
193520X	McEntee	8/2/07	8/6/10	None	Initially methane was detected at this wellhead at values of >100% LEL and greater than 10% by volume CH4. Starting 1/28/08 values dropped to at or near 0 with only one higher value on 2/17/09 (>100% LEL and 5% By volume CH4). Mostly no detectable methane since that time with two low level detections; one on 4/22/09 and one on 10/20/09.	Not measured during this reporting period.
191345	Pennington	8/7/09	8/7/10	None	Four readings have occurred at this well; showing detectable methane at levels of >100% LEL and CH4% by volume at 15 or less except for 10/20/09 reading which showed lower methane levels (25% LEL and 1.25% CH4 by volume)..	Not measured during this reporting period.
121013	Schafer	8/15/07	8/3/10	None	No methane has ever been detected at this wellhead	Not measured during this reporting period.
248983	Tobyas	8/3/07	8/7/10	None	Historically this wellhead has shown wide variance between 0 and higher methane values of >100% LEL and greater than 5% by volume CH4 with no discernable long term trends.	Not measured during this reporting period.
Silver Spurs Ranch						
268180	Billstrand	8/12/08	8/7/10	None	No methane has been detected at this wellhead except for low readings on 5/6/09 and 1/10/10.	Not measured during this reporting period.
215807	Brown	12/8/08	8/7/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
222294	Cramer	8/3/07	8/7/10	None	Most methane readings have been at or near 0 with periodic higher readings.	Not measured during this reporting period.

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192509	Eddleman, Paul	1/17/08	8/4/41	None	Readings mostly above >100% LEL and 5% by volume CH4 until 9/23/08 and then levels dropped to mostly 0 until 1/26/09. Since 1/26/09 readings have shown wide variability between low to 0 methane and >100% LEL and greater than 5% by volume methane. Since 6/9/09 methane levels have been more consistently higher.	Not measured during this reporting period.
226536	Eddleman, Todd	1/17/08	8/4/10	None	Methane readings have been widely variable from 0 to >100% LEL and 5% by volume CH4.	Not measured during this reporting period.
221465	Evenden	8/2/07	8/7/10	None	Methane readings have generally been at or near 0 with no detectable methane since 3/24/09 and one higher reading on 1/12/09 (>100% LEL and 5% by volume methane).	Not measured during this reporting period.
	Fischer	1/26/09	6/21/10	None	Only two readings have detected low levels of methane (2/17/09 and 2/18/10), other readings have not detected methane.	Not measured during this reporting period.
214145A	Fitzner	11/18/08	8/7/10	None	Methane levels have been generally at 0 but occasionally shows wide swings to >100 % LEL and 5 % CH4 by volume.	Not measured during this reporting period.
31935	Garza-Vela	1/30/08	8/6/10	None	Generally there is 0 to low methane levels except for an occasional low level reading.	Not measured during this reporting period.
196372	Geiselbrecht	8/12/08	8/7/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
246350	Gumpert	7/29/08	8/4/10	None	Methane readings have been widely variable with most readings either 0 or >100% LEL and 5% by volume CH4.	Not measured during this reporting period.
196371	Lyon	8/15/07	8/7/10	None	Between 2007 and mid-2009 most methane readings have been at or near 0 with higher values of >100% LEL and 5% by volume CH4 on 5/22/08 and 4/22/09. Beginning in June of 2009 methane has been more regularly detected.	Not measured during this reporting period.
271524-A	Modlish	1/30/08	8/4/10	None	Most methane readings have been at or near 0 with higher values of >100% LEL and 5% by volume CH4 on 10/21/08 and 5/20/09.	Not measured during this reporting period.
28093MH	Morine	9/10/08	8/7/10	None	Only on reading above 0 has been detected at this wellhead. This reading occurred 1/12/09 and showed 5% LEL and 0.25% by volume CH4.	Not measured during this reporting period.
35227MH	Morris	10/8/08	6/21/10	None	Methane readings swing widely between 0 and 100 % LEL and 0.00 and 5.00 % CH$ by volume.	Not measured during this reporting period.
190327	Palmer	8/12/08	8/7/10	None	No methane was ever been detected at this wellhead until low levels were detected in 10/19/09 and 11/6/09 readings and again on 1/19/2010.	Not measured during this reporting period.
197128	Roberts	4/08/08	8/7/10	None	Methane readings have historically been widely variable from 0 to >100% LEL and 5% by volume CH4.	Not measured during this reporting period.

Table 4
Water Well Measurements for the August/September 2010 Monthly Report

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History (Last Updated with May 2010 Monthly Report)	If sampled, comparison of results from this period to last period
271748	Sample	3/10/08	8/4/10	None	Until July 2009 most of the readings from this wellhead have been no or low levels of detectable methane with higher readings on 5/22/08, 6/3/08, and 5/20/09. More consistent methane readings have occurred beginning in July 2009.	Not measured during this reporting period.
192144	Snow	8/2/07	8/7/10	None	No measurable methane until 10/4/07, then widely variable levels ranging from 0 to >100% LEL and 5% by volume CH4 with no discernable trends.	Not measured during this reporting period.
213070	Stephens	8/12/08	8/7/10	None	No methane had ever been detected at this wellhead except for low levels detected on 10/19/09.	Not measured during this reporting period.
261753	Wahl	8/5/09	8/7/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
234839	Waltz	8/12/08	6/21/10	None	No methane has ever been detected at this wellhead.	Not measured during this reporting period.
234836	White, Jim	1/4/08	8/4/10	None	Methane levels have been widely variable between no detectable methane and methane levels at >100% LEL and 5% by volume CH4 with no discernable trends. No methane has ever been detected at the cistern.	Not measured during this reporting period.
219376	White, Orlie	8/2/07	6/21/10	None	Methane values historically at low to 0 with higher values on 5/22/08 and from 9/10/08 to 10/29/08. Four detectable methane readings in 2009; on 3/26, 9/29, 10/19 and 12/17. In 2010 detectable methane appears to be increasing.	Sampling attempted 8/7/10 but gate was locked.
Black Hawk Ranch						
218719	Goza	1/14/09	8/4/10	None	No methane has ever been detected at this wellhead except for 1/19/10 and 3/1710 readings.	Not measured during this reporting period.
206745	Harbecke	6/11/10	8/4/10	None		Not measured during this reporting period.

Table 5 Methane Readings Schedule (9 August 2010)							
Landowner	**Subdivision**	**Water Level**	**Cistern**	**Bi-Monthly**	**Monthly**	**Quarterly**	**Bi-Weekly**
Monitoring Within 1 Mile Radius or of Special Interest							
Kathy Dee	River Ridge						X
R. Gonzalez	River Ridge						X
McPherson	River Ridge						X
Rohr	River Ridge						X
Houghtling	River Ridge		X				X
Kent Smith	River Ridge		X				X
Bergman	River Ridge						X
Lively	River Ridge						X
Kerman	River Ridge		X				X
Conley	River Ridge						X
Searle	River Ridge						X
Derowitsch	River Ridge		X				X
Colorado-Switzer	River Ridge						X
English	River Ridge		X				X
Golden Cycle Land (Goemmer)	River Ridge						X
Burge	La Veta Pines						X
Barrett	River Ridge						X
Hopke	River Ridge		X				X
Masters #1	River Ridge						X
Coleman	River Ridge						X
BLM 15-12	La Veta Pines				X		
Lively 10-02	River Ridge			X			

Table 5
Methane Readings Schedule
(9 August 2010)

Landowner	Subdivision	Water Level	Cistern	Bi-Monthly	Monthly	Quarterly	Bi-Weekly
River Ridge Ranch							
Wolahan	River Ridge		X		X		
Martin	River Ridge				X		
Speh	River Ridge				X		
Lang	River Ridge		X			X	
Roloff	River Ridge	X			X		
Hoppe (Goacher)	River Ridge				X		
May	River Ridge						X
Brice	River Ridge				X		
Goodwin	River Ridge		X		X		
Ireland	River Ridge				X		
Andexler	River Ridge		X		X		
Sharp	River Ridge		X		X		
Ryerson	River Ridge	X			X		
Meyers	River Ridge			X			
Hentschel	River Ridge				X		
Rankins	River Ridge					X	
Lowry	River Ridge					X	
Goemmer Cattle	River Ridge					X	
Higgins	River Ridge	X			X		
Campbell	River Ridge				X		
Rhodes	River Ridge				X		
City Ranch							
T. Gonzalez	City Ranch	X	X	X			
Hurley	City Ranch	X	X		X		
Tobyas	City Ranch			X			

Table 5 Methane Readings Schedule (9 August 2010)							
Landowner	**Subdivision**	**Water Level**	**Cistern**	**Bi-Monthly**	**Monthly**	**Quarterly**	**Bi-Weekly**
Dale	City Ranch				X		
McEntee	City Ranch				X		
Johnson	City Ranch		X		X		
Cordova	City Ranch			X			
Dernell	City Ranch				X		
Schaefer	City Ranch					X	
Bruington	City Ranch		X	X			
Bartlett	City Ranch					X	
Pennington – Birkman	City Ranch				X		
HAUPT #1	City Ranch				X		
Deagan	City Ranch					X	
Bear Creek/Silver Spurs							
Andreatta/Carsella	Bear Creek				X		
Orlie White	Silver Spurs	X			X		
Evenden	Silver Spurs				X		
Roberts	Silver Spurs				X		
Snow	Silver Spurs	X			X		
Cramer	Silver Spurs	X	X		X		
Lyon	Silver Spurs				X		
Jim White	Silver Spurs		X		X		
Garza-Vela	Silver Spurs				X		
Modlish	Silver Spurs				X		
Todd Eddleman	Silver Spurs				X		
Paul Eddleman	Silver Spurs				X		
Sample	Silver Spurs		X		X		
Billstrand	Silver Spurs				X		

Table 5 Methane Readings Schedule (9 August 2010)							
Landowner	**Subdivision**	**Water Level**	**Cistern**	**Bi-Monthly**	**Monthly**	**Quarterly**	**Bi-Weekly**
Waltz	Silver Spurs				X		
Stephens	Silver Spurs				X		
Palmer (G/S)	Silver Spurs				X		
Geoselbrecht	Silver Spurs				X		
Morine	Silver Spurs				X		
Morris	Silver Spurs					X	
Brown	Silver Spurs	X			X		
Fitzner	Silver Spurs				X		
Fischer	Silver Spurs					X	
Wahl	Silver Spurs				X		
Black Hawk Ranch							
Goza	Black Hawk				X		

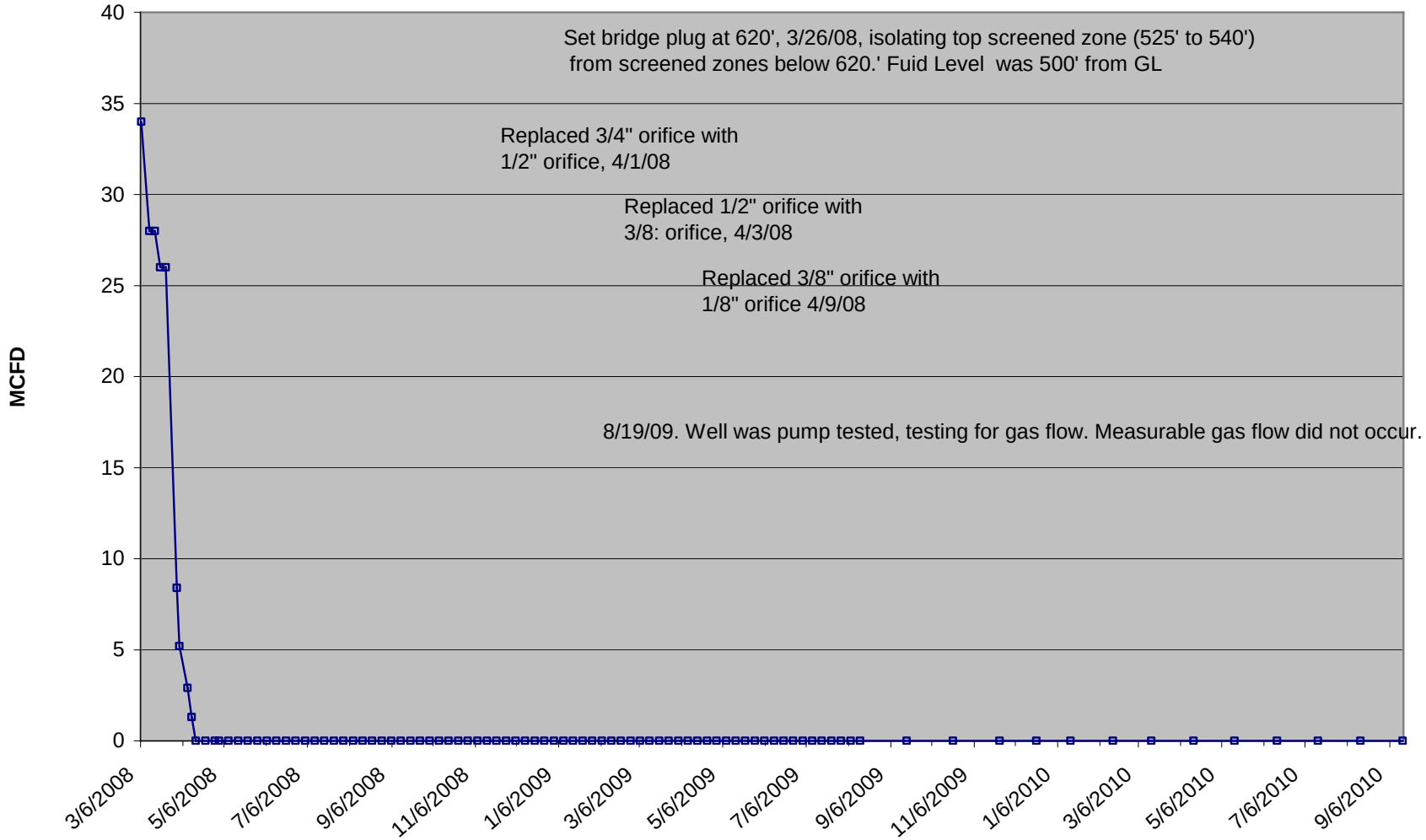
Rohr will be checked Quarterly with Rankin, Lowry, and Goemmer Cattle.
John Fischer location is a mine vent. If possible vent will be monitored with RMLD quarterly.

Table 6 Residences Receiving Water	
Jerry Angely	Has received water provided by PEI
Kent Smith	Has received water provided by PEI
Alan Cramer	Has received water provided by PEI
Tom Gonzales	Has received water provided by PEI
Spencer/Carol Snow	Has received water provided by PEI
Bruington	Has received water provided by PEI
Todd Eddleman	Has received water provided by PEI
Paul Eddleman	Has received water provided by PEI
Jim White	Has received water provided by PEI
Edward Lyon	Has received water provided by PEI
Donald Sharp	Has received water provided by PEI
Edward Johnson	Has received water provided by PEI
Richard McEntee	Has received water provided by PEI
P.C. Roberts	Has received water provided by PEI
Ireland-Murphy	Has received water provided by PEI
Keith Lightcap	Has received water provided by PEI
Bounds	To date has not received water provided by PEI
Houghtling	Added to the list in January 2010

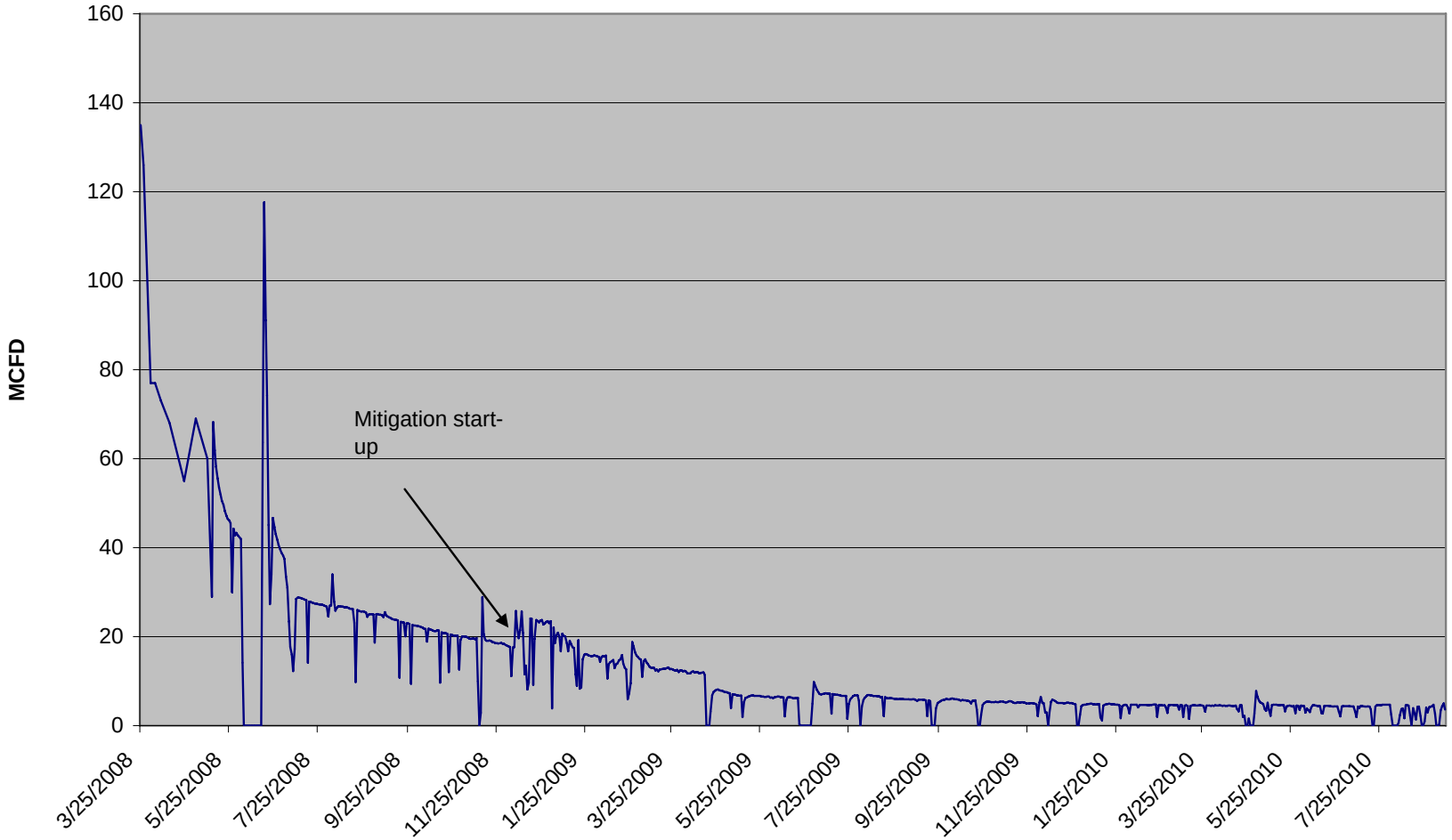
No new residences have been added during this reporting period.

Attachment 1
Gas Flow in Monitoring Well POCI 55, Recovery 1 Kittleson, Recovery 3 PEI and Recovery 4 Barrett

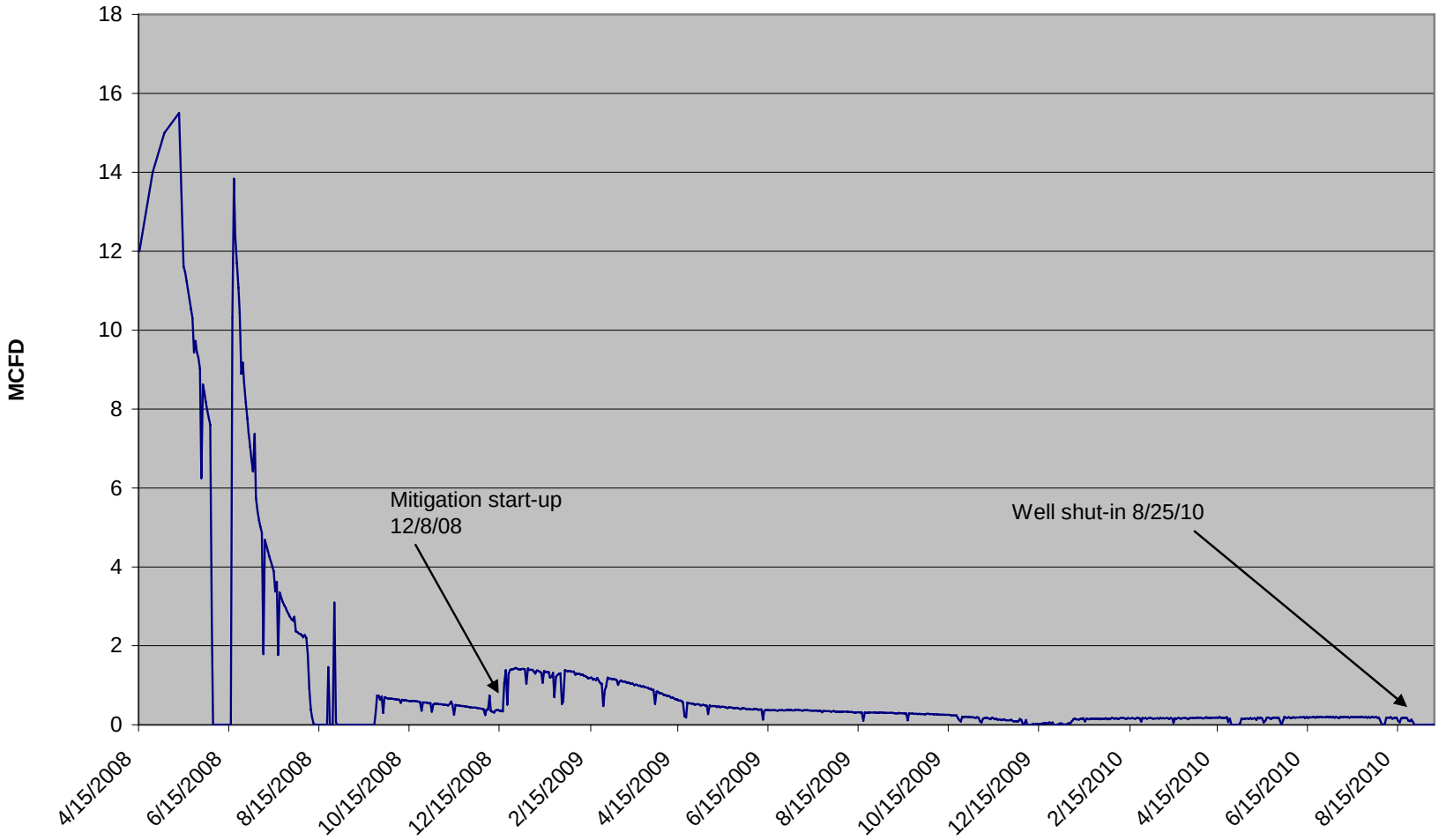
POCI 55 MW Gas Flow from 3/6/08 to 9/15/10



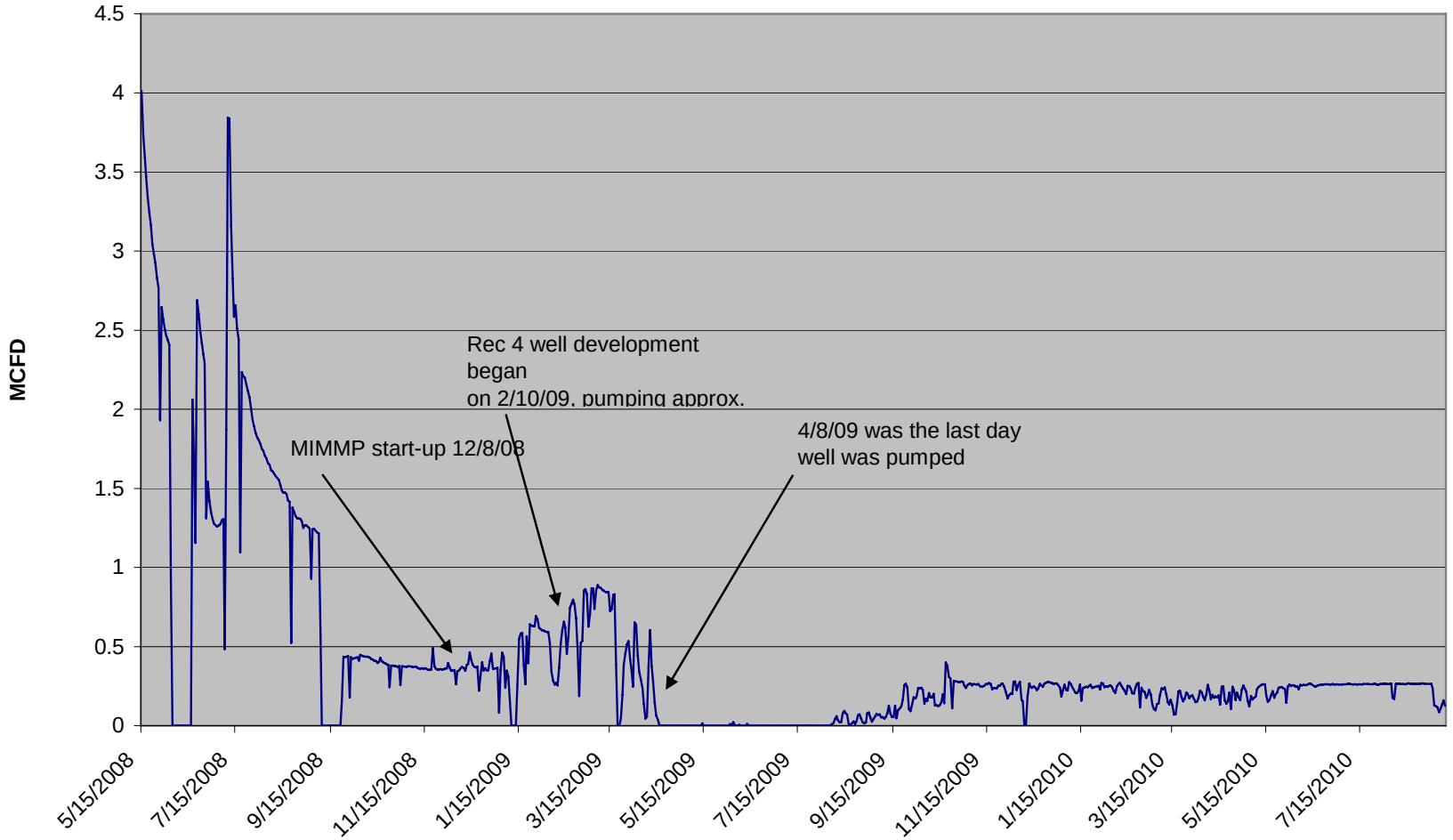
Recovery 1 Kittleson Gas Flow
from 3/25/08 to 9/8/10



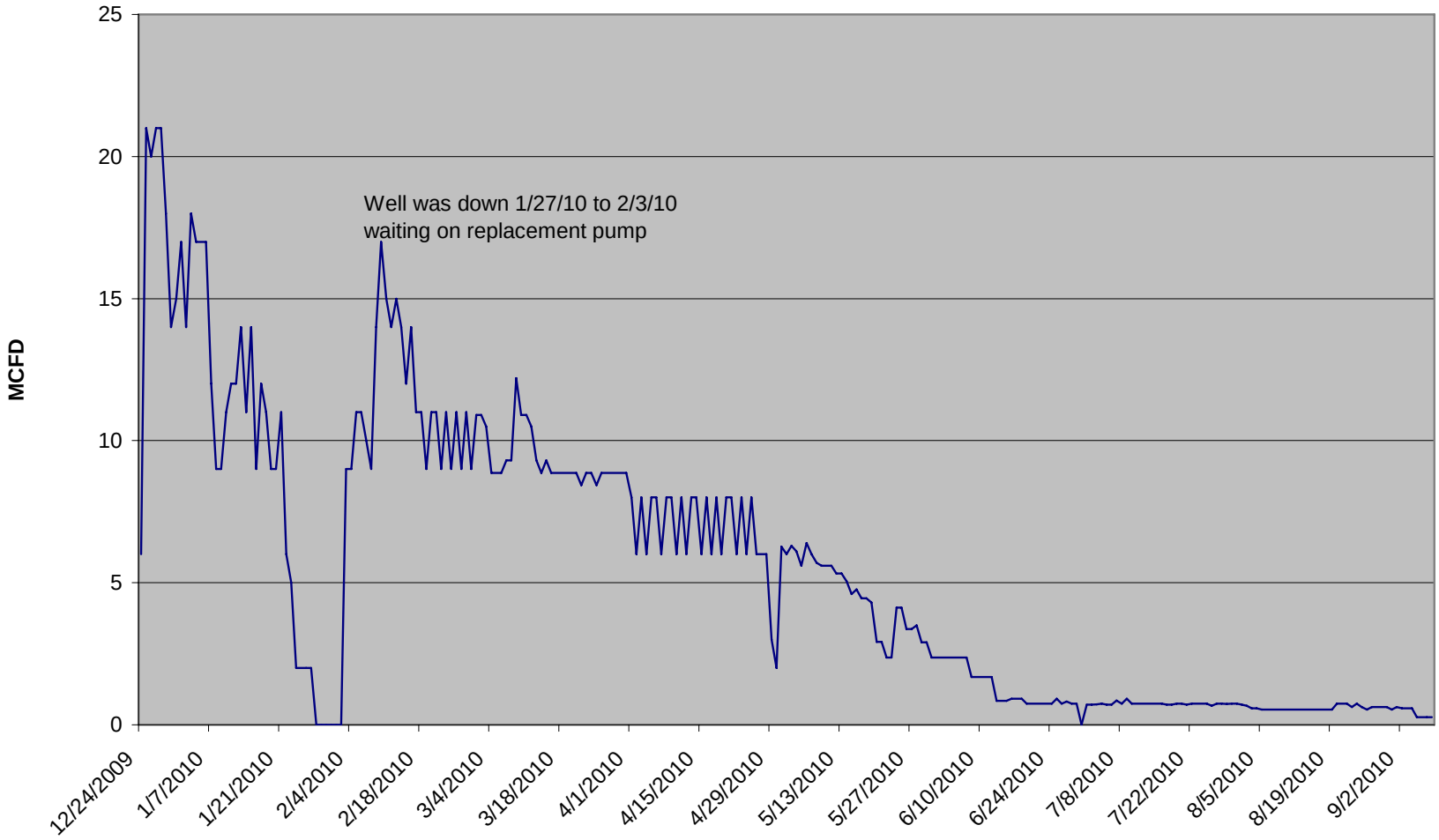
Recovery 3 PEI Gas Flow
from 4/15/08 to 9/8/10



**Recovery 4 Barrett Gas Flow
from 5/15/08 to 9/8/10**

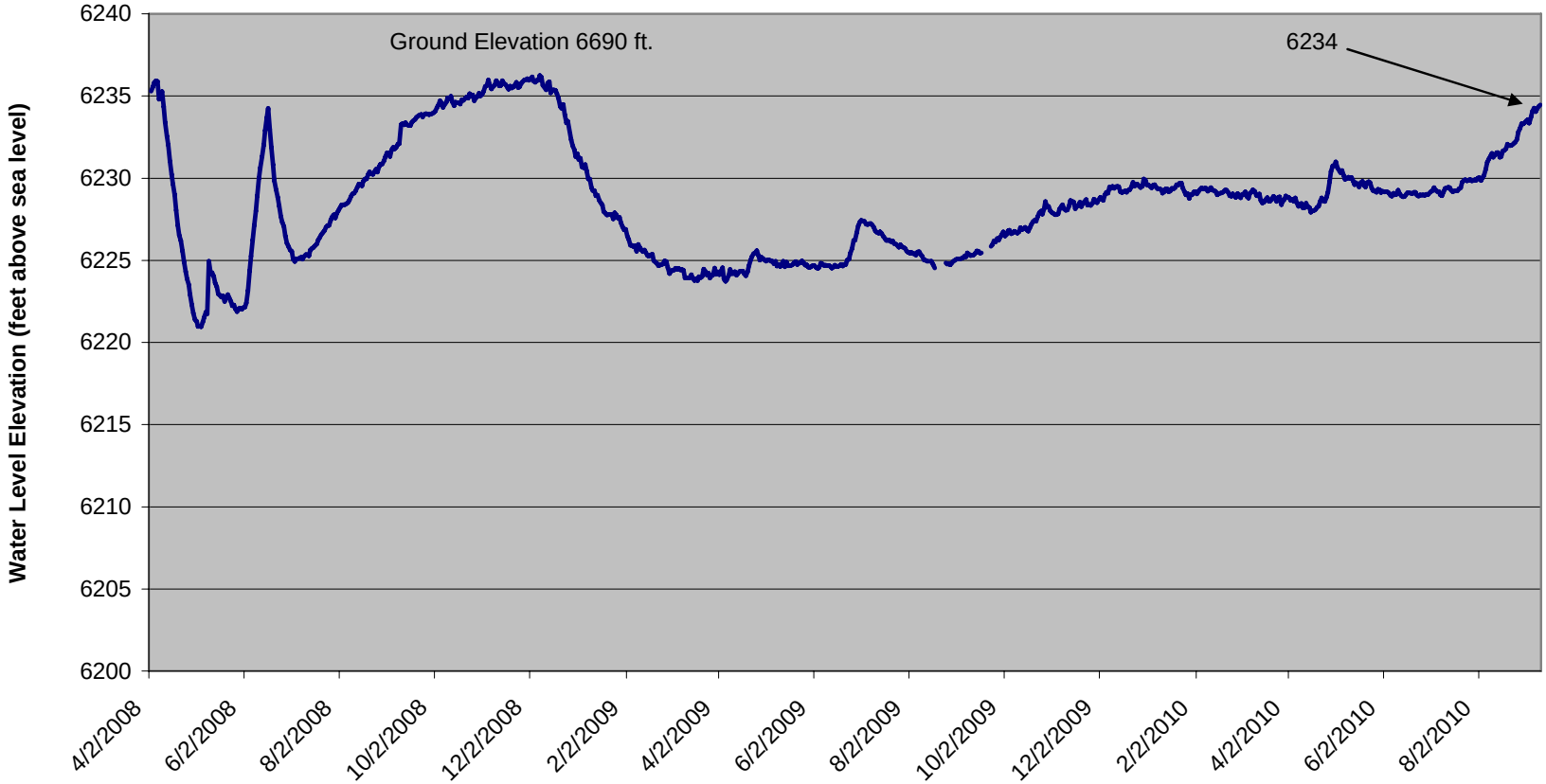


Recovery 5 Masters Gas Flow (Masters WW 257113) from 12/24/09 to 9/8/10



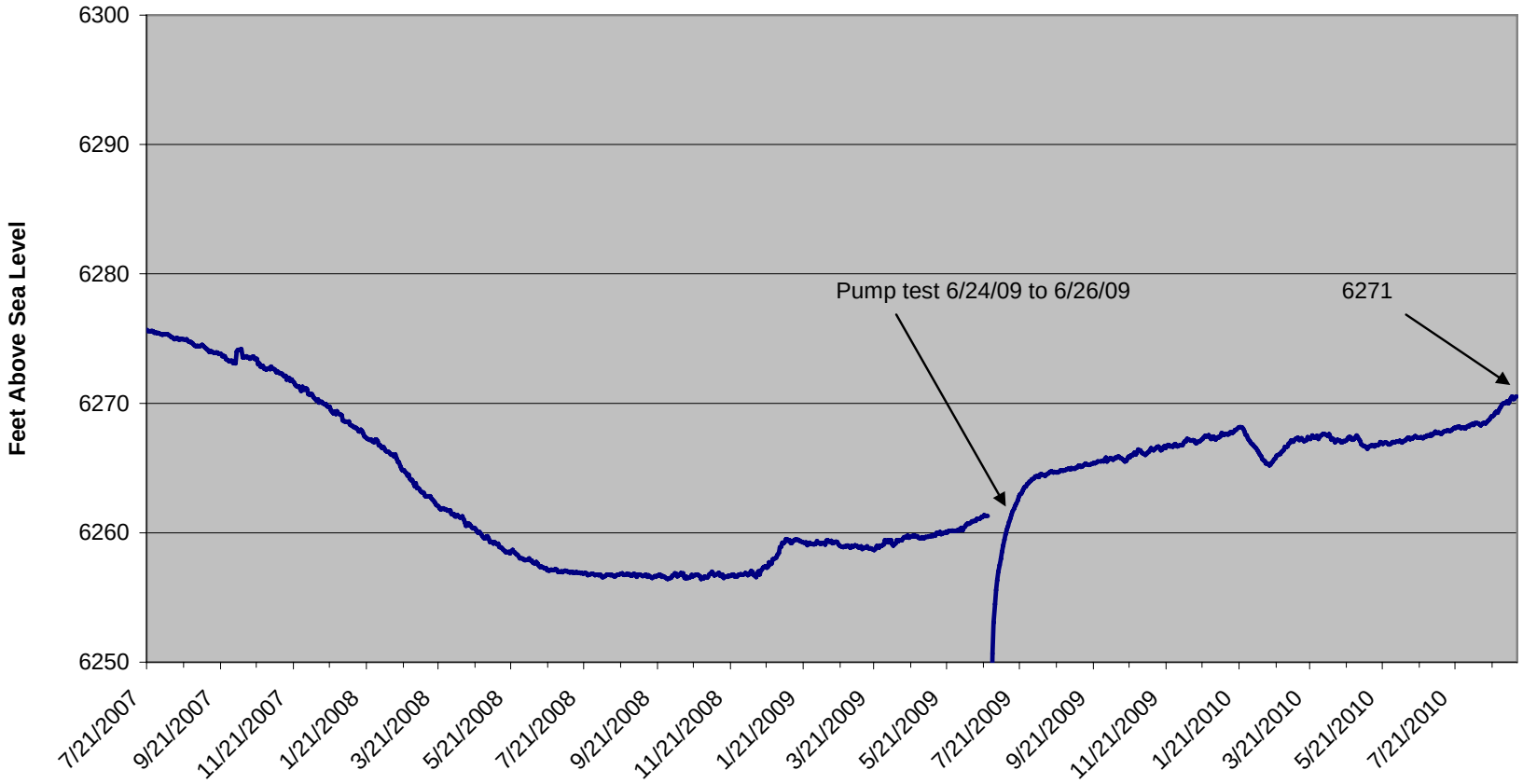
Attachment 2
Graphs of Pressure and Fluid Level Data From
POCI 55, Barrett, Bergman, Bruington, Coleman, Evenden, Garza-Vela and Meyer

POCI 55 Monitor Well,
Static Water Level Elevation
from 4/2/08 to 9/10/10
Permit # 275819
Lot 55 RRR, SE SW Sec 3 29S 67W, GL elev. 6690'

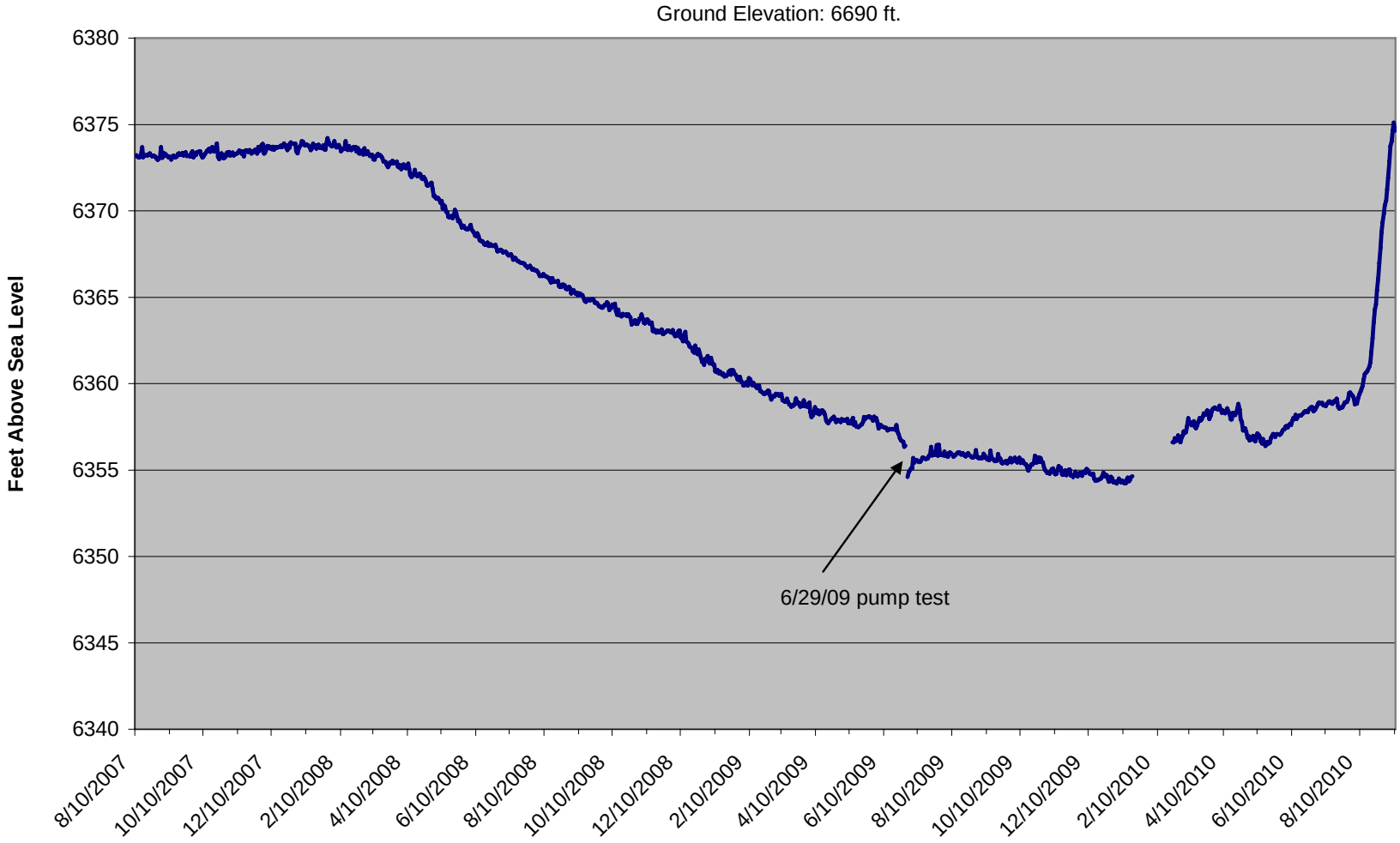


Barrett WW
Static Water Level from 7/21/07 to 9/10/10
Permit # 257994
Lot 57 RRR

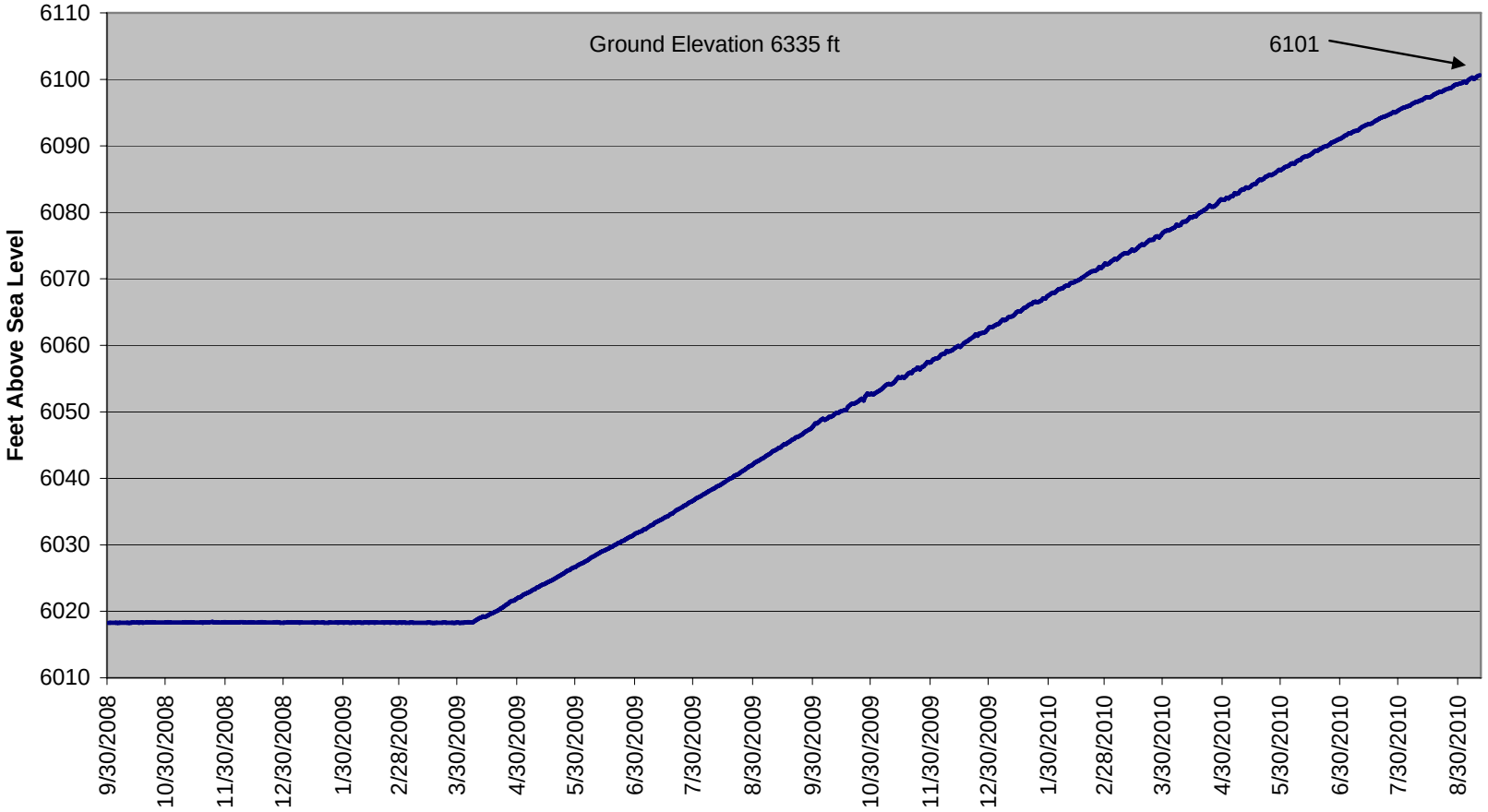
Ground Elevation 6707 ft.



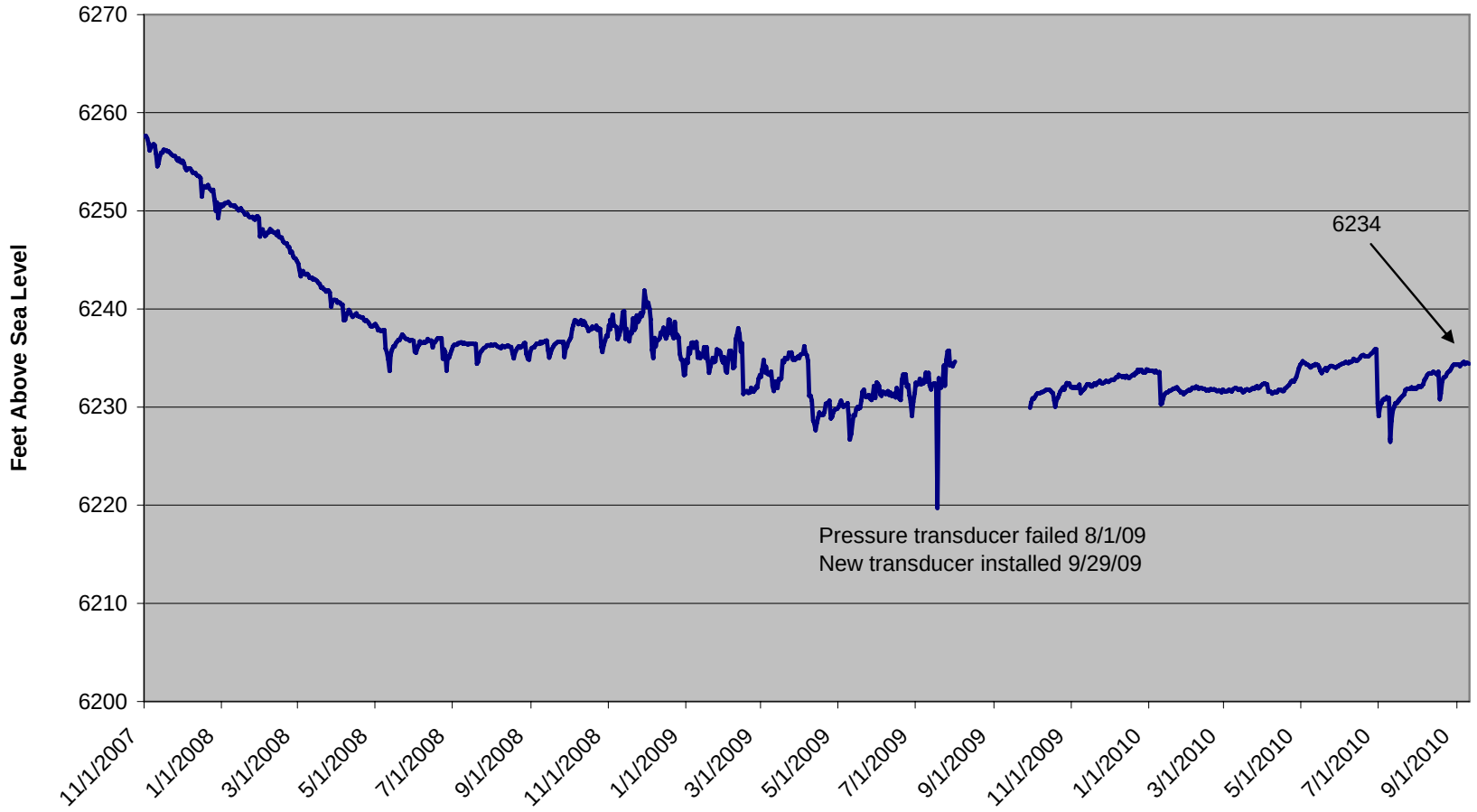
Bergman WW, Static Water Level from 8/10/07 to 9/10/10
Permit # 244403, Lot 48 RRR



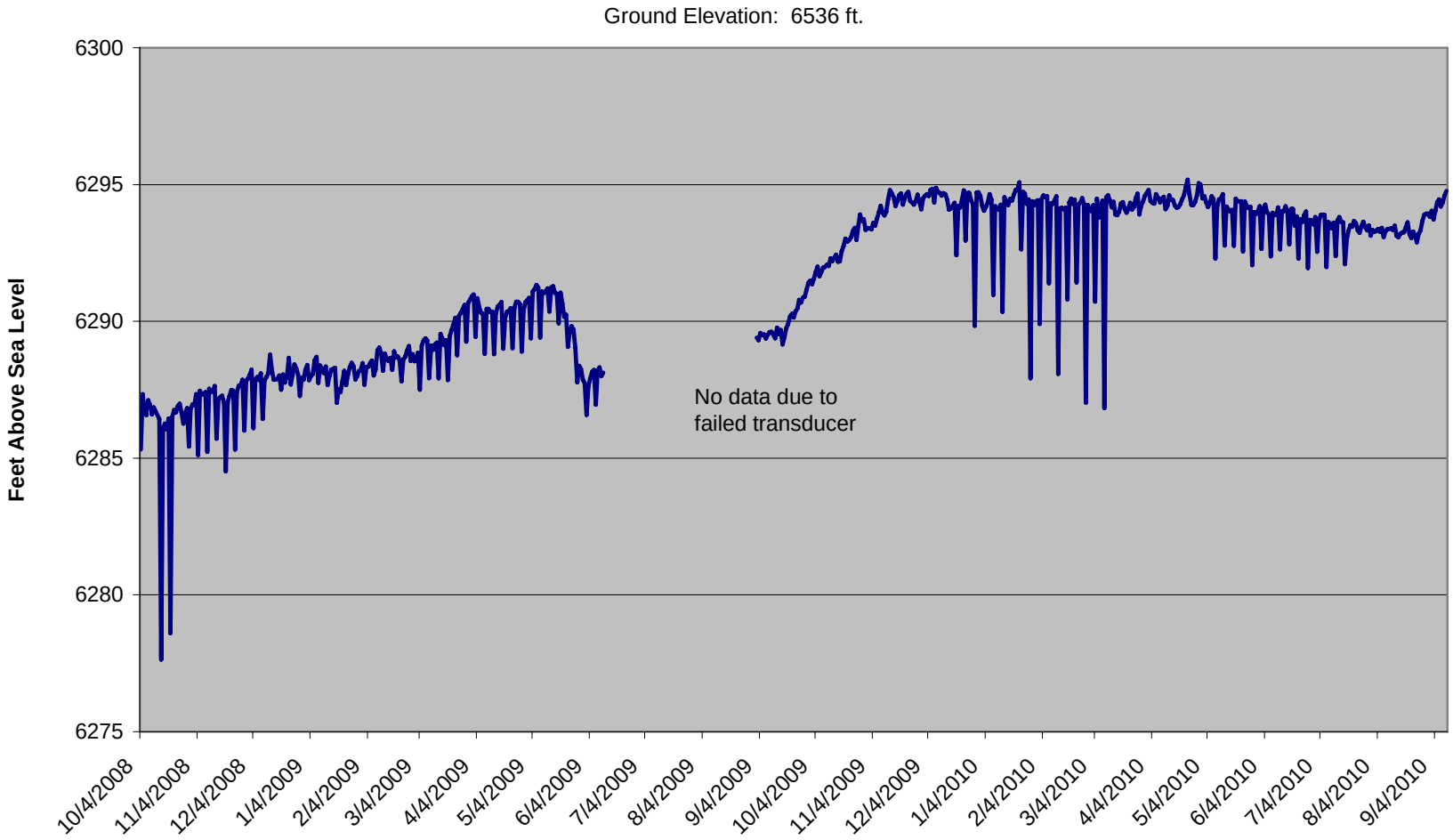
Bruington WW, Permit # 210526, City Ranches Lot 15
Static Water Level
from 9/30/08 to 9/10/10



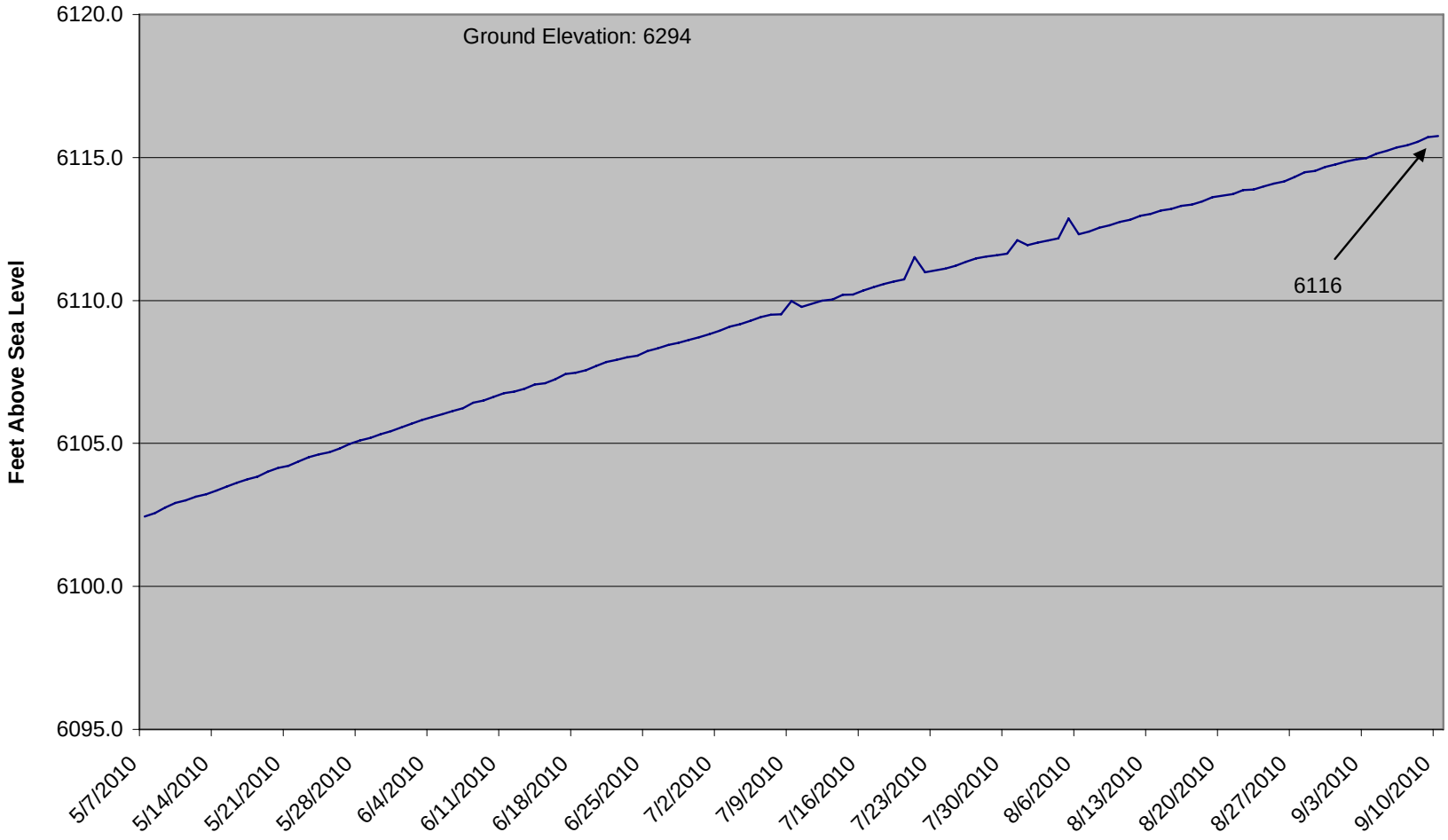
Coleman WW, Water Level from 11/1/07 to 9/10/10
Permit # 267694 Lot 70 RRR
G.L. elev. 6848'



Garza WW, Water Level from 10/3/08 to 9/10/10
Permit # 206886, Lot 60 Silver Spurs Ranch

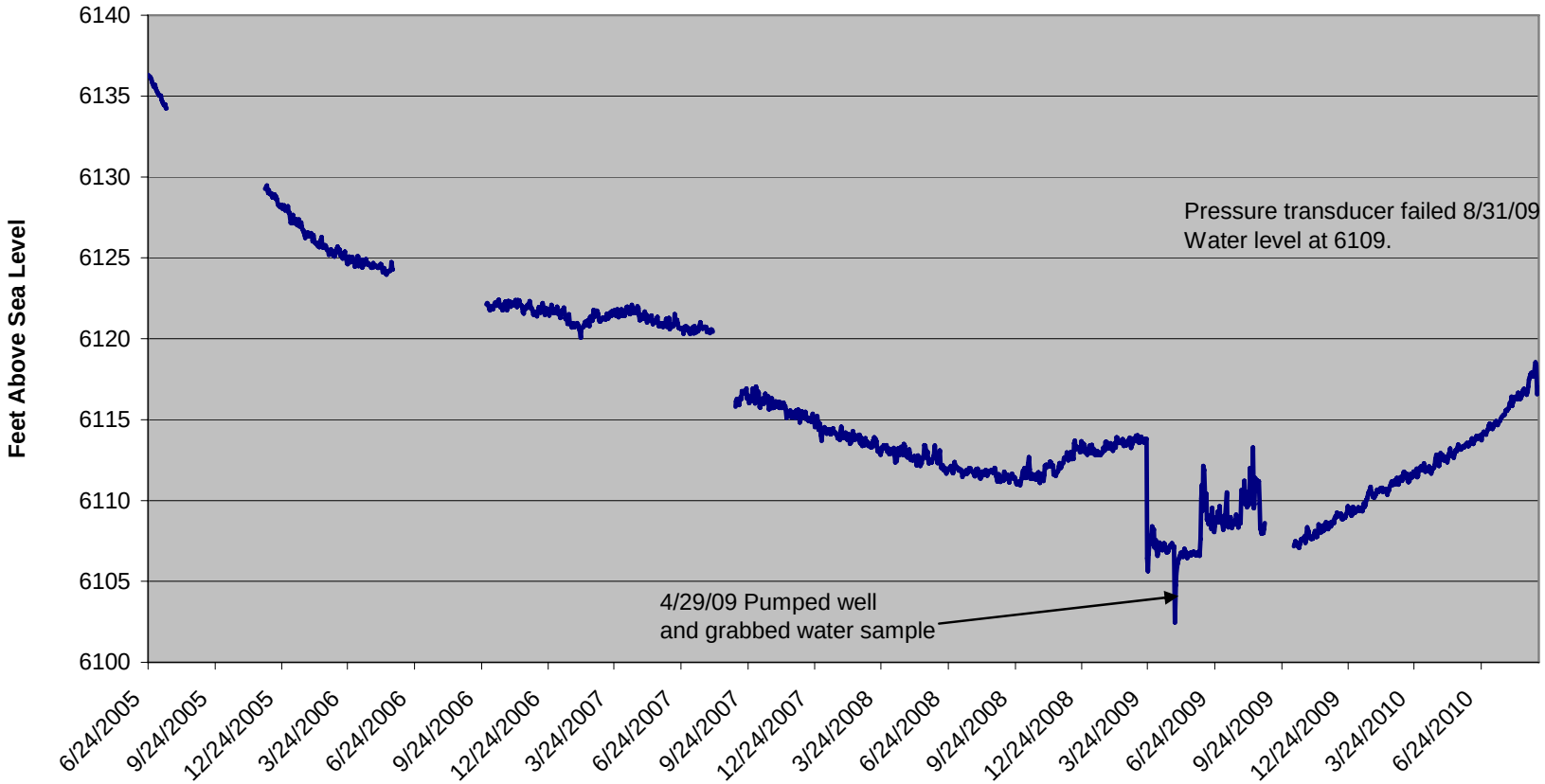


T. Gonzales WW, Permit #285651, City Ranches Lot 79A
Static Water Level from 5/7/10 to 9/10/10



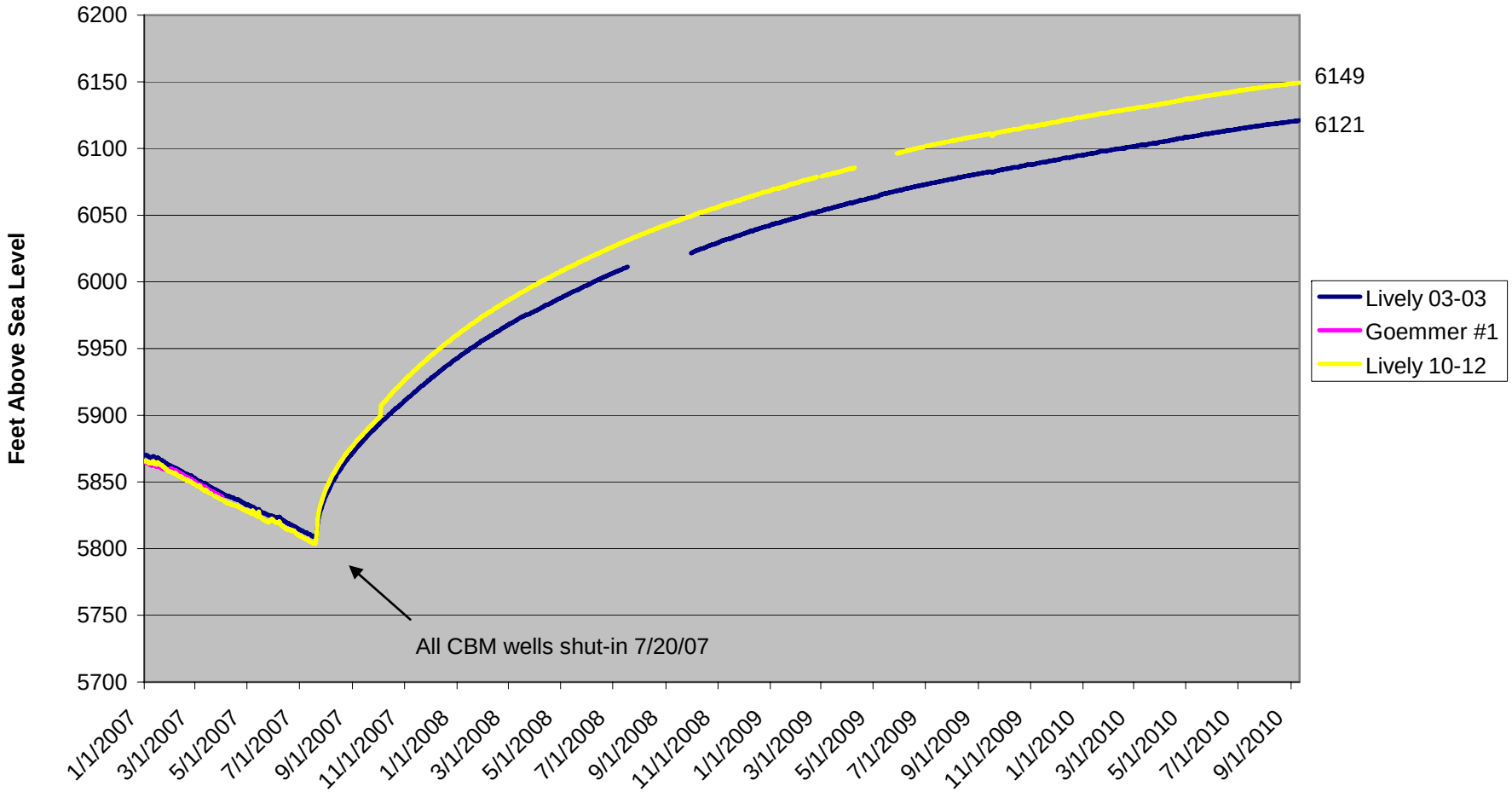
Meyer WW Permit # 248862
Static Water Level
from 6/24/05 to 9/10/10

Ground Elevation: 6575 ft.

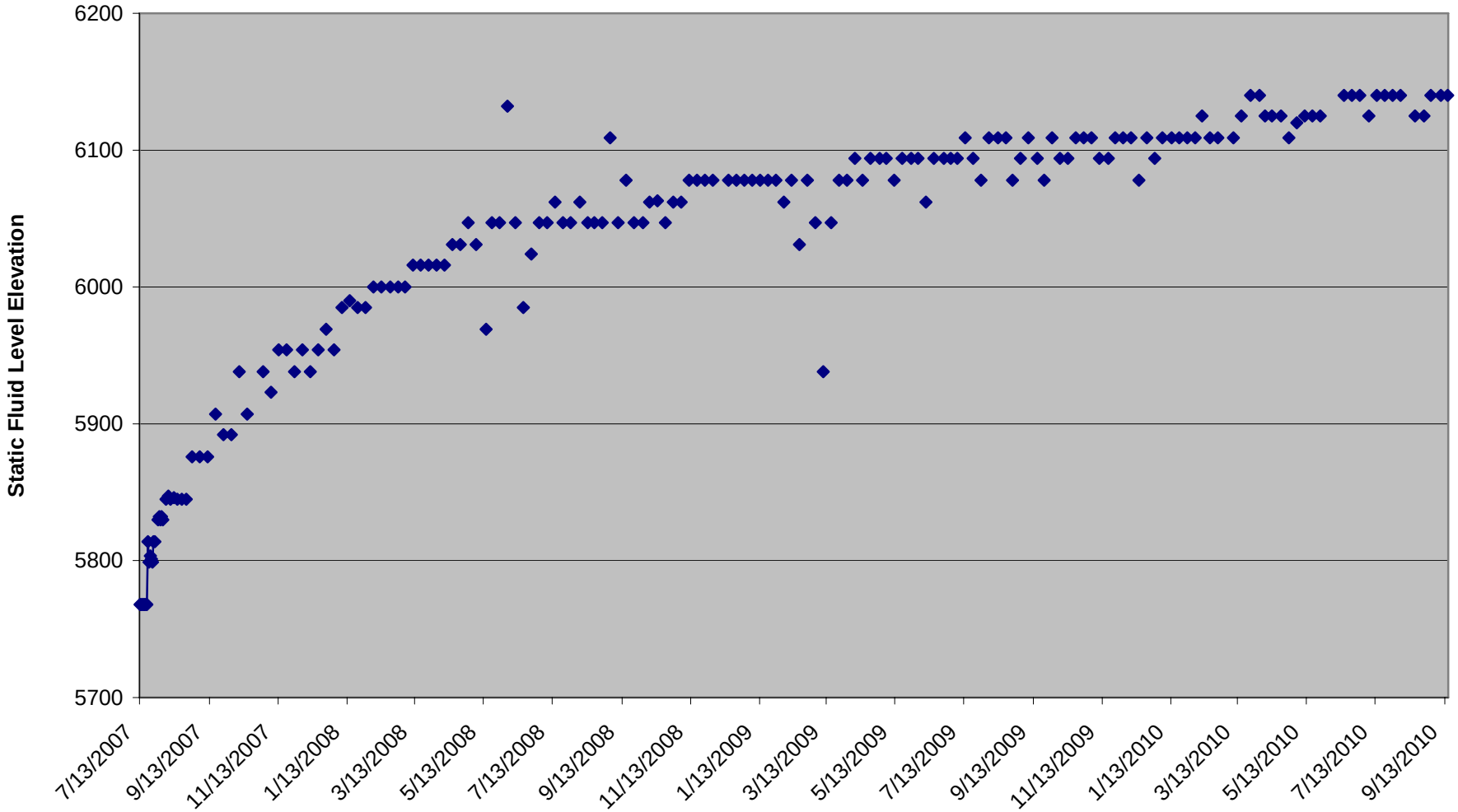


Attachment 3
Fluid Levels in Petroglyph Production Wells

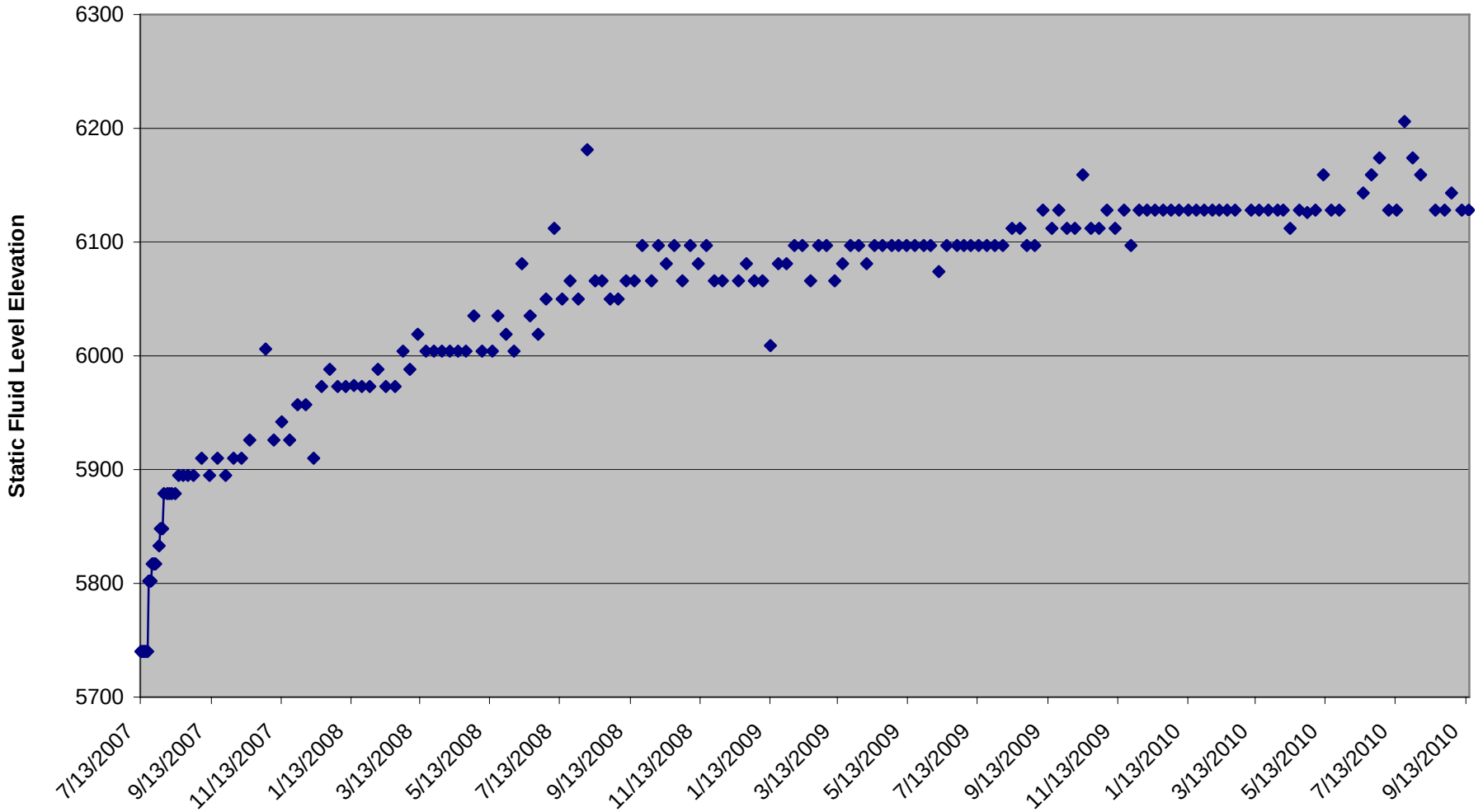
Vermejo/Trinidad Monitor Wells
Static Water Level
from 1/1/07 to 9/10/10



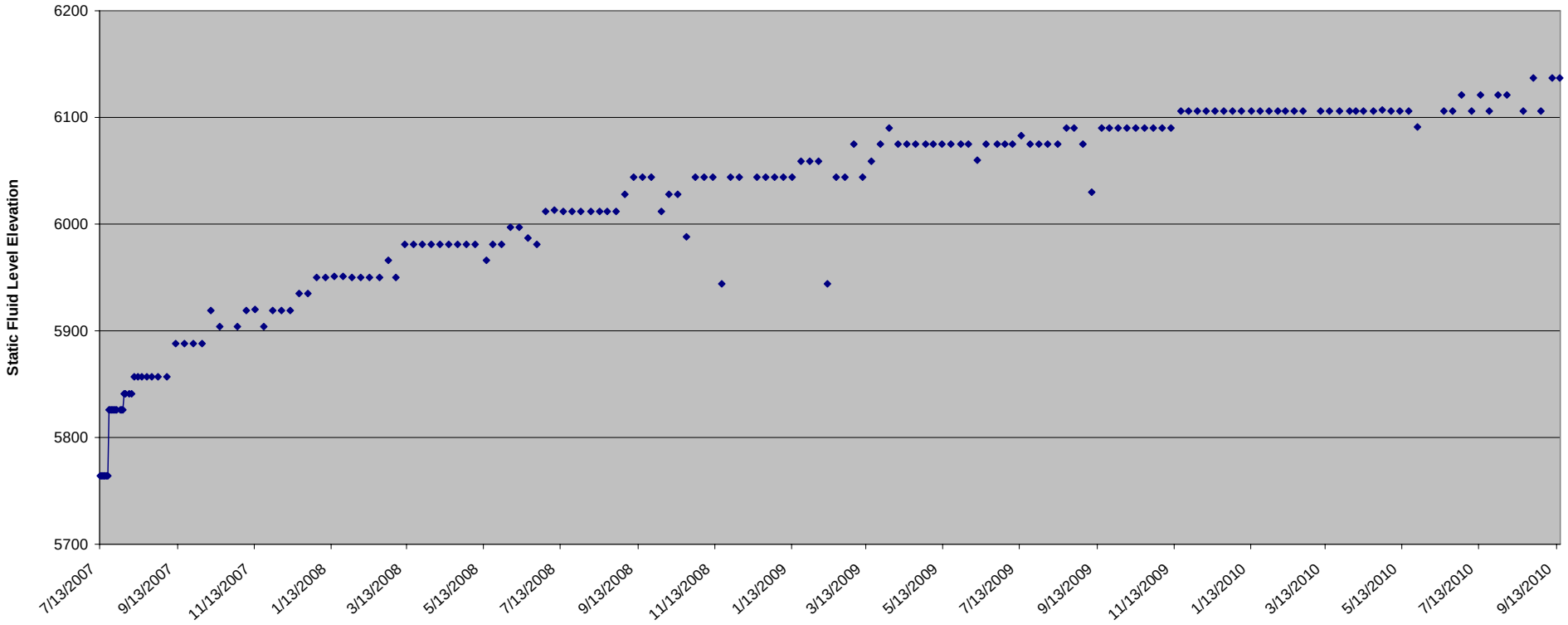
Lively 02-02
7/13/07 thru 9/15/10
Wells shut down 7/20/07



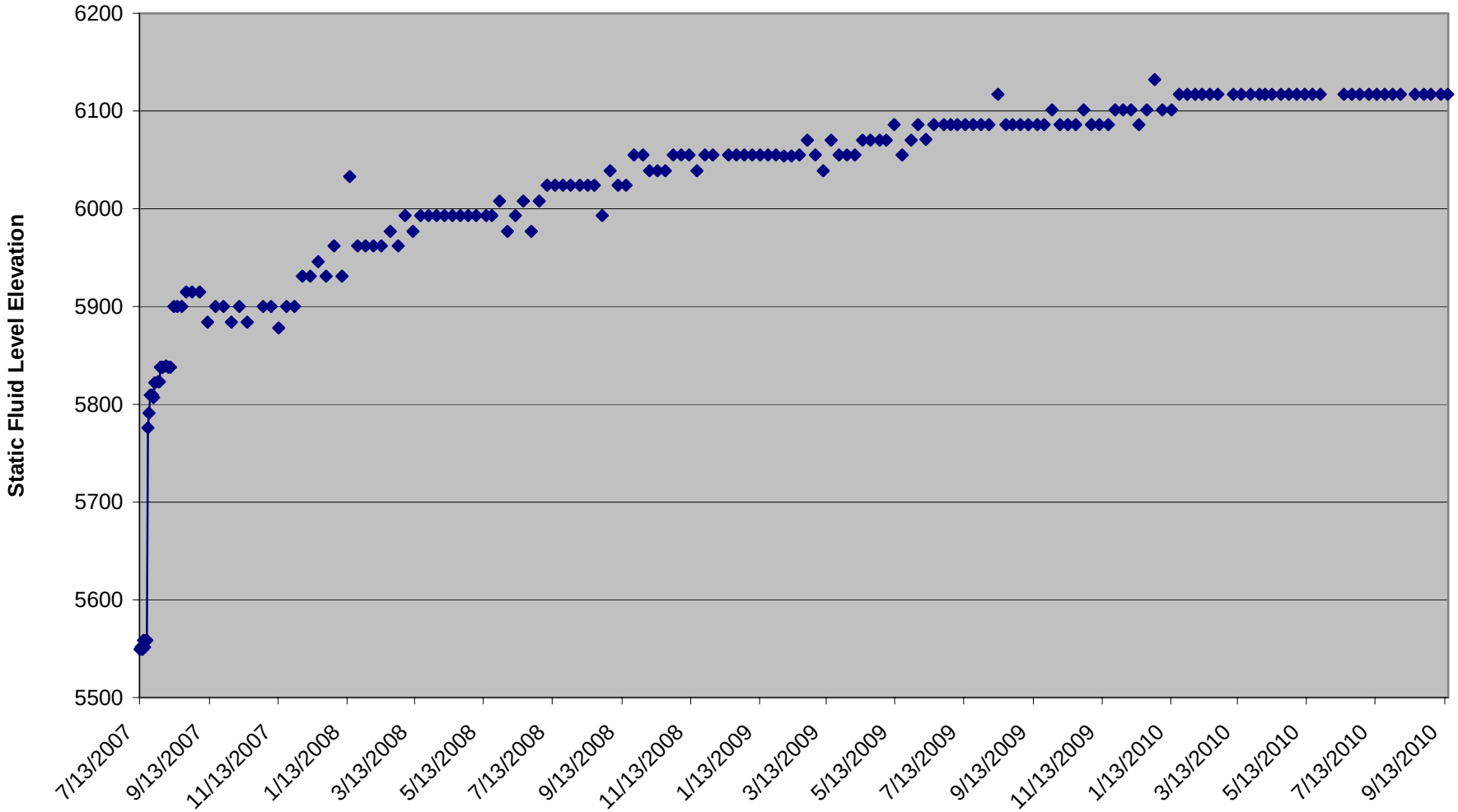
Lively 02-12
7/13/07 thru 9/15/10
Wells shut down 7/20/07



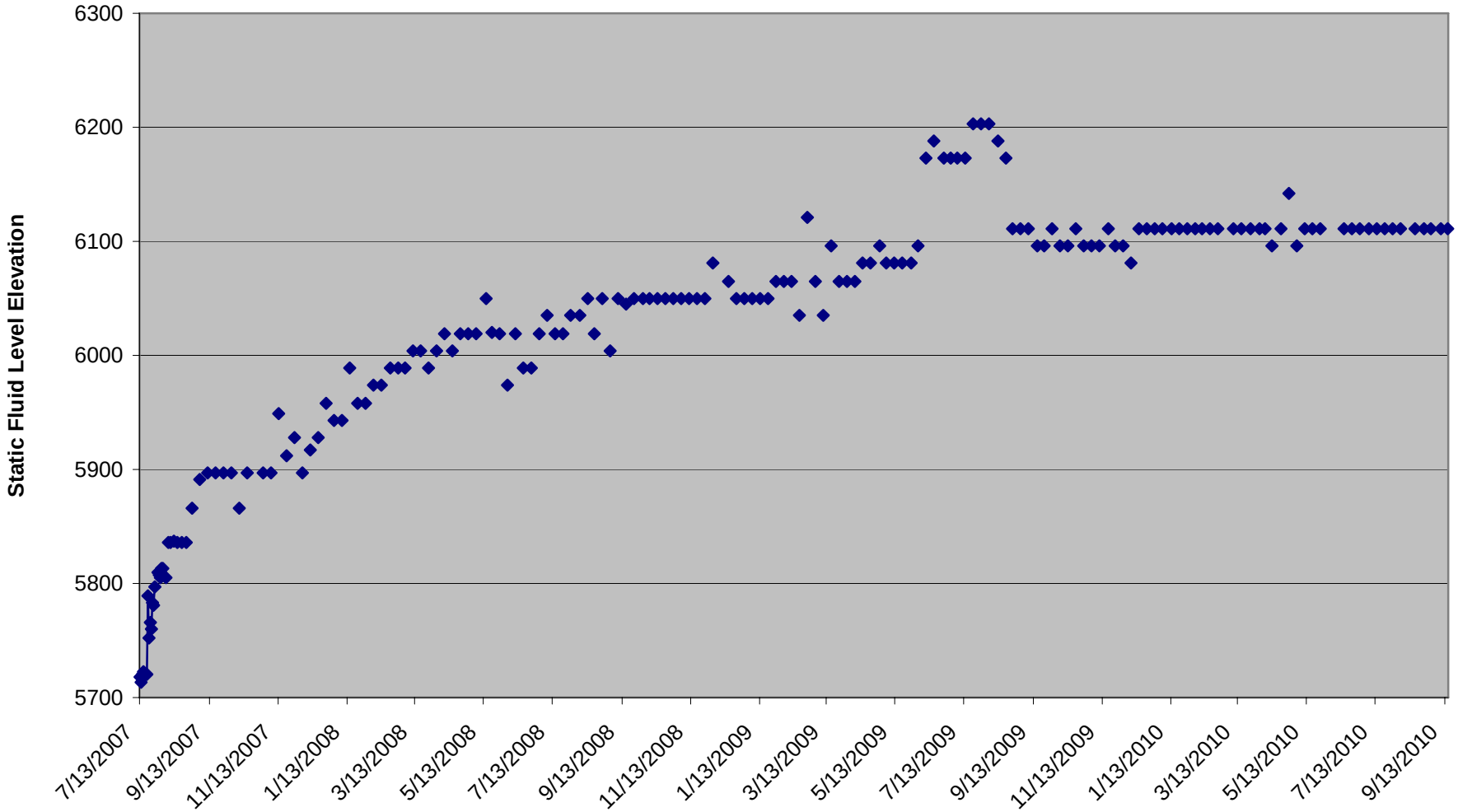
Lively 03-01
7/13/07 thru 09/15/10
Wells shut down 7/20/07



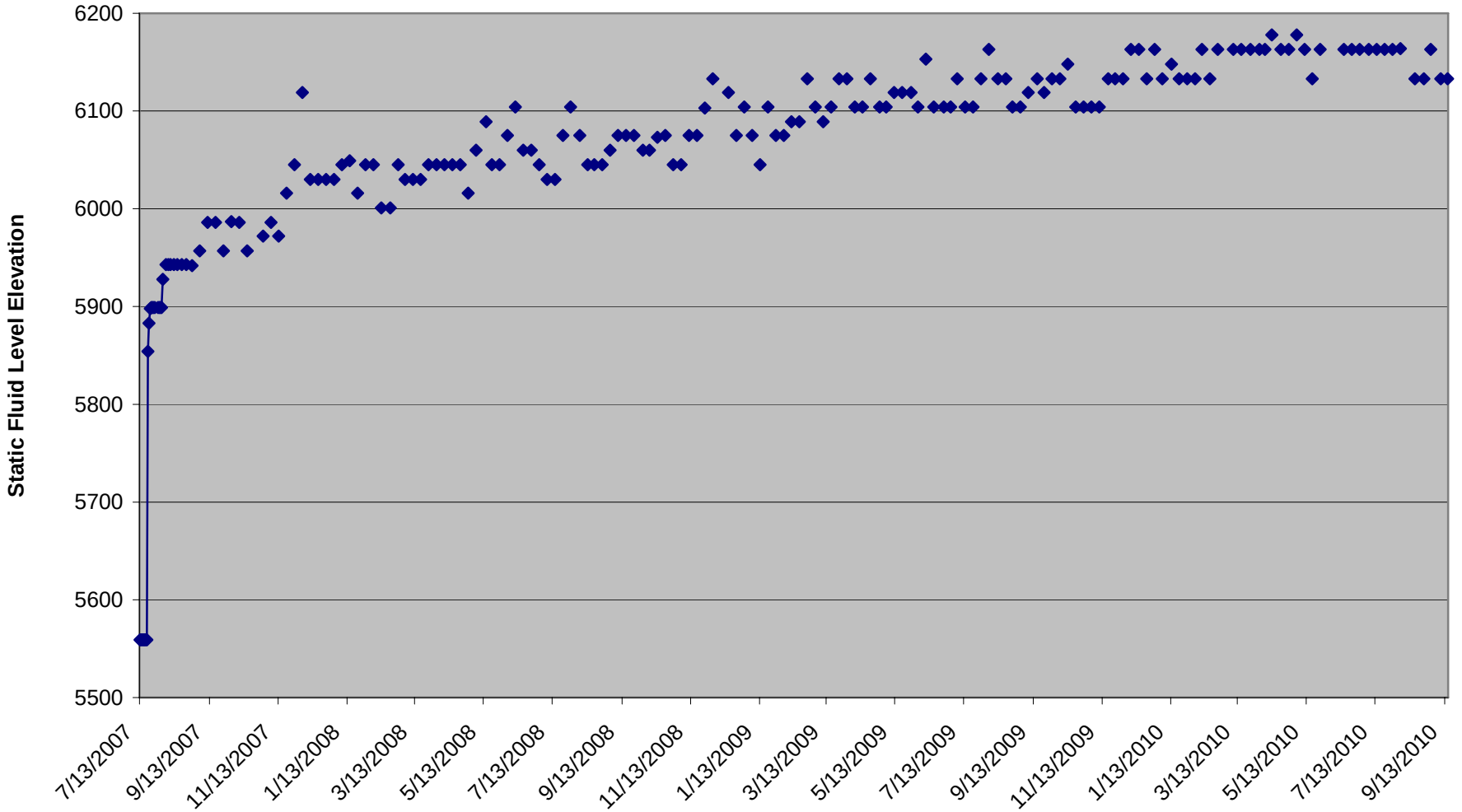
Lively 03-10
7/13/07 thru 9/15/10
Wells shut down 7/20/07



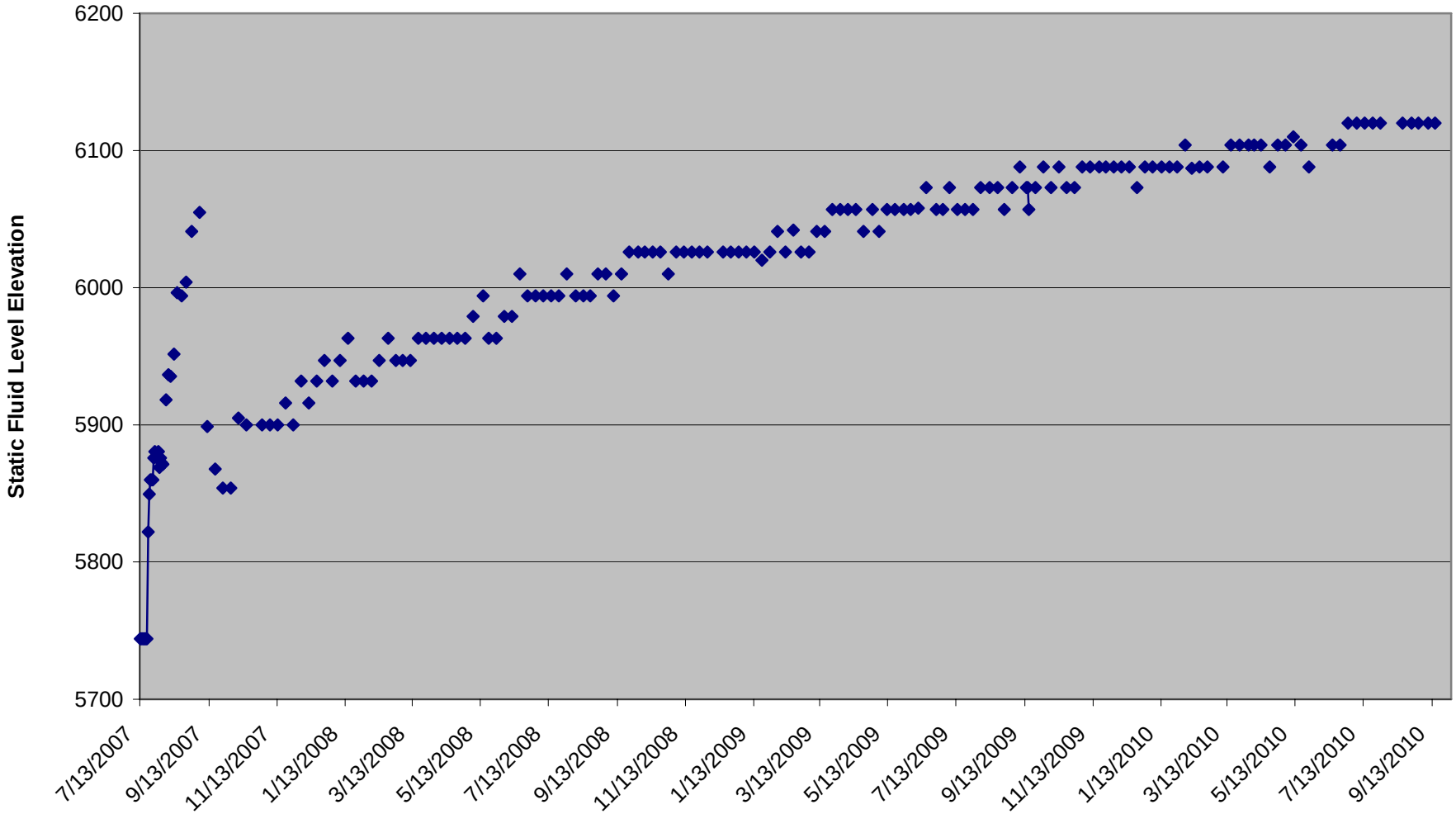
Lively 03-12
7/13/07 thru 9/15/10
Wells shut down 7/20/07



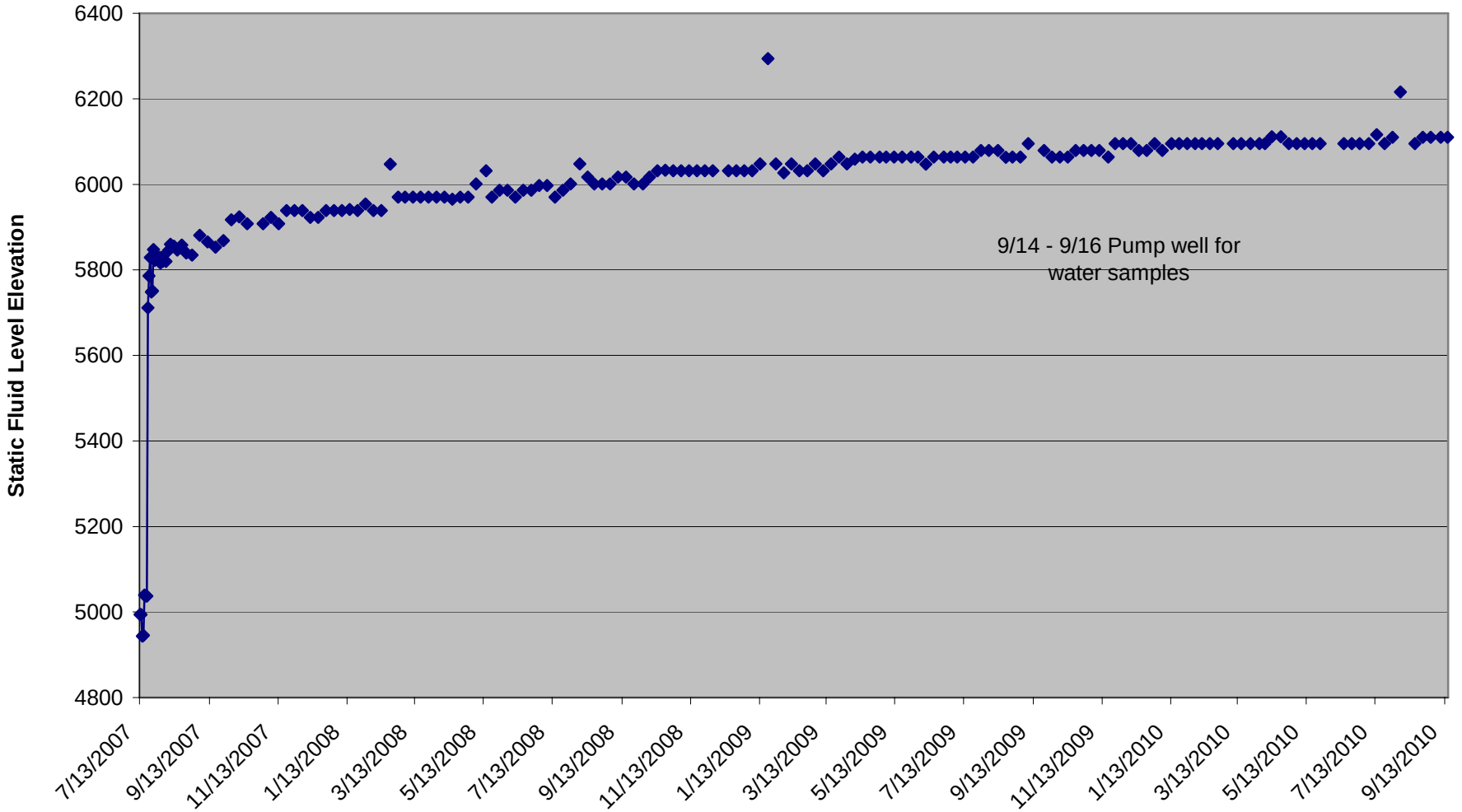
Lively 10-04
7/13/07 thru 9/15/10
Wells shut down 7/20/07



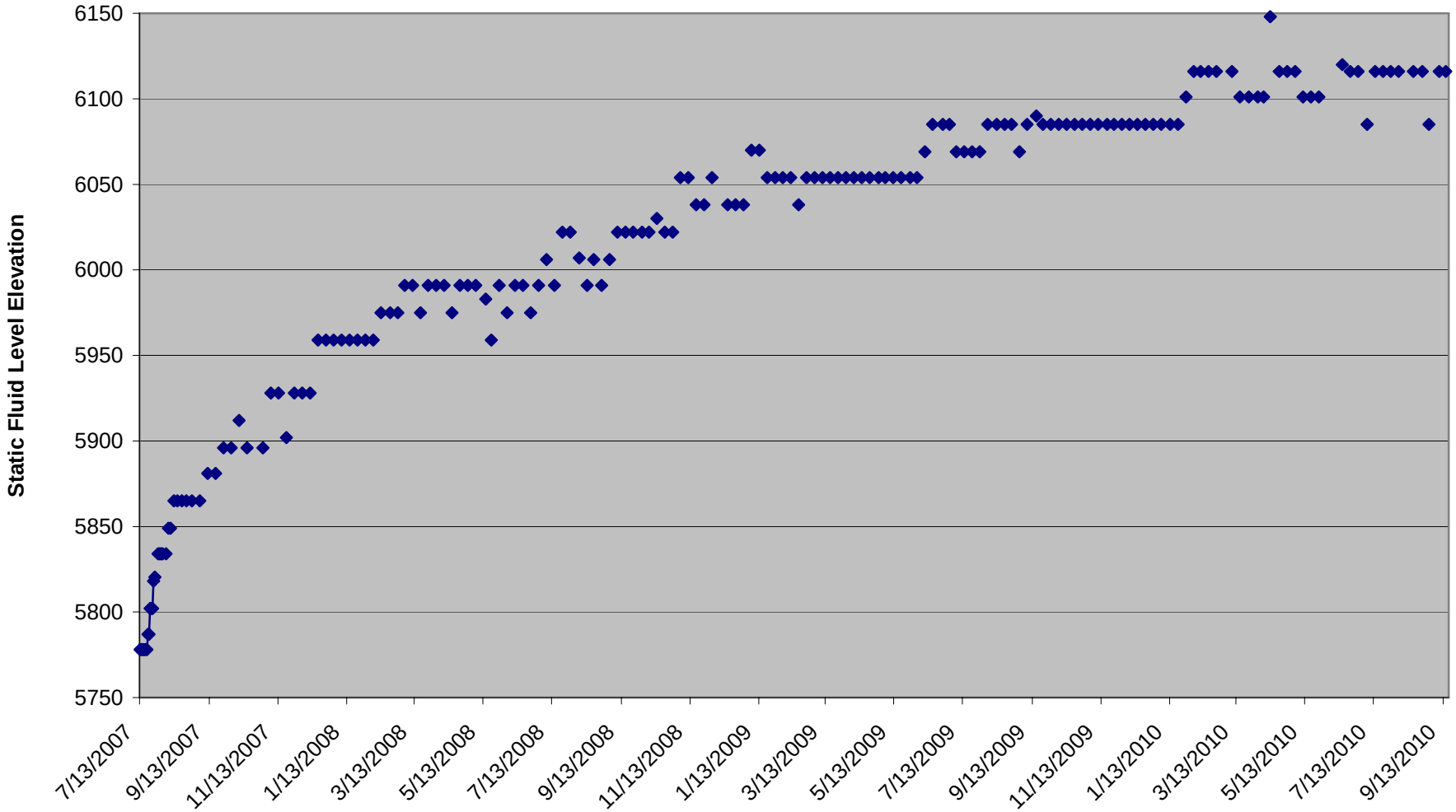
Rohr 04-10
7/13/07 thru 9/15/10
Wells shut down 7/20/07



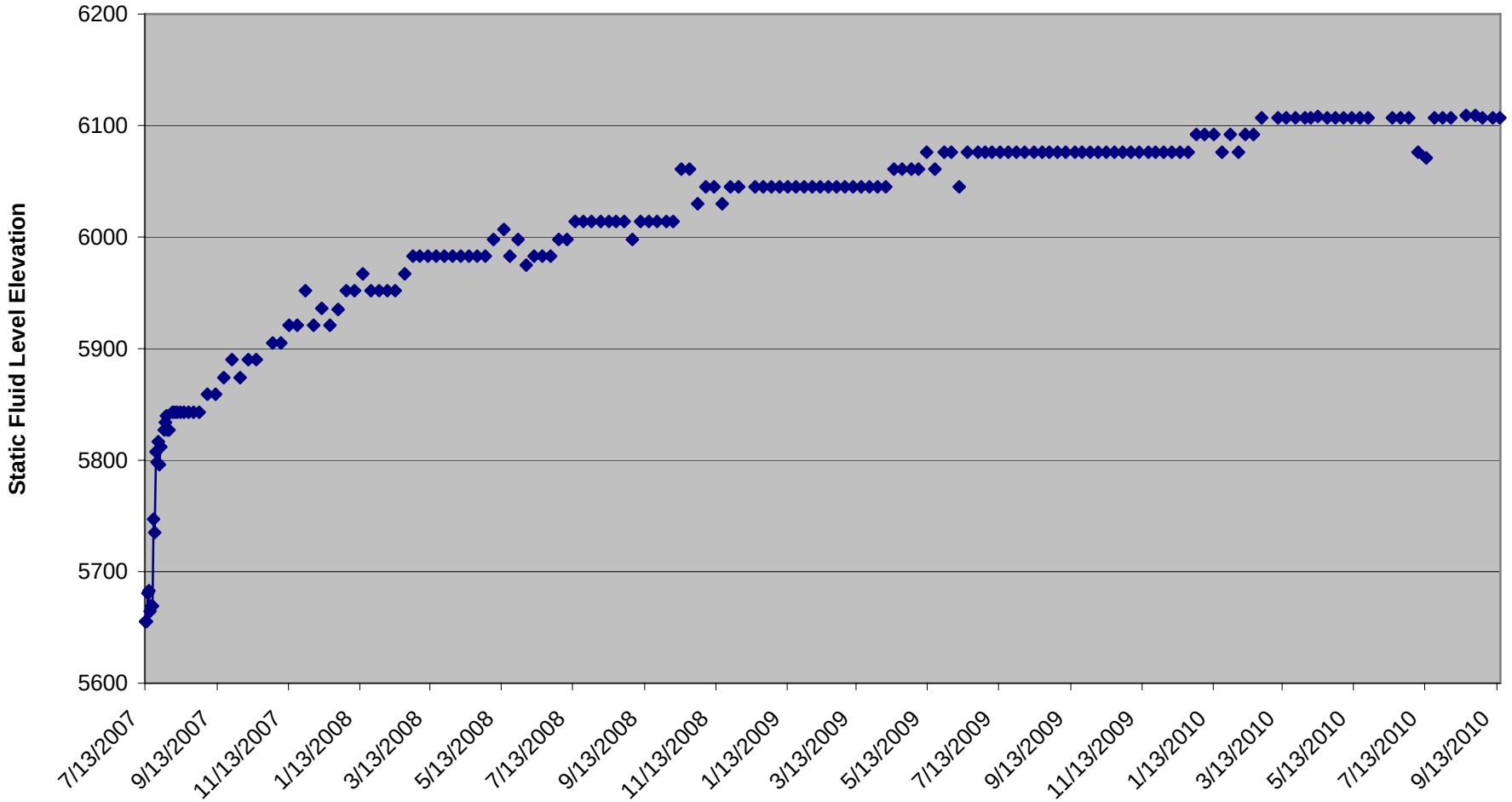
Rohr 09-10
7/13/07 thru 9/15/10
Wells shut down 7/20/07



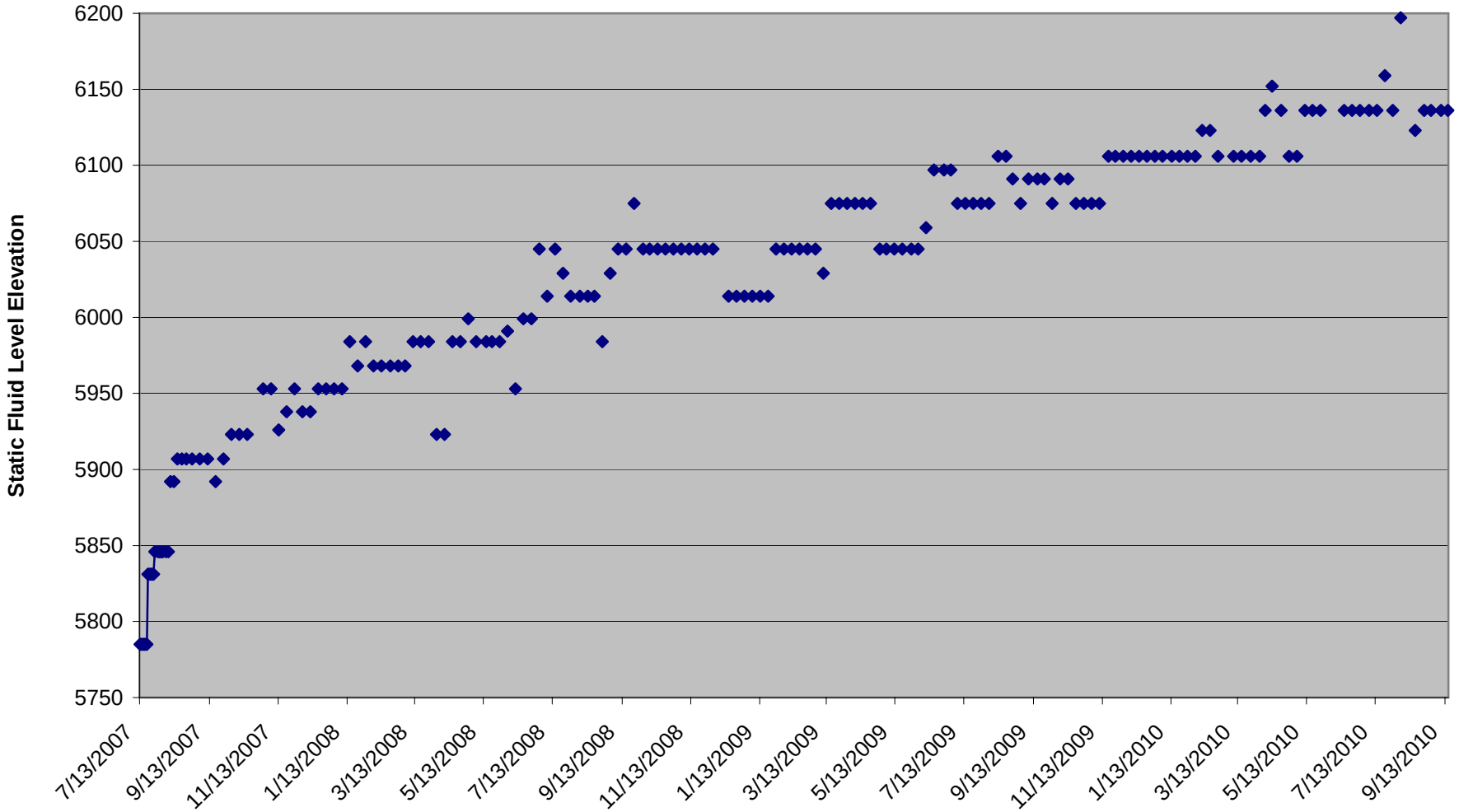
State 36-02
7/13/07 thru 9/15/10
Wells shut down 7/20/07



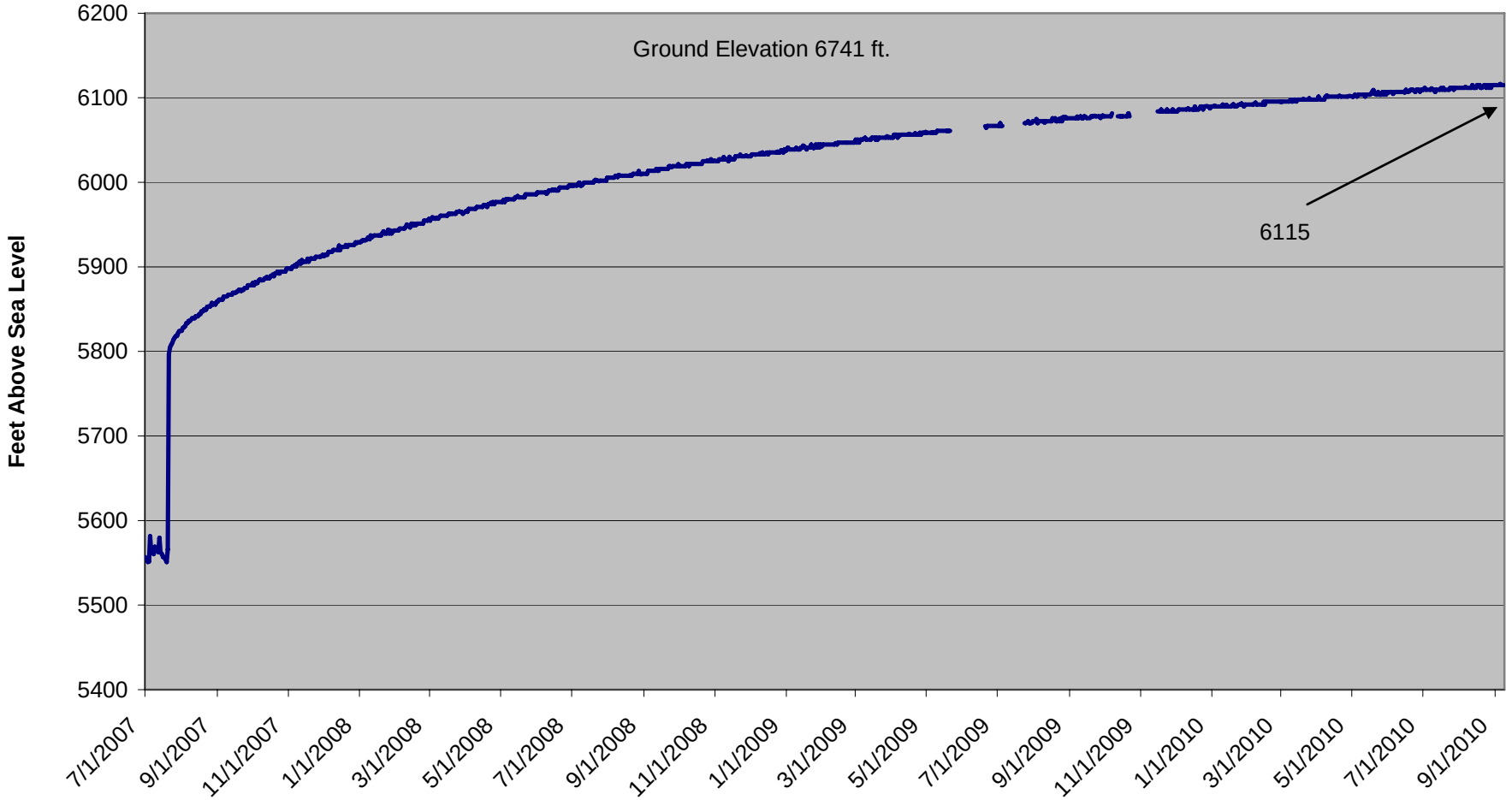
State 36-05
7/13/07 thru 9/15/10
Wells shut down 7/20/07



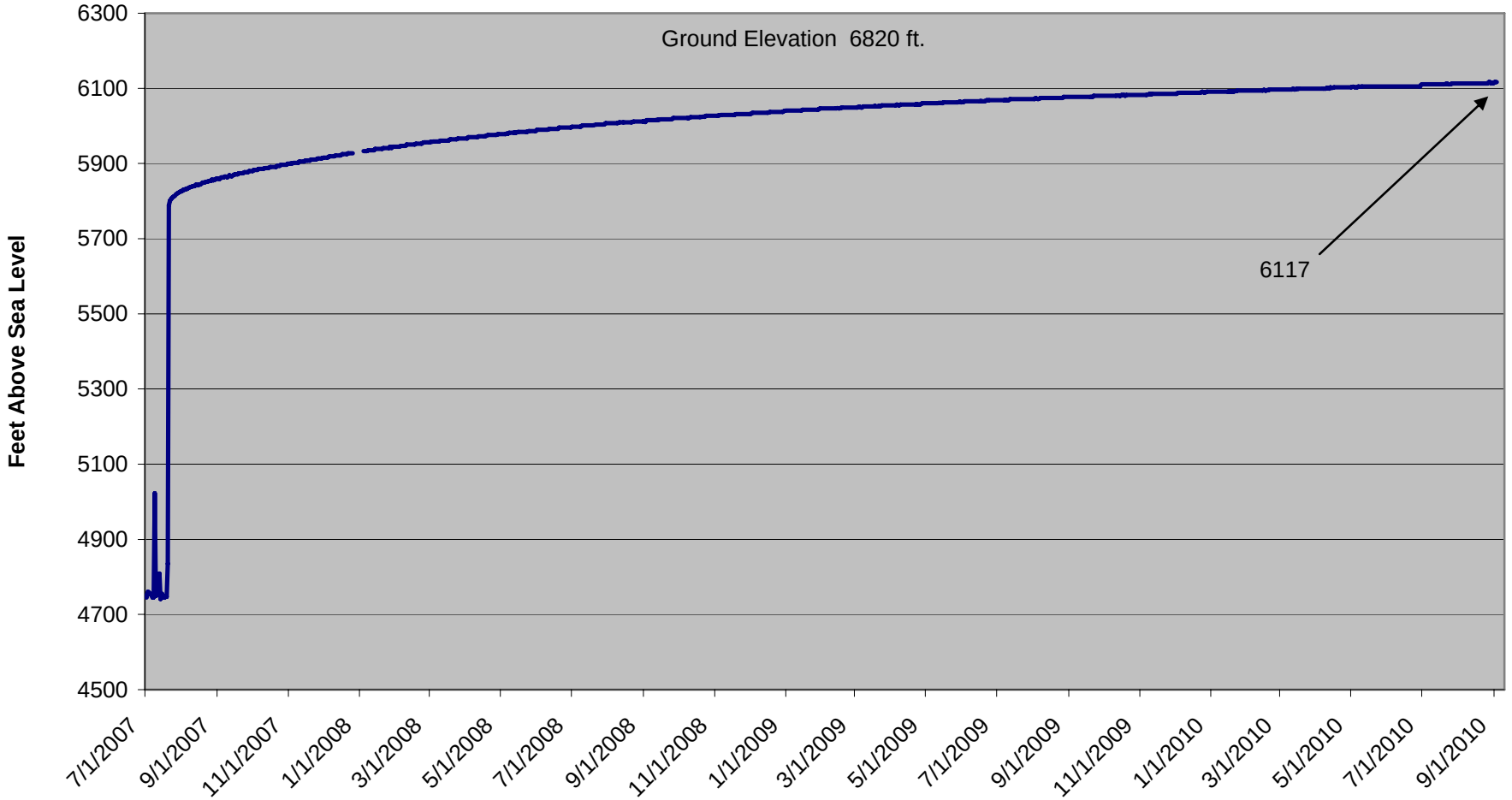
State 36-11
7/13/07 thru 9/15/10
Wells shut down 7/20/07



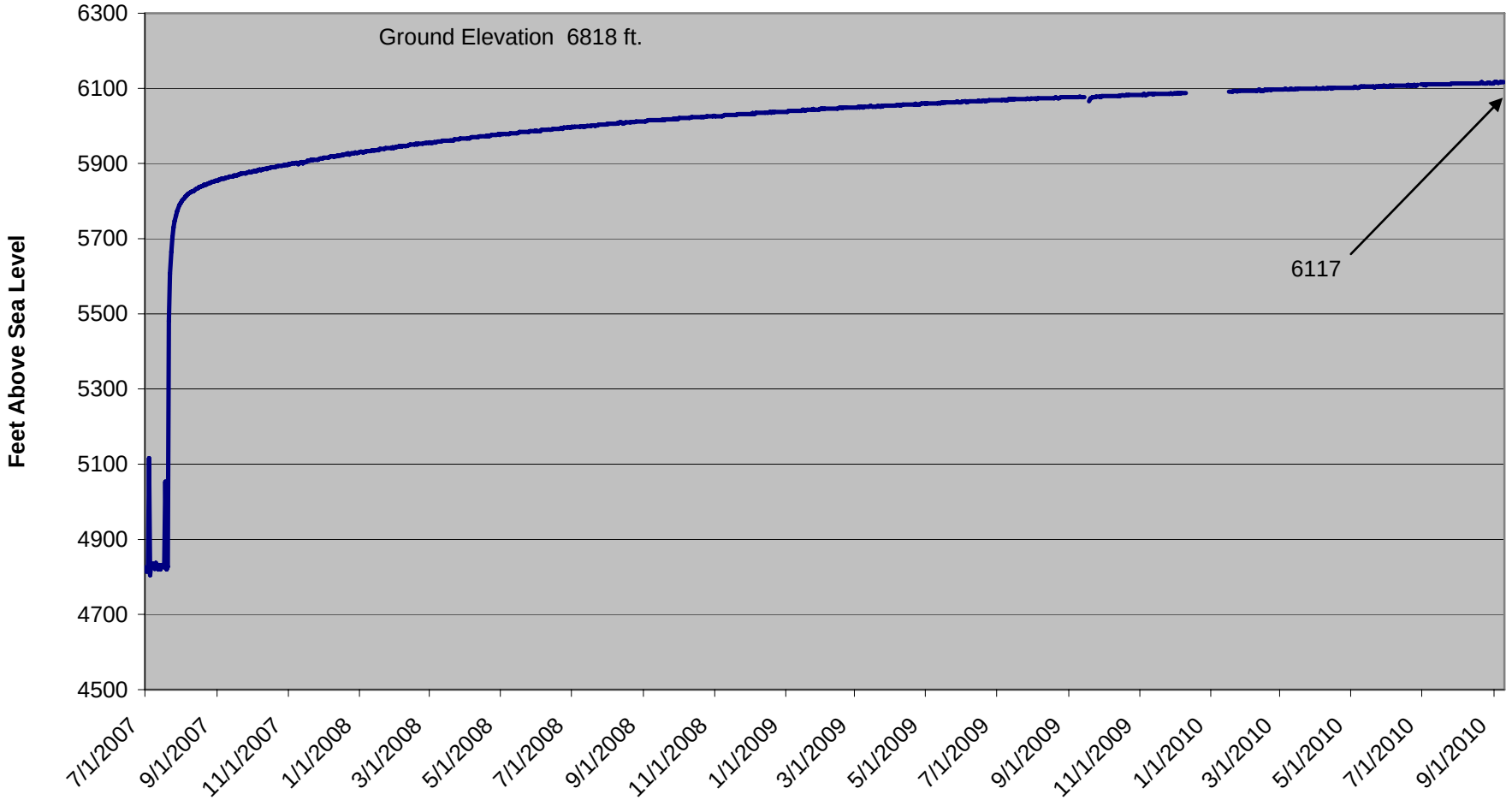
Rohr 04-14 CBM Well
Static Water Level
from 7/1/07 to 9/9/10
Well shut-in 7/20/07



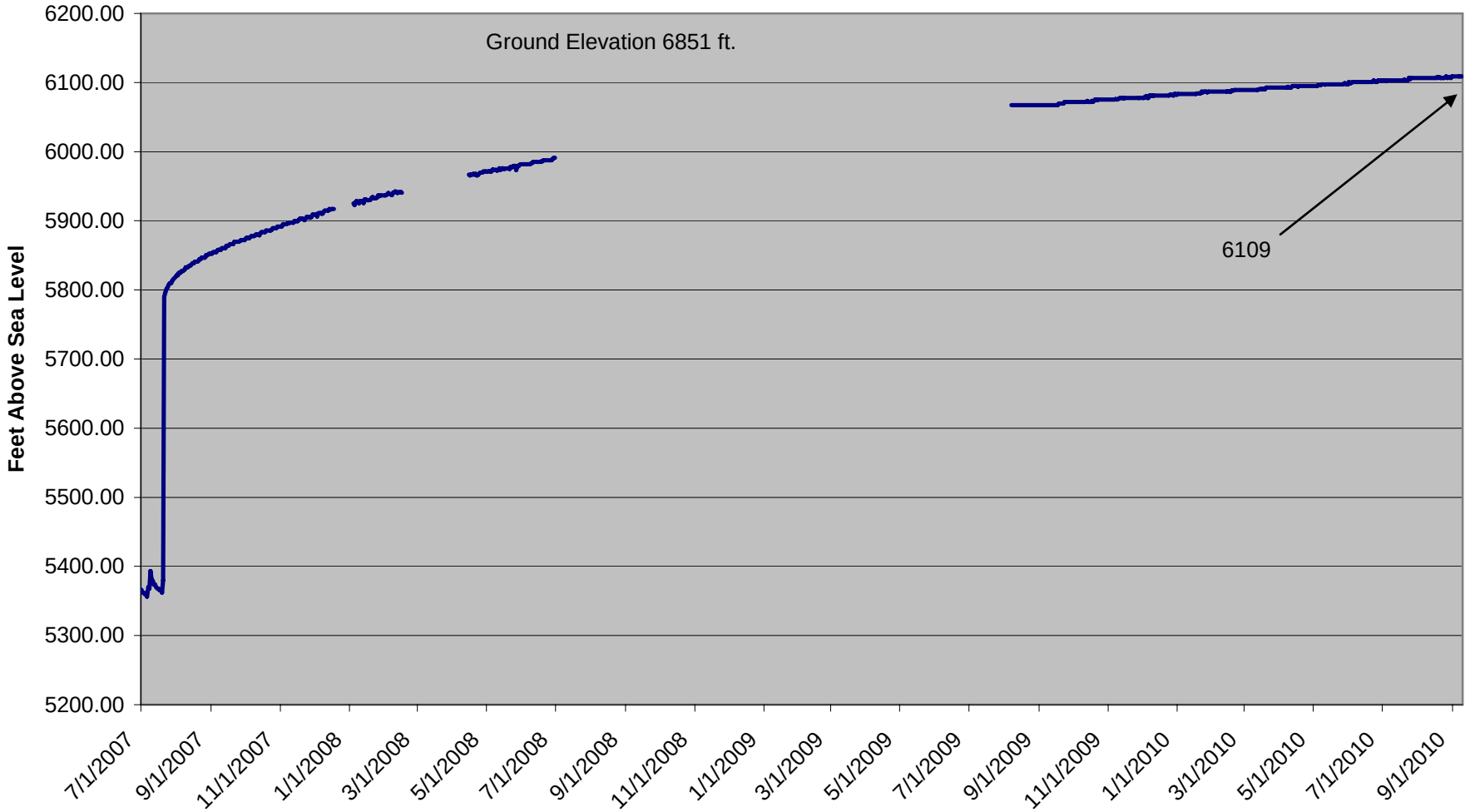
Rohr 08-01 CBM Well
Static Water Level
from 7/1/07 to 9/9/10
Well shut-in 7/20/07



Rohr 09-04 CBM Well
Static Water Level
from 7/1/07 to 9/9/10
Well shut-in 7/20/07

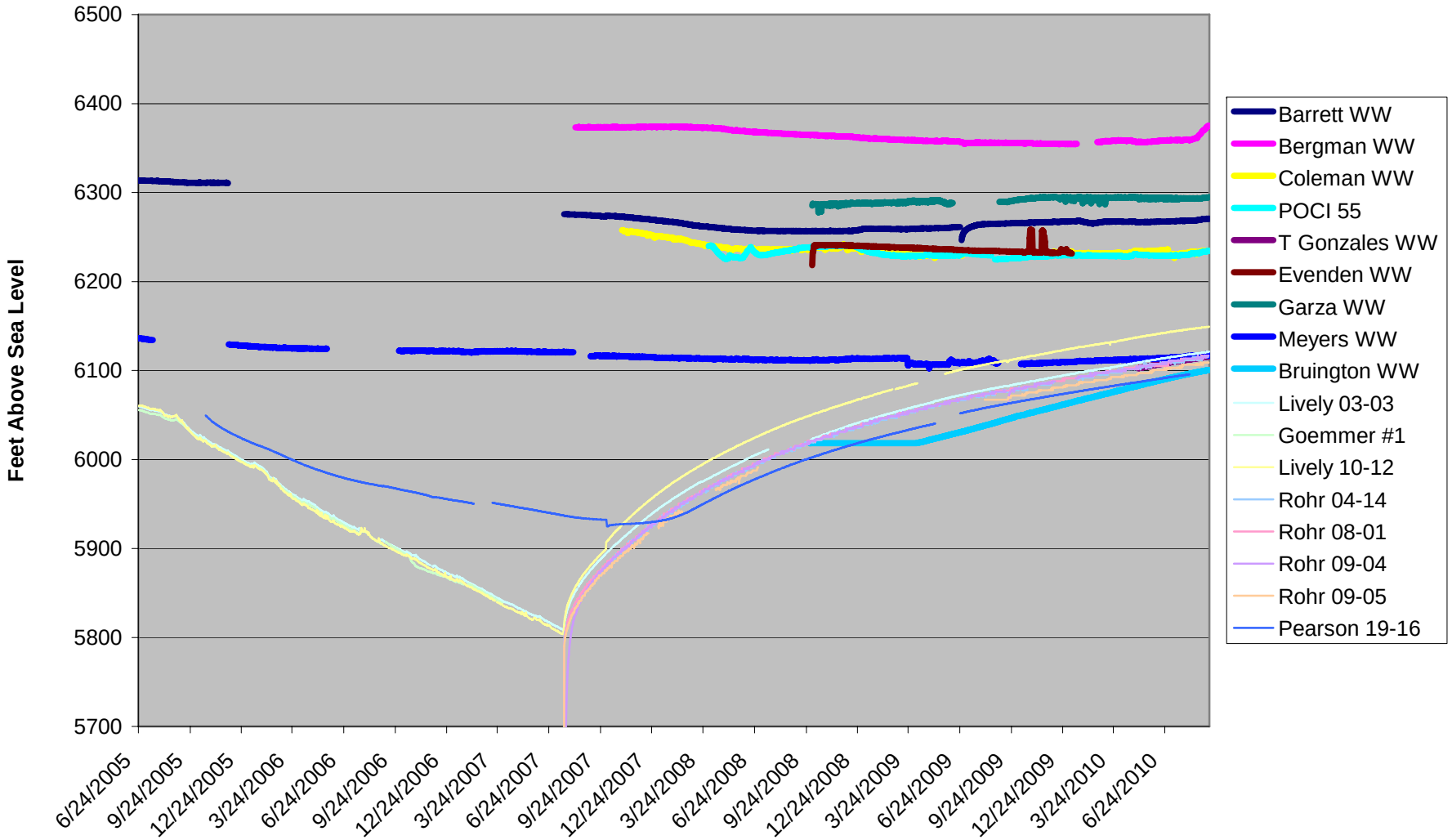


Rohr 09-05 CBM Well Static Water Level
from 7/1/07 to 9/9/10
Well shut-in 7/20/07



Attachment 4
Comparison of Fluid Levels in Production Wells and Private Wells

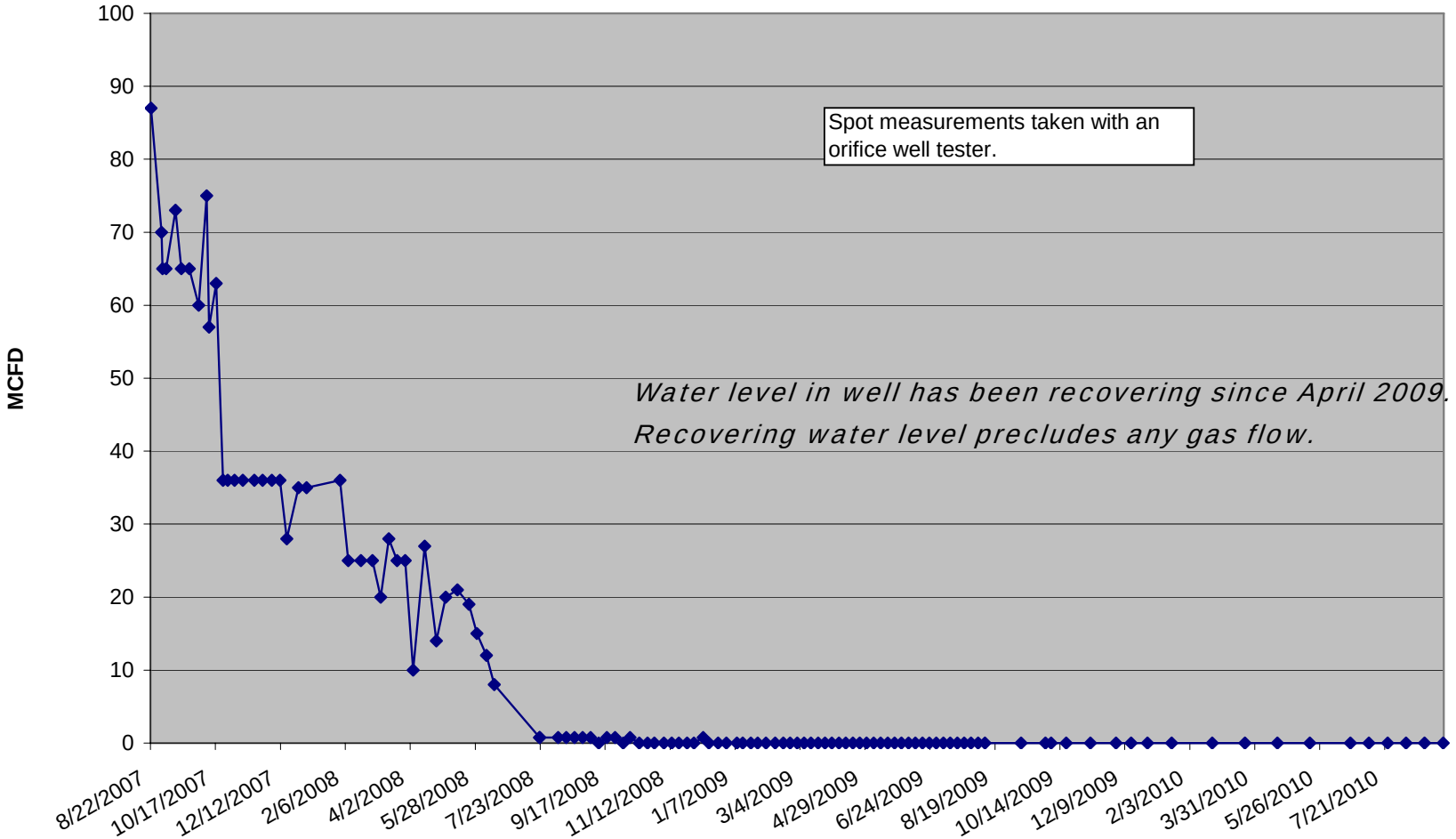
CBM and Domestic WW,
Water Levels from 6/24/05 to 9/10/10



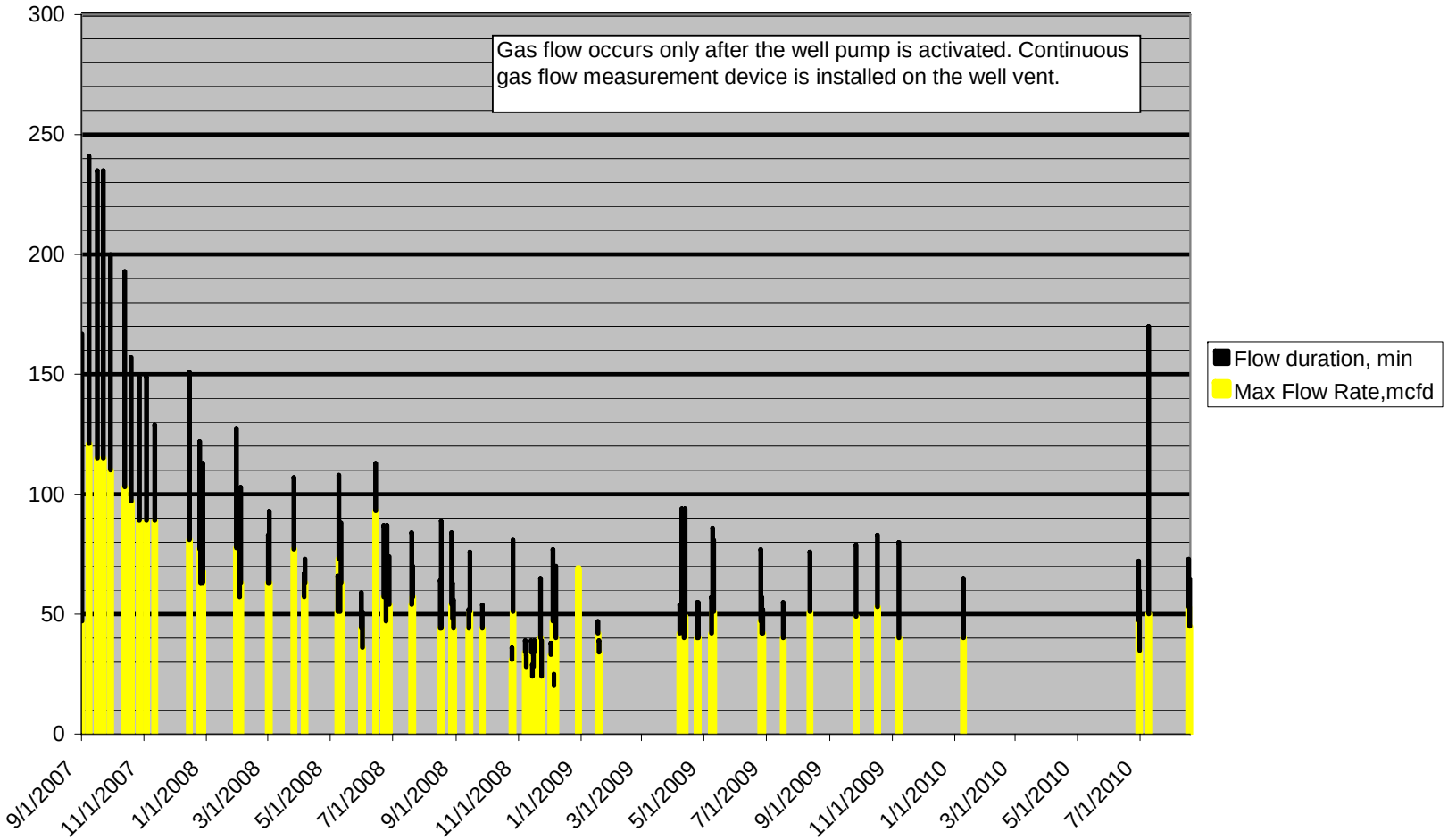
Summary of Production Well Water Levels and Private Well Water Levels						
Well Name	**Permit or API #**	**Ground Elevation (ft above mean sea level)**	**Depth of Pressure Sensor (ft)**	**Formation**	**General Location**	**Well Status**
Barrett	257994	6707	750	Poison Canyon	In mitigation ring	non-active domestic well
Bergman	244403	6690	400	Poison Canyon	In mitigation ring	non-active domestic well
Coleman	267694	6848	823	Poison Canyon	In mitigation ring	active domestic well
Meyers	248862	6575	600	Raton	Outside 1 mile radius of mitigation ring	non-active domestic well
POCI 55	275819	6690	595	Poison Canyon	In mitigation ring	monitor well
Bruington	210526	6335	320	Vermejo	City Ranch near outcrop	non-active domestic well
Evenden	221465	6712	514	Vermejo-Trinidad	Silver Spurs Ranch near outcrop	active domestic well
Garza	206886	6536	288	Trinidad	Silver Spurs Ranch near outcrop	active domestic well
Lively 03-03	222539	6647	995	Trinidad	Within 1 mile radius of mitigation ring	Exploratory O&G well converted to water well (non-active)
Lively 10-12	55-06150	6825	1480	Vermejo	In mitigation ring	CBM monitor well
Goemmer #1	16861-F	6826	995	Trinidad	In mitigation ring	Exploratory O&G well converted to water well (non-active)
Rohr 04-14	55-06291	6741	2186	Vermejo-Trinidad	Within 1 mile radius of mitigation ring	Shut-in CBM well
Rohr 08-01	55-06292	6820	2365	Vermejo-Trinidad	Within 1 mile radius of mitigation ring	Shut-in CBM well
Rohr 09-04	55-06290	6818	2273	Vermejo-Trinidad	Within 1 mile radius of mitigation ring	Shut-in CBM well
Rohr 09-05	55-06289	6851	2285	Vermejo-Trinidad	Within 1 mile radius of mitigation ring	Shut-in CBM well
Pearson 19-16	55-06293	6557	1000	Vermejo	Outside 1 mile radius of mitigation ring	CBM monitor well

Attachment 5
Gas Flow Measurements at Bruington, Coleman, Angely, Bounds, and Smith

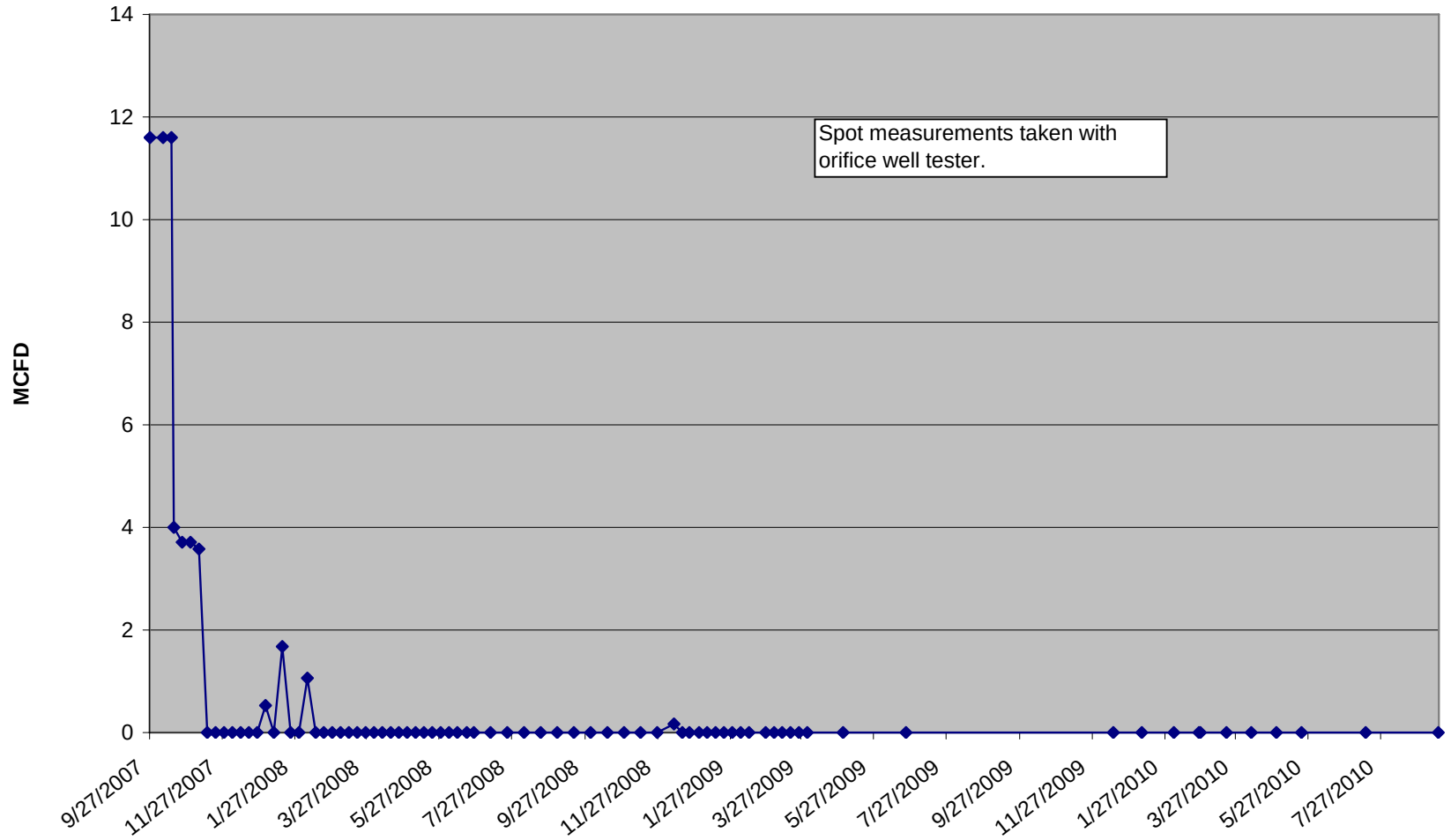
Bruington WW # 210526 Measured Gas Flow
from 8/22/07 to 9/9/10



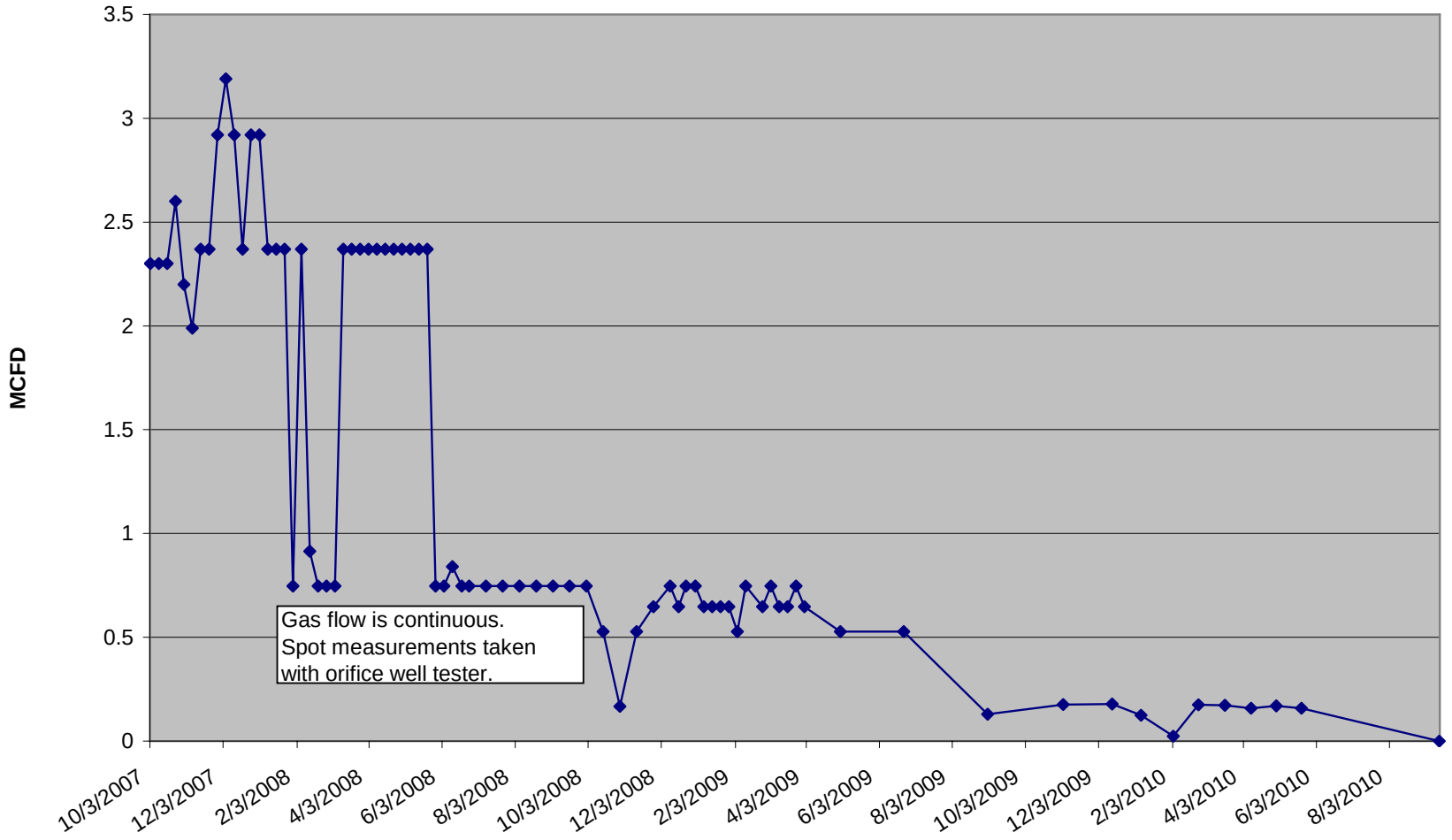
**Coleman WW #267294 Measured Gas Flow
from 9/1/07 to 8/18/10**



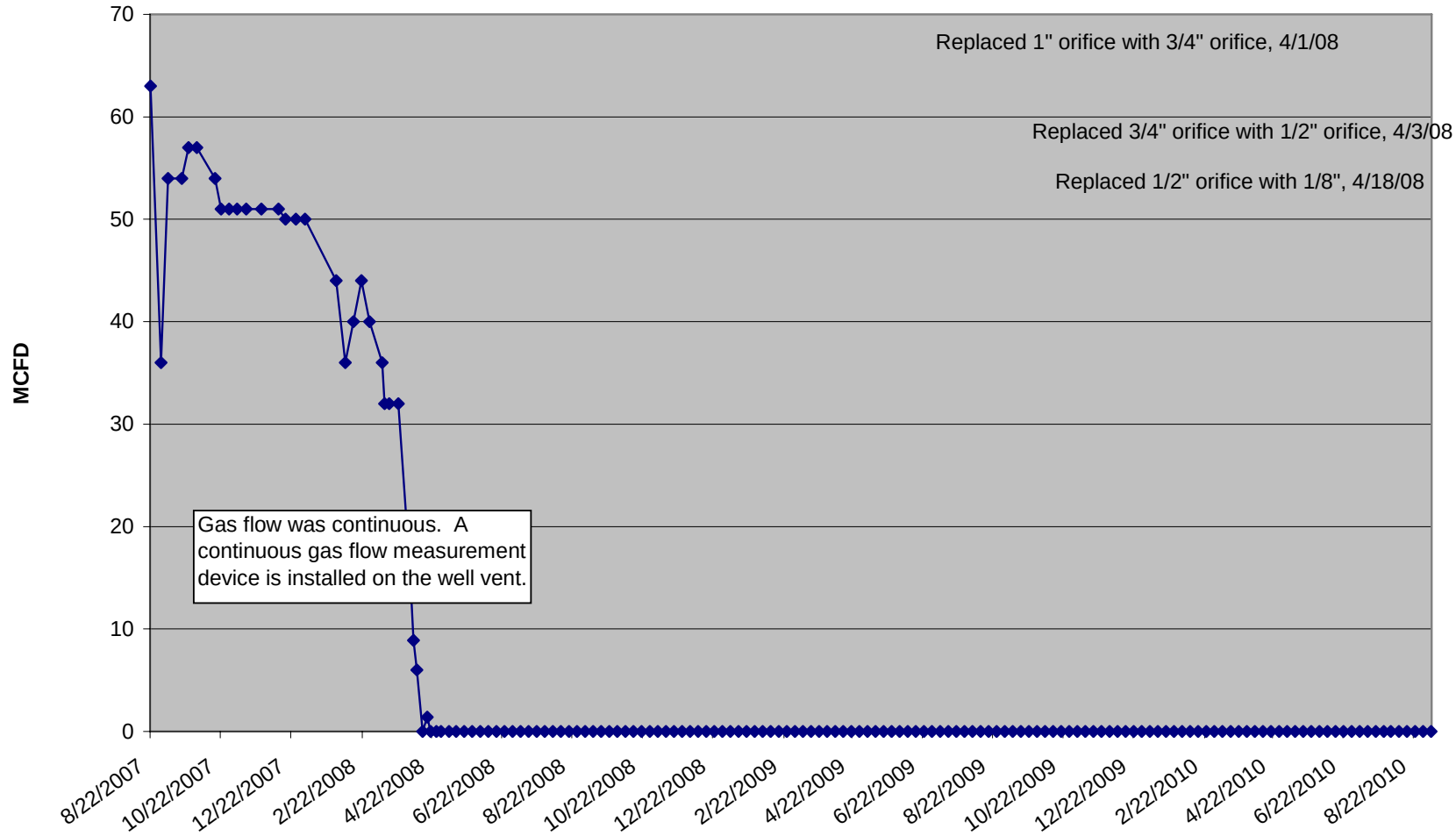
**Angely WW # 238689 Measured Gas Flow
from 9/27/07 to 9/13/10**



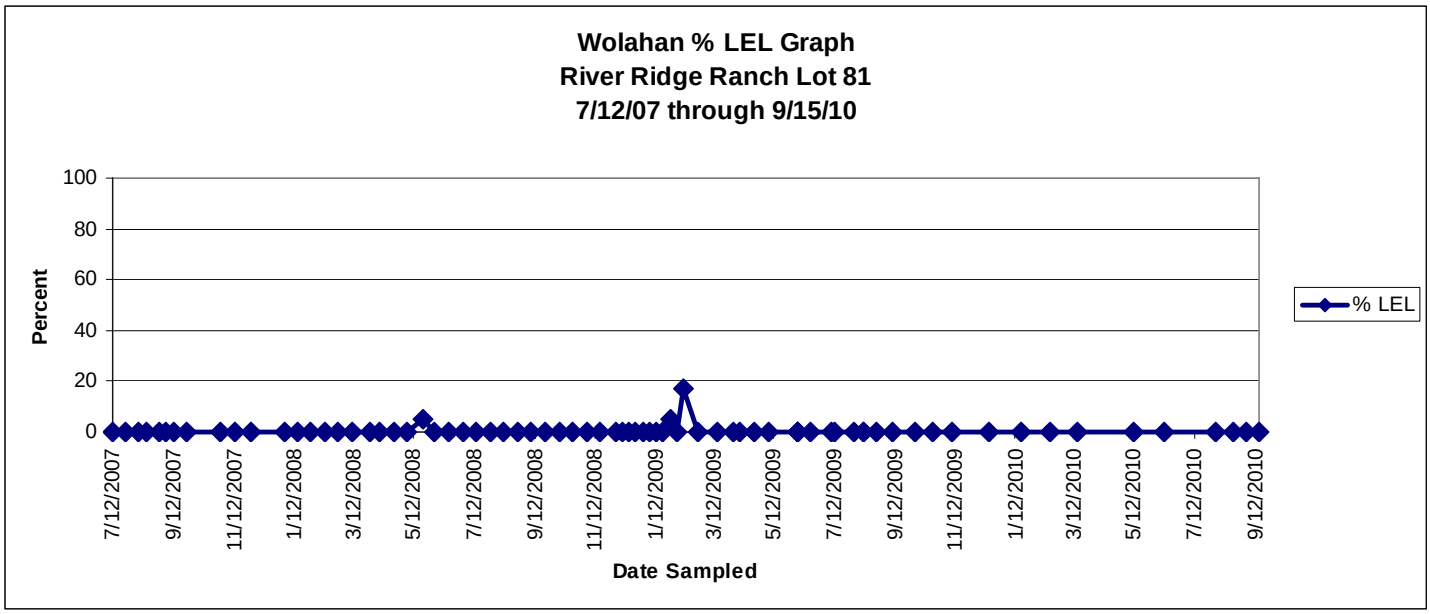
Bounds WW #181278 Measured Gas Flow
from 10/3/07 to 9/13/10

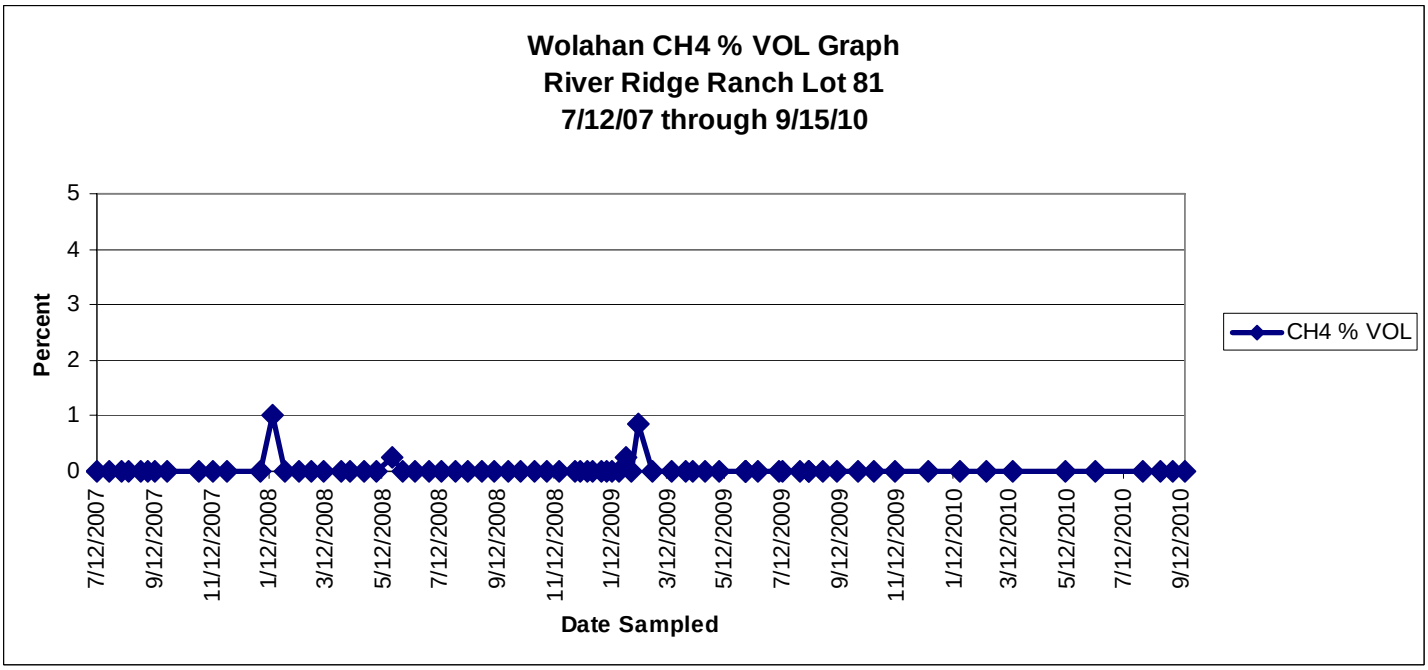


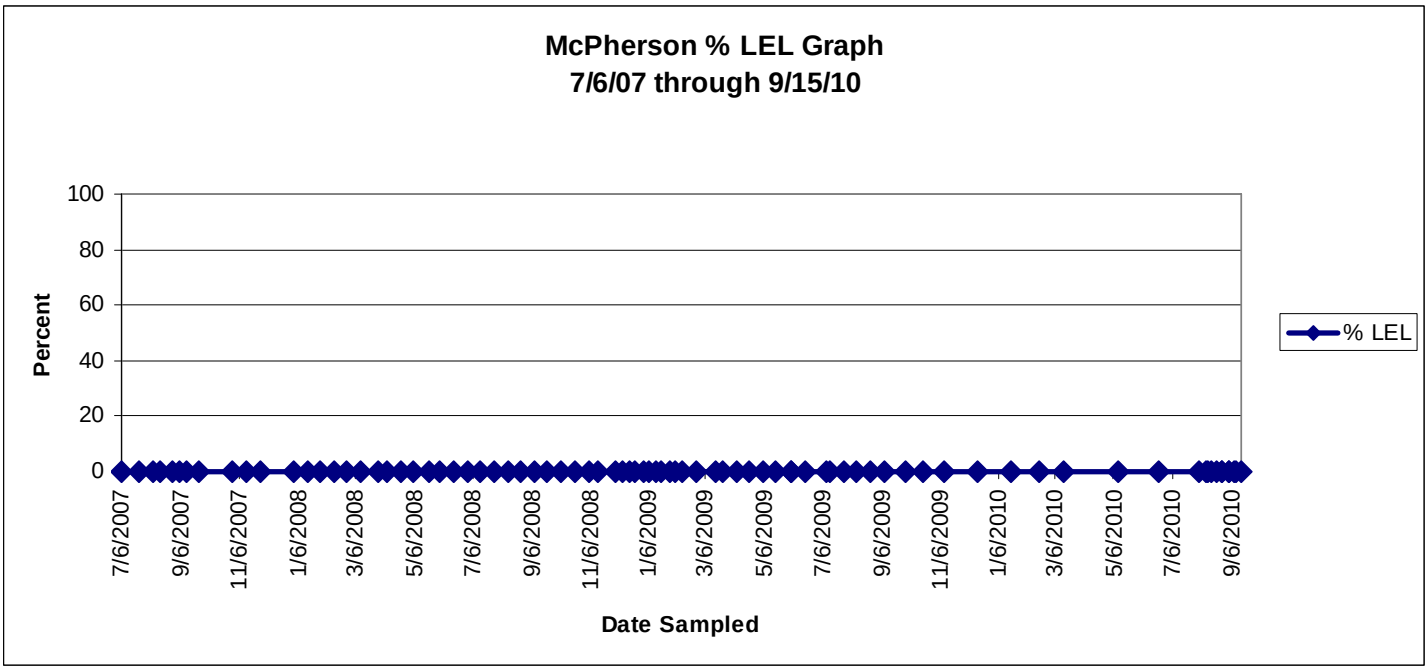
**Smith WW # 239657 Measured Gas Flow
from 8/22/07 to 9/6/10**

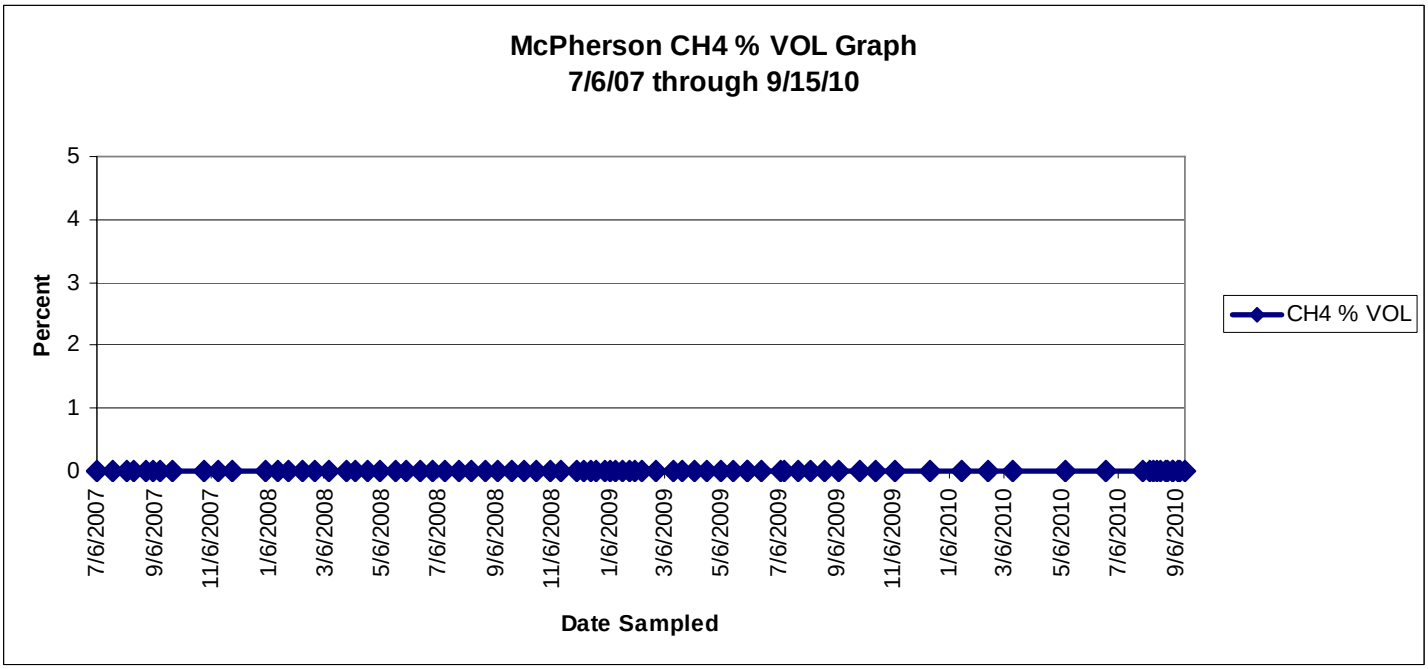


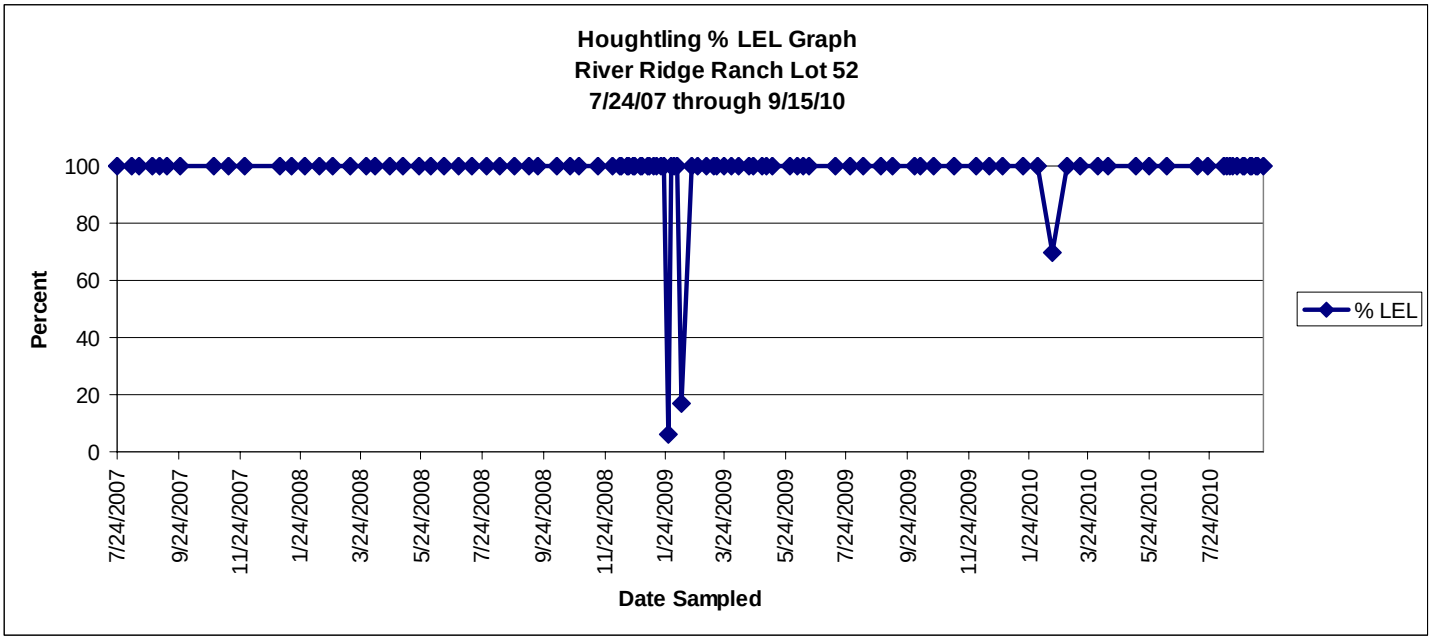
Attachment 6
Gas Concentrations in
Private Water Wells near the Mitigation Project

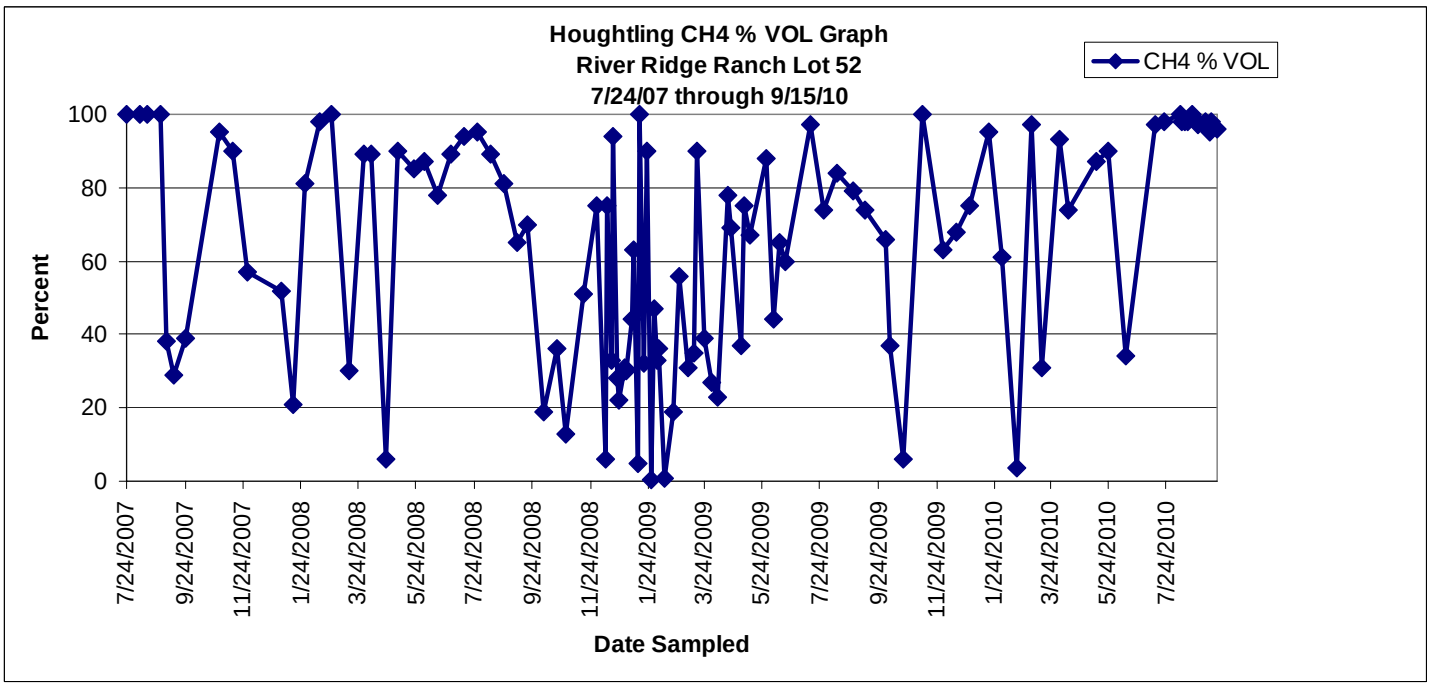

Wolahan % LEL Graph
River Ridge Ranch Lot 81
7/12/07 through 9/15/10
Percent
100
80
60
40
20
0
7/12/2007
9/12/2007
11/12/2007
1/12/2008
3/12/2008
5/12/2008
7/12/2008
9/12/2008
11/12/2008
1/12/2009
3/12/2009
5/12/2009
7/12/2009
9/12/2009
11/12/2009
1/12/2010
3/12/2010
5/12/2010
7/12/2010
9/12/2010
Date Sampled
% LEL

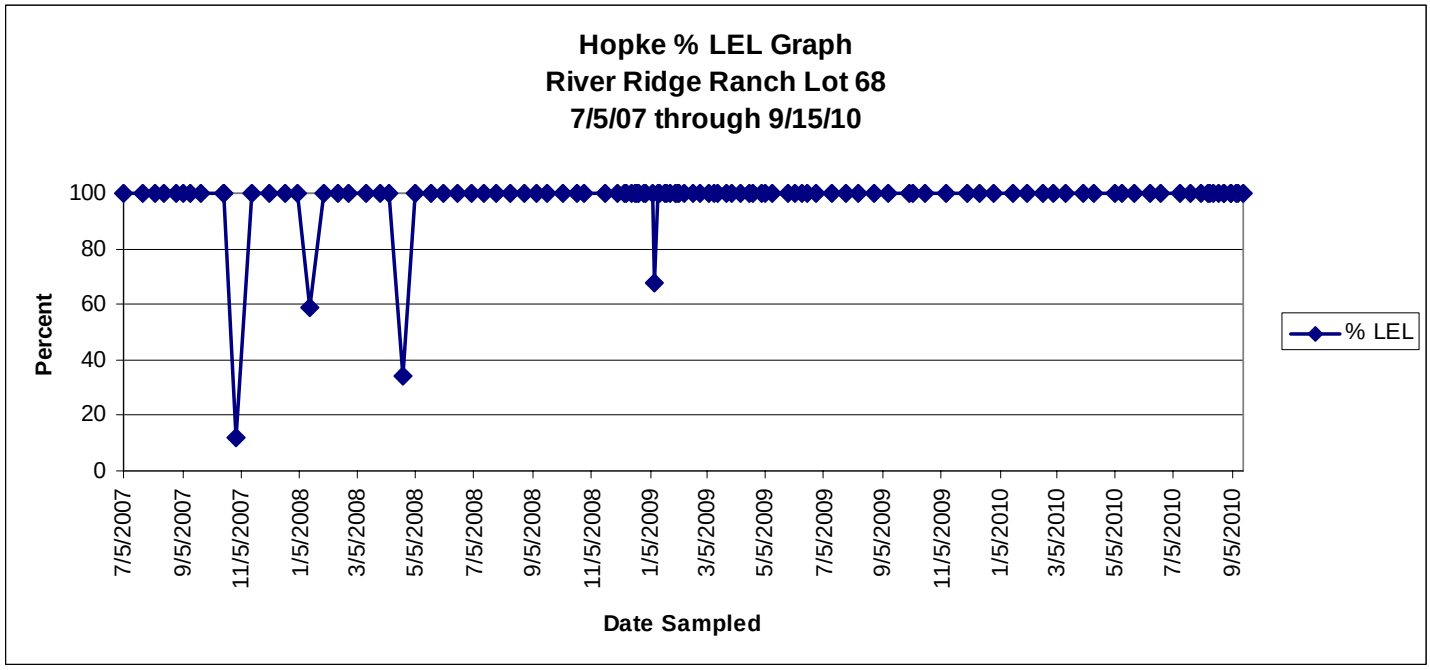

Wolahan CH4 % VOL Graph
River Ridge Ranch Lot 81
7/12/07 through 9/15/10
Percent
5
4
3
2
1
0
7/12/2007
9/12/2007
11/12/2007
1/12/2008
3/12/2008
5/12/2008
7/12/2008
9/12/2008
11/12/2008
1/12/2009
3/12/2009
5/12/2009
7/12/2009
9/12/2009
11/12/2009
1/12/2010
3/12/2010
5/12/2010
7/12/2010
9/12/2010
Date Sampled
CH4 % VOL

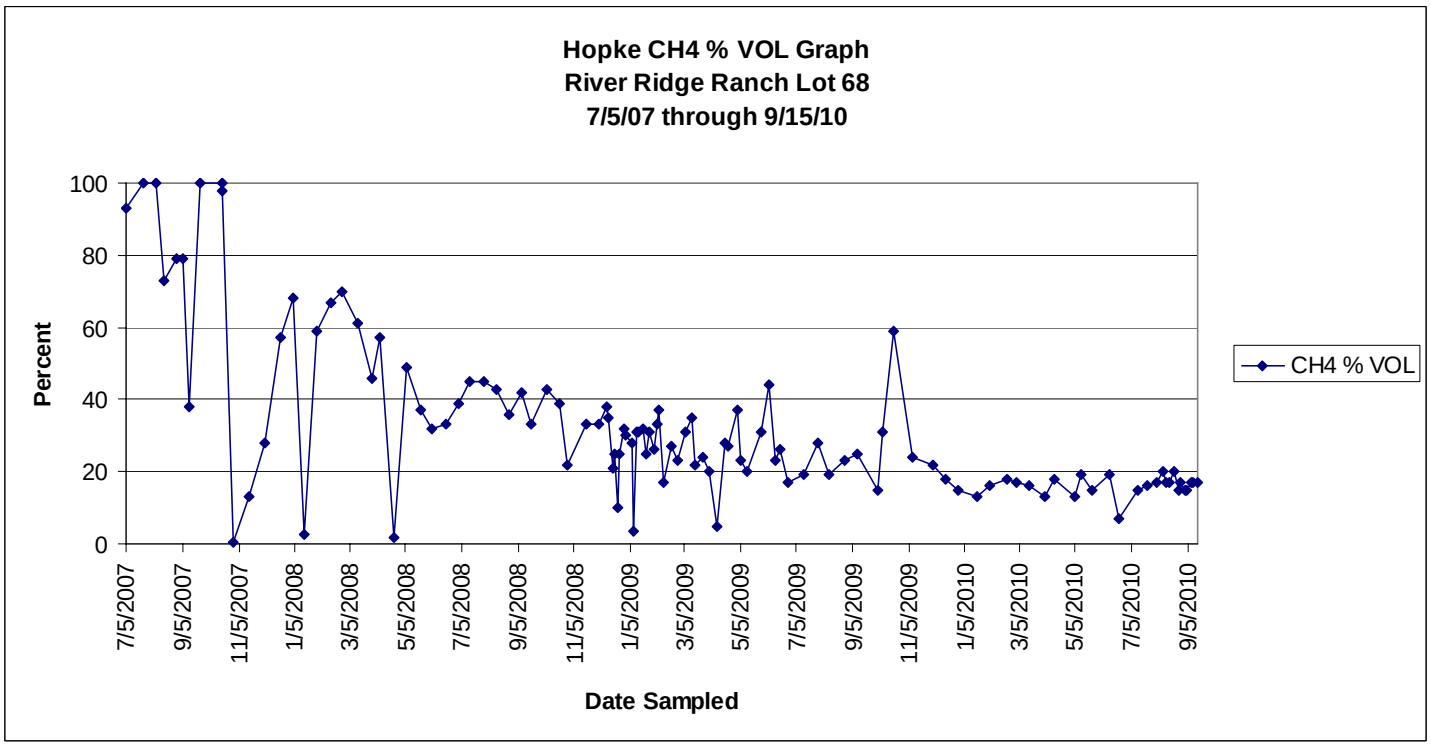

McPherson % LEL Graph
7/6/07 through 9/15/10
Percent
100
80
60
40
20
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
11/6/2009
1/6/2010
3/6/2010
5/6/2010
7/6/2010
9/6/2010
Date Sampled
% LEL

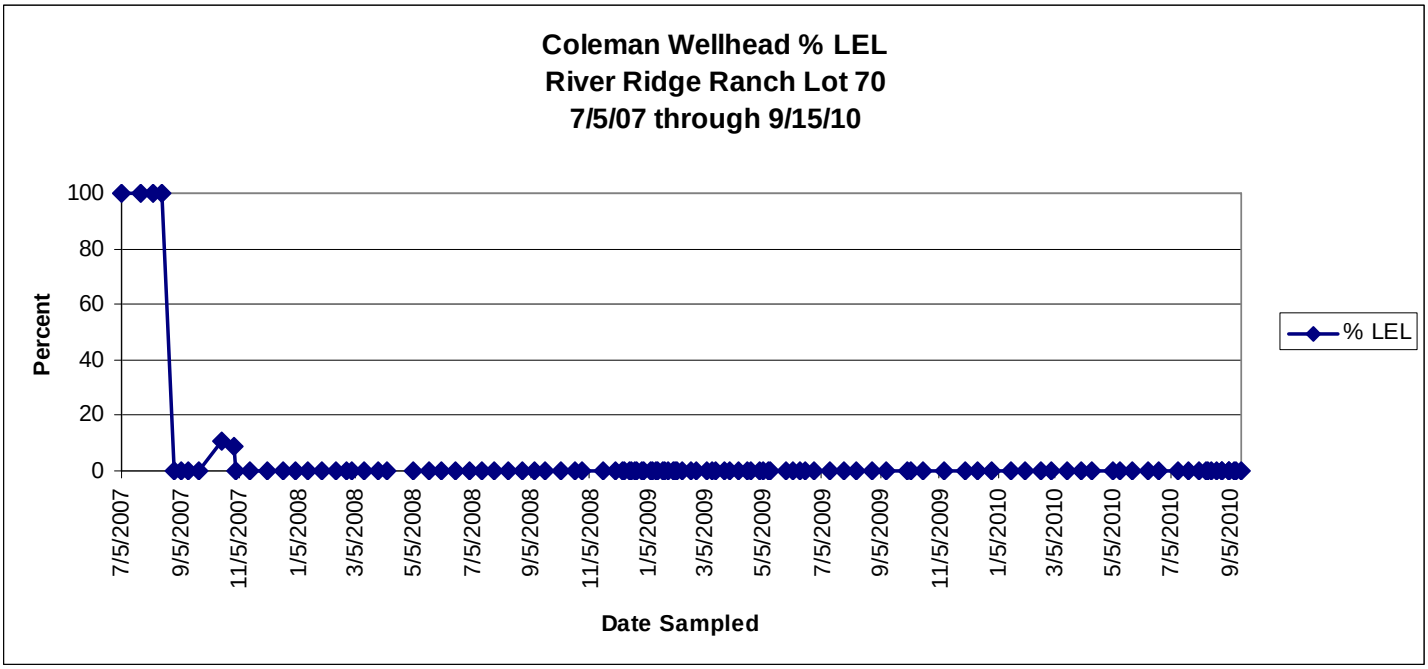

McPherson CH4 % VOL Graph
7/6/07 through 9/15/10
Percent
5
4
3
2
1
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
11/6/2009
1/6/2010
3/6/2010
5/6/2010
7/6/2010
9/6/2010
Date Sampled
CH4 % VOL

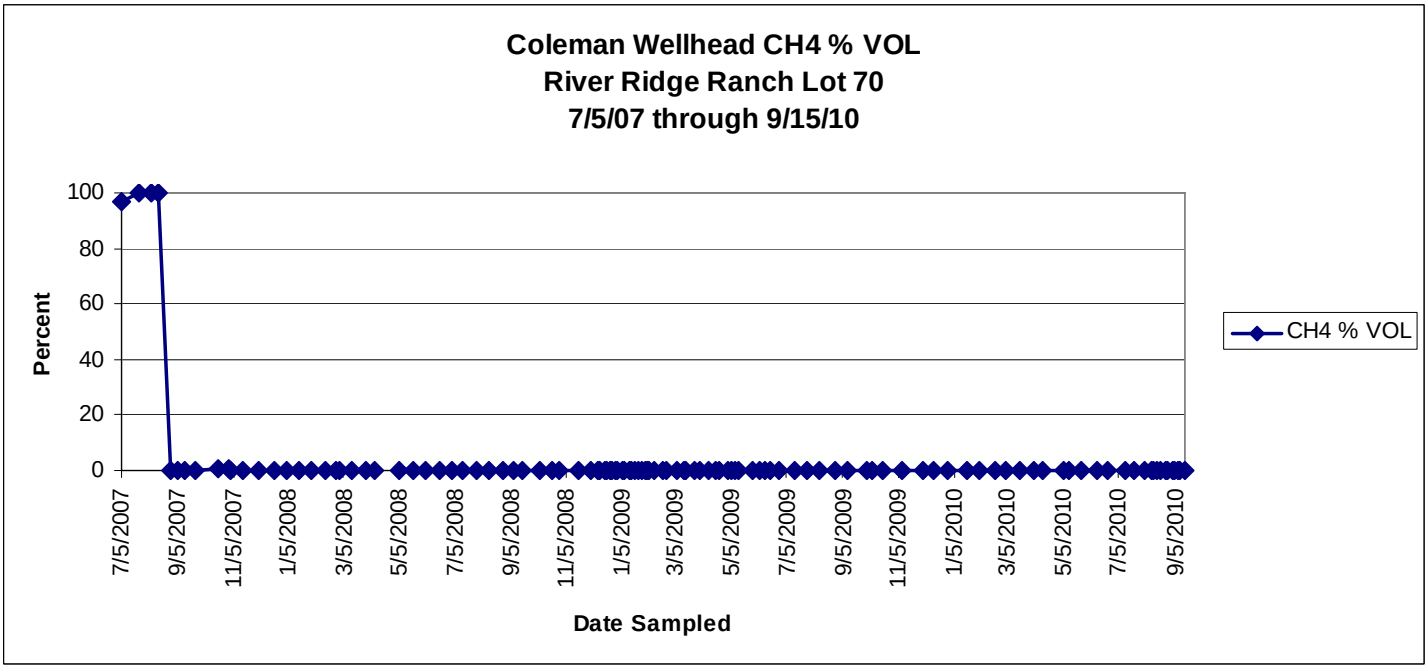

Houghtling % LEL Graph
River Ridge Ranch Lot 52
7/24/07 through 9/15/10
Percent
100
80
60
40
20
0
7/24/2007
9/24/2007
11/24/2007
1/24/2008
3/24/2008
5/24/2008
7/24/2008
9/24/2008
11/24/2008
1/24/2009
3/24/2009
5/24/2009
7/24/2009
9/24/2009
11/24/2009
1/24/2010
3/24/2010
5/24/2010
7/24/2010
Date Sampled
% LEL

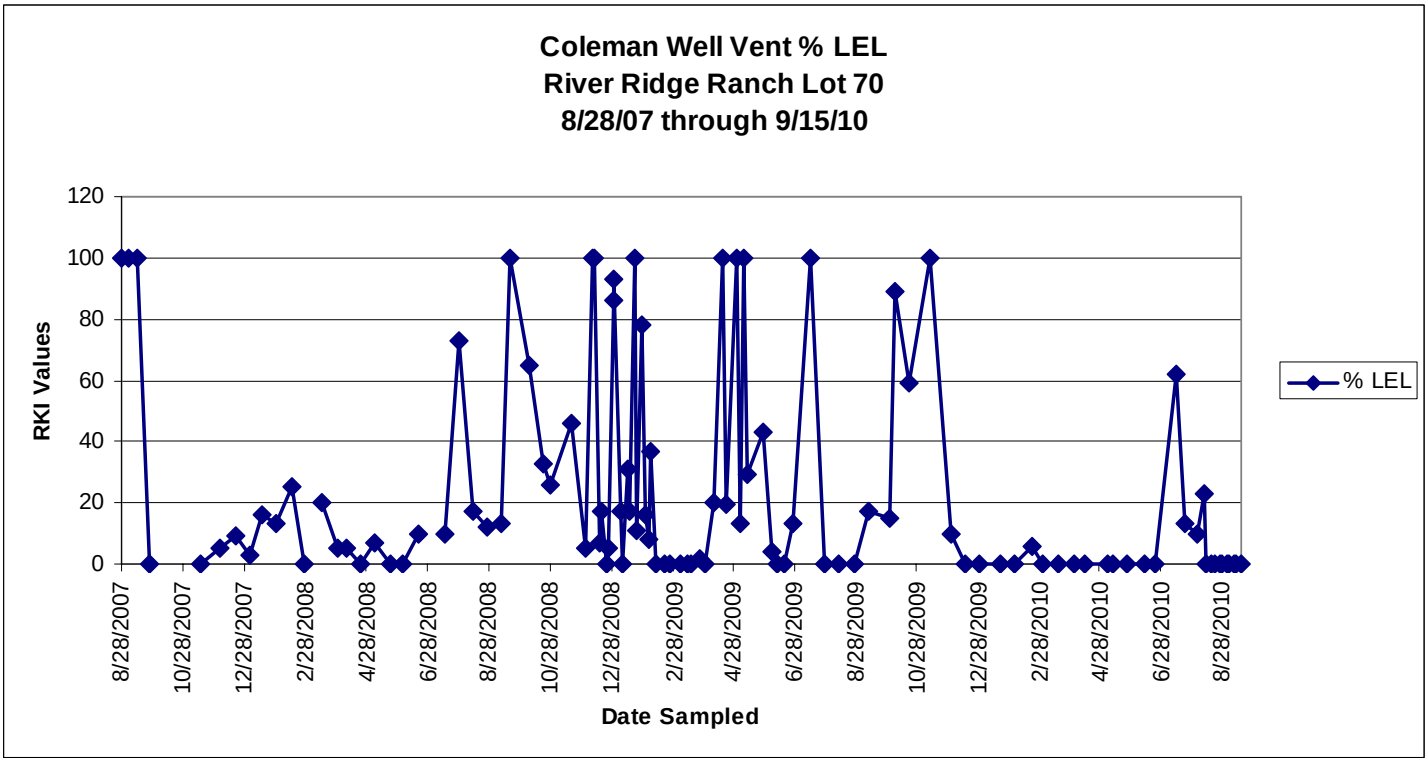

Houghtling CH4 % VOL Graph
River Ridge Ranch Lot 52
7/24/07 through 9/15/10
CH4 % VOL
Percent
100
80
60
40
20
0
7/24/2007
9/24/2007
11/24/2007
1/24/2008
3/24/2008
5/24/2008
7/24/2008
9/24/2008
11/24/2008
1/24/2009
3/24/2009
5/24/2009
7/24/2009
9/24/2009
11/24/2009
1/24/2010
3/24/2010
5/24/2010
7/24/2010
Date Sampled

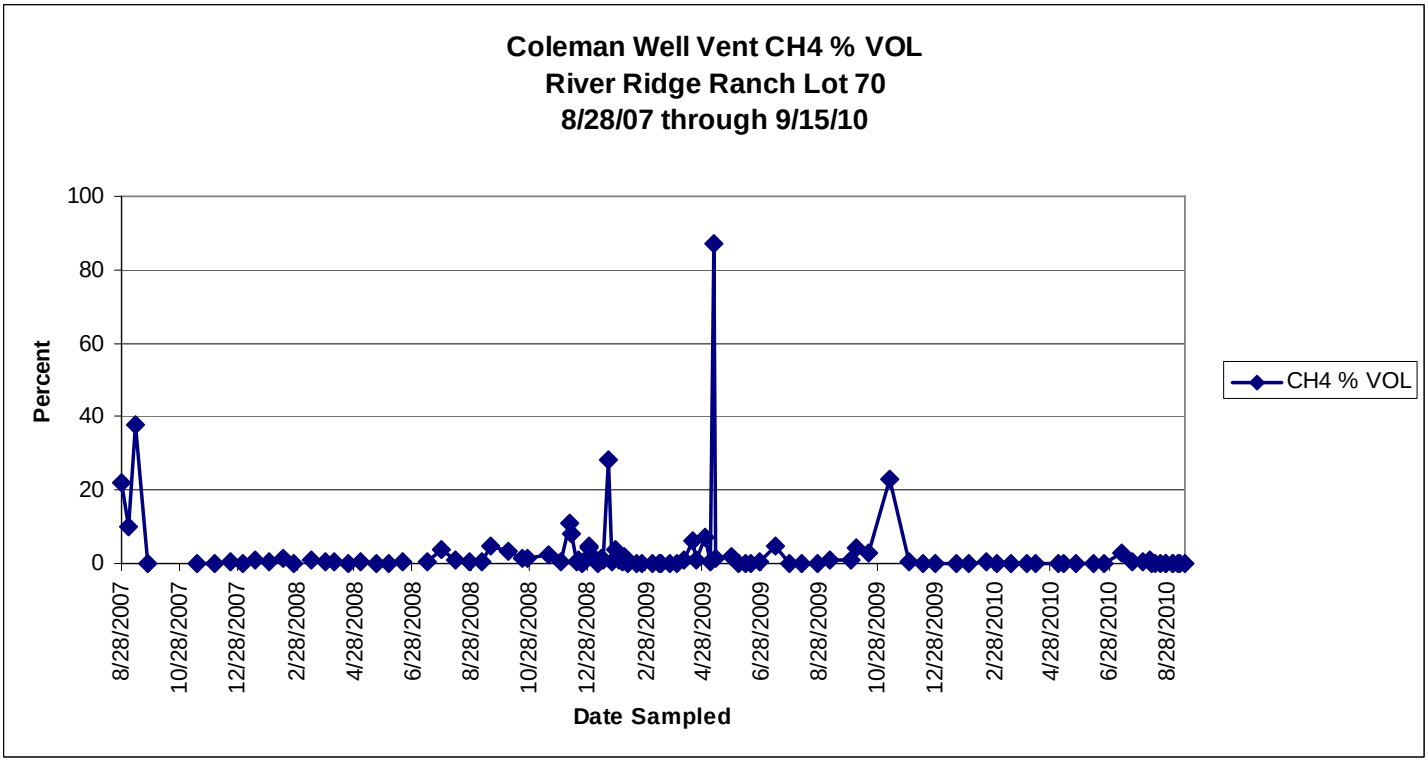

Hopke % LEL Graph
River Ridge Ranch Lot 68
7/5/07 through 9/15/10
Percent
100
80
60
40
20
0
7/5/2007
9/5/2007
11/5/2007
1/5/2008
3/5/2008
5/5/2008
7/5/2008
9/5/2008
11/5/2008
1/5/2009
3/5/2009
5/5/2009
7/5/2009
9/5/2009
11/5/2009
1/5/2010
3/5/2010
5/5/2010
7/5/2010
9/5/2010
Date Sampled
% LEL

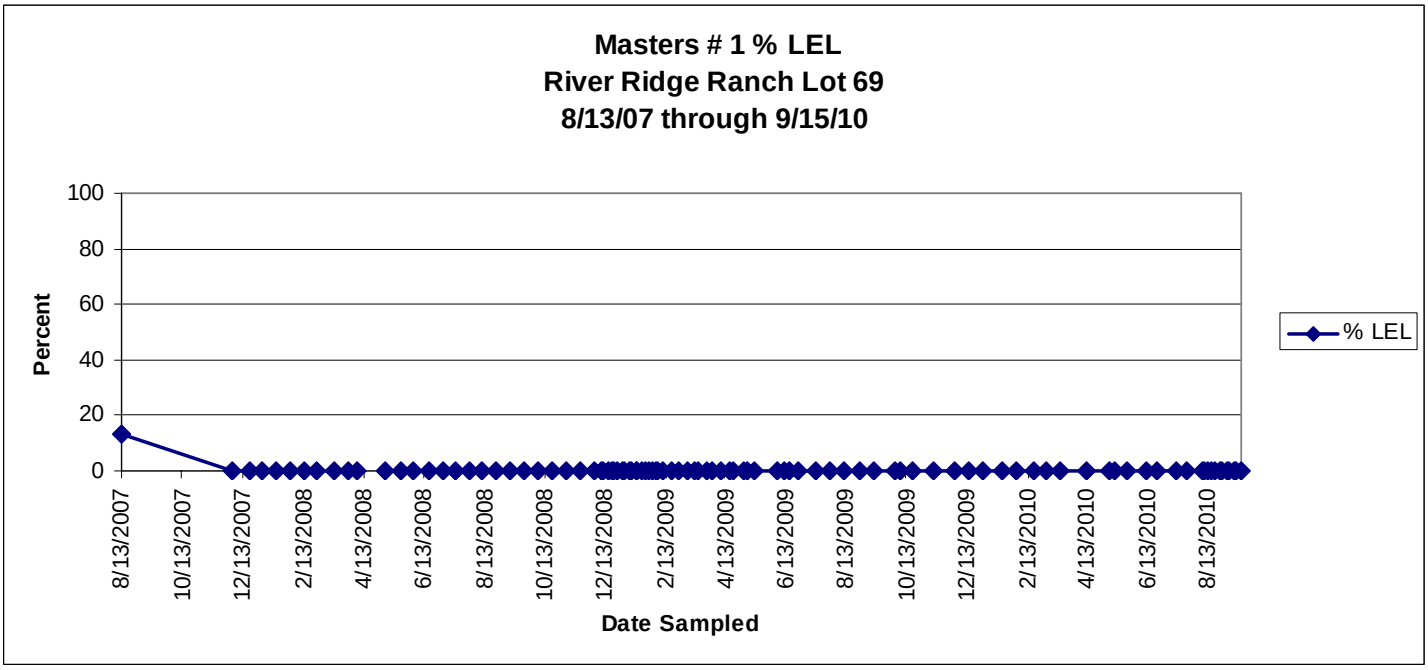

Hopke CH4 % VOL Graph
River Ridge Ranch Lot 68
7/5/07 through 9/15/10
Percent
100
80
60
40
20
0
7/5/2007
9/5/2007
11/5/2007
1/5/2008
3/5/2008
5/5/2008
7/5/2008
9/5/2008
11/5/2008
1/5/2009
3/5/2009
5/5/2009
7/5/2009
9/5/2009
11/5/2009
1/5/2010
3/5/2010
5/5/2010
7/5/2010
9/5/2010
Date Sampled
CH4 % VOL

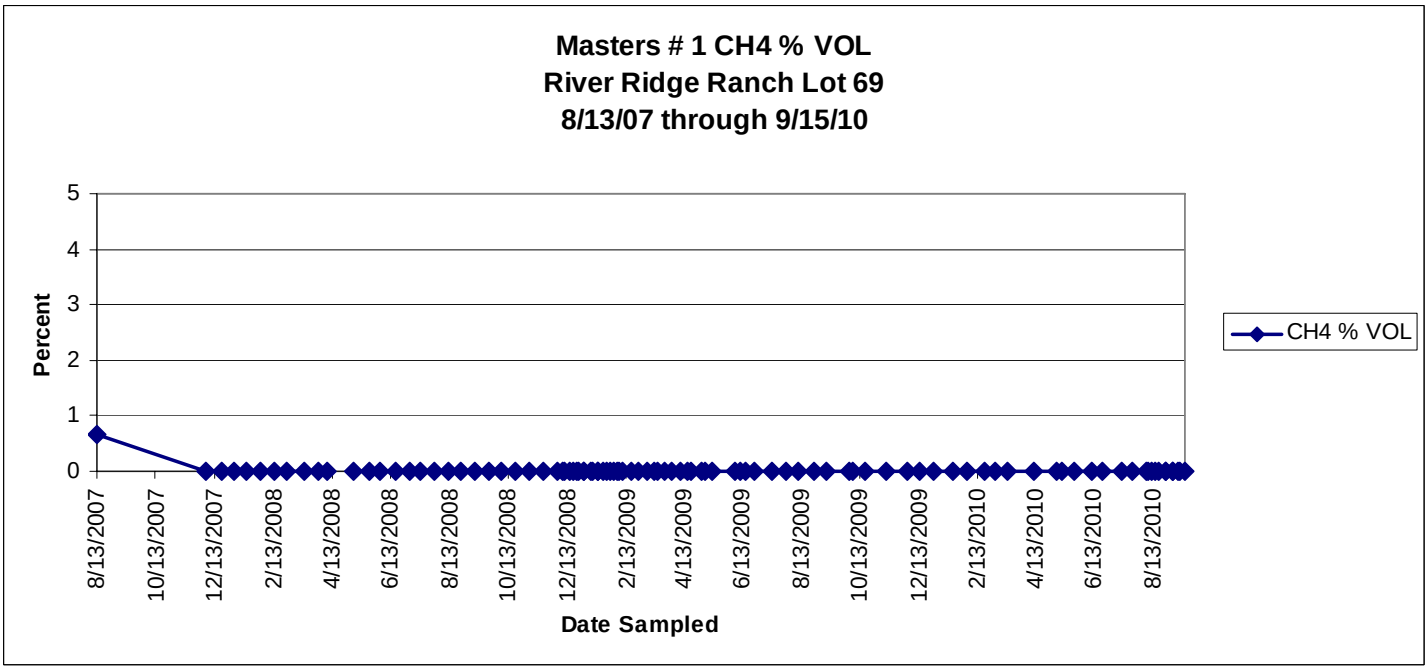

Coleman Wellhead % LEL
River Ridge Ranch Lot 70
7/5/07 through 9/15/10
Percent
100
80
60
40
20
0
7/5/2007
9/5/2007
11/5/2007
1/5/2008
3/5/2008
5/5/2008
7/5/2008
9/5/2008
11/5/2008
1/5/2009
3/5/2009
5/5/2009
7/5/2009
9/5/2009
11/5/2009
1/5/2010
3/5/2010
5/5/2010
7/5/2010
9/5/2010
Date Sampled
% LEL

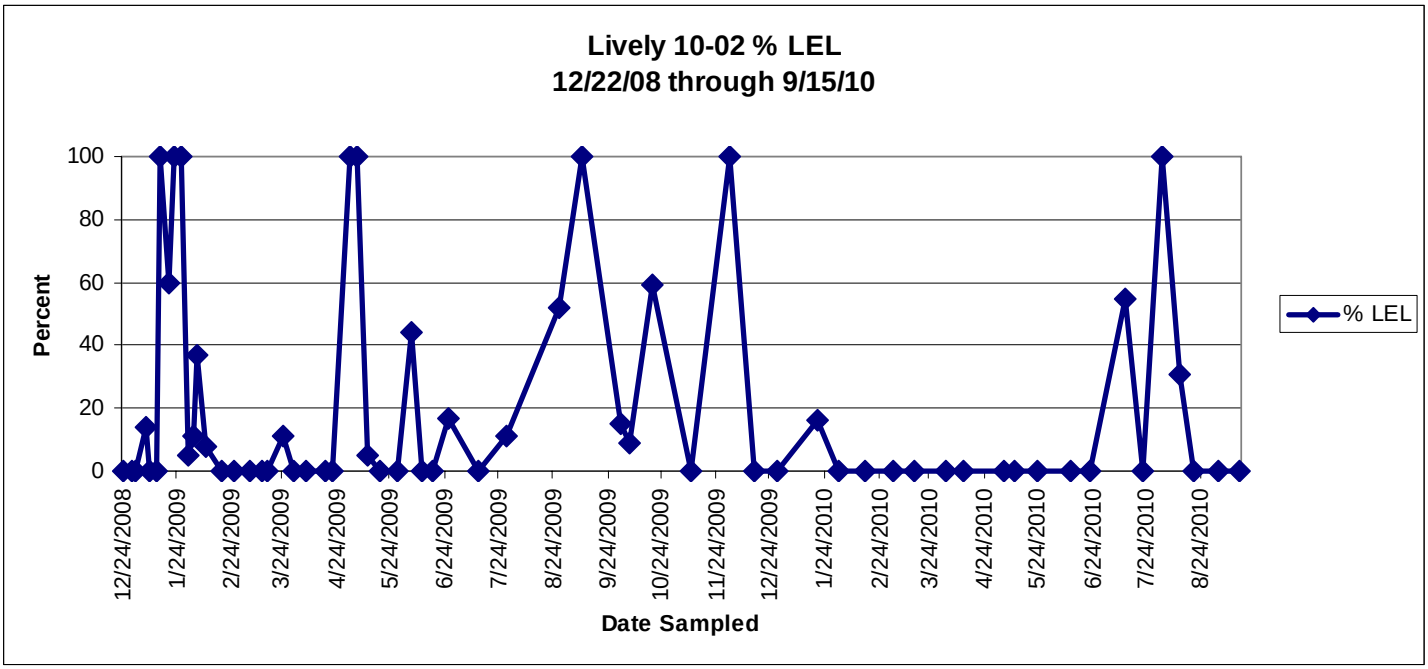

Coleman Wellhead CH4 % VOL
River Ridge Ranch Lot 70
7/5/07 through 9/15/10
Percent
100
80
60
40
20
0
7/5/2007
9/5/2007
11/5/2007
1/5/2008
3/5/2008
5/5/2008
7/5/2008
9/5/2008
11/5/2008
1/5/2009
3/5/2009
5/5/2009
7/5/2009
9/5/2009
11/5/2009
1/5/2010
3/5/2010
5/5/2010
7/5/2010
9/5/2010
Date Sampled
CH4 % VOL

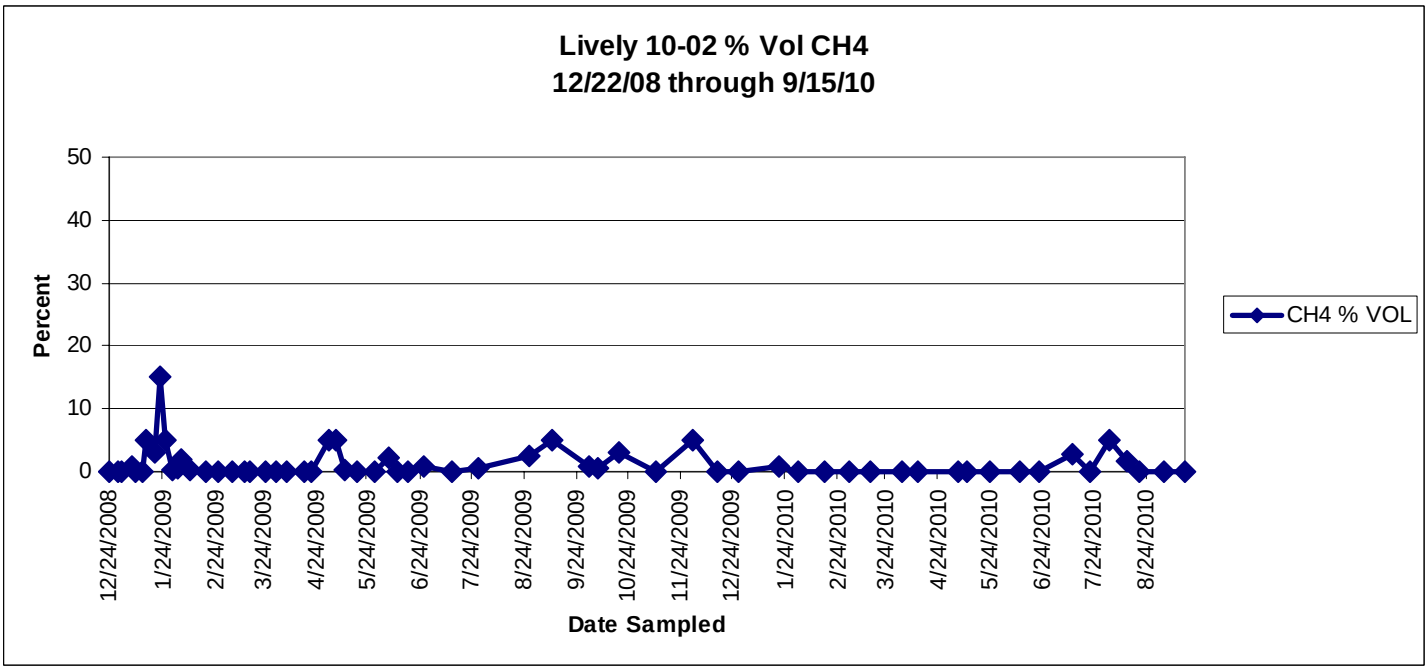

Coleman Well Vent % LEL
River Ridge Ranch Lot 70
8/28/07 through 9/15/10
RKI Values
120
100
80
60
40
20
0
8/28/2007
10/28/2007
12/28/2007
2/28/2008
4/28/2008
6/28/2008
8/28/2008
10/28/2008
12/28/2008
2/28/2009
4/28/2009
6/28/2009
8/28/2009
10/28/2009
12/28/2009
2/28/2010
4/28/2010
6/28/2010
8/28/2010
Date Sampled
% LEL

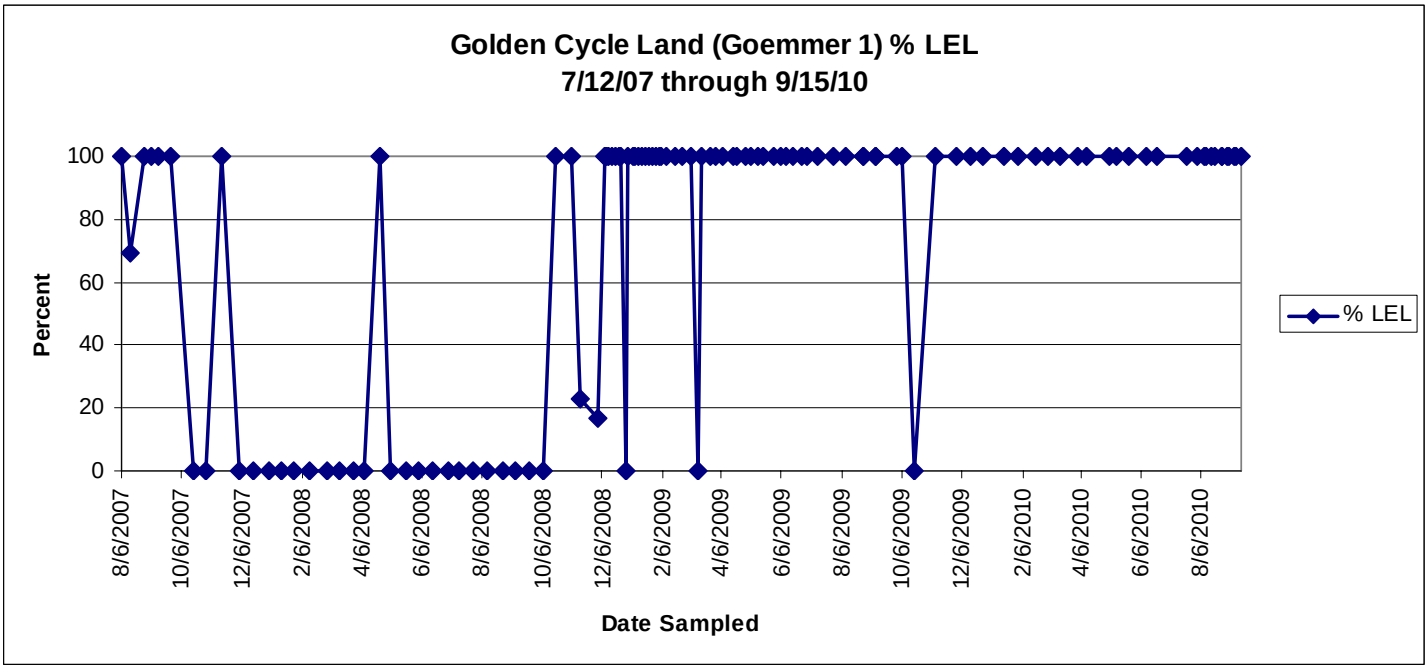

Coleman Well Vent CH4 % VOL
River Ridge Ranch Lot 70
8/28/07 through 9/15/10
Percent
100
80
60
40
20
0
8/28/2007
10/28/2007
12/28/2007
2/28/2008
4/28/2008
6/28/2008
8/28/2008
10/28/2008
12/28/2008
2/28/2009
4/28/2009
6/28/2009
8/28/2009
10/28/2009
12/28/2009
2/28/2010
4/28/2010
6/28/2010
8/28/2010
Date Sampled
CH4 % VOL

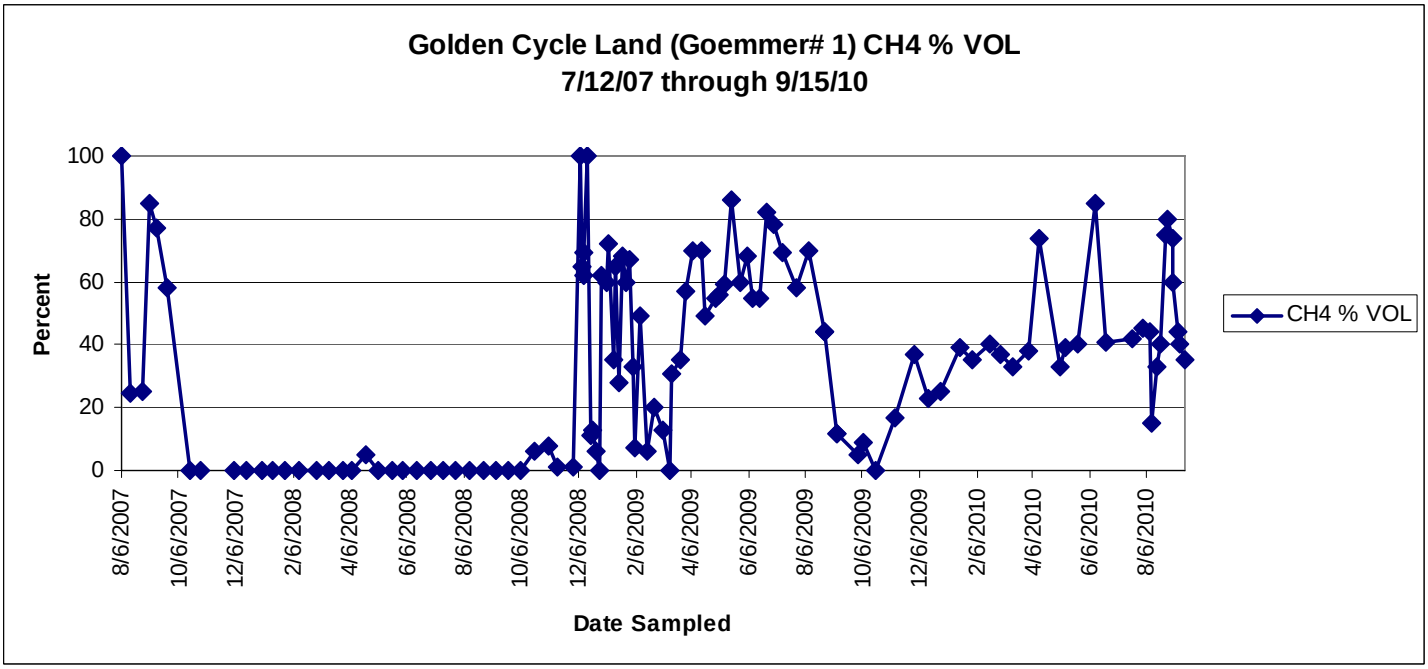

Masters # 1 % LEL
River Ridge Ranch Lot 69
8/13/07 through 9/15/10
Percent
100
80
60
40
20
0
8/13/2007
10/13/2007
12/13/2007
2/13/2008
4/13/2008
6/13/2008
8/13/2008
10/13/2008
12/13/2008
2/13/2009
4/13/2009
6/13/2009
8/13/2009
10/13/2009
12/13/2009
2/13/2010
4/13/2010
6/13/2010
8/13/2010
Date Sampled
% LEL

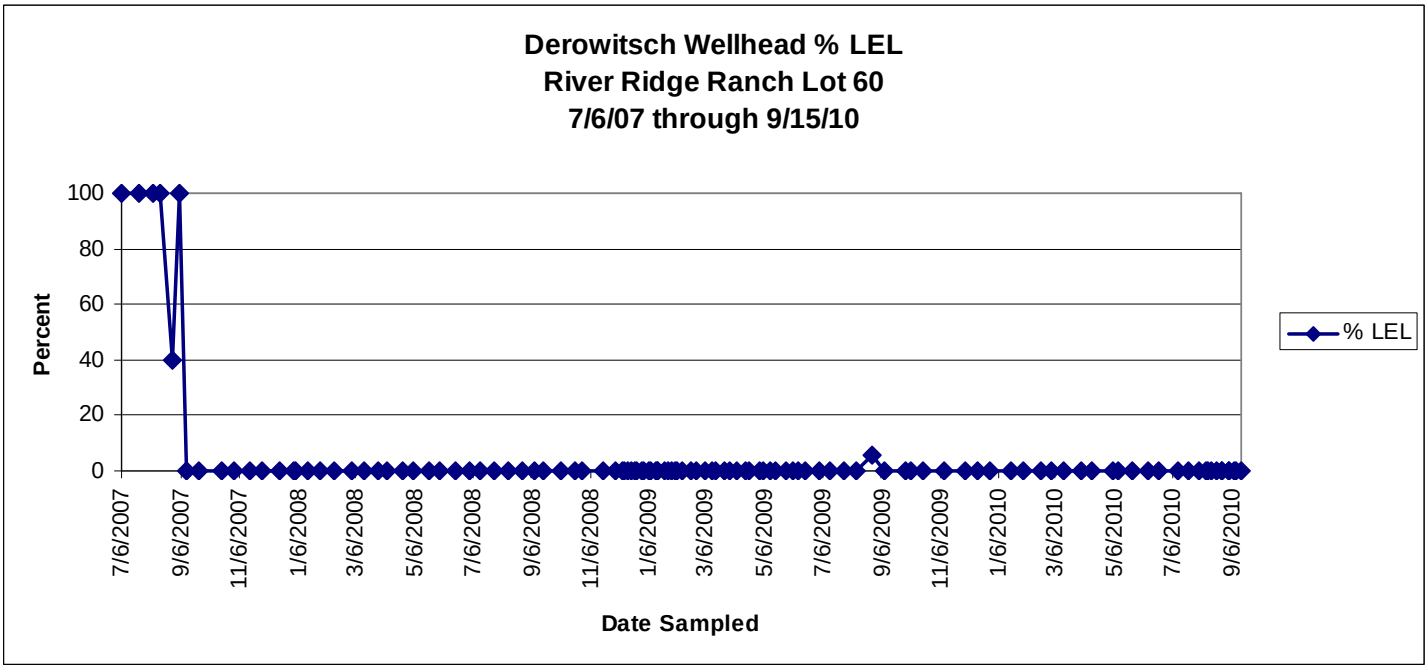

Masters # 1 CH4 % VOL
River Ridge Ranch Lot 69
8/13/07 through 9/15/10
Percent
5
4
3
2
1
0
8/13/2007
10/13/2007
12/13/2007
2/13/2008
4/13/2008
6/13/2008
8/13/2008
10/13/2008
12/13/2008
2/13/2009
4/13/2009
6/13/2009
8/13/2009
10/13/2009
12/13/2009
2/13/2010
4/13/2010
6/13/2010
8/13/2010
Date Sampled
CH4 % VOL

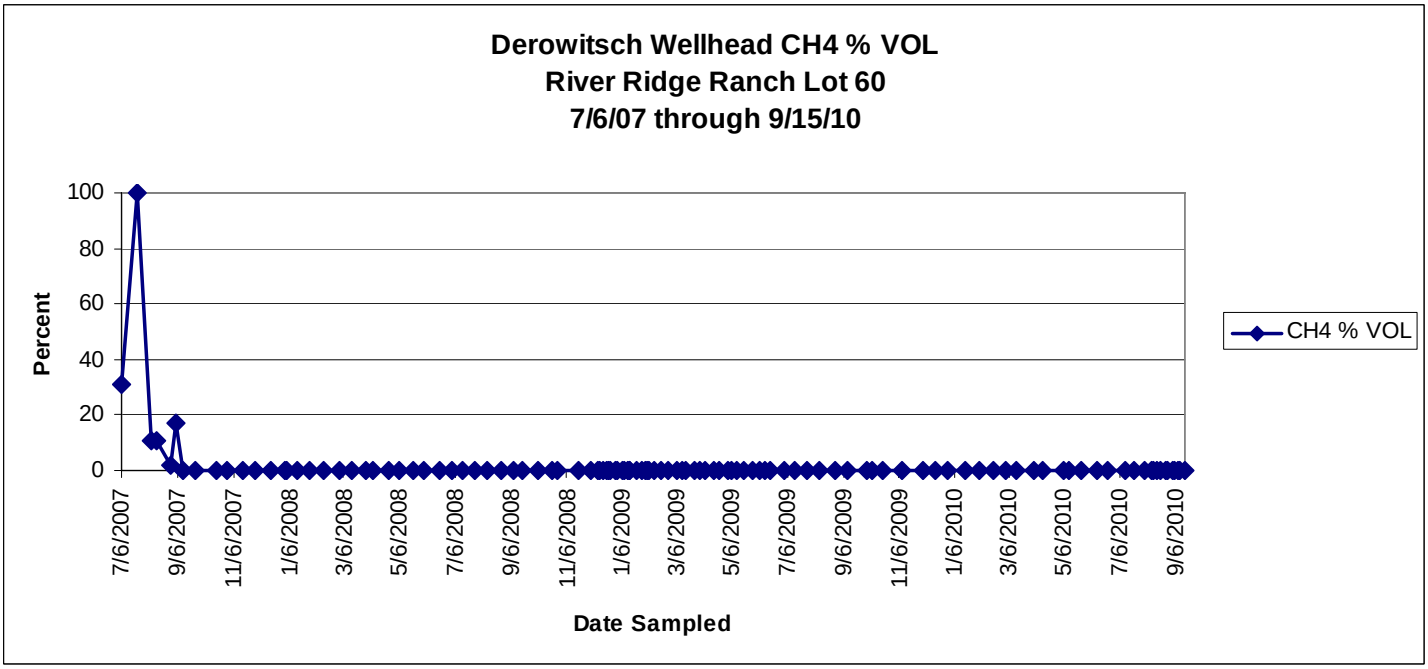

Lively 10-02 % LEL
12/22/08 through 9/15/10
Percent
100
80
60
40
20
0
12/24/2008
1/24/2009
2/24/2009
3/24/2009
4/24/2009
5/24/2009
6/24/2009
7/24/2009
8/24/2009
9/24/2009
10/24/2009
11/24/2009
12/24/2009
1/24/2010
2/24/2010
3/24/2010
4/24/2010
5/24/2010
6/24/2010
7/24/2010
8/24/2010
Date Sampled
% LEL

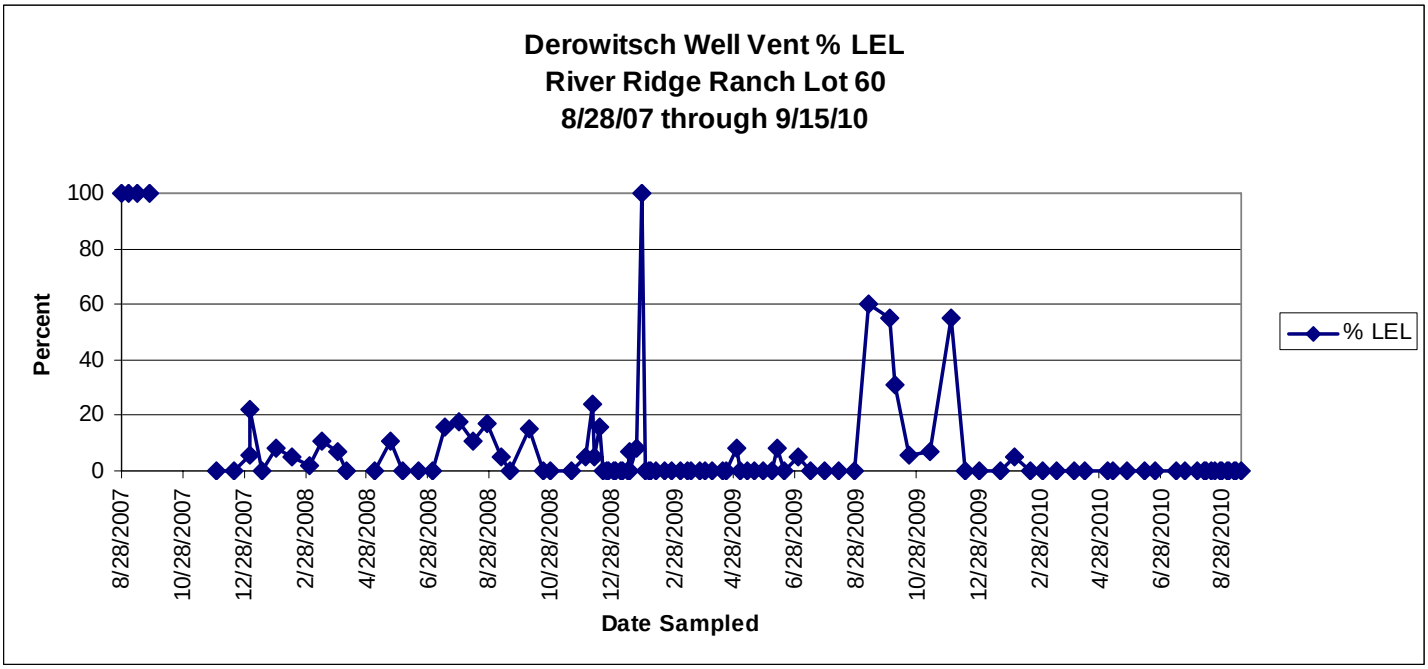

Lively 10-02 % Vol CH4
12/22/08 through 9/15/10
Percent
50
40
30
20
10
0
12/24/2008
1/24/2009
2/24/2009
3/24/2009
4/24/2009
5/24/2009
6/24/2009
7/24/2009
8/24/2009
9/24/2009
10/24/2009
11/24/2009
12/24/2009
1/24/2010
2/24/2010
3/24/2010
4/24/2010
5/24/2010
6/24/2010
7/24/2010
8/24/2010
Date Sampled
CH4 % VOL

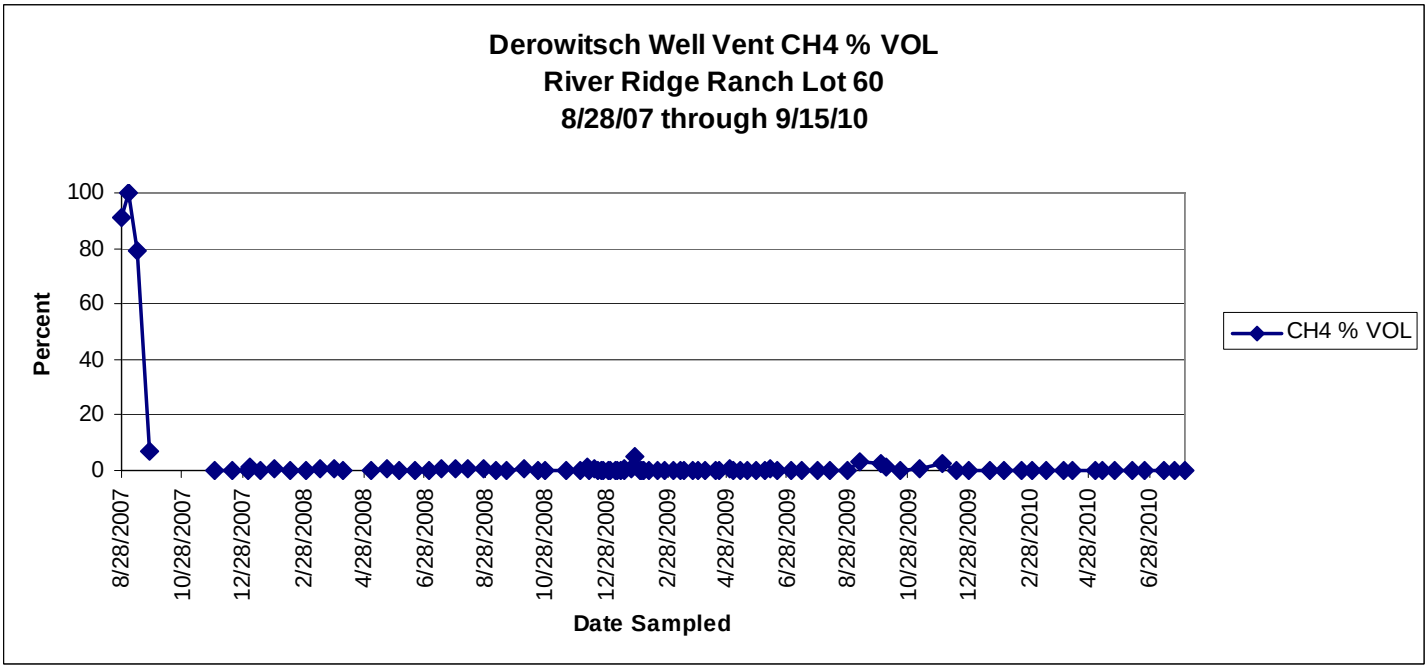

Golden Cycle Land (Goemmer 1) % LEL
7/12/07 through 9/15/10
Percent
100
80
60
40
20
0
8/6/2007
10/6/2007
12/6/2007
2/6/2008
4/6/2008
6/6/2008
8/6/2008
10/6/2008
12/6/2008
2/6/2009
4/6/2009
6/6/2009
8/6/2009
10/6/2009
12/6/2009
2/6/2010
4/6/2010
6/6/2010
8/6/2010
Date Sampled
% LEL

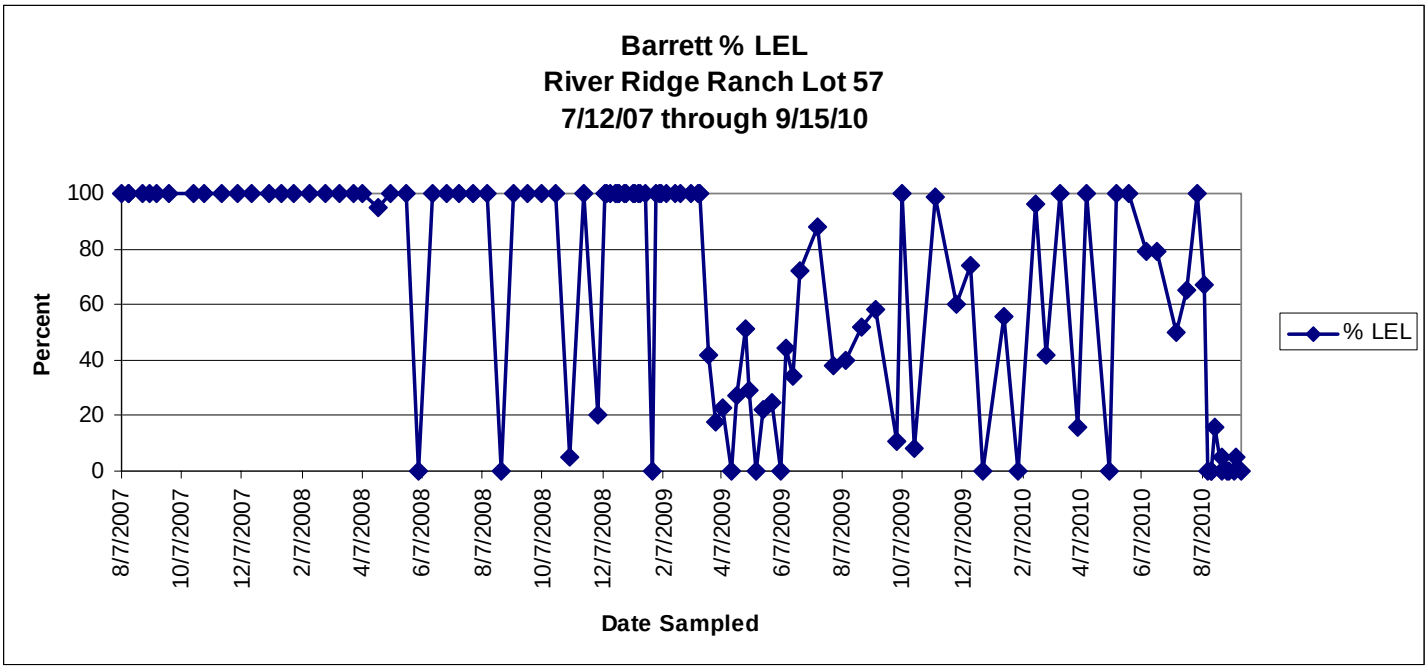

Golden Cycle Land (Goemmer# 1) CH4 % VOL
7/12/07 through 9/15/10
Percent
100
80
60
40
20
0
8/6/2007
10/6/2007
12/6/2007
2/6/2008
4/6/2008
6/6/2008
8/6/2008
10/6/2008
12/6/2008
2/6/2009
4/6/2009
6/6/2009
8/6/2009
10/6/2009
12/6/2009
2/6/2010
4/6/2010
6/6/2010
8/6/2010
Date Sampled
CH4 % VOL

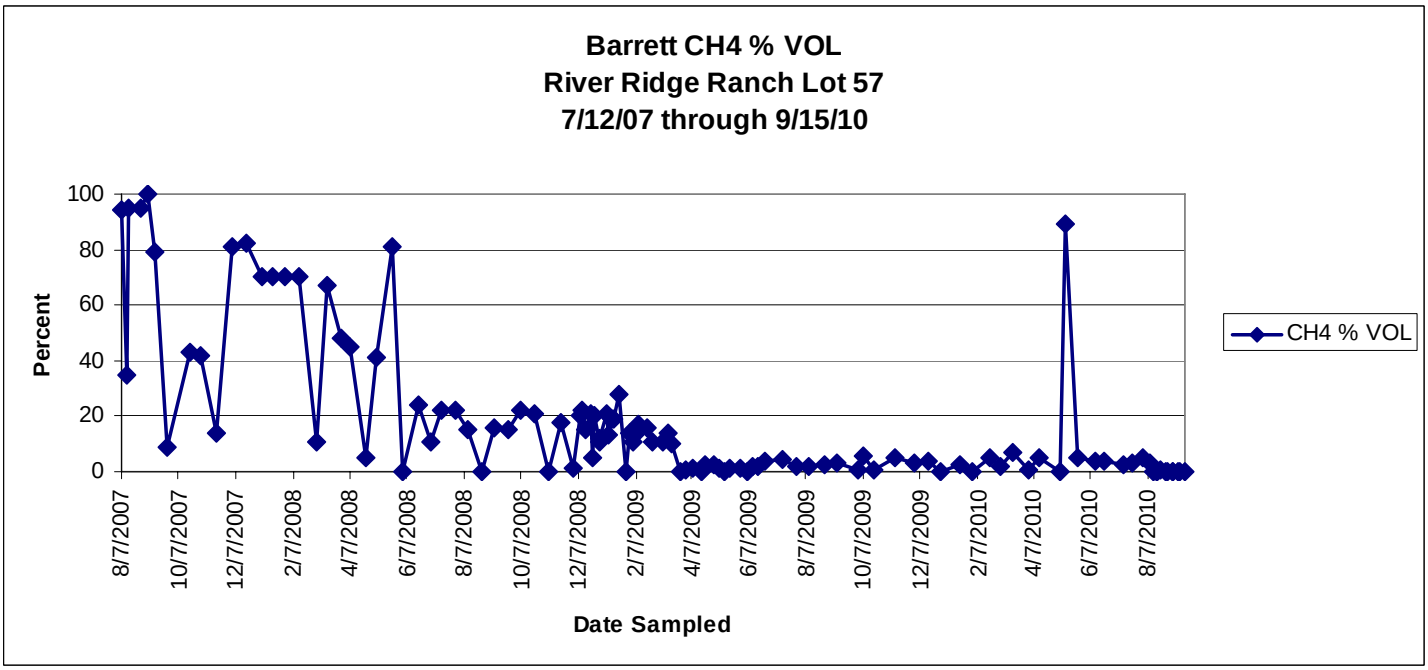

Derowitsch Wellhead % LEL
River Ridge Ranch Lot 60
7/6/07 through 9/15/10
Percent
100
80
60
40
20
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
11/6/2009
1/6/2010
3/6/2010
5/6/2010
7/6/2010
9/6/2010
Date Sampled
% LEL

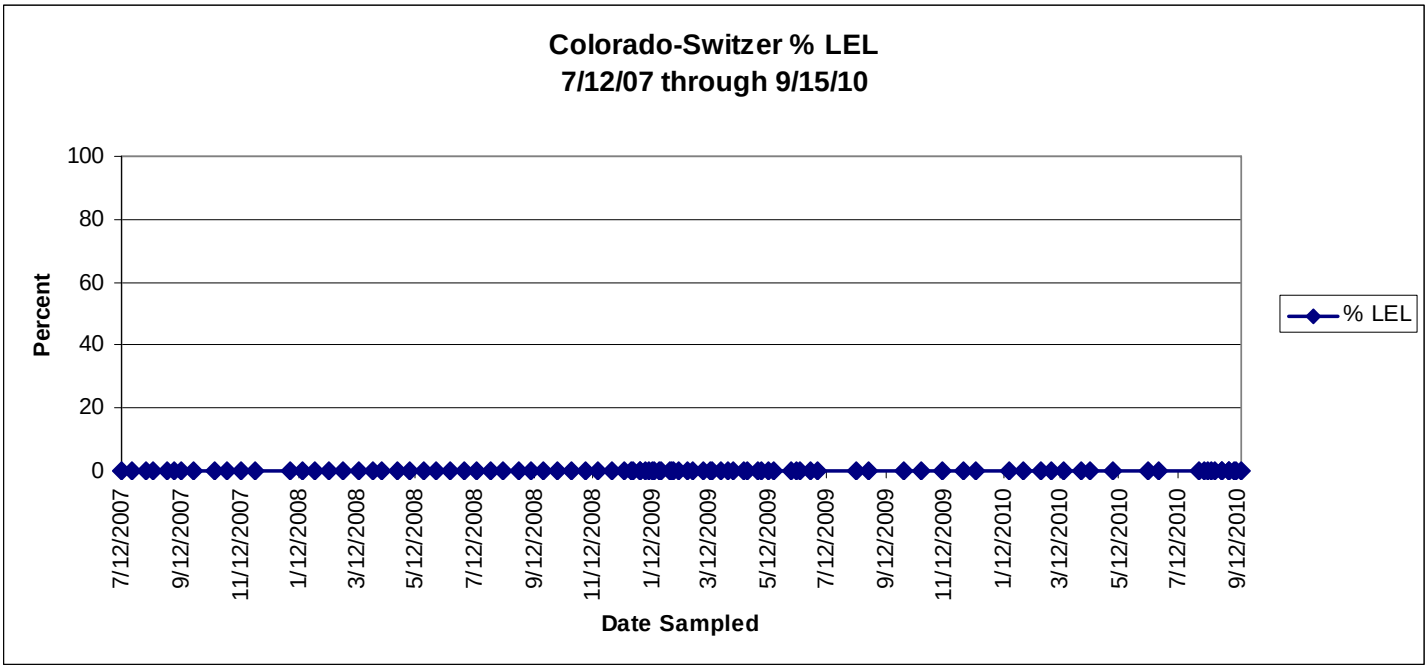

Derowitsch Wellhead CH4 % VOL
River Ridge Ranch Lot 60
7/6/07 through 9/15/10
Percent
100
80
60
40
20
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
11/6/2009
1/6/2010
3/6/2010
5/6/2010
7/6/2010
9/6/2010
Date Sampled
CH4 % VOL

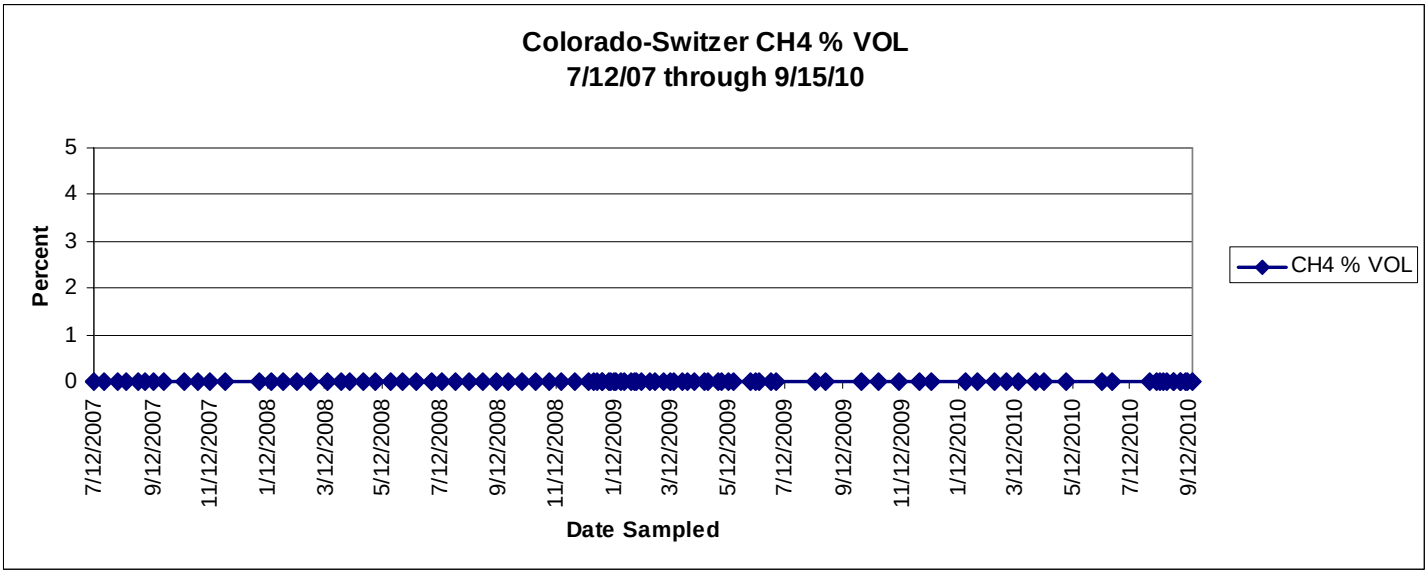

Derowitsch Well Vent % LEL
River Ridge Ranch Lot 60
8/28/07 through 9/15/10
Percent
100
80
60
40
20
0
8/28/2007
10/28/2007
12/28/2007
2/28/2008
4/28/2008
6/28/2008
8/28/2008
10/28/2008
12/28/2008
2/28/2009
4/28/2009
6/28/2009
8/28/2009
10/28/2009
12/28/2009
2/28/2010
4/28/2010
6/28/2010
8/28/2010
Date Sampled
% LEL

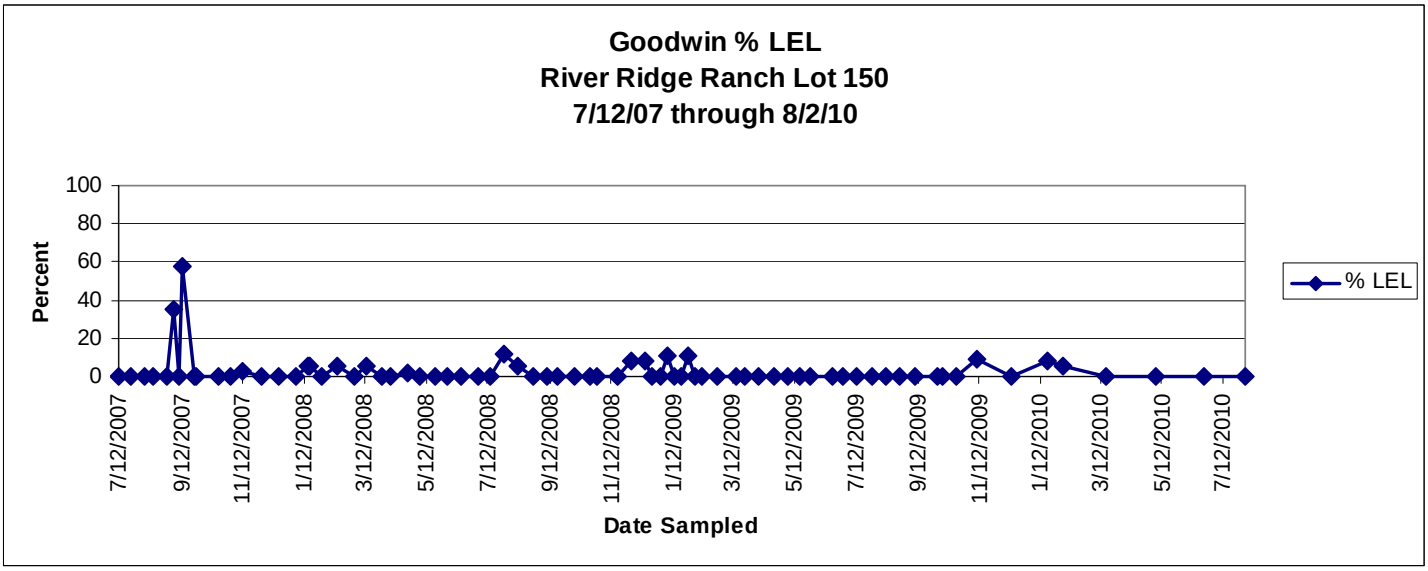

Derowitsch Well Vent CH4 % VOL
River Ridge Ranch Lot 60
8/28/07 through 9/15/10
Percent
100
80
60
40
20
0
8/28/2007
10/28/2007
12/28/2007
2/28/2008
4/28/2008
6/28/2008
8/28/2008
10/28/2008
12/28/2008
2/28/2009
4/28/2009
6/28/2009
8/28/2009
10/28/2009
12/28/2009
2/28/2010
4/28/2010
6/28/2010
Date Sampled
CH4 % VOL

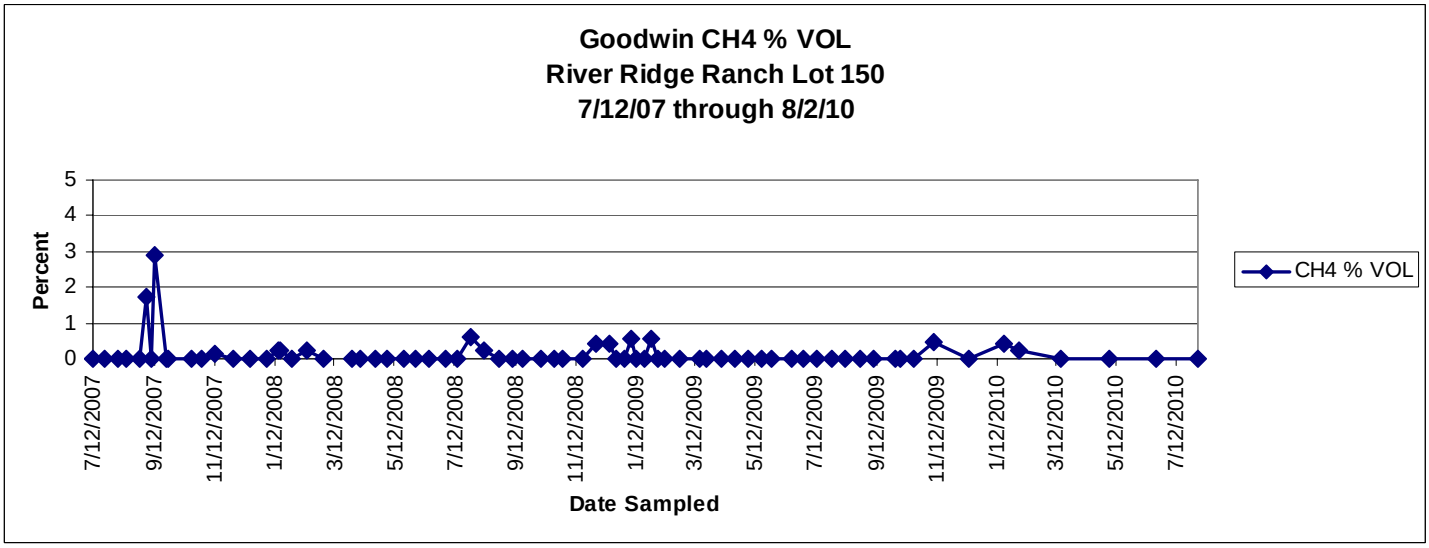

Barrett % LEL
River Ridge Ranch Lot 57
7/12/07 through 9/15/10
Percent
100
80
60
40
20
0
8/7/2007
10/7/2007
12/7/2007
2/7/2008
4/7/2008
6/7/2008
8/7/2008
10/7/2008
12/7/2008
2/7/2009
4/7/2009
6/7/2009
8/7/2009
10/7/2009
12/7/2009
2/7/2010
4/7/2010
6/7/2010
8/7/2010
Date Sampled
% LEL

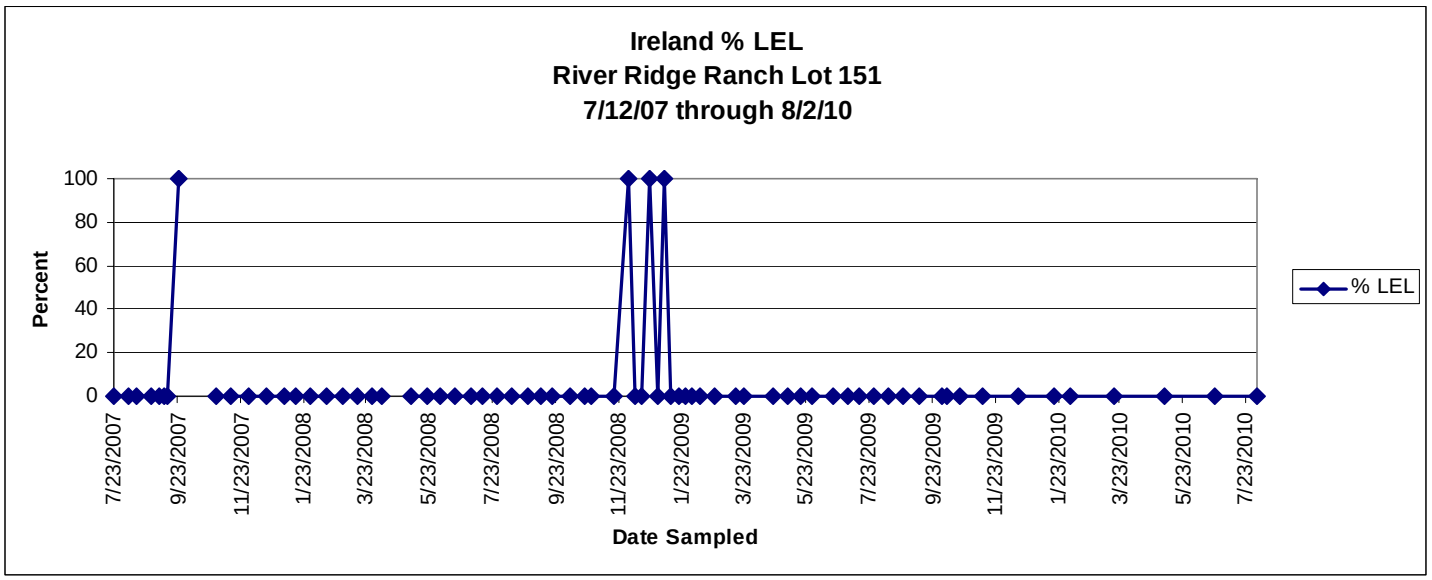

Barrett CH4 % VOL
River Ridge Ranch Lot 57
7/12/07 through 9/15/10
Percent
100
80
60
40
20
0
8/7/2007
10/7/2007
12/7/2007
2/7/2008
4/7/2008
6/7/2008
8/7/2008
10/7/2008
12/7/2008
2/7/2009
4/7/2009
6/7/2009
8/7/2009
10/7/2009
12/7/2009
2/7/2010
4/7/2010
6/7/2010
8/7/2010
Date Sampled
CH4 % VOL

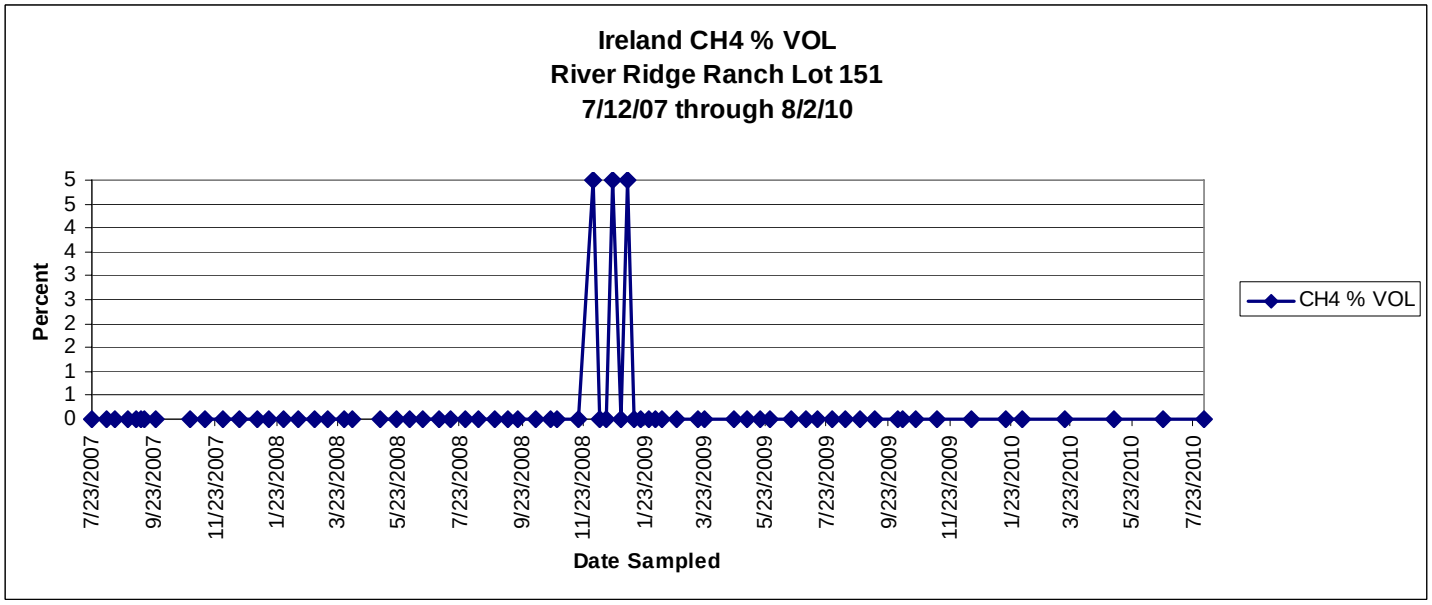

Colorado-Switzer % LEL
7/12/07 through 9/15/10
Percent
100
80
60
40
20
0
7/12/2007
9/12/2007
11/12/2007
1/12/2008
3/12/2008
5/12/2008
7/12/2008
9/12/2008
11/12/2008
1/12/2009
3/12/2009
5/12/2009
7/12/2009
9/12/2009
11/12/2009
1/12/2010
3/12/2010
5/12/2010
7/12/2010
9/12/2010
Date Sampled
% LEL

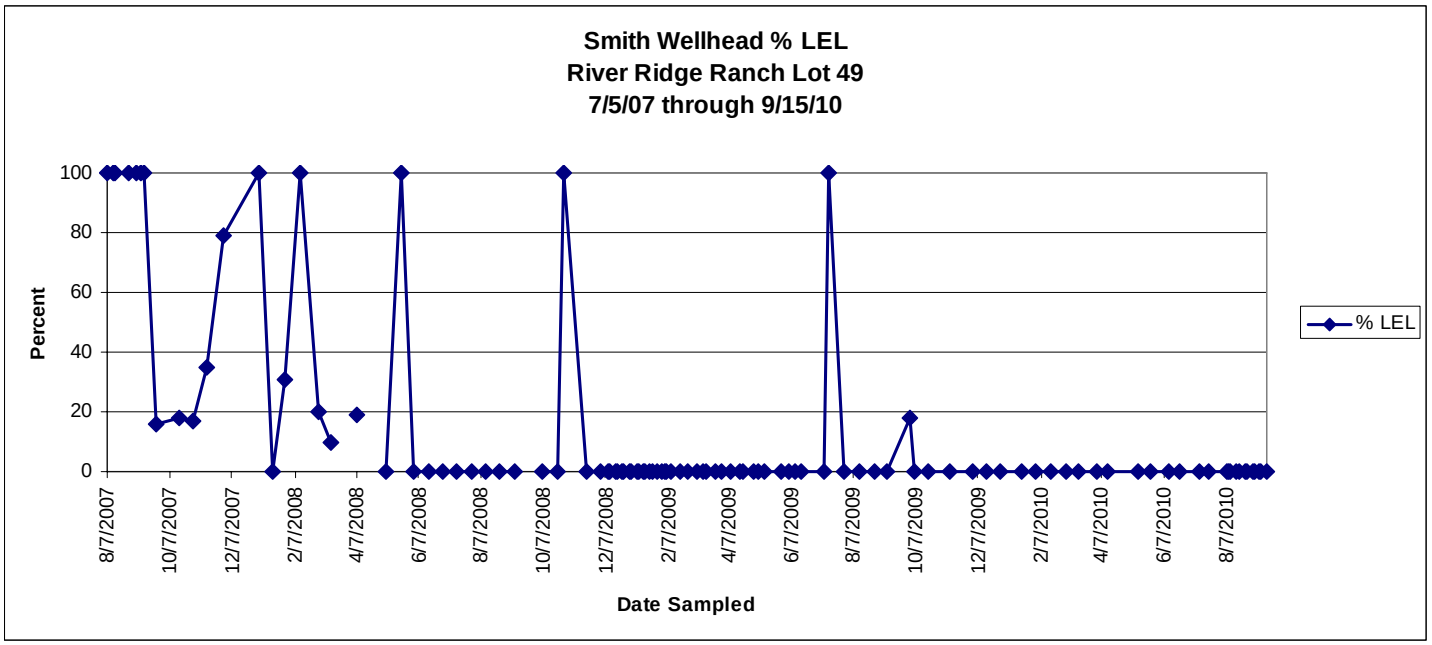

Colorado-Switzer CH4 % VOL
7/12/07 through 9/15/10
Percent
5
4
3
2
1
0
7/12/2007
9/12/2007
11/12/2007
1/12/2008
3/12/2008
5/12/2008
7/12/2008
9/12/2008
11/12/2008
1/12/2009
3/12/2009
5/12/2009
7/12/2009
9/12/2009
11/12/2009
1/12/2010
3/12/2010
5/12/2010
7/12/2010
9/12/2010
Date Sampled
CH4 % VOL

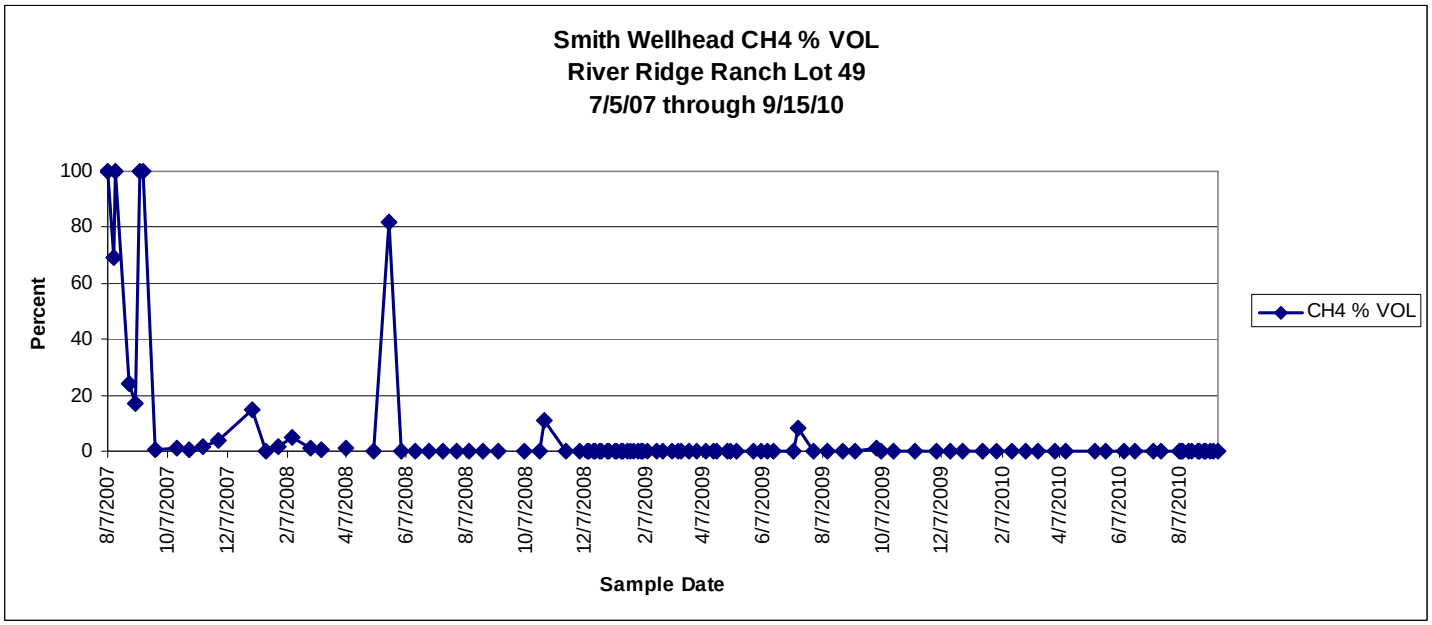

Goodwin % LEL
River Ridge Ranch Lot 150
7/12/07 through 8/2/10
Percent
100
80
60
40
20
0
7/12/2007
9/12/2007
11/12/2007
1/12/2008
3/12/2008
5/12/2008
7/12/2008
9/12/2008
11/12/2008
1/12/2009
3/12/2009
5/12/2009
7/12/2009
9/12/2009
11/12/2009
1/12/2010
3/12/2010
5/12/2010
7/12/2010
Date Sampled
% LEL

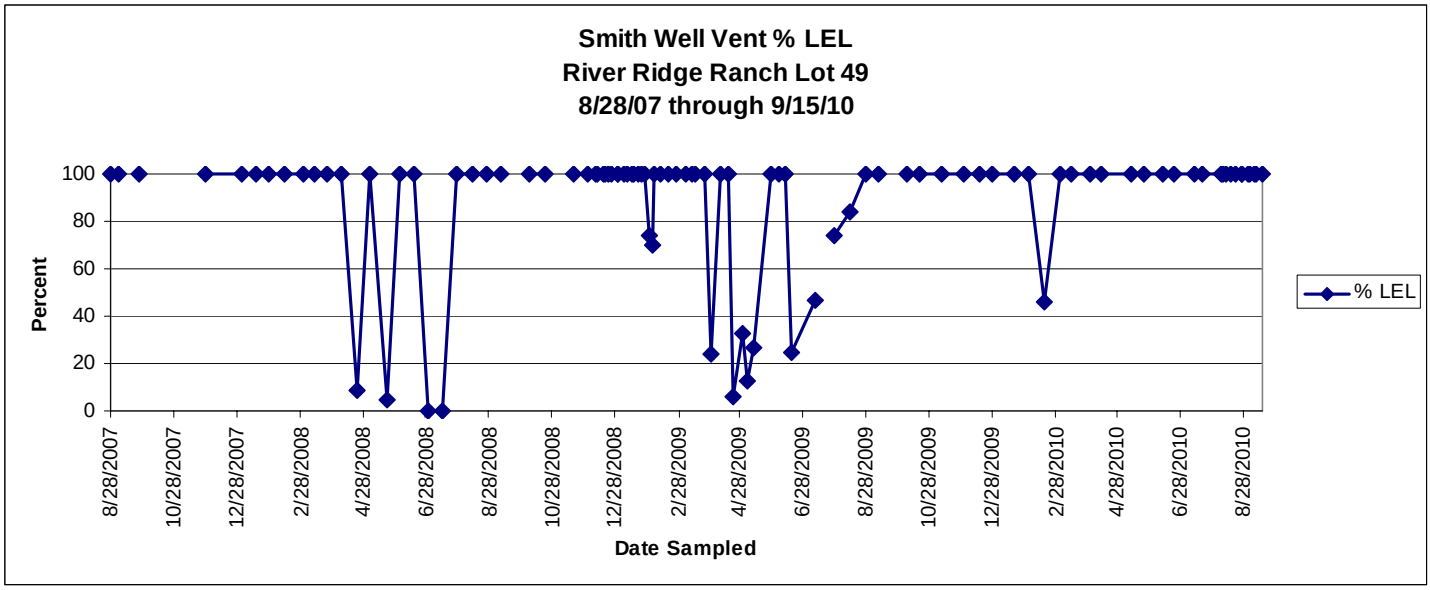

Goodwin CH4 % VOL
River Ridge Ranch Lot 150
7/12/07 through 8/2/10
Percent
5
4
3
2
1
0
7/12/2007
9/12/2007
11/12/2007
1/12/2008
3/12/2008
5/12/2008
7/12/2008
9/12/2008
11/12/2008
1/12/2009
3/12/2009
5/12/2009
7/12/2009
9/12/2009
11/12/2009
1/12/2010
3/12/2010
5/12/2010
7/12/2010
Date Sampled
CH4 % VOL

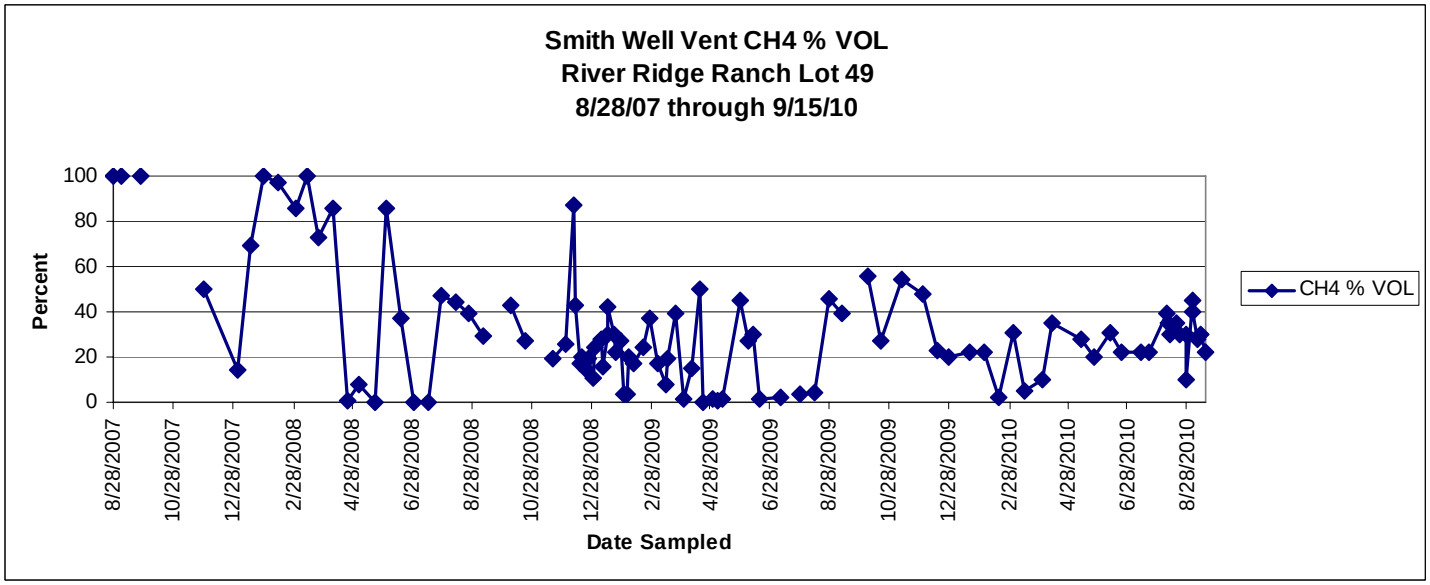

Ireland % LEL
River Ridge Ranch Lot 151
7/12/07 through 8/2/10
Percent
100
80
60
40
20
0
7/23/2007
9/23/2007
11/23/2007
1/23/2008
3/23/2008
5/23/2008
7/23/2008
9/23/2008
11/23/2008
1/23/2009
3/23/2009
5/23/2009
7/23/2009
9/23/2009
11/23/2009
1/23/2010
3/23/2010
5/23/2010
7/23/2010
Date Sampled
% LEL

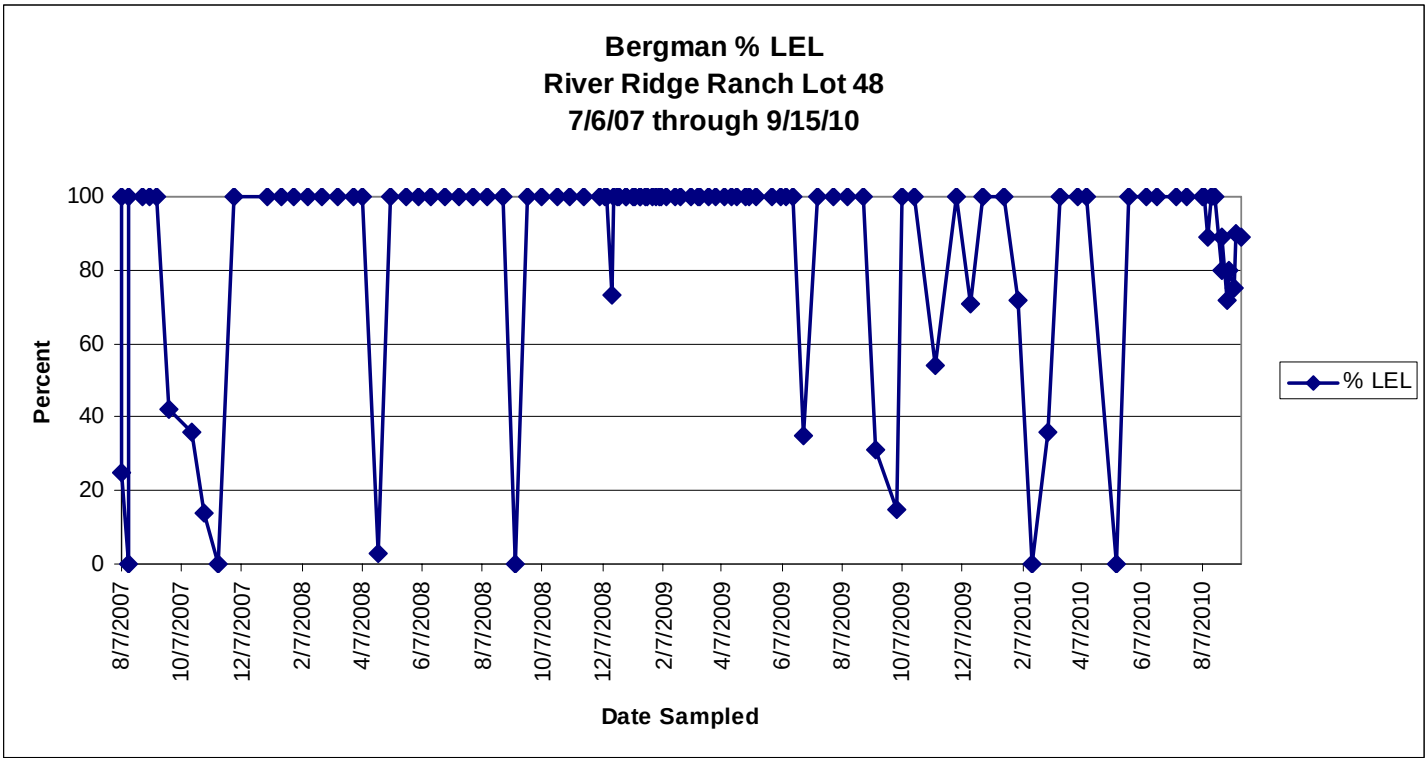

Ireland CH4 % VOL
River Ridge Ranch Lot 151
7/12/07 through 8/2/10
Percent
5
5
4
4
3
3
2
2
1
1
0
7/23/2007
9/23/2007
11/23/2007
1/23/2008
3/23/2008
5/23/2008
7/23/2008
9/23/2008
11/23/2008
1/23/2009
3/23/2009
5/23/2009
7/23/2009
9/23/2009
11/23/2009
1/23/2010
3/23/2010
5/23/2010
7/23/2010
Date Sampled
CH4 % VOL

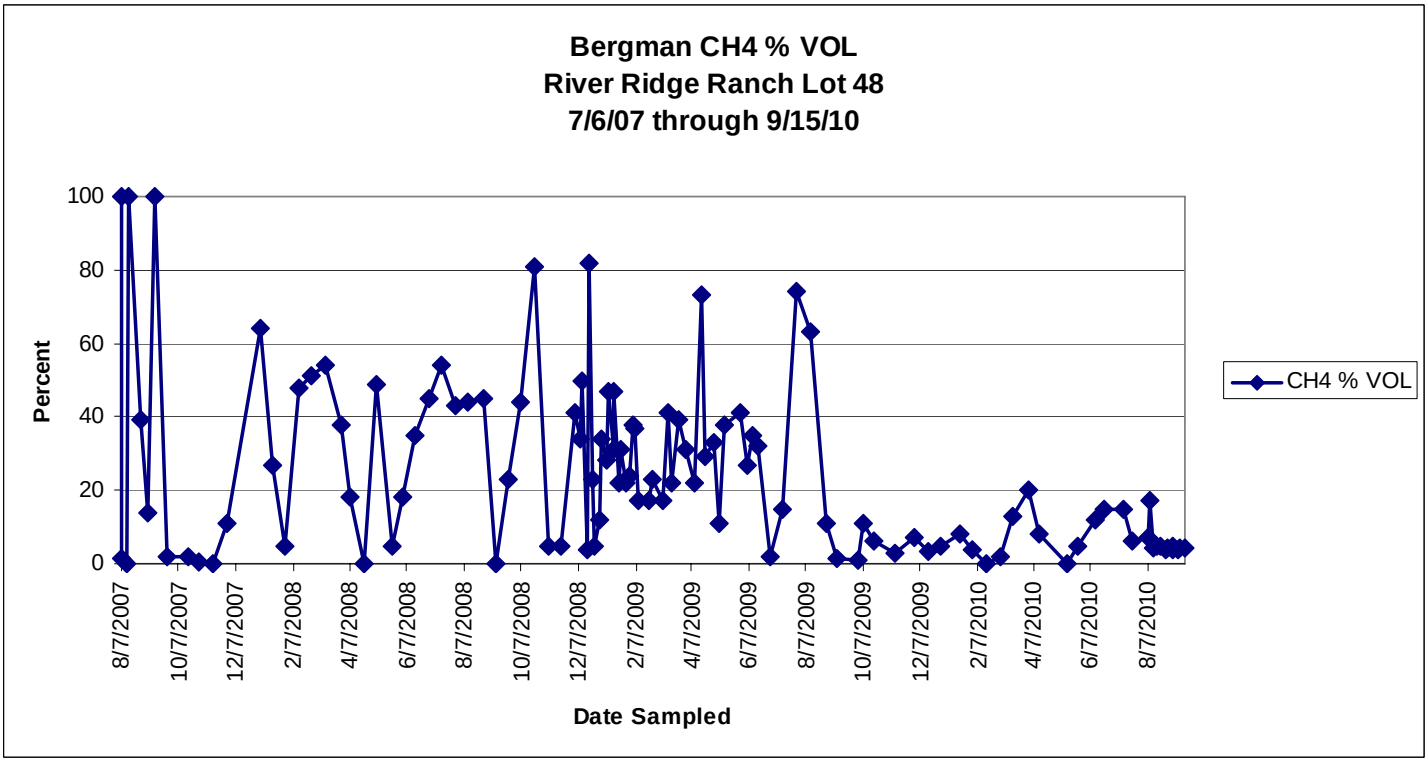

Smith Wellhead % LEL
River Ridge Ranch Lot 49
7/5/07 through 9/15/10
Percent
100
80
60
40
20
0
8/7/2007
10/7/2007
12/7/2007
2/7/2008
4/7/2008
6/7/2008
8/7/2008
10/7/2008
12/7/2008
2/7/2009
4/7/2009
6/7/2009
8/7/2009
10/7/2009
12/7/2009
2/7/2010
4/7/2010
6/7/2010
8/7/2010
Date Sampled
% LEL

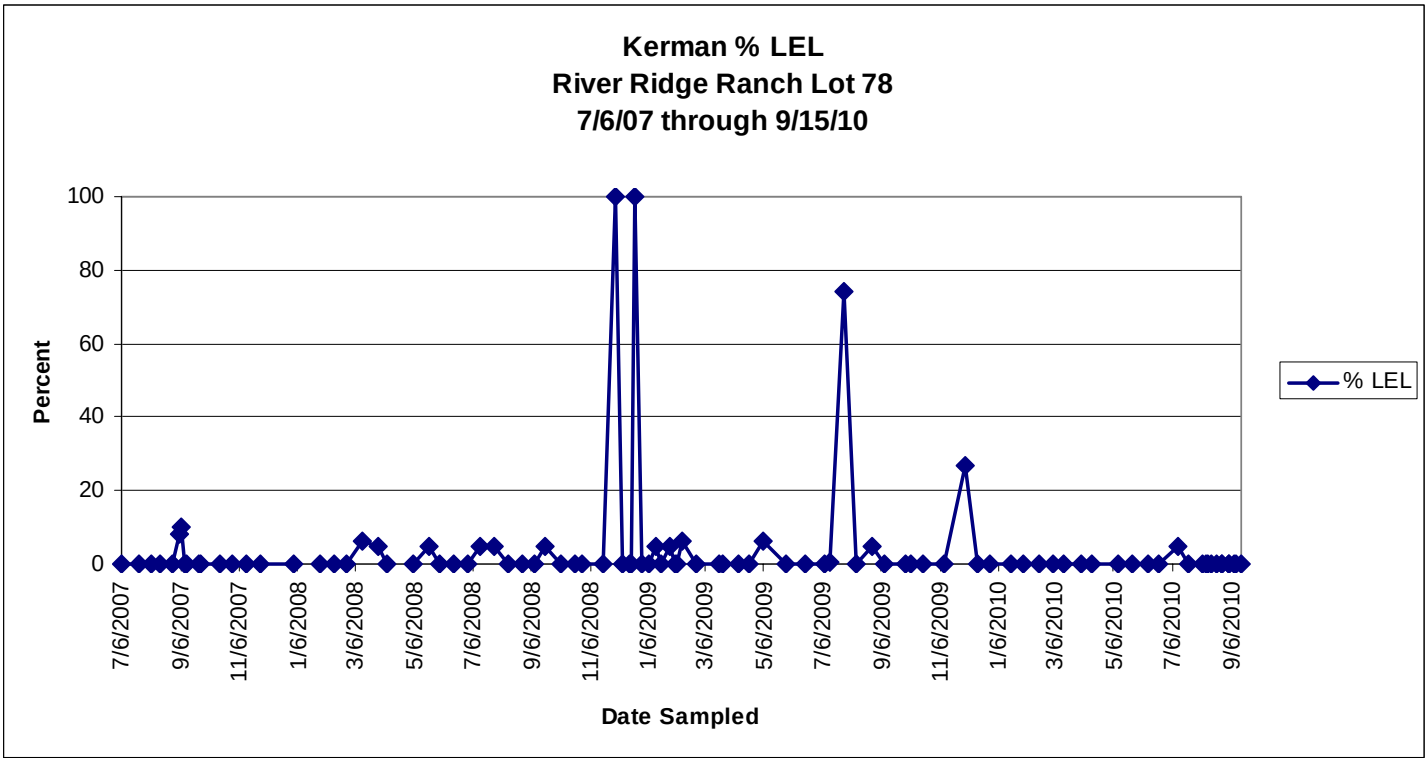

Smith Wellhead CH4 % VOL
River Ridge Ranch Lot 49
7/5/07 through 9/15/10
Percent
100
80
60
40
20
0
8/7/2007
10/7/2007
12/7/2007
2/7/2008
4/7/2008
6/7/2008
8/7/2008
10/7/2008
12/7/2008
2/7/2009
4/7/2009
6/7/2009
8/7/2009
10/7/2009
12/7/2009
2/7/2010
4/7/2010
6/7/2010
8/7/2010
Sample Date
CH4 % VOL

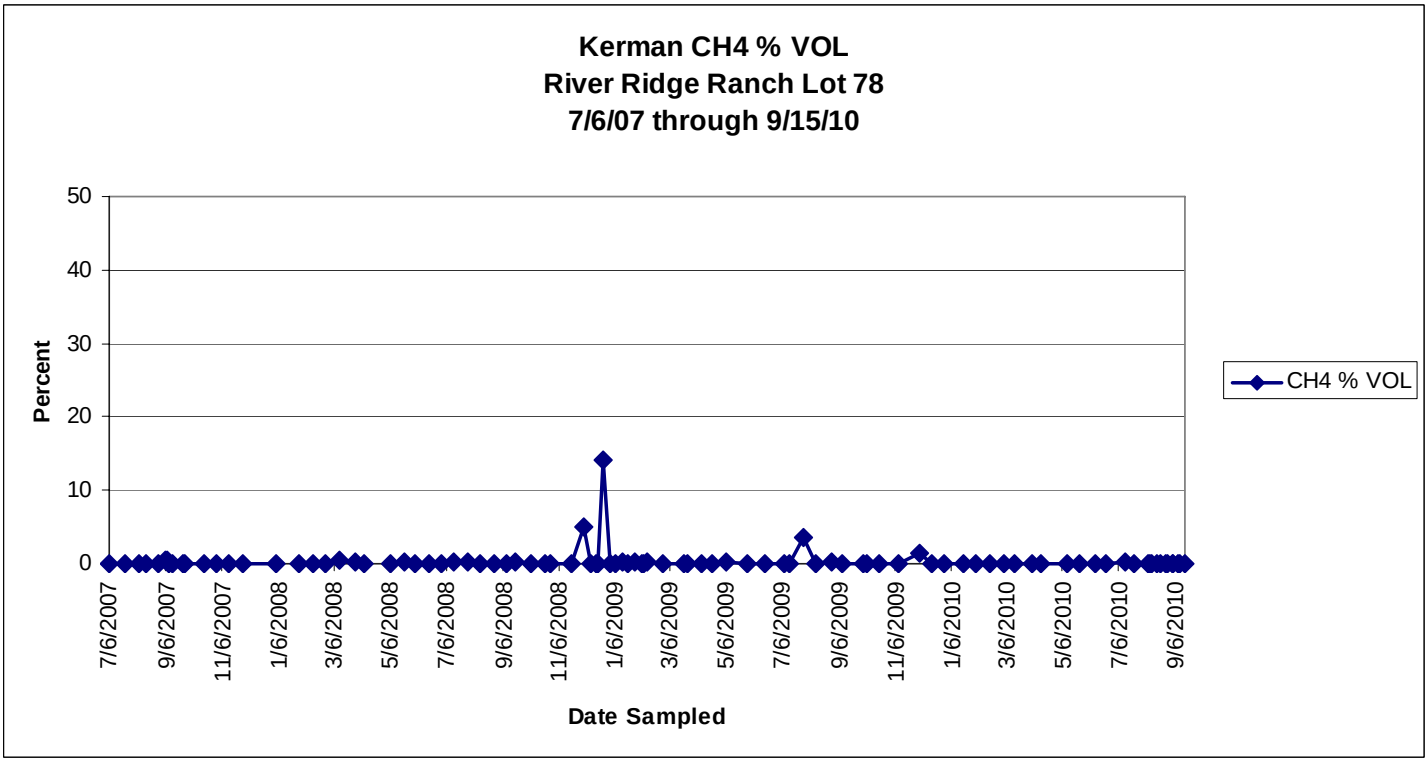

Smith Well Vent % LEL
River Ridge Ranch Lot 49
8/28/07 through 9/15/10
Percent
100
80
60
40
20
0
8/28/2007
10/28/2007
12/28/2007
2/28/2008
4/28/2008
6/28/2008
8/28/2008
10/28/2008
12/28/2008
2/28/2009
4/28/2009
6/28/2009
8/28/2009
10/28/2009
12/28/2009
2/28/2010
4/28/2010
6/28/2010
8/28/2010
Date Sampled
% LEL

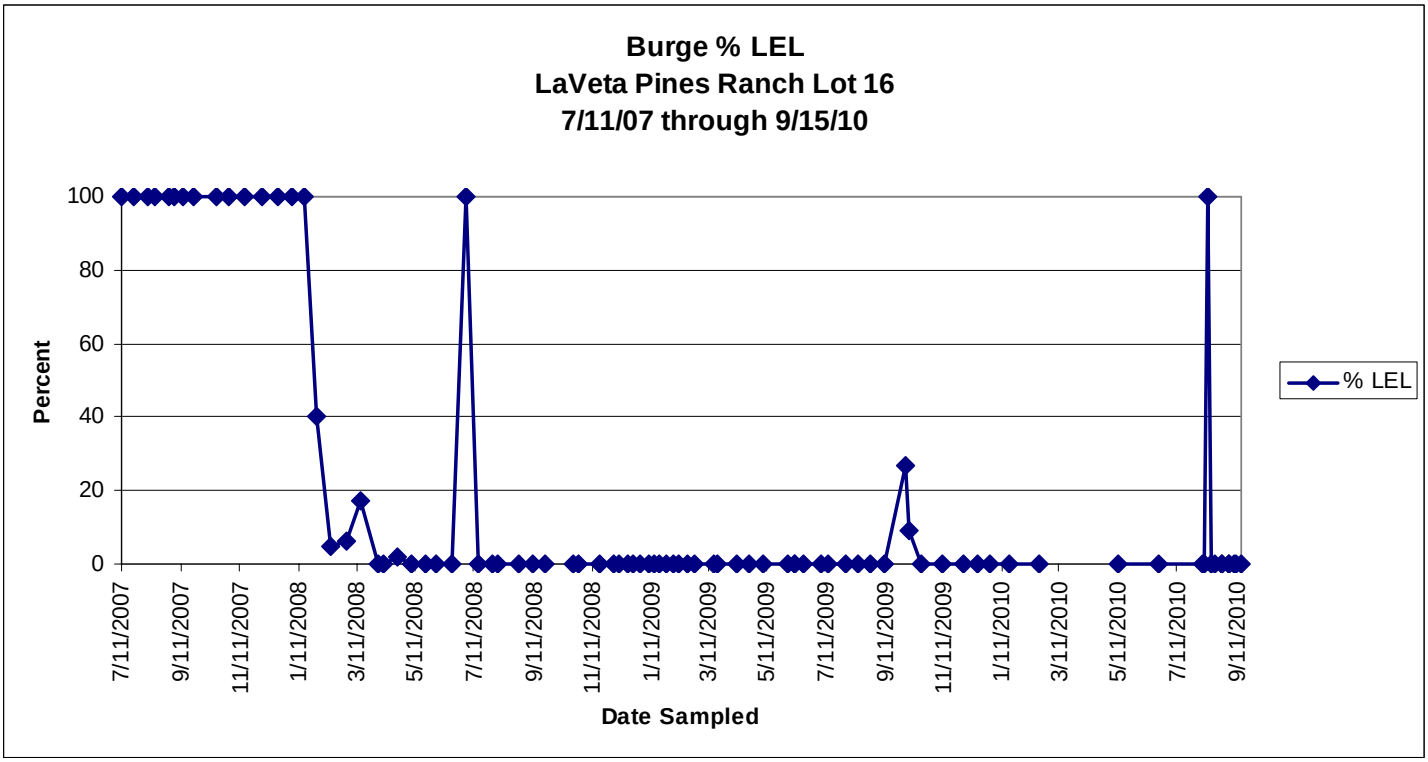

Smith Well Vent CH4 % VOL
River Ridge Ranch Lot 49
8/28/07 through 9/15/10
Percent
100
80
60
40
20
0
8/28/2007
10/28/2007
12/28/2007
2/28/2008
4/28/2008
6/28/2008
8/28/2008
10/28/2008
12/28/2008
2/28/2009
4/28/2009
6/28/2009
8/28/2009
10/28/2009
12/28/2009
2/28/2010
4/28/2010
6/28/2010
8/28/2010
Date Sampled
CH4 % VOL

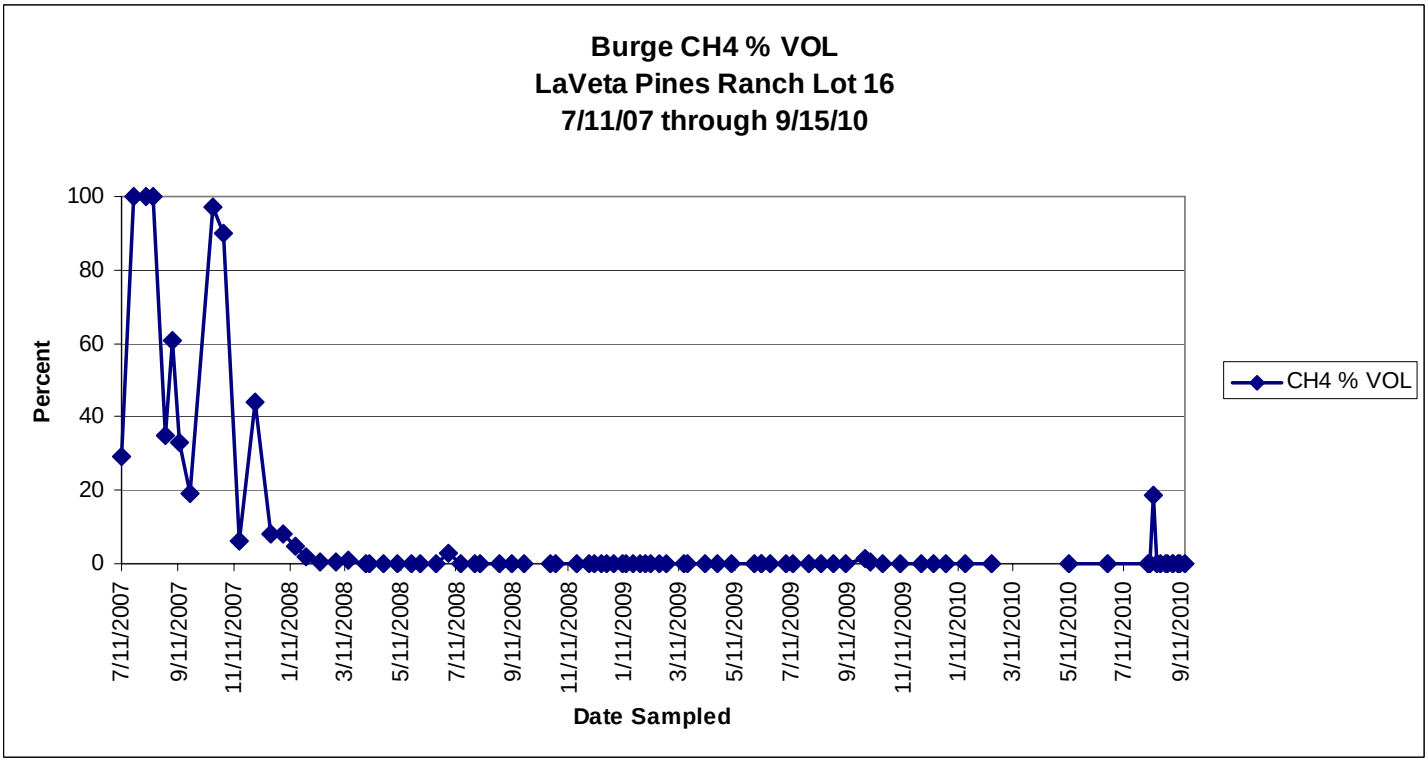

Bergman % LEL
River Ridge Ranch Lot 48
7/6/07 through 9/15/10
Percent
100
80
60
40
20
0
8/7/2007
10/7/2007
12/7/2007
2/7/2008
4/7/2008
6/7/2008
8/7/2008
10/7/2008
12/7/2008
2/7/2009
4/7/2009
6/7/2009
8/7/2009
10/7/2009
12/7/2009
2/7/2010
4/7/2010
6/7/2010
8/7/2010
Date Sampled
% LEL


Bergman CH4 % VOL
River Ridge Ranch Lot 48
7/6/07 through 9/15/10
Percent
100
80
60
40
20
0
8/7/2007
10/7/2007
12/7/2007
2/7/2008
4/7/2008
6/7/2008
8/7/2008
10/7/2008
12/7/2008
2/7/2009
4/7/2009
6/7/2009
8/7/2009
10/7/2009
12/7/2009
2/7/2010
4/7/2010
6/7/2010
8/7/2010
Date Sampled
CH4 % VOL


Kerman % LEL
River Ridge Ranch Lot 78
7/6/07 through 9/15/10
Percent
100
80
60
40
20
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
11/6/2009
1/6/2010
3/6/2010
5/6/2010
7/6/2010
9/6/2010
Date Sampled
% LEL


Kerman CH4 % VOL
River Ridge Ranch Lot 78
7/6/07 through 9/15/10
Percent
50
40
30
20
10
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
11/6/2009
1/6/2010
3/6/2010
5/6/2010
7/6/2010
9/6/2010
Date Sampled
CH4 % VOL


Burge % LEL
LaVeta Pines Ranch Lot 16
7/11/07 through 9/15/10
Percent
100
80
60
40
20
0
7/11/2007
9/11/2007
11/11/2007
1/11/2008
3/11/2008
5/11/2008
7/11/2008
9/11/2008
11/11/2008
1/11/2009
3/11/2009
5/11/2009
7/11/2009
9/11/2009
11/11/2009
1/11/2010
3/11/2010
5/11/2010
7/11/2010
9/11/2010
Date Sampled
% LEL


Burge CH4 % VOL
LaVeta Pines Ranch Lot 16
7/11/07 through 9/15/10
Percent
100
80
60
40
20
0
7/11/2007
9/11/2007
11/11/2007
1/11/2008
3/11/2008
5/11/2008
7/11/2008
9/11/2008
11/11/2008
1/11/2009
3/11/2009
5/11/2009
7/11/2009
9/11/2009
11/11/2009
1/11/2010
3/11/2010
5/11/2010
7/11/2010
9/11/2010
Date Sampled
CH4 % VOL