Petroglyph Operating Company
October 2009
Monthly Report

Covering the period of 9/23/09 through 11/1//09

Prepared for
Colorado Oil and Gas Conservation Commission

November 9, 2009

Prepared by

Norwest Corporation
950 S. Cherry, Suite 800
Denver, CO 80246

(Intentionally Left Blank)

Table of Contents

1.0 Phase I Remediation System 1
2.0 Phase II Remediation System 2
3.0 Ongoing Investigation 2
Aquifer Characterization 2
Gas Isotope, Dissolved Methane and Water Quality Sampling 2
Methane Source Investigation 2
4.0 Monitoring 3
Down-hole Pressure and Fluid Level Monitoring 3
Gas Flow Monitoring In Domestic Wells 4
Bi-Weekly and Monthly Water Well Monitoring 5
Hand Held Measurements 8
5.0 Mitigation 8
Methane Alarms 8
Water Supply 8
Public Outreach 8
Health and Safety/Emergency Planning 8
6.0 Schedule 8

List of Tables

Table 1: Recovery and Injection Rates associated with Phase 1 MIMMP 10
Table 2: Sampling of Dissolved Gases in Water Wells 11
Table 3 Water Well Measurements for the Period of October 2009 16
Table 4 Methane Readings Schedule 24
Table 5a Handheld Measurements, Methane Seeps 28
Table 5b Handheld Measurements, Methane at Residences 29
Table 5 Residences Receiving Water 31

List of Attachments

Attachment 1 - Gas Flow in Monitoring Well POCI 55, Recovery 1 Kittleson, Recovery 3 PEI, and Recovery 4 Barrett 32
Attachment 2 - Graphs of Pressure and Fluid Level Data From POCI 55, Barrett, Bergman, Bruington, Coleman, Evenden, Garza-Vela and Meyer 37
Attachment 3 Fluid Levels in Petroglyph Production Wells 46
Attachment 4 Comparison of Fluid Levels in Production Wells and Private Wells 63
Attachment 5 - Gas Flow Measurements at Bruington, Coleman, Angely, Bounds, and Smith 66
Attachment 6 Dissolved Gas Concentrations in Private Water Wells near the Mitigation Project 72

(Intentionally Left Blank)

Petroglyph Operating Company, Inc.
Monthly Report – September 2009

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 November 1, 2009. 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 I Remediation System

The Phase I remediation system associated with the Methane Investigation, Monitoring and Mitigation Program (MIMMP) has been operational for approximately eleven months beginning on December 8, 2008. The system was started with pumping from Recovery 1 Kittleson and Recovery 3 PEI. Recovery 1 gas production has dropped from approximately 25.7 MCFD at the start of mitigation to approximately 5.68 MCFD on September 16, 2009, the last measurement date for the last reporting period. During this reporting period gas flows continued to steadily drop and there was no measurable gas flow on the last recorded date of October 22nd. Recovery 3 gas flows were measured at approximately 0.75 MCFD at the start of mitigation and increased to approximately 1 MCFD and remained around 1 until late February and then began a slow and steady decline. During this reporting period the gas flows dropped to 0.1195 MCFD on October 22, 2009. Recovery 4 has shown the most variability ranging between 0.9 MCFD and 0 until mid April when the readings were consistently under 0.001 MCFD. Readings at Recovery 4 showed an increase beginning in late July/early August and have been a bit variable since that time. During this reporting period the readings varied between a low of 0.1227 and 0.4 MCFD, ending the period at 0.2961 on October 22nd. The average pumping rate for Recovery 1 was 19 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). Recovery 4 is not functioning properly as explained in previous monthly reports and has not been pumped since early April 2009.

Petroglyph has provided information to the EPA, COGCC and the Division of Water Resources to convert the Todd Masters water well to a recovery well. Water from this well will be injected back into Injection 6 Masters located in close proximity to the recovery well. Petroglyph believes that this well will yield both water and gas and make an appropriate addition to continue to reduce the methane gas in the Poison Canyon Formation. The Division of Water Resources has issued an approval for use of the Masters well as a recovery well.

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 passive venting of mitigation wells began.

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 1.0 to 6.5 gpm. 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. All of the approximately 8.9 million gallons of water that have been recovered have been re-injected following methane off gassing.

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.

2.0 Phase II Remediation System

Petroglyph submitted the Phase II Methane Remediation System Class V Underground Injection Control (UIC) permit application to Region 8 of the EPA on January 7, 2009. The draft permit has been issued for public comment and a public meeting was held in Walsenburg on August 10th. The EPA had indicated approximately two months will be required to review and respond to the comments received; however this two month period has passed and EPA has not yet completed their responses to comments. The time frame for completion of the EPA responses is unknown. A Colorado Division of Water Resources application for the Phase II system was submitted on February 18, 2009 and is under review.

3.0 Ongoing Investigation

Aquifer Characterization

Petroglyph continues to evaluate data collected through the remediation system operation and ongoing monitoring to refine the aquifer characterization.

Gas Isotope, Dissolved Methane and Water Quality Sampling

The attached data disk includes the results from two gas analyses received during this reporting period. In addition the data disk includes the results for four water analyses including dissolved gas; two dissolved gas including (methane, ethane and ethane) samples; and three dissolved methane only samples. The results for all dissolved methane sampling collected 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.

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. Monitoring of the BLM well continues and the well continues to show unmeasurably low levels of gas flow. Handheld measurements show >100% lower explosive limit, 100% CH_4 by volume and 0% by volume O_2. The Haupt #1 well drilled closer to the outcrop and handheld measurements around this well show >100% lower explosive limit, 7% CH_4 by volume and low to 0%

volume O_2. 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.

4.0 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 Evenden located in the Silver Spurs Ranch Subdivision. The transducer in the Garza-Vela well in City Ranch was repaired during this period and monitoring data for this well is included. Petroglyph installed a new transducer in the Coleman well on September 29th so this well was monitored during the reporting period. The Meyer pressure transducer was repaired on October 10th and data is reported for this well from the 10th through the 26th of October.

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.

Barrett and Bergman showed essentially the same fluid levels throughout the monitoring period with some slight ups and downs but starting and ending at the same elevations (6266 ft. for Barrett and 6356 ft. for Bergman). POCI 55 showed a slight overall rise during the period from 6266 ft. to 6228 ft. The Bruington well continues to show an upward trend in water levels with a rise of 4 feet during the reporting period from 6047 ft. to 6052 ft. Coleman showed a slight rise in the short monitoring record after the transducer was replaced (from 6230 ft. to 6232 ft.). Garza Vela showed an increase of 2 feet in elevation from 6291 ft. to 6293 ft. Evenden was fairly constant throughout the period until the very last reading on October 26th when the levels increased from 6234 ft. to 6249 ft in elevation. When the Garza Vela transducer was replaced and measurements restarted water levels varied from 1 to 2 feet higher than prior to the transducer failing in early June. The readings for this reporting period, after the pressure transducer was repaired, were approximately 6107.2 feet in elevation while before the failure they were approximately 6108.6 feet.

Petroglyph Production Wells

Fourteen Petroglyph production wells are currently monitored for fluid level and casing pressure: Lively 02-02, Lively 02-12, Lively 02-03, Lively 03-01, Lively 03-10, Lively 03-12, Lively 10-04, Rohr 04-10, Rohr 04-14, Rohr 09-05, Rohr 09-10, State 36-02, State 36-05, State 36-11. The downhole pressure sensor in the Rohr 09-05 is back in service. The pressure sensor in the Rohr 04-14 works sometimes, but not consistently. The data from the Rohr 04-14 appear to be accurate when collected. 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 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 are generally rising in all wells as would be expected, although the rate of rise is leveling off. Most of the production wells show elevations between 6075 and 6109 feet.

On September 14th pumping began in Rohr 04-10, 09-04 and 09-10 in order to grab a water sample for analyses. Pumping continued until September 17th a sample was collected. These wells are the wells proposed for pumping for make up water as part of the Phase II pumping and injection system. Samples results have been received and are included in the data disk attached with this report.

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 and domestic wells. 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. Gas flows at Angely and Bounds were not measured during this reporting period.

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 Coleman well only shows gas when the well is initially pumped. Flows were estimated when pumping since the chart was not rotating but were estimated at 53 MCFD with a duration of 30 minutes.

A drop in gas flow in the domestic wells appears to have occurred in correlation with the drilling of remediation system wells and venting of gas through these 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 currently monitors for methane gas levels near approximately 91 wells 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. No new wells were added during the reporting period.

Table 3 shows all of the wells that have been 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 has been added to the table.

Of the 91 wells, 8 were not sampled during this reporting period. Sampling may vary during any one reporting period due to a variety of reasons. During this reporting period 10 wells were sampled once, 46 wells were sampled twice and 27 wells were sampled three times.

As shown on Table 3, the comparison of monitoring results for the 83 wells sampled during this period with previous results showed that overall gas levels at 48 wells had no change from the previous monitoring period measurements. All of those 48 wells with no changes had 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. Of the remaining 35 wells, 26 showed increases in methane, with 9 of those only slight increases and 9 showed decreases with 1 of those wells showing a slight decrease.

Petroglyph compared those wells showing detectable methane 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 1-1.25 miles of the outcrop. Of the 26 wells showing increases in methane (including 9 with only slight increases), 17 are believed to have been drilled into the Raton/Vermejo/Pierre Shale Formations based on well depths in well logs available from the State Engineer and/or showed coal in the drilling logs. Of the remaining 9 wells, well drilling and completion information has not yet been researched for 2 wells and the remaining 7 wells are drilled into the Poison Canyon with 4 of those wells located within or in close proximity to the remediation system and the remaining wells located near the outcrop.

The breakdown by subdivision or area as on Table 3 is as follows:

Within 1 Mile of Remediation System

Current

- Gas near 26 wellheads monitored
- 5 wellheads not sampled during this reporting period
- 12 wellheads showed no change and no detectable methane gas
- 4 wellheads showed increased methane with 2 of those only a slight increase

- 5 wellheads showed decreased methane levels
- Of the 4 wellheads showing increases in methane, only the BLM 15-12 is known to be drilled into the Raton/Vermejo.

Historic

- 11 wellheads have shown no detectable methane ever
- 7 wellheads have shown high levels which subsequently decreased to at or near 0
- 3 wellheads have shown consistently low to 0 levels of methane
- 4 wellheads show consistent readings of methane
- 1 wellhead has shown variable readings

River Ridge Ranch Subdivision and Vicinity Outside of One Mile

Current

- Gas near 23 wellheads monitored
- 2 wellheads not sampled during this reporting period
- 18 wellheads showed no change and no detectable methane gas
- 1 wellhead showed a slight decrease in methane levels, 1 wellhead showed a steep decrease in methane levels and 1 wellhead showed a slight increase in methane levels
- The 1 wellhead showing a slight increase in detectable methane is completed in the Poison Canyon with no indications of coal encountered during drilling

Historic

- 18 wellheads have shown no detectable methane ever
- 4 wellheads have shown consistently low to 0 levels of methane
- 1 wellhead shows consistent methane readings

City Ranch and Other Properties

Current

- Gas near 15 wellheads monitored
- All wellheads were sampled during the reporting period
- 7 wellheads showed no change and no detectable methane gas
- 6 wellheads showed an increase with 3 wellheads only a slight increase in methane gas
- 2 wellheads showed a decrease in methane levels
- Of the 6 wellheads showing increases in detectable methane, all are known to be drilled into the Raton/Vermejo and lie within 1.25 miles of the outcrop.

Historic

- 4 wellheads have shown no detectable methane ever
- 5 wellheads have shown high or variable levels which subsequently decreased to at or near 0
- 1 wellhead have shown consistently low to 0 levels of methane
- 1 wellhead showed widely variable readings from 0 to higher levels

- 2 wellheads have shown consistent readings of methane
- 2 wellheads have had only limited sampling but both have shown detectable methane

Silver Spurs Ranch

Current

- Gas near 26 wellheads monitored
- 1 wellhead was not sampled during the reporting period
- 10 wellheads showed no change and no detectable methane
- 15 wellheads showed an increase in methane levels with 3 of those wellheads showing only a slight increase
- Of the 15 wellheads showing increases in detectable methane levels, at least 12 are known to be drilled into or through the Raton/Vermejo Formation or through coals and lie within 1 mile of the outcrop.

Historic

- 6 wellheads have shown no detectable methane ever
- 11 wellheads have shown consistently low to 0 levels of methane
- 1 wellhead shows consistent readings
- 1 wellhead has shown increasing readings
- 4 wellheads have shown variable readings
- 4 wellheads have had only limited sampling with no detectable methane in any of these wells to date

Black Hawk Ranch

Current

- The domestic well which is monitored at Black Hawk Ranch (Goza) showed no detectable methane and no change from previous measurements

Historic

- The wellhead sampled at Black Hawk Ranch has never shown any detectable levels of methane

Table 4 shows the current monitoring schedule including which wells are monitored bi-weekly and which wells are monitored monthly or at a different frequency. There were no changes to the monitoring points during this reporting period. The schedule has been updated to include the most recently approved monitoring schedule.

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. The Houghtling wellhead readings have shown an overall decrease in CH_4 % volume since early August although the LEL remains at >100%. Hopke showed an increase in CH4% during the reporting period. Both Derowitsch and Golden Cycle land (Goemmer 1) showed a decrease during the reporting period with Golden Cycle ending the period at 0 for both % LEL and CH4% by volume. Lively 10-02 decreased from early September to early October and then increased to 60%

LEL and 3% by volume CH4 by the end of the reporting period. Other wellhead readings have remained consistent with previous measurements.

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.

A new helicopter survey for methane was conducted on September 4th and 5th. The data from this survey will be verified on the ground using hand held measurements. Once the hand haled surveys have been completed the data from the helicopter and hand held surveys will be submitted to the COGCC under separate cover.

5.0 Mitigation

Methane Alarms

During this reporting period the Kerman/Hanson Home Gas Monitor was re-calibrated. No other 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

No public outreach activities occurred during the reporting period.

Health and Safety/Emergency Planning

No changes to Petroglyph's health, safety and emergency planning occurred during the reporting period.

6.0 Schedule

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

- Continued pumping and injection of the Phase I system with ongoing monitoring to evaluate the response in surrounding wells.
- EPA continued review of Phase II UIC Permit. There is a 30 day waiting period prior to the permit becoming effective.

- Routine bi-weekly and monthly sampling will continue with new sampling sites added as needed. Sampling will be adjusted based on the monitoring results in accordance with the Petroglyph Monitoring and Response Plan submitted to the COGCC on April 7, 2008 and the subsequent approved reduction letter dated January 27, 2009 and approved February 10, 2009.
- Hand held seep monitoring will continue as needed.

Table 1: Recovery and Injection Rates associated with Phase I MIMMP (as of 10/31/09)							
Well Number	**TD**	**PBTD**	**Injection Tubing Depth**	**Start-up Date**	**Average Injection Rate (gpm)**	**Water Totals as of 8/23/09 (gal)**	**Notes**
Injection 01 Pascual	600	526	458	12/9/2008	1.0	469,000	
Injection 02 Gonzales	600	575	362	12/10/2008	1.1	466,100	
Injection 03 Benevides	725	629	454	12/10/2008	1.3	494,000	Decreased injection rate from 1.4 to 1.1, 8/25/09
Injection 04 Rohr	675	667	455	12/9/2008	5.1	2,301,000	Decreased injection rate from 6.4 to 5.1, 8/25/09
Injection 05 Rohr	750	735	458	12/10/2008	6.5	2,755,000	Decreased injection rate from 8.4 to 6.1, 8/25/09
Injection 06 Masters	725	695	438	12/10/2008	5.1	1,992,000	Decreased injection rate from 6.3 to 5.1, 8/25/09
Injection 07 Walden	750	713	457	12/10/2008	1.0	408,000	
Injection 08 Haeffner	650	713	365	12/10/2008	see note	2,420	Well does not accept water very well. Inject approx. 150 gallons once every two weeks.
			Pump Depth		**Average Pump Rate (gpm)**		
Recovery 1 Kittleson	715	705	686	12/8/2008	19.00	8,177,000	Decreased pump rate from 22.5 to 19, 8/25/09.
Recovery 3 PEI	625	591	575	12/8/2008	1 (see note)	422,000	Intermittent pumping at 4 gpm. Rate over 24 hrs is approx 1 gpm
Recovery 4 Barrett	500	484	463	2/10/2009	(see note)	3,600	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

Table 2: Sampling of Dissolved Gases in Water Wells					
	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 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 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

Table 2: Sampling of Dissolved Gases in Water Wells					
	Well	**Sample Date**	**Analyte**	**Results (In ug/l)**	**Comments**
	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 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
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

Table 2: Sampling of Dissolved Gases in Water Wells					
	Well	**Sample Date**	**Analyte**	**Results (In ug/l)**	**Comments**
	Conley, J	3/24/08	Methane	ND	
	Conley, J	12/4/08	Ethane	U	
	Conley, J	12/4/08	Methane	1.5	
	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
	Deroswitch, D	3/1/08	Methane	4,000	
	Deroswitch, D	1/15/09	Ethane	4.1	
	Deroswitch, D	1/15/09	Methane	2,200	
	English, B	3/14/08	Methane	ND	
	English, B	12/8/08	Ethane	U	
	English, B	12/8/08	Methane	U	
	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	U	
	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	U	
	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	
	Masters, T	6/29/09	Ethane	10	
	Masters, T	6/29/09	Ethene	2.4	
	Masters, T	6/29/09	Methane	14,000	
	McPherson	3/29/08	Methane	54	
	McPherson, P	12/4/08	Ethane	U	
	McPherson, P	12/4/08	Methane	950	
	McPherson, P	6/3/09	Ethane	16	
	McPherson, P	6/3/09	Ethene	24	

Table 2: Sampling of Dissolved Gases in Water Wells					
	Well	**Sample Date**	**Analyte**	**Results (In ug/l)**	**Comments**
	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	U	
	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	U	
	Goodwin, R	12/15/08	Methane	U	
	Goodwin, R	6/29/09	Ethane	1.6	
	Goodwin, R	6/29/09	Ethene	2.4	
	Goodwin, R	6/29/09	Methane	5.2	
	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	U	
	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	
	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	Methene	22,000	
	Fitzner, P	12/1/08	Methane	4,600	
	Geisklbrecht, G	9/30/08	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	

Table 2: Sampling of Dissolved Gases in Water Wells					
	Well	**Sample Date**	**Analyte**	**Results (In ug/l)**	**Comments**
	Morine, J	1/15/09	Methane	14	
	Palmer (GIS)	10/1/08	Methane	ND	
	Stetler	3/20/09	Methane	20,000	
	Stetler	3/20/09	Ethane	50	
	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
	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	
	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

Shading indicates sampling added since last reporting period.

Table 3
Water Well Measurements for the Period of October 2009

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	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	9/1/09	None	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 12/10/08 and 3/18/09 readings.	Not sampled during this reporting period.
257994	Barrett	7/12/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	Methane detected at levels >100 % LEL and above 10% CH4 by volume until approximately 9/4/07, then began dropping through 3/25/09 and have remained at or near 0 since that time.	• % LEL decreased from 58 to 8 with a high reading of >100 on 10/6/09 • CH4% volume decreased from 2.9 to 0.4 with a high reading of 6.00 on 10/6/09 • O2% volume decreased from 20.9 to 19 with a low reading of 0.9 on 10/6/09 • CO remained unchanged at 0 ppm • H2S decreased from 2.0 to 0 ppm
244403	Bergman	7/6/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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.	• % LEL increased from 31 to >100 • CH4% volume increased from 1.55 to a high of 11 and was 6 in the last reading • O2% volume decreased from 19.9 to 14.3 • CO and H2S remained unchanged at 0 ppm
181278	Bounds	7/12/07	9/01/09	None	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 with variable levels after that time.	Bounds well sampled by others. No results received for this reporting period.
169043	Burge	3/20/09	10/19/09	10/1/09, 10/6/09 and 10/19/09	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 increased from 0 to 27 and dropped back to 0 in the last reading • CH4% volume increased from 0 to 1.35 and dropped back to 0 in the last reading • O2% volume decreased from 20.9 to 14.8 and increased back to 20.9 in the last reading • CO2 and H2S remained unchanged at 0 ppm
267694	Coleman	7/5/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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. Most recent reading showed a detectable level of methane. Well vent has shown more variable and generally higher readings than the wellhead.	At the wellhead no change from previous measurements, with 0% LEL and CH4, O2% volume at 20.9 and no detectable CO and H2S. At the well vent: • % LEL increased from 17 to 59 with a high reading of 89 on 10/6/09 • CH4% volume increased from 0.85 to a high of 4.45 and was 2.95in the last reading • O2% volume decreased from 20.9 to 8.6 CO and H2S remained unchanged at 0 ppm
235516	Colorado Switzer	7/12/07	10/19/09	10/1/09 and 10/19/09	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.
255929	Conley	7/11/07	6/15/09	None	No methane has ever been detected at this wellhead.	Sampling attempted 10/1 and 10/19/09 but gate was locked with no access.
260097	Dee	7/5/07	7/30/09	None	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. (See note regarding anomalous reading on 7/30/09 under “History.”)

Table 3
Water Well Measurements for the Period of October 2009

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
252931	Derowitsch	7/6/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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 0 since that time. Both the well vent and cistern have historically shown very low to 0 levels of methane. Late September and October 2009 readings at the well vent indicate levels of methane although the cistern shows no detectable methane during that time period.	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 60 to 6% • CH4% volume decreased from 3 to 0.3% • O2% volume decreased from 20.9 to a low of 13.4 and was 20.7 in the last reading • CO and H2S remained unchanged at 0 ppm At the cistern there was no change with no detectable methane, O2% at 20.9 and 0 ppm CO. H2S increased from 0 to 12.5 ppm
235515	English	8/16/07	8/24/089	None	No methane has ever been detected at this wellhead.	Reading was attempted on 10/1 and 10/19/09 but the gate was locked with no access.
16861-F	Golden Cycle Land	7/12/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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 decreased from >100 to 0 • CH4% volume decreased from 12 to 0 • O2% increased from 15.3 to 20.9 • CO decreased from 47 ppm to 0 ppm • H2S decreased from 3 ppm to 0 ppm
253317	Gonzalez	7/12/07	10/19/09	10/1/09 and 10/19/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% at 20.9 and no CO or H2S.
256504	Hopke	7/5/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	Readings consistently measure methane at >100% LEL and at values of CH4% by volume fairly consistently above 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 increased from 25 to 59 • O2% volume decreased from 15.1 to 8.6 • CO and H2S remained unchanged at 0 ppm 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.
236272	Houghtling	7/6/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	Methane levels at this wellhead have been consistently >100% LEL with CH4% by volume fairly consistently above 20 with some 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 74 to 5.9 • O2% volume increased from 0 to 8.6 • CO and H2S remained unchanged at 0 ppm No reading was taken at the cistern.
35292	Kerman/Hanson	7/6/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	Values at this wellhead have been at or near 0 with two readings of >100% LEL and greater than 5% by volume CH$ on 12/2/08 and 12/22/08. No methane has ever been detected at the cistern.	No change from previous measurements with 0% LEL, no detectable methane, O2% at 20.9 and no CO or H2S. The cistern values remained unchanged with no detectable methane, O2% at 20.9 and no CO or H2S.
	Lively 10-02	12/22/2008	10/19/09	10/1/09, 10/6/09 and 10/19/09	Readings from this well are somewhat variable with mostly 0 to low levels of methane and higher readings of >100% LEL and 5% or greater by volume CH4 from 1/14/09 to 1/26/09 and 5/1/09 to 5/5/09.	At the wellhead: • % LEL decreased from >100 to a low of 9 and ended the period at 59 • CH4% volume decreased from 5.00 to 0.45 and ended the period at 2.95 • O2% volume increased from 0 to 11.2 and ended the period at 8.6 • CO increased from 74 to 113 ppm • H2S decreased from 6.5 to 4 ppm
222539	Lively	7/6/07	10/1/09	10/1/09	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.
16861-F	Masters #1	8/13/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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.

Table 3
Water Well Measurements for the Period of October 2009

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
257113	Masters #2	7/6/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	Methane is typically not detected at this wellhead. For the period from 9/24/07 through 10/30/07 low values of methane were detected with 10 % or less LEL and 1 % by volume or less CH4. The 7/13/09 reading also detected methane at higher levels.	• % LEL increased from 0 to a high of 10 with the last reading at 6 • CH4% volume increased from 0 to 0.5 with the last reading at 0.3 • O2% decreased from 20.9 to a low of 20.4 with the last reading at 20.9 • CO and H2S remained at 0
271136	May	7/12/07	10/19/09	10/1/09 and 10/19/09	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.
84108-A	McPherson	7/6/07	10/19/09	10/1/09 and 10/19/09	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.
84106	Rohr	7/06/07	10/1/09	10/1/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane and CO and H2S at 0 ppm. O2% volume showed a decrease from 20.9 to 16.3.
123144	Searle	7/11/07	10/19/09	10/1/09 and 10/19/09	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.
239657	Smith	7/5/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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.	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. The 10/6/09 measurements showed 18%LEL, 0.9%CH4, and 15.8 %O2vol. At the well vent: there was no reading on 10/1/09 with the remaining readings as follows • % LEL remained at >100 • CH4% volume increased from 39 to 56 and was 27 in the last reading • O2% volume increased from 9.9 to 14 . • CO remained at 0 ppm and H2S decreased from 3.5 to 0 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	10/19/09	10/1/09 and 10/19/09	The limited number of readings at this wellhead have shown detectable methane and limited O2% volume.	• % LEL remained unchanged at >100 • CH4% volume increased from 88 to 100 • O2% volume remained at 0 with a higher reading of 5.9 on 10/1/09 • CO increased from 0 to 3 ppm • H2S remained at 0 ppm
Wells Within or in Close Proximity to River Ridge Ranch Subdivision						
249362	Andexler	9/9/07	10/19/09	10/1/09 and 10/19/09	Two readings (3/25/09 and 7/30/09) have shown less the 0.25% CH4 methane, otherwise no detectable methane.	At the well head: • % LEL increased from 0 to 5 ppm • CH4% increased from 0 to 0.25 • O2% decreased from 20.9 to 13.3 • CO and H2S remained at 0 ppm Cistern showed no change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
215706	Brice	7/12/07	10/19/09	10/1/09 and 10/19/09	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. Cistern 1 and Cistern 2 at this site also had no detectable methane.
248680	Campbell	8/14/07	10/19/09	10/1/09 and 10/19/09	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.
270552	Chaves	9/9/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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.
20783	Goemmer Cattle	7/12/07	10/1/09	10/1/09	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.

Table 3
Water Well Measurements for the Period of October 2009

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
258815	Goodwin	7/12/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	Readings have shown methane levels at or near 0 with no readings above 0 since 1/26/09.	No change from previous measurements with no detectable methane, O2% at 20.9, no detectable CO or H2S.
	Haynes	5/5/09	6/4/09	None	No methane has ever been detected at this wellhead.	Not sampled during this reporting period.
249181	Hentschel	9/9/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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.
259122	Higgins	9/26/07	10/20/09	10/1/09, 10/6/09 and 10/20/09	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.
269435	Hoppe (formerly Goacher)	7/11/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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.
264581	Ireland	7/12/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	Typically no methane, but methane has been detected on 12/2/08, 12/22/08, 1/6/09, and 9/24/09 with 100% or greater LEL and 5% by volume CH4.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
	Lang	10/29/07	7/28/08	None	No methane has ever been detected at this wellhead.	Sampling attempted 10/1/09; gate locked with no access to well.
93386	Lowry	7/12/07	10/1/09	10/1/09	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.
250369	Martin	7/12/07	10/19/09	10/1/09 and 10/19/09	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.
248862	Meyer	8/14/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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.	• % LEL remained unchanged at >100 • CH4 % volume decreased from 48 to 34 • O2% volume increased from 9.6 to 11.1 • CO and H2S remained at 0
192203	Rankins	7/12/07	10/1/09	10/1/09	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.
276994	Rhodes	9/9/08	10/19/09	10/1/09 and 10/19/09	Slight LEL (5%) reported 7/30/09, but no methane detected. No methane has ever been previously 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.
274468	Roloff	9/9/07	10/1/09	10/1/09	No methane had ever been detected at this wellhead until low levels were detected in the 8/25/09 measurement.	• % LEL decreased from 19 to 0 • CH4 % volume decreased from 0.95 to 0 • O2% volume increased from 20.1 to 20.9 • CO and H2S remained at 0 • Reading also attempted 10/19/09 but gate was locked with no access.
254577	Ryerson	9/9/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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.
246775	Sharp	9/9/07	10/6/09	10/1/09 and 10/6/09	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.
267695	Speh	9/4/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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.
230572	Willis	7/11/07	10/19/09	10/1/09 and 10/19/09	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.
240947	Wolahan	7/12/07	10/19/09	10/1/09 and 10/19/09	No detectable methane except one measurement on 2/9/09 with levels at 5% LEL and 0.25% by volume CH4.	No change from previous measurements at the wellhead and cistern with both showing 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
City Ranch and Other Properties						
	Andreatta	8/14/07	10/19/09	10/1/09 and 10/19/09	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.
197472	Williams/Bartlett	8/15/07	10/1/09	10/1/09	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.

Table 3
Water Well Measurements for the Period of October 2009

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
210526	Bruington	8/7/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	Wellhead readings have shown consistent levels of methane at >100% LEL and CH4 % by volume at greater than 50. 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.	At the wellhead: • % LEL remained unchanged at >100 • CH4% volume decreased from 86 to 7 • O2% volume increased from 0 to 15.1 • CO remained unchanged at 0 ppm with a reading of 1.5 ppm on 10/6/09 • H2S remained unchanged at 0 with a reading of 3 on 10/6/09 At the cistern: no changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
220100	Cordova	10/30/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	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.	No changes from previous measurements with % LEL and CH4% volume at 0, O2% volume at 20.9 and CO and H2S at 0 ppm
191079	Brian Dale	8/15/07	10/20/09	10/1/09 and 10/20/09	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.	No change from previous measurement at Well #1 or Well #2 with 0% LEL, no detectable methane, O2% volume at 20.9, and CO and H2S at 0 ppm.
193092	Degan	8/25/08	10/20/09	10/1/09 and 10/20/09	Initial readings were variable between 0 and >100% LEL and 5% by volume CH4. Since 2/17/09 there has been 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. The 10/1/09 reading for O2% volume was 20.7.
	Dernell	8/15/07	10/19/09	10/1/09 and 10/19/09	No methane has ever been detected at this wellhead.	No changes from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
258651	Gonzalez	5/22/08	10/19/09	10/1/09, 10/6/09 and 10/19/09	Methane readings were >100% LEL and CH4 % by volume mostly above 20 until 4/9/09 when values began to reduce. Readings since that time have shown % LEL below 50 and CH4 % by volume below 3. There has been no detectable methane at the cistern.	At the wellhead: • % LEL remained unchanged at >100 • CH4% volume increased from 22 to 36 • O2% volume decreased from 15.6 to 12.1 • CO and H2S remained at 0 ppm At the cistern: no changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
	Haupt #1	6/1/09	10/20/09	10/1/09 and 10/20/09	There have been 4 readings from this wellhead. All readings have shown % LEL at >100 with CH4 % by volume at 5-6 and O2% at less than 5.	• % LEL remained at >100 • CH4% volume increased from 5 to 7 with a high reading of 11 on 10/1/09 • O2% volume increased from 0 to 1.3 • CO decreased from 8 ppm to 0 ppm • H2S increased from 0 to 3.5 ppm
203536	Hurley	8/2/07	10/20/09	10/1/09 and 10/20/09	Readings have fairly consistently shown >100% LEL and CH4 % by volume between 10 and 50 with a couple lower readings. H2S has also been measured, but starting around 9/08 values have been reduced to at or near 0 ppm.	At the wellhead: • % LEL remained at >100 with a low reading of 8 on 10/1/09 • CH4% volume increased from 5 to 16 with a low reading of 0.4 on 10/1/09 • O2% volume decreased slightly from 17 to 16.4 • CO and H2S remained unchanged at 0 ppm No readings were taken at the cistern

Table 3
Water Well Measurements for the Period of October 2009

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
205195	Johnson	8/15/07	10/20/09	10/1/09 and 10/20/09	Readings have shown mostly low values of methane (% LEL less than 20 and CH4 % by volume less than 1) with some 0 values. No detectable methane since 4/22/09.	At the wellhead: • % LEL increased from 0 to 59 • CH4% volume increased from 0 to 2.95 • O2% volume decreased from 20.9 to 13.4 • CO remained unchanged at 0 ppm • H2S increased from 0 to 3.5 ppm Reading at the cistern showed no detectable methane, O2% volume at 20.9 and no CO or H2S. At the #2 well: • % LEL increased from 0 to >100 • CH4% volume increased from 0 to 5 • O2% volume decreased from 20.9 to 0 • CO and H2S remained unchanged at 0 ppm
193520X	McEntee	8/2/07	10/20/09	10/1/09 and 10/20/09	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). No values above 0 since 4/22/09.	At the wellhead: • % LEL increased from 0 to 7 • CH4% volume increased from 0 to 0.35 • O2% volume decreased from 20.9 to 18.5 • CO and H2S remained unchanged at 0 ppm At the east wellhead there were no changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
191345	Pennington	8/7/09	10/20/09	10/1/09 and 10/20/09	Four readings have occurred at this well; showing detectable methane with O2% volume at 17 to 20 except for the 10/20 reading at 9.6; no CO and H2S only in the 10/1/ reading at 1.5 ppm..	• % LEL remained at >100 in the first reading and dropped to 25 in the second reading • CH4% volume showed 15 in the first reading and dropped to 0.25 in the second reading • O2% volume showed 9.6 in the first reading and increased to 20 in the second reading • CO remained at 0 ppm • H2S increased from 0 to 1.5 ppm.
121013	Schafer	8/15/07	10/1/09	10/1/09	No methane has ever been detected at this wellhead	No changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
248983	Tobyas	8/3/07	10/19/09	10/1/09, 10/6/09 and 10/19/09	Historically this wellhead has shown wide variance between o and higher methane values of >100% LEL and greater than 5% by volume CH4 with no discernable long term trends.	• % LEL remained at >100 • CH4% volume increased from 5 to 34 • O2% volume decreased from 18.6 to 11.1 • CO and H2S remained at 0 ppm
Silver Spurs Ranch						
268180	Billstrand	8/12/08	10/19/09	9/29/09 and 10/19/09	No methane has been detected at this wellhead except for a low reading on 5/6/09 (5% LEL and 0.25% by volume CH4).	No change from previous measurements with no detectable methane and 0 ppm CO and H2S. O2% volume decreased from 20.9 to 14.9.
215807	Brown	12/8/08	10/19/09	9/29/09 and 10/19/09	No methane has ever been detected at this wellhead.	No change from previous measurements with no detectable methane, O2% at 20.9 and 0 ppm CO and H2S.

Table 3
Water Well Measurements for the Period of October 2009

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
222294	Cramer	8/3/07	10/19/09	9/29/09, 10/2/09 and 10/19/09	Most methane readings have been at or near 0 with higher readings on 5/22/08 and 3/26/09 at >100% LEL and 5% by volume CH4.	At the wellhead: • % LEL increased from 0 to >100 in the last reading • CH4% volume increased from 0 to 5.00 • O2% volume decreased from 20.9 to 3.9 • CO increased from 0 to 45 ppm • H2S increased from 0 to 3.5 ppm No change from previous measurements at the cistern with no detectable methane; O2% at 20.9 and 0 ppm CO and H2S.
192509	Eddleman, Paul	1/17/08	10/20/09	9/29/09 and 10/20/09	Readings mostly above >100% LEL and 5% by volume CH$ 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 consistently higher.	At the wellhead: • % LEL increased from 0 to >100 • CH4% increased from 0 to 17 • O2% volume decreased from 20.9 to 0 • CO increased from 0 to 17 ppm • H2S increased from 0 to 1.5 ppm with a high reading of 25 ppm on 9/29/09
226536	Eddleman, Todd	1/17/08	10/20/09	9/29/09 and 10/20/09	Methane readings have been widely variable from 0 to >100% LEL and 5% by volume CH4.	At the wellhead: • % LEL increased from 0 to 37 • CH4% increased from 0 to 1.85 • O2% volume decreased from 20.9 to 5.6 • CO and H2S remained at 0 ppm with a slightly higher reading for H2S (0.5 ppm) on 9/29/09
221465	Evenden	8/2/07	10/19/09	9/29/09 and 10/19/09	Methane readings have generally been at or near 0 with no detectable methane since 4/23/09 and higher readings on 3/24/08 (>100% LEL and 45% by volume methane) and 1/12/09 (>100% LEL and 5% by volume methane).	No changes from previous measurement with no detectable methane, O2% volume at 20.9 and no CO or H2S.
	Fischer	1/26/09	10/12/09	10/12/09	Only one reading has ever detected methane; on 2/17/09 methane values were 5% LEL and 0.25% by volume CH4.	No changes from previous measurement with no detectable methane, O2% volume at 20.9 and no CO or H2S.
214145A	Fitzner	11/18/08	10/19/09	9/29/09 and 10/19/09	Methane levels have been at 0 except for readings on 12/15/08, 1/26/09, 3/26/09 and 10/19/09 when values were >100% LEL and 5% by volume CH4.	At the wellhead: • % LEL increased from 0 to >100 • CH4% increased from 0 to 5.00 • O2% volume decreased from 20.9 to 0 • CO and H2S remained at 0 ppm .
31935	Garza-Vela	1/30/08	10/20/09	9/29/09 and 10/20/09	Generally there is 0 to low methane levels except for readings on 3/1/08, 5/22/08, and 6/3/08.	No change from previous measurements with 0 % LEL and CH4 % volume, O2% volume at 20.9 and CO and H2S at 0 ppm
196372	Geiselbrecht	8/12/08	10/19/09	9/29/09 and 10/19/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0 % LEL and CH4 % volume, O2% volume at 20.9 and CO and H2S at 0 ppm
246350	Gumpert	7/29/08	10/20/09	9/29/09 and 10/20/09	Methane readings have been widely variable with most readings either 0 or >100% LEL and 5% by volume CH4.	At the wellhead: • % LEL increased from 0 to 60 • CH4% increased from 0 to 3.00 • O2% volume decreased from 20.9 to 3.2 • CO and H2S remained at 0 ppm with a slightly higher reading for H2S (0.5 ppm) on 9/29/09
196371	Lyon	8/15/07	10/20/09	9/29/09 and 10/20/09	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.	• % LEL increased from 0 to 41 • CH4% volume increased from 0 to 2.05 • O2% volume decreased from 20.9 to 0.8 • CO and H2S remained unchanged at 0 ppm

Table 3
Water Well Measurements for the Period of October 2009

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
271524-A	Modlish	1/30/08	10/20/09	9/29/09 and 10/20/09	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.	• % LEL increased slightly from 4 to 5 with a 0 reading on 9/29/09 • CH4% volume increased slightly from 0.2 to 0.25 with a 0 reading on 9/29/09 • O2% volume decreased from 6.2 to 2.7 with a reading of 20.9 on 9/29/09 • H2S remained unchanged at 0 ppm • CO increased from 0 to 32 ppm
28093MH	Morine	9/10/08	10/19/09	9/29/09 and 10/19/09	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.	No change from previous measurements with 0 % LEL and CH4 % volume, O2% volume at 20.9 and CO and H2S at 0 ppm
35227MH	Morris	10/8/08	10/20/09	9/29/09 and 10/20/09	Only four readings have occurred at this well with two showing no methane and the other two at 43-44%LEL and 2.15-2.20% CH4 by volume.	• % LEL increased from 0 to 100 • CH4% volume increased from 0 to 5.00 • O2% volume decreased from 20.9 to 1.3 • H2S increased from 0 to 104 ppm CO increased from 0 to 3 ppm
190327	Palmer	8/12/08	10/19/09	9/29/09 and 10/19/09	No methane has ever been detected at this wellhead.	In the last reading of the period: • % LEL increased from 0 to >100 • CH4% volume increased from 0 to 5 • O2% volume decreased from 20.9 to 0 • CO remained unchanged at 0 ppm • H2S increased from 0 to 0.5 ppm
197128	Roberts	4/08/08	9/29/09	9/29/09	Methane readings have historically been widely variable from 0 to >100% LEL and 5% by volume CH4.	• % LEL increased slightly from 22 to 29 • CH4% volume increased slightly from 1.10 to 1.45 • O2% volume decreased from 17.1 to 9.4 • CO remained unchanged at 0 ppm • H2S decreased from 3 to 1 ppm
271748	Sample	3/10/08	10/20/09	9/29/09 and 10/20/09	Most of the readings from this wellhead have been at or near 0 detectable methane with higher readings on 5/22/08, 6/3/08, and 5/20/09 of >100% LEL and 5% by volume CH4.	• % LEL increased from 0 to 27 • CH4% volume increased from 0 to 1.35 • O2% volume decreased from 20.9 to 2.6 • CO increased from 0 to 15 • H2S remained unchanged at 0 ppm
192144	Snow	8/2/07	10/19/09	9/29/09 and 10/19/09	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.	• % LEL increased from 0 to >100 • CH4% volume increased from 0 to 5.00 • O2% volume decreased from 20.9 to 3.4 • CO and H2S remained at 0 with a high H2S reading of 1 ppm on 9/29/09
213070	Stephens	8/12/08	10/19/09	9/29/09 and 10/19/09	No methane has ever been detected at this wellhead.	• % LEL increased from 0 to 5 in last reading • CH4% volume increased from 0 to 0.25 in last reading • O2% volume decreased from 20.9 to 0 • CO and H2S remained at 0 ppm
233286A	Stetler	3/17/09	10/20/09	9/29/09 and 10/20/09	Methane levels have been showing an overall increase since the start of monitoring with levels general very low at the start of monitoring in early 2009 and increasing to present, although not a consistent increase. No methane has ever been detected at the cistern.	• % LEL increased from 0 to 57 • CH4% volume increased from 0 to 2.85 • O2% volume decreased from 20.9 to 17.9 • CO and H2S remained unchanged at 0 ppm (with a reading of 0.5 ppm for H2S on 9/29/09
261753	Wahl	8/5/09	8/5/09	None		Sampling attempted on 9/29/09 and 10/19/09 but gate was locked with no access.
234839	Waltz	8/12/08	10/19/09	9/29/09 and 10/19/09	No methane has ever been detected at this wellhead.	No changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.

Table 3
Water Well Measurements for the Period of October 2009

Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
234836	White, Jim	1/4/08	10/20/09	9/29/09 and 10/20/09	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.	No changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
219376	White, Orlie	8/2/07	10/19/09	9/29/09 and 10/19/09	Methane values historically at low to 0 with %LEL above 100 and CH4 % by volume at 5 to 10 on 5/22/08 and from 9/10/08 to 10/29/08.	• % LEL increased from 0 to>100 • CH4% volume increased from 0 to 5.00 • O2% volume decreased from 20.9 to 0 • CO and H2S remained unchanged at 0 ppm
	Wyland, Rich	9/10/09	10/19/09	9/29/09 and 10/19/09		No change from previous measurement with zero detectable methane, O2% volume at 20.9 and no detectable CO and H2S. O2% volume was 13.9 in 9/29/09 reading.
Black Hawk Ranch						
218719	Goza	1/14/09	10/19/09	10/2/09 and 10/19/09	No methane has ever been detected at this wellhead.	No change from previous measurement with zero detectable methane, O2% volume at 20.9 and no detectable CO and H2S. O2% volume was 18.5 in 10/2/09 reading.

Table 4 Methane Readings Schedule (30 October 2009)							
Landowner	**Subdivision**	**Water Level**	**Cistern**	**Bi-Monthly**	**Monthly**	**Quarterly**	**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			
Masters #2	River Ridge	X		X			
Coleman	River Ridge			X			
BLM 15-12	La Veta Pines				X		
Lively 10-02	River Ridge			X			

Table 4 Methane Readings Schedule (30 October 2009)							
Landowner	**Subdivision**	**Water Level**	**Cistern**	**Bi-Monthly**	**Monthly**	**Quarterly**	**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			
Hurley	City Ranch	X	X		X		
Tobyas	City Ranch			X			

Table 4 Methane Readings Schedule (30 October 2009)							
Landowner	**Subdivision**	**Water Level**	**Cistern**	**Bi-Monthly**	**Monthly**	**Quarterly**	**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 4 Methane Readings Schedule (30 October 2009)							
Landowner	**Subdivision**	**Water Level**	**Cistern**	**Bi-Monthly**	**Monthly**	**Quarterly**	**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		
Stetler	Silver Spurs		X		X		
Black Hawk Ranch							
Goza	Black Hawk				X		

Rohr will be checked Quarterly with Rankin, Lowry, and Goemmer Cattle.
Garbs, Salazar, Wyland, Chaves and Haynes have been removed at request of landowner.
John Fischer location is a mine vent. If possible vent will be monitored with RMLD quarterly.

Table 5a
Handheld Measurements
Methane Seeps
Ground CheckPoint

Location	Date	Time	Weather Conditions	Location	Notes
Hwy 160 & RR Tracks	10/16/09	8:23	Clear & Calm	Hwy 160 & RR Tracks	Background 26-34, N 43-50, S 30-40, E 40-60, W 45-65, N junk pile 50-90, S junk pile 37-56, Swamp 40-79, S depression sink hole 20-45
Dike near Derowitsch	10/16/09	11:55	Partly Cloudy Wind 10-15 mph	Purple F2 Dike on hill behind 10-02.	Background 28-38, Facing Mt. Greenhorn N 50-178, S 60-128, E 30-125, W 30-166. Stake readings. N 96-162, W 38-50, E 40-100, S 64-140.
Dike on hogback behind Lathrop Park	10/16/09	7:30	Clear & Calm	Dike on hogback behind Lathrop Park. C4 - C2 Purple by Lake.	N face of the Lathrop Dike Background readings 24-35, N 30-60, W 35-60, E 35-60, S 30-72. Top ridge of the dike N 60-73, E 25-60, S 37-56, W 30-66. South side of the dike facing the lake background 24-30. West Road 24-60, N 20-70, W 48-60, E 35-45, 61-68, S 22-65.
Ideal Canyon Mine Vent	10/12/09	8:30	Clear	Mine venting along Ideal Canyon Road. Purple A-14.	Background 28-30, N 30-60, S 40-62, E 44-70, W 37-60. Along the road to the west 28-45 and along road to the east 30-58.
Pictou Site (COGCC soil survey area)	10/6/09	12:00	Clear	Old Pictou Camp site (COGCC soil survey area) NW of Walsenburg A - Z.	Background 26-43, N 45-70, S 29-62, E 18-35, W 25-43.
Rohr Water Well	9/9/09	14:40	Clear	Rohr Water Well	Background 25-30, N 40-50, S 30-45, E 25-35, W 50-55.
Old Mine Storage N of Hellifiknow Rd	9/9/09	15:15	Clear	Old mine storage North of Hellifiknow Road	Background 30-40, N 30-35, S 50-60, E 35-40, W 30-40.
Seep by Bound's Home	9/28/09	14:38	Calm	H1-3 Yellow/Purple County Rd seep by Bounds.	Background 27-35, S Road 90-105, Road 290-421, S Road Dead tree 100-150, S Fence 205-386, N Fence 46-170. Dike near Bounds (previous helicopter survey hit 2007-2008) N 28-48, Ring of dead trees 400-1406, N of county road 1640-2000, 20-30 top of dike for an average along ridge.
Montoys Mine Camp	10/6/09	13:00	Clear	Montoya Mine Camp	Background 40-50, N 35-50, S 25-50, E 70-130, W 35-50. Second point N 40-72, S 65-80, E 60-98, W 83-123.
Dike near Coleman	10/16/09	11:55	Clear & Calm	(Y) 37° 32.271; (X) 104° 52.612; (Z) 6820	Background 25-35, N slope 67-95, S slope 59-72, E slope 37-65, W slope 62-85.
Black Hawk Mine	10/12/09	14:55	Cloudy	(Y) 37° 30.333; (X) 104° 42.761; (Z) 6532 (Y) 37° 29.561; (X) 104° 42.733; (Z) 6471	Background 50-60, N 40-50, S 75-110, E 80-190, W 66-125. Along road side 40-60
Pryor Mine	10/12/09	15:10	Cloudy	(Y) 37° 30.520; (X) 104° 42.813; (Z) 6419	Background 30-46, S 70-213, E Road 59-279, N 50-80.
Angely Seep	10/16/09	12:16	10-15 mph wind & Clear	Angely Seep	Background 25-36, N 121-186, S 60-85, E 50-60, W 50-60. Readings collected along the road.
Hopke/Elk Canyon Rd Seep	10/16/09	12:21	10-15 mph wind & Clear	Previous Helicopter Survey 2008 & 2007	Background 30-38, S 40-77, W 42-185, E 57-108, N 62-153. Seep monitored from intersection of county road.
Degan / Walsenburg Mine	10/6/09	8:00	Clear & Calm	Previous Helicopter Survey 2008 & 2007	Background 25-40, N 60-70, S Arroyo 80-90, E 28-42, W 35-45. Mine Dump near arroyo, N 50-100, S 30-45, E 25-30, W 28-57.
McConnell Ranch Mine/ Ideal Canyon	10/6/09		Clear & Breezy	Previous Helicopter Survey 2008 & 2007	Background near mine depression 35-75, Arroyo 80-100, Down Arroyo 120-290, N 80-205, S 44-92, E 49-135, W 25-60. All McConnell Seeps are included in this data. N 55-135, S 63-153, E 19-35, W 45-74. Mine Marker #4, N 58-225, S 45-63, E 115-136, W 63-110. N 40-190, S 28-43, E 50-64, W 38-70.
Gonzales / Hellifiknow Rd.	10/6/09		Clear & Breezy	Previous Helicopter Survey 2008 & 2007	Background 25-35, N 55-72, S 28-35, E 60-100, W 68-110.
Haupt/ Bear Creek Road	10/6/09		Clear & Breezy	Previous Helicopter Survey 2008 & 2007	Petroglyph not allowed on the lot to the south of Haupt. Refer to Haupt lot for data collected from the Calvin Haupt/ Petroglyph Lot.
Cameron Mine/ Bear Creek	10/6/09		Clear & Breezy	Previous Helicopter Survey 2008 & 2007	Background 30-48, N 40-150, S 30-70, E 35-113, W 40-82. Second mine marking N 50-60, S 70-114, E 25-30, 52-98.

Table 5b Handheld Measurements Methane at Residences								
Name	Date	Time	Weather Conditions	North RMLD Readings Outside House	East RMLD Readings Outside House	West RMLD Readings Outside House	South RMLD Readings Outside House	Notes
Kent Smith	9/5/09	14:25	Clear & Calm	16-22	25-33	19-26	23-28	Background 21-33; pasture west 25-30; north pasture 40-45; driveway 30-45.
Mitch Sample	9/10/09	14:36	Clear & Calm	16-30	20-24	23-27	21-34	Background 25-35; driveway 40-50; west septic 55-80.
	10/12/09	10:49	Clear & Calm	20-30	25-36	28-34	22-32	Background 23-36, septic field 60-195, driveway 40-56
Terri Kerman	9/9/09	14:06	Clear & Calm	18-32	24-30	15-32	24-30	Background 20-32, driveway 31-56; septic 40-52
Bruington	9/10/09	15:46	Clear & Breezy	16-23	18-22	18-25	17-22	Background 22-52, driveway 20-30, well 9,000-13,000
Jim White	10/12/09	11:38	Clear	18-34	15-31	35-40	31-34	Background 23-34, septic 42-44, driveway 120-177.
Donald Derowitsch	9/9/09	13:15	Clear & Calm	25-36	16-23	21-36	24-28	Background 18-32; driveway 40-60; west septic field 38-52.
Jack Houghtling	9/9/09	12:09	Clear & Calm	18-32	15-26	22-28	16-26	Background 16-25; driveway 28-48; septic field east 24-36, east septic 43-45, pasture 30-40.
Vince Coleman	9/9/09	12:33	Clear & Calm	18-24	25-34	24-30	17-24	Background 22-36; driveway 27-36; west septic 36-54.
John Ireland / Kevin Murphy	10/13/09	11:00	Clear					Gate locked w/no access to home.
Petroglyph / aka Calvin Haupt	10/6/09	13:00	Clear & Breezy	100-158	40-121	80-125	144-240	Background 19-28. 50 ft. from old home site the readings are N 48-226, S 35-45, W 35-76, E 55-80.
Richard Goodwin	9/9/09	13:39	Clear & Calm	15-20	18-35	18-30	22-30	Background 18-28; driveway 38-40; west septic field 44-65.
	10/13/09	10:25	Clear	19-32	22-36	19-38	20-34	Background 18-26, driveway 48-67, septic field 46-84
Bruce Hopke	9/9/09	12:09	Clear & Calm	19-28	25-34	24-30	25-42	Background 24-36; west septic field 16-58; driveway 32-48
Bill Cordova	9/10/09	16:08	Clear & Breezy	18-23	20-38	19-24	18-36	Background 26-35, septic 45-58.
Paul Eddleman	10/12/09	10:55	Clear & Calm	18-24	18-25	28-34	16-28	Background 24-34, septic field 34-67.
Todd Eddleman	9/10/09	13:59	Clear 10-15 mph wind	22-28	22-26	25-30	26-34	Background 25-35, driveway 40-140.
	10/12/09	9:30	Clear & Breezy	36-43	42-58	22-40	35-70	Background 18-35, driveway 38-57
Roberts	10/12/09	11:48	Clear & Calm					Gate locked with no access to property.
Burge	10/16/09	10:00	Partly Cloudy	22-28	28-54	32-45	40-73	Background 28-36, driveway 45-50, south septic field 40-73.
E Johnson	10/13/09	9:15	Clear	22-37	18-35	20-30	18-36	Background 18-30, driveway 24-48, septic field 44-70
Garza	9/10/09	13:47	Clear 10-15 mph wind	16-20	17-26	16-23	16-18	Background 20-28, driveway 28-72, 42-47, Septic 43-52
	10/12/09	9:28	Clear & Breezy	29-39	20-59	20-30	25-35	Background 25-37, driveway 120-130, 85-130, septic 40-59.
Evenden	9/28/09	13:00	Clear & Breezy	80-90	95-155	80-150	80-228	Background 18-30

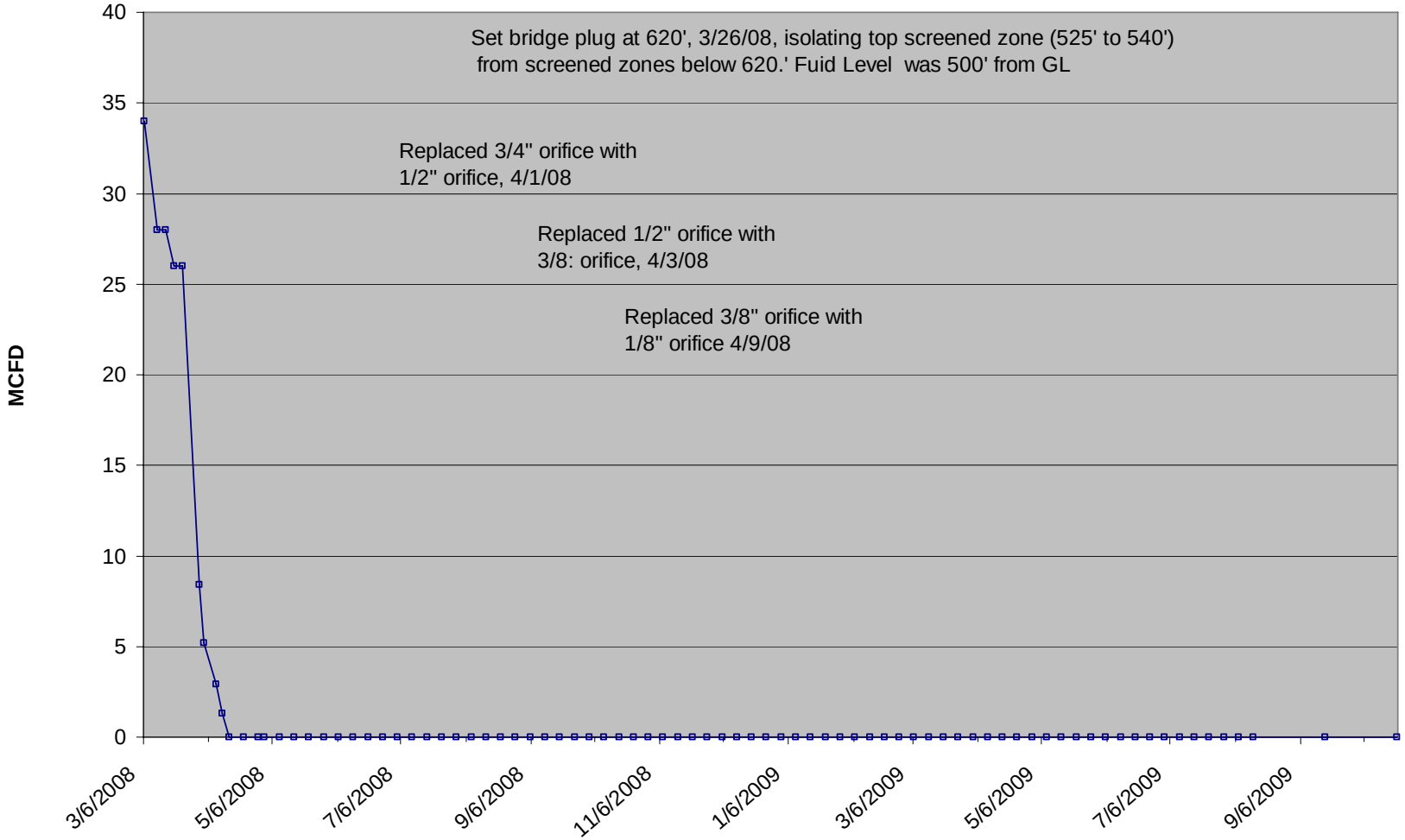
Table 5b Handheld Measurements Methane at Residences								
Name	Date	Time	Weather Conditions	North RMLD Readings Outside House	East RMLD Readings Outside House	West RMLD Readings Outside House	South RMLD Readings Outside House	Notes
Scott Billstrand	10/12/09	11:52	Clear & 5-10 mph wind	18-33	17-30	16-24	18-22	Background 20-33, driveway 34-70, 78-134, Septic 54-155
Orlie White	10/12/09	12:08	Clear & Calm	22-30	19-28	17-36	18-27	Background 24-33, Septic 23-77, driveway 111-239, inside of house on west side 18-20
Fischer, Jack	10/12/09	12:34	Clear	44-135	180-195	40-135	40-65	Bacground 40-50. RKI readings were also taken during site visit. Refer to methane spreadsheet for the readings.
Goza, Charles	10/12/09	14:34	Clear & Calm	22-28	26-34	22-27	20-30	Background 24-40, driveway 30-57, west septic field 51-72
Stetler, J	9/10/09	9:40	Clear & Calm	22-31	20-24	23-27	21-34	Background 25-35, driveway 40-50, septic field 55-80 to the east of the home
	10/12/09	9:50	Clear & Calm	28-36	27-46	20-30	55-80	Background 28-41.
Golden Cycle	9/10/09	8:36	Clear & Breezy	18-12	22-12	15-20	15-20	Background 25-30

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 9

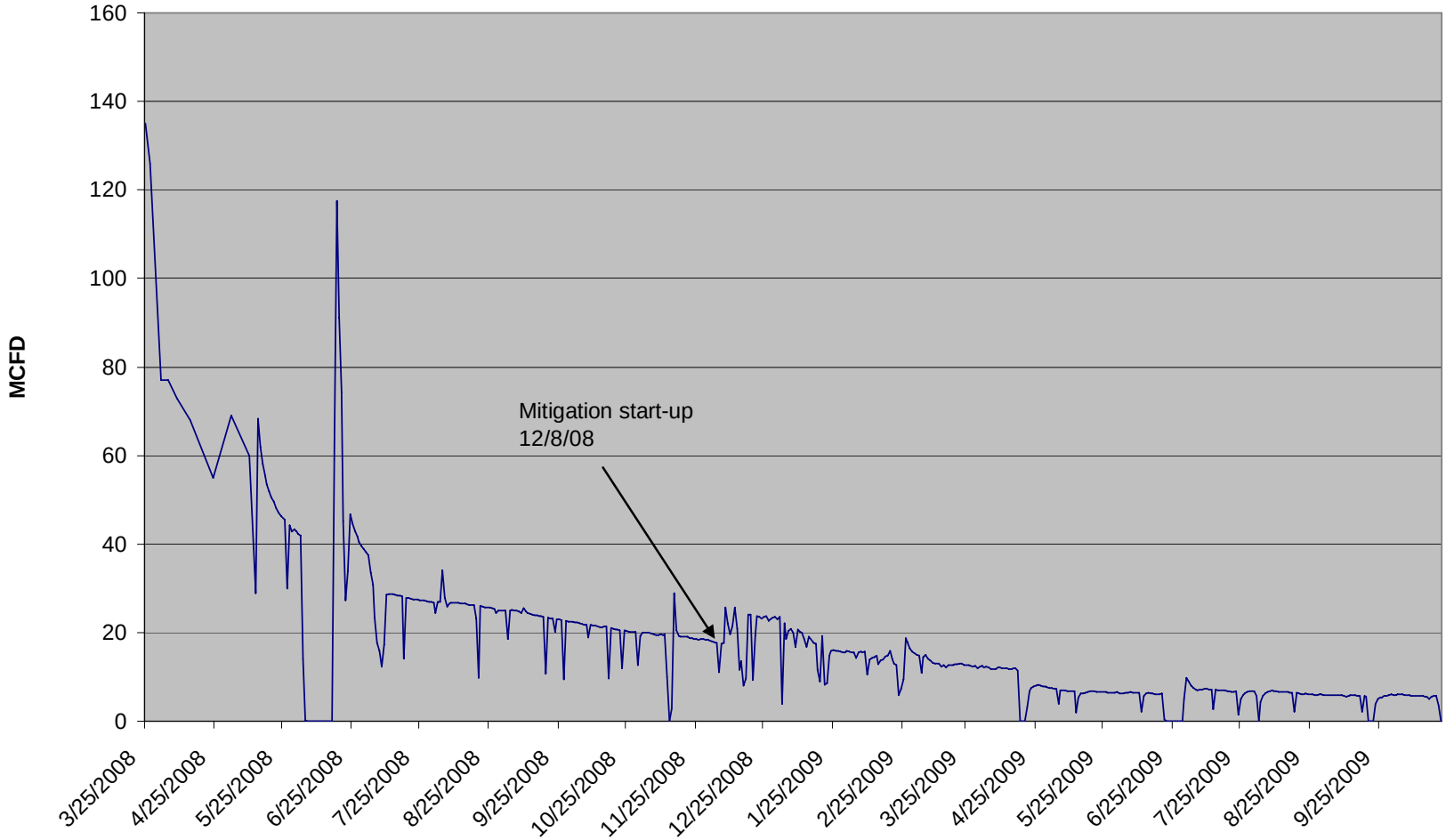
No new residences have been added during this reporting period.

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

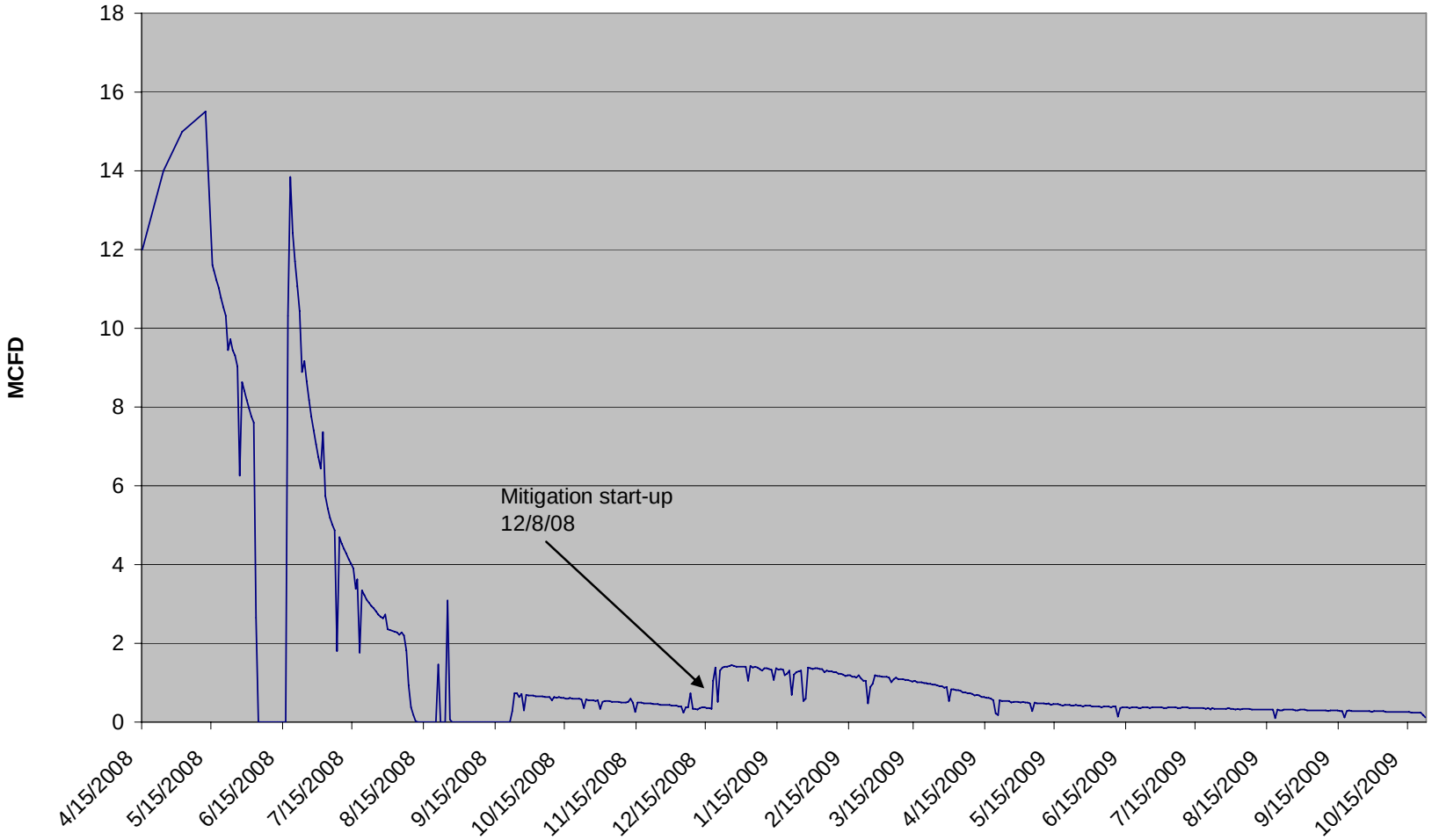
POCI 55 MW Gas Flow from 3/6/08 to 10/21/09



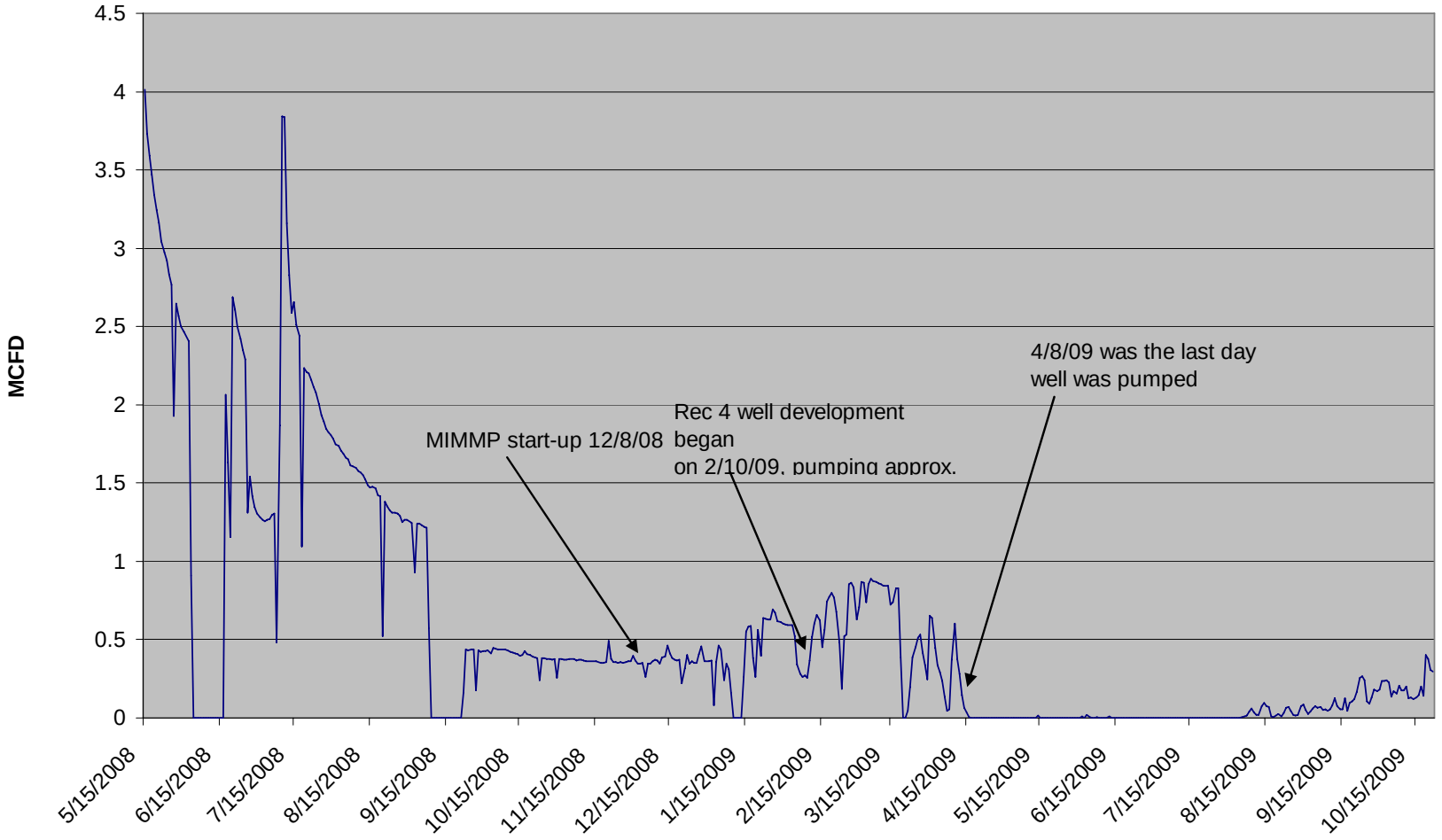
Recovery 1 Kittleson Gas Flow
from 3/25/08 to 10/22/09



Recovery 3 PEI Gas Flow
from 4/15/08 to 10/22/09

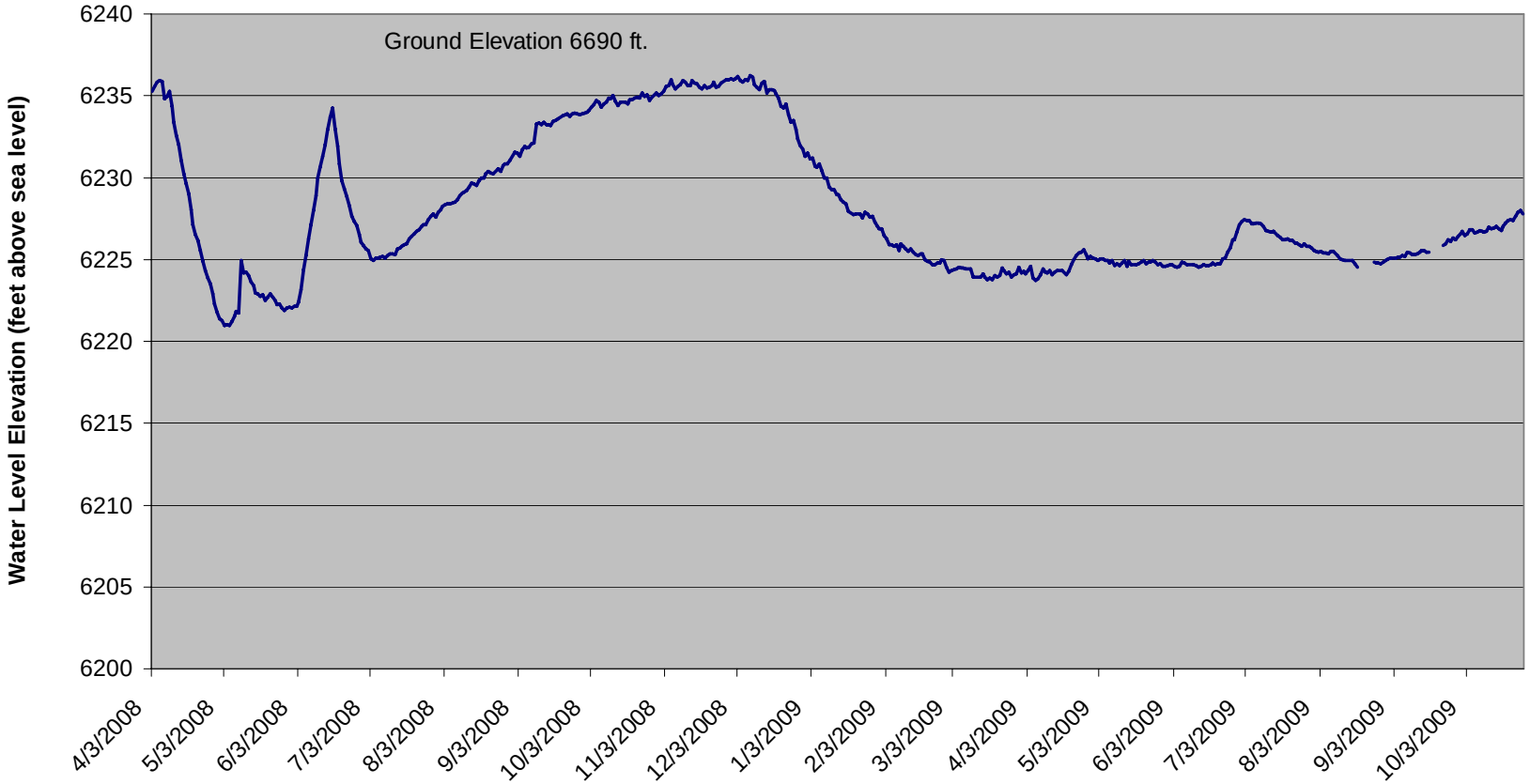


**Recovery 4 Barrett Gas Flow
from 5/15/08 to 10/22/09**

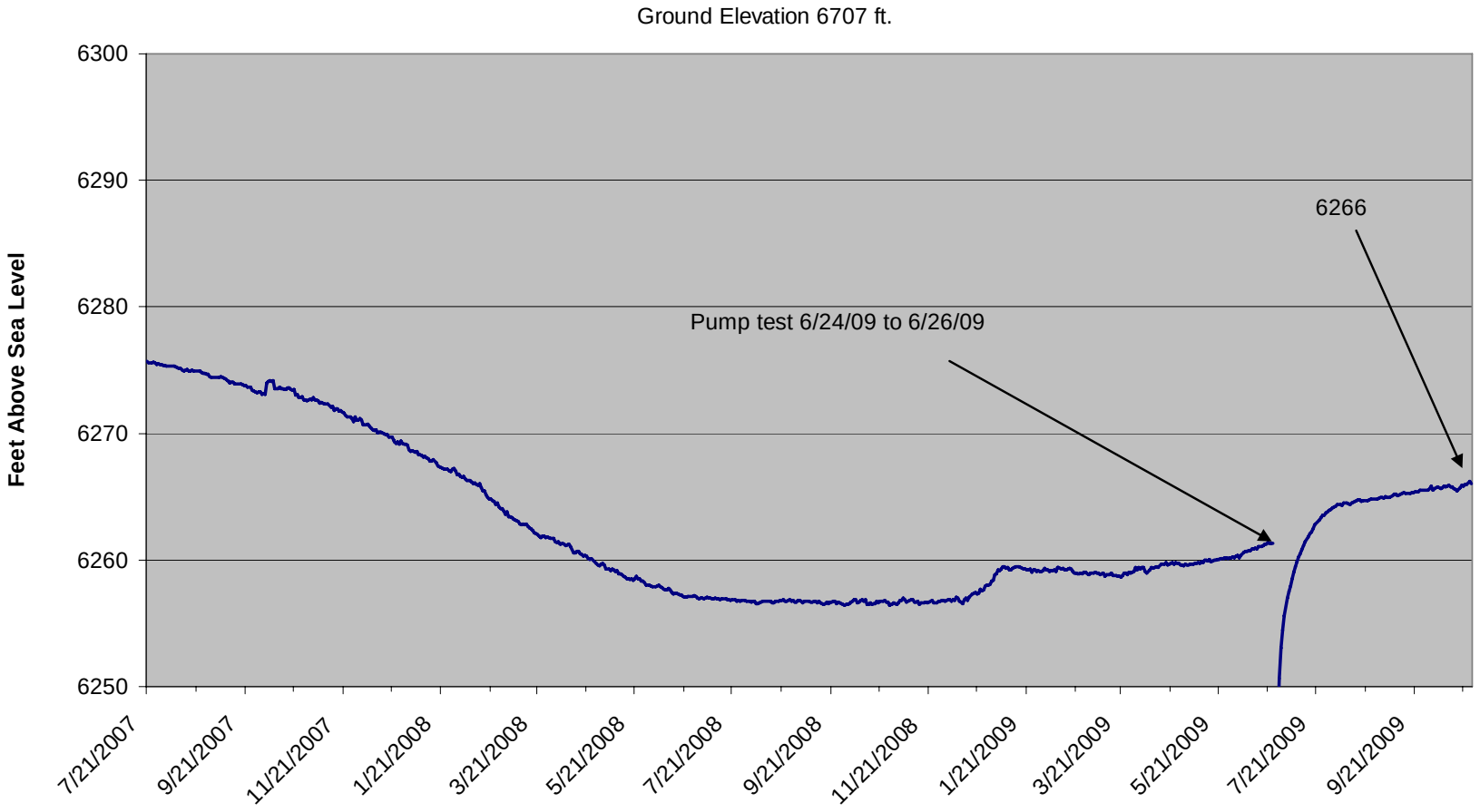


Attachment 2
Graphs of Pressure and Fluid Level Data From
POCI 55, Barrett, Bergman, Bruington, Coleman, Evenden, Garza-Vela and Meyer

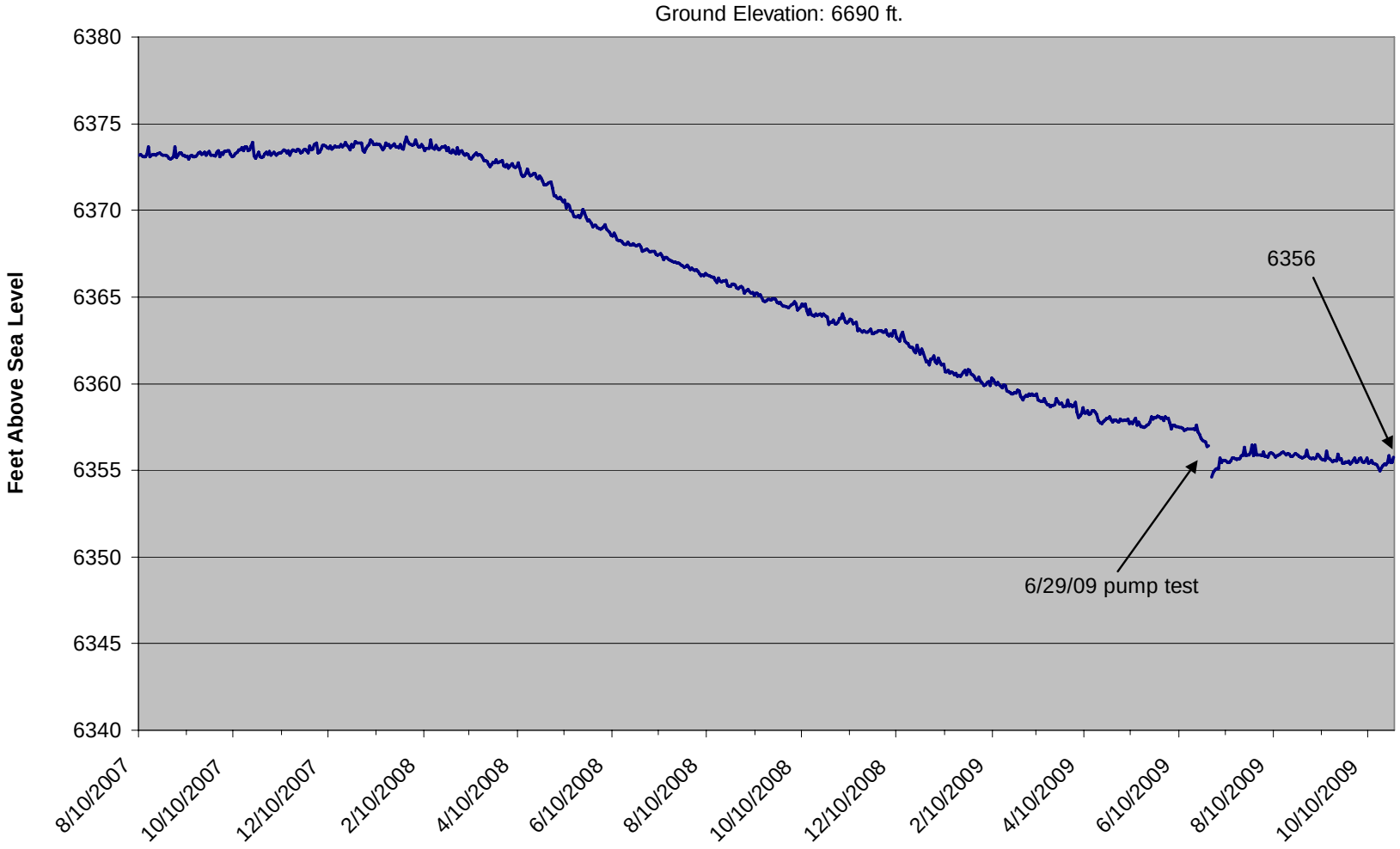
POCI 55 Monitor Well,
Static Water Level Elevation
from 4/2/08 to 10/26/09
Permit # 275819
Lot 55 RRR, SE SW Sec 3 29S 67W, GL elev. 6690'



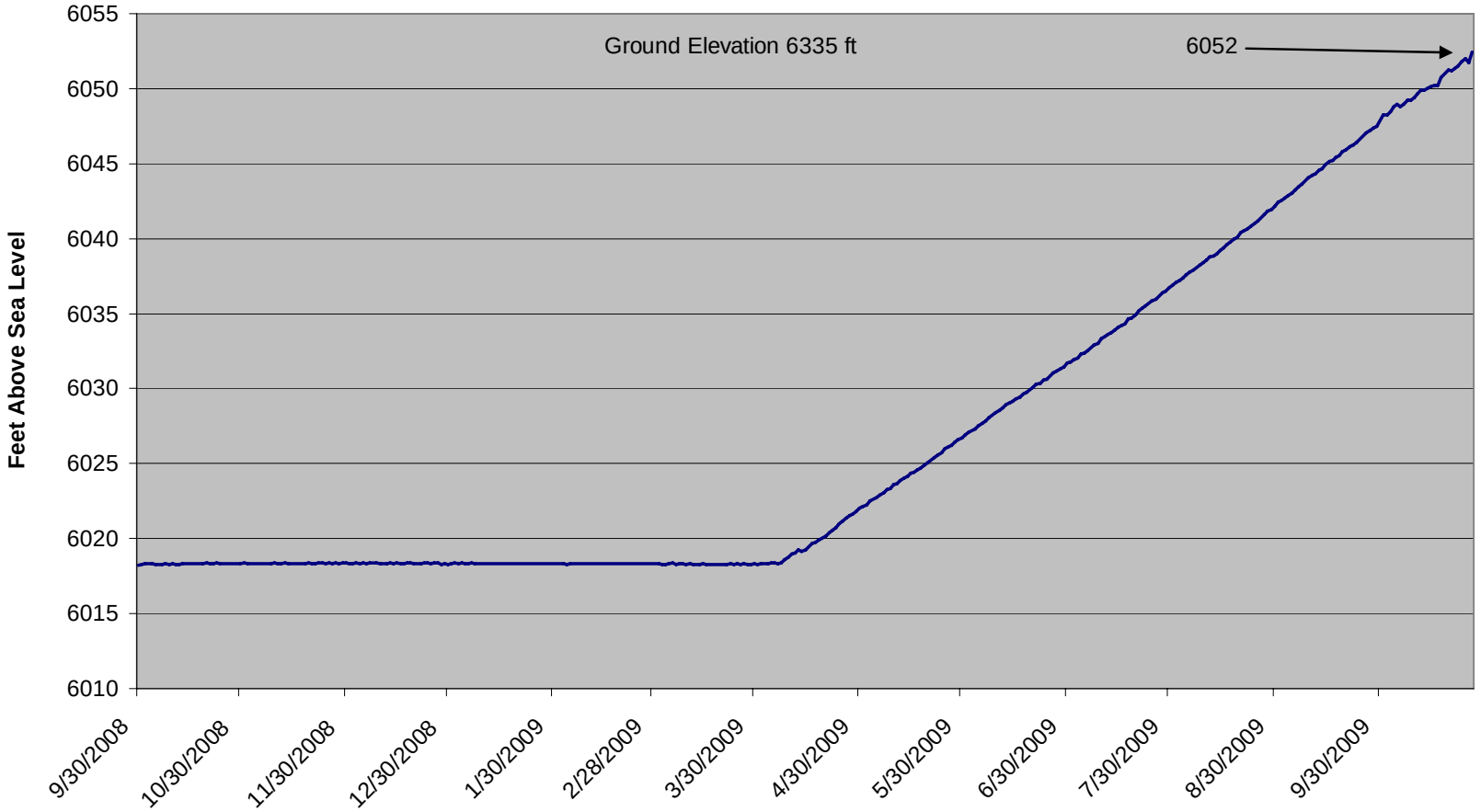
Barrett WW
Static Water Level from 6/24/05 to 10/26/09
Permit # 257994
Lot 57 RRR



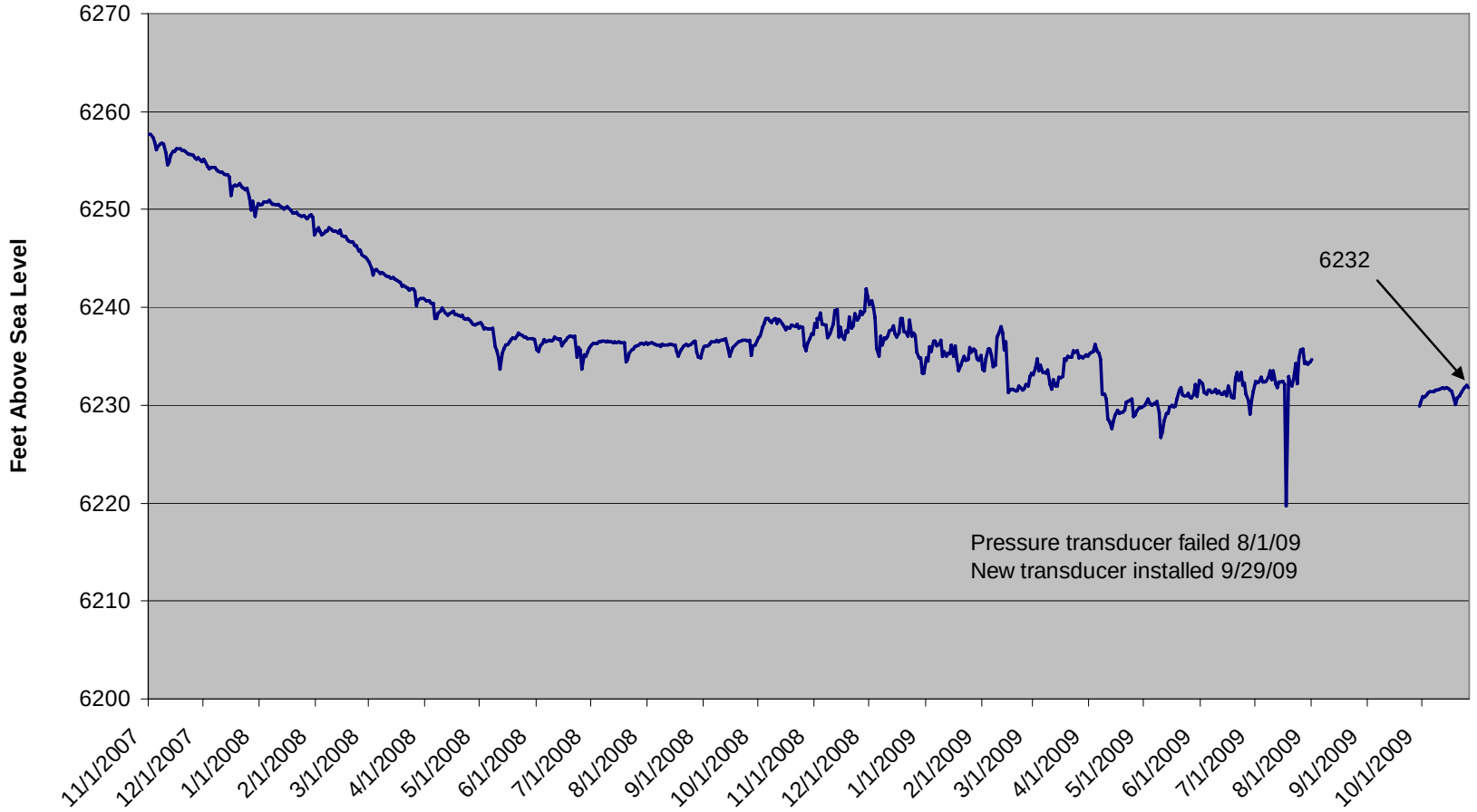
Bergman WW, Static Water Level from 8/10/07 to 10/26/09
Permit # 244403, Lot 48 RRR



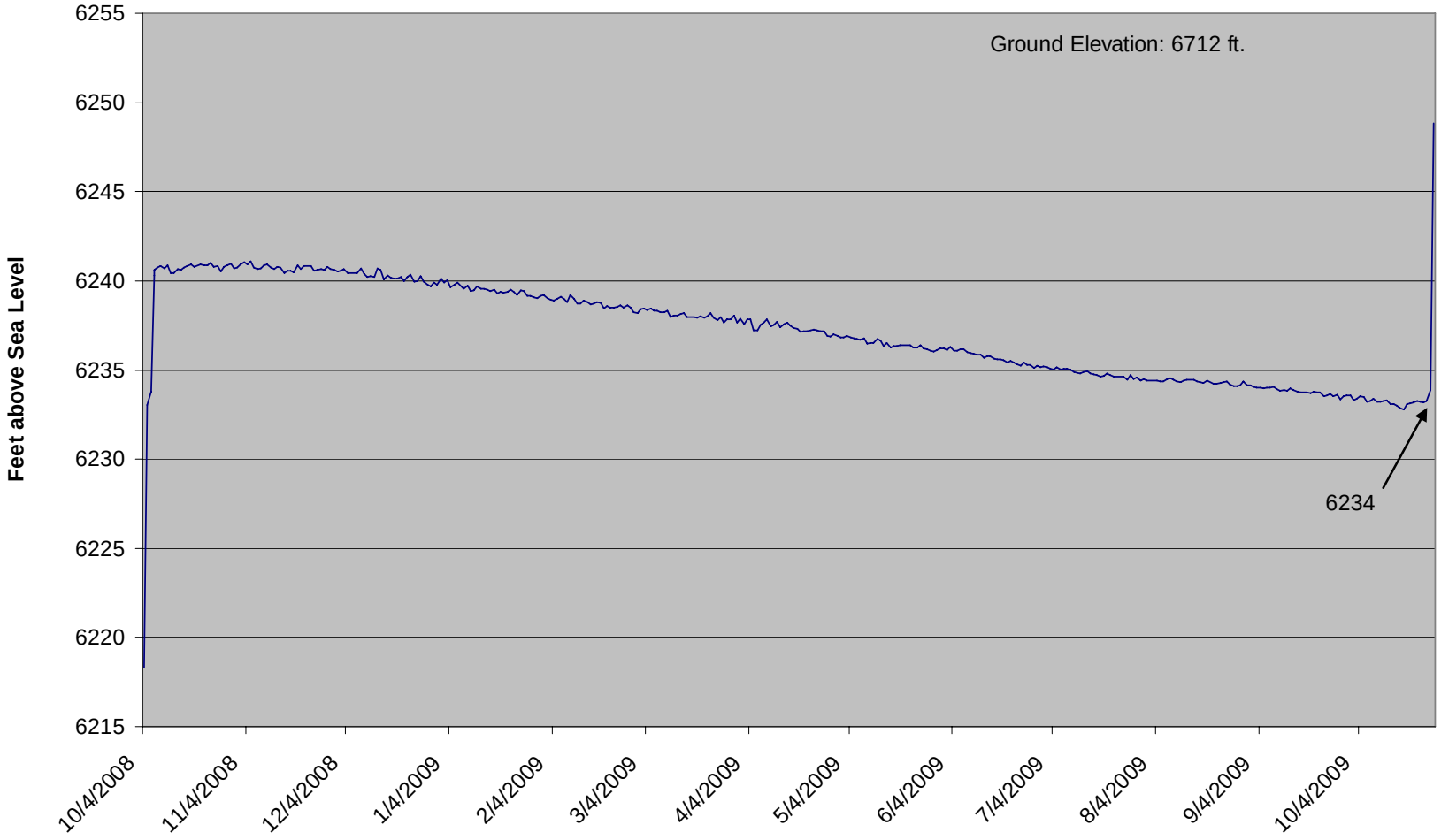
Bruington WW, Permit # 210526, City Ranches Lot 15
Static Water Level
from 9/30/08 to 10/27/09



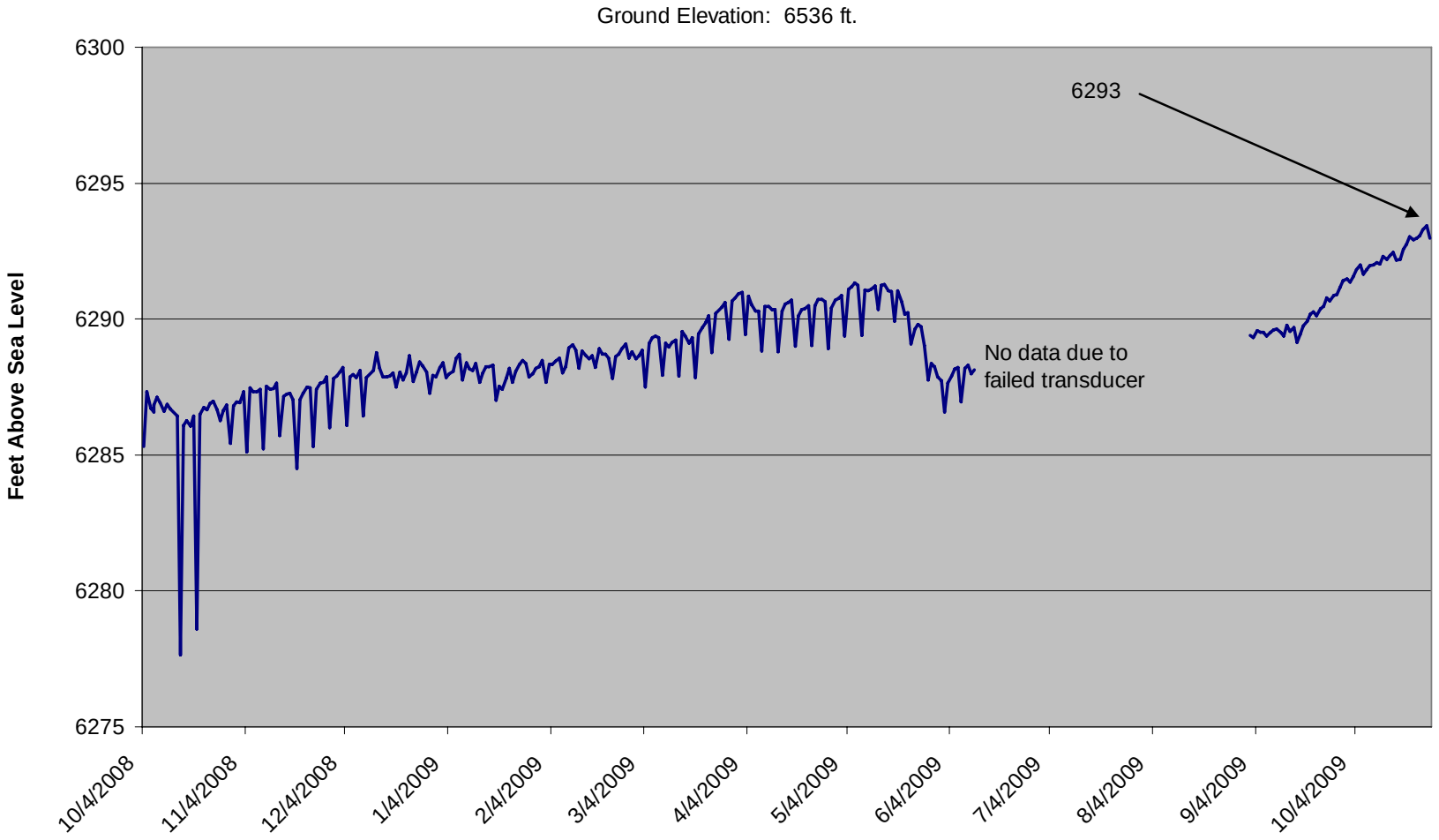
Coleman WW, Water Level from 11/1/07 to 10/26/09
Permit # 267694 Lot 70 RRR
G.L. elev. 6848'



Evenden WW Permit # 221465
Static Water Level from 10/3/08 to 10/26/09

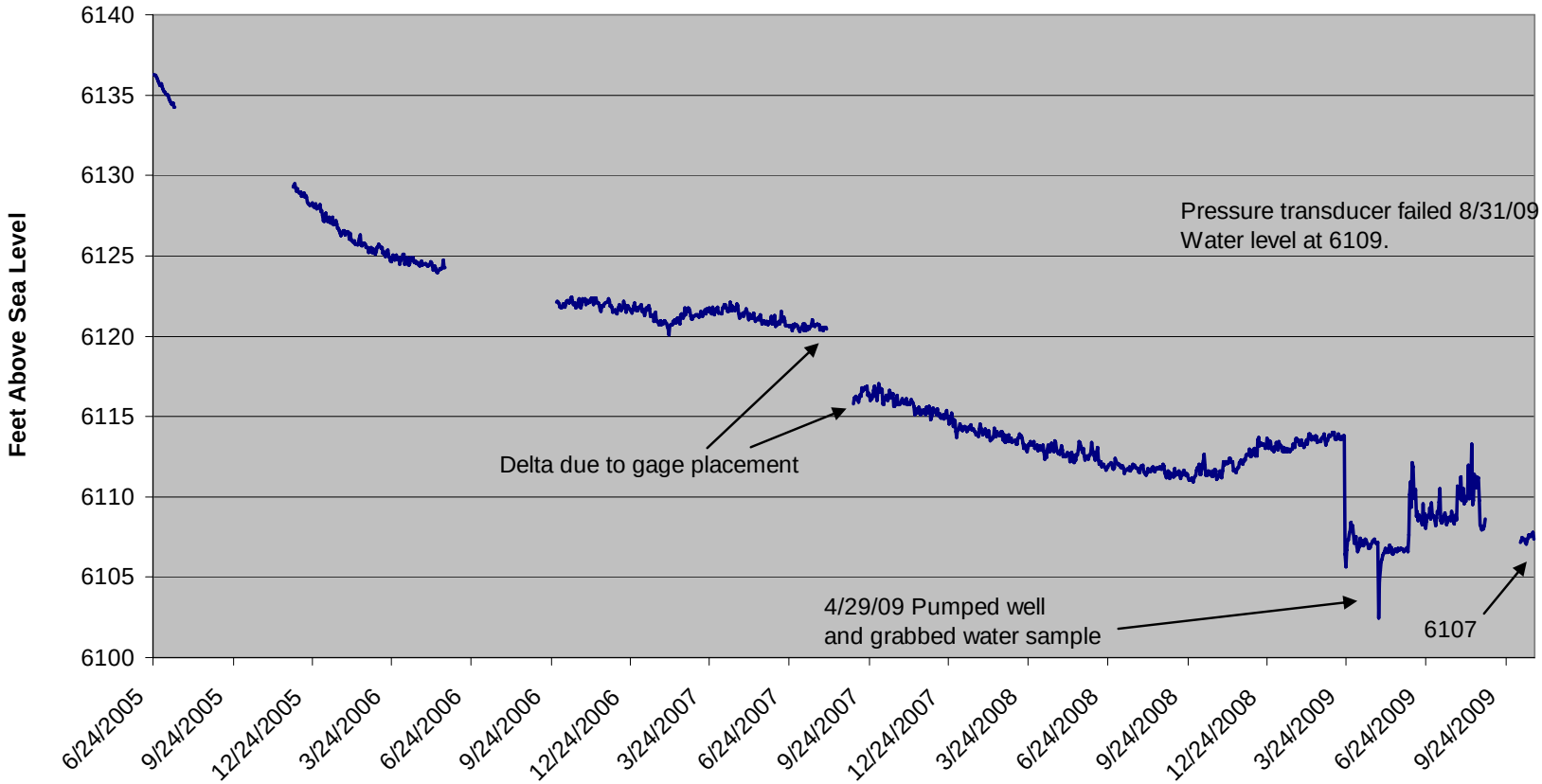


Garza WW, Water Level from 10/3/08 to 10/26/09
Permit # 206886, Lot 60 Silver Spurs Ranch



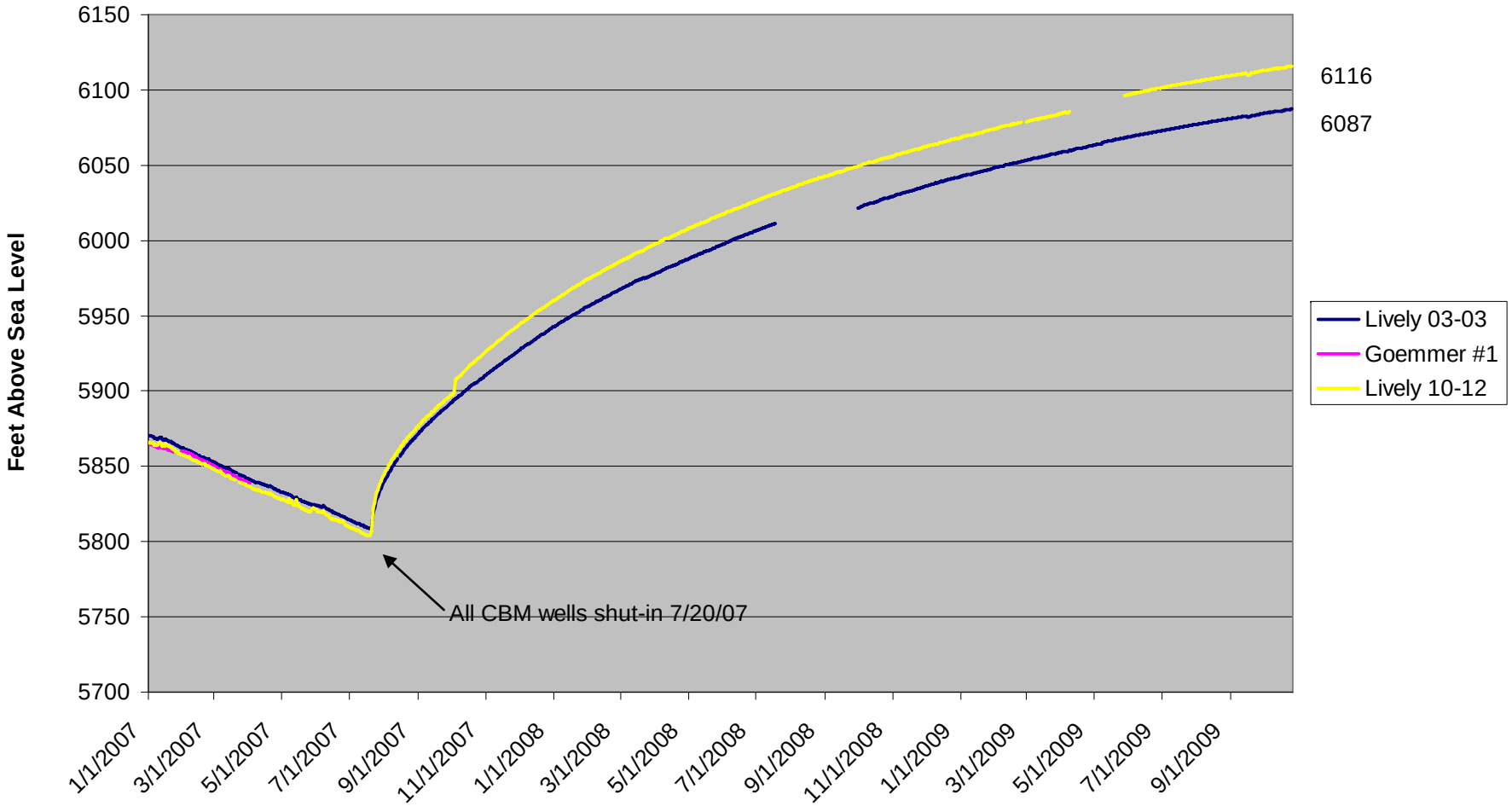
Meyer WW Permit # 248862
Static Water Level
from 6/24/05 to 10/26/09

Ground Elevation: 6575 ft.

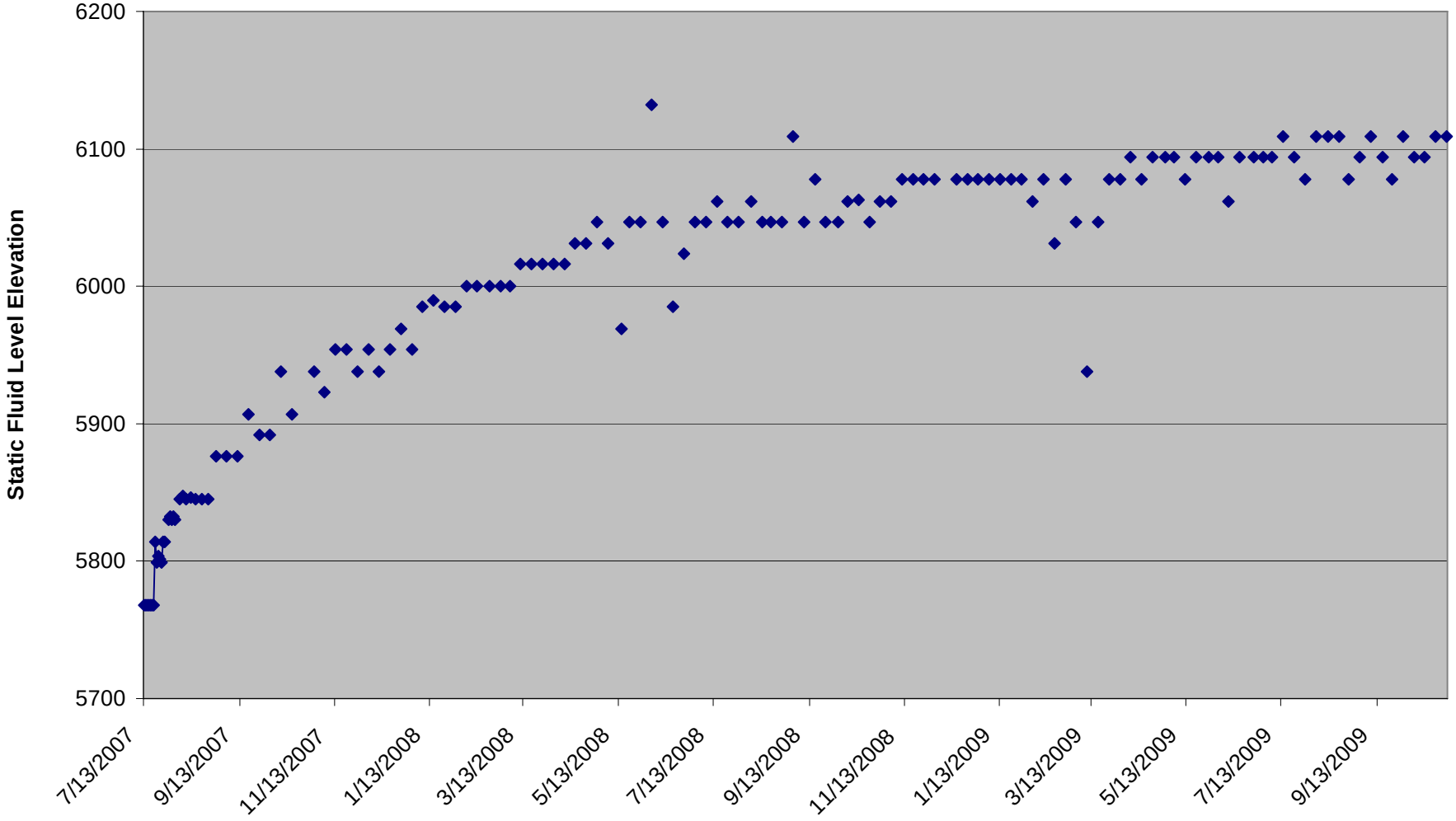


Attachment 3
Fluid Levels in Petroglyph Production Wells
(Results in psia, unless stated otherwise)

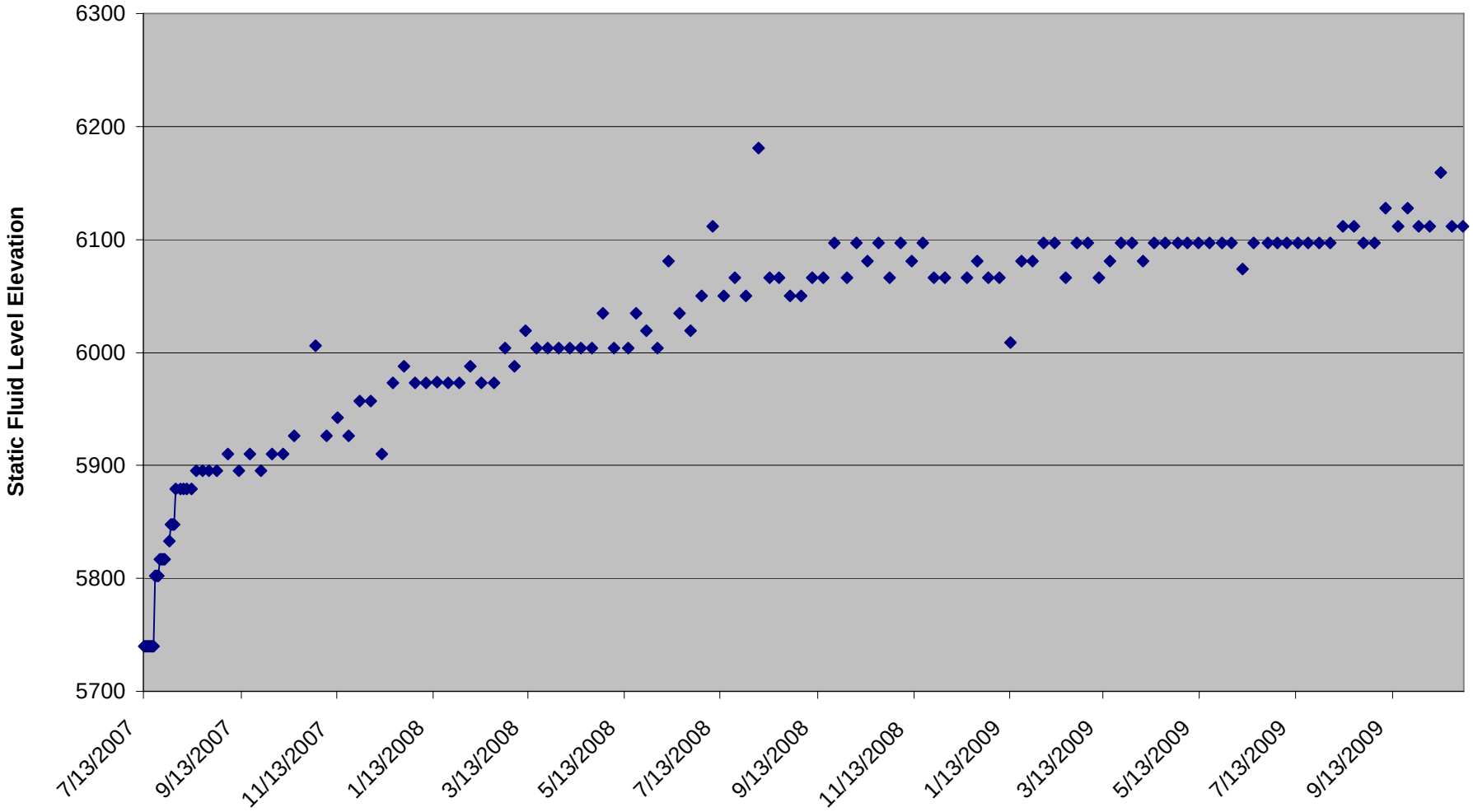
Vermejo/Trinidad Monitor Wells
Static Water Level
from 1/1/07 to 10/26/09



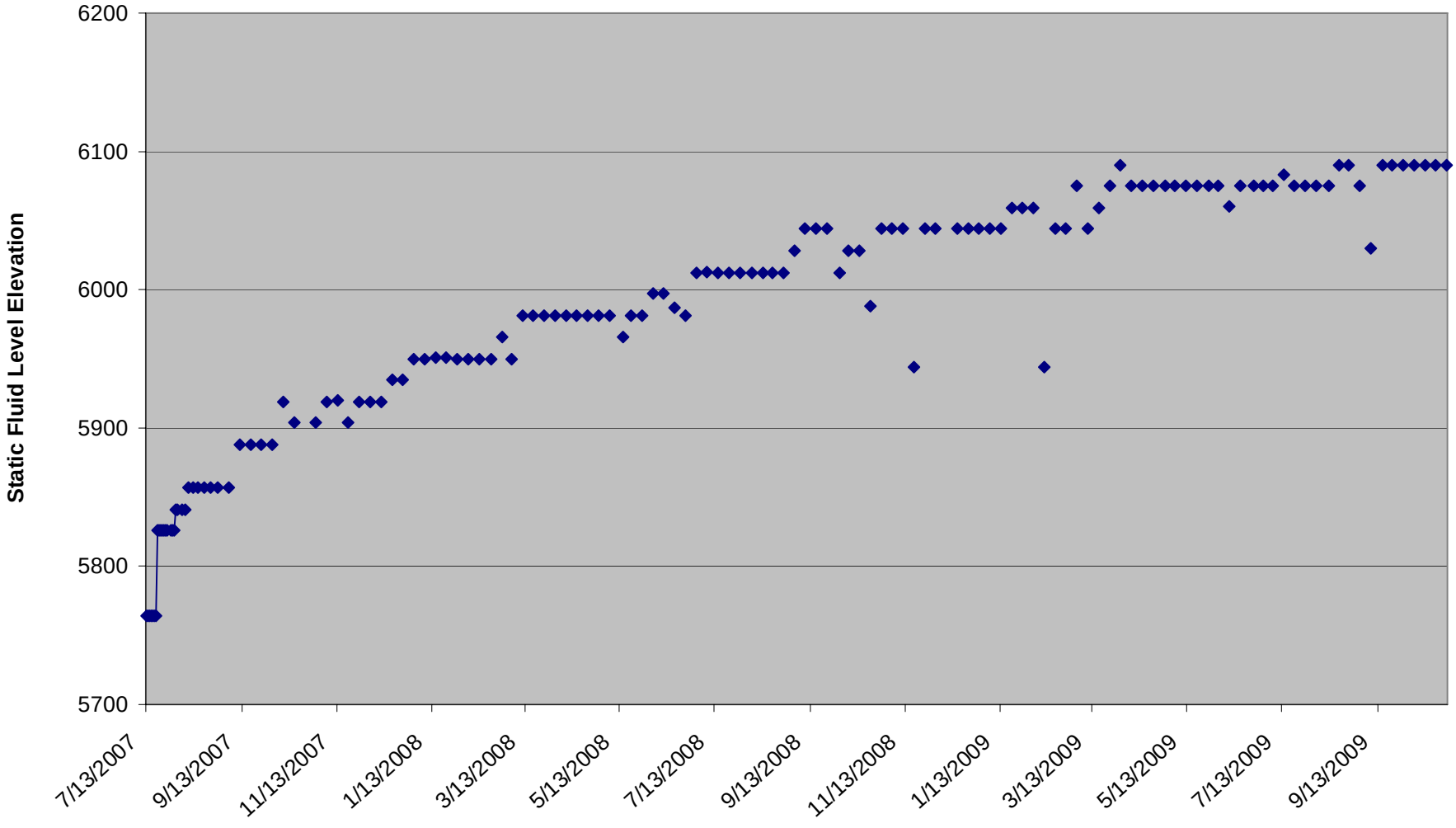
Lively 02-02
7/13/07 thru 10/27/09
Wells shut down 7/20/07



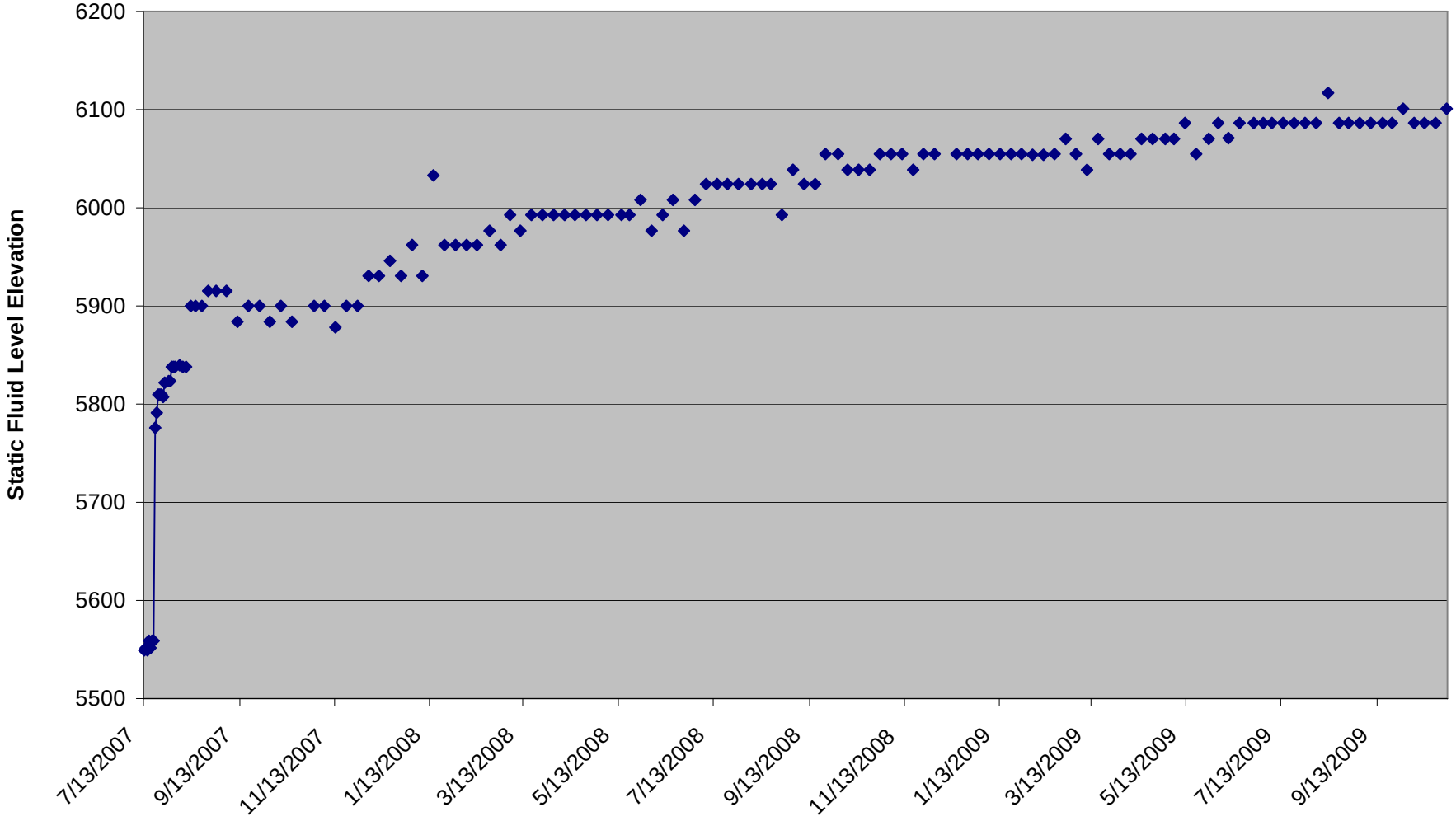
Lively 02-12
7/13/07 thru 10/27/09
Wells shut down 7/20/07



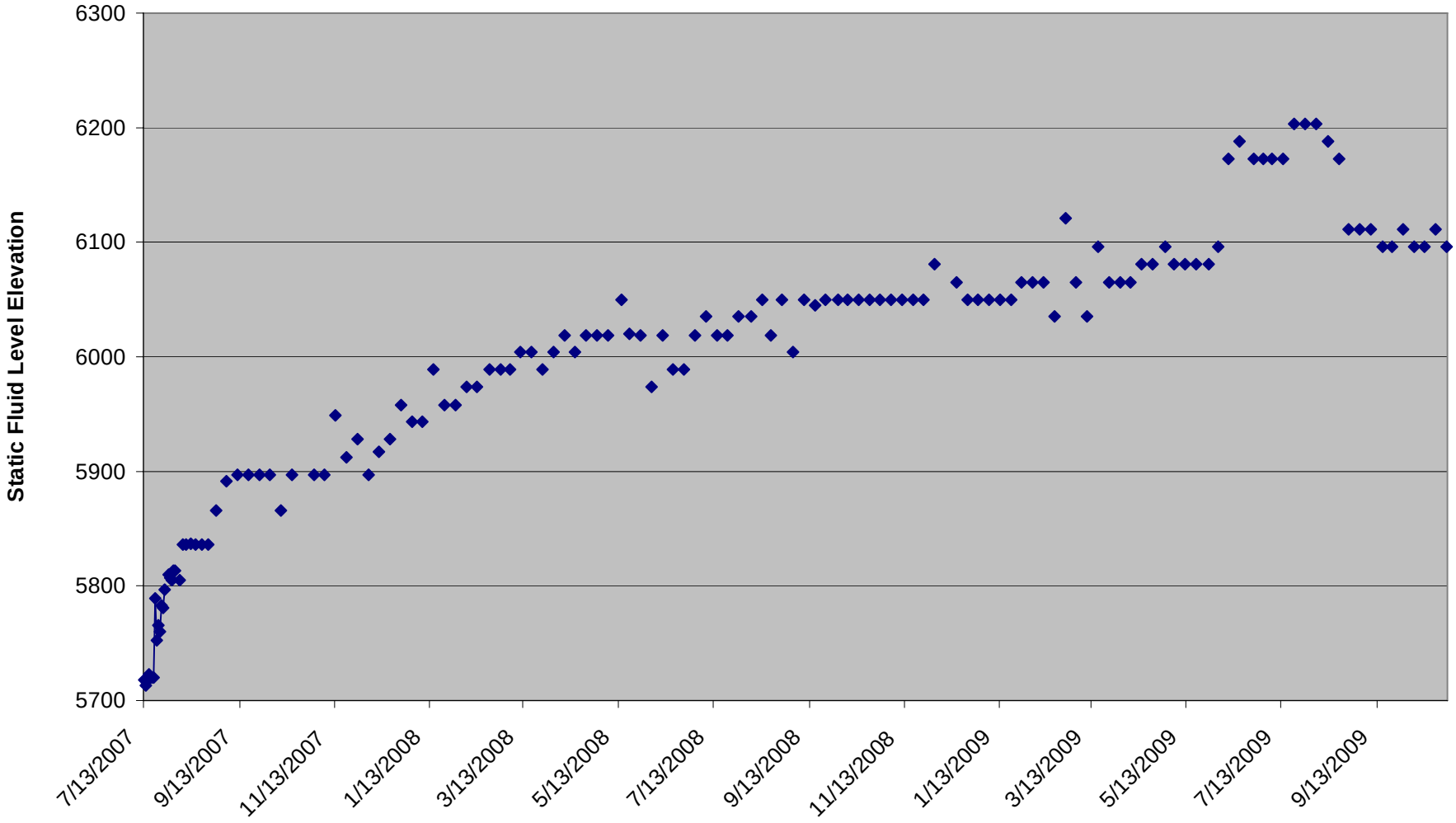
Lively 03-01
7/13/07 thru 10/27/09
Wells shut down 7/20/07



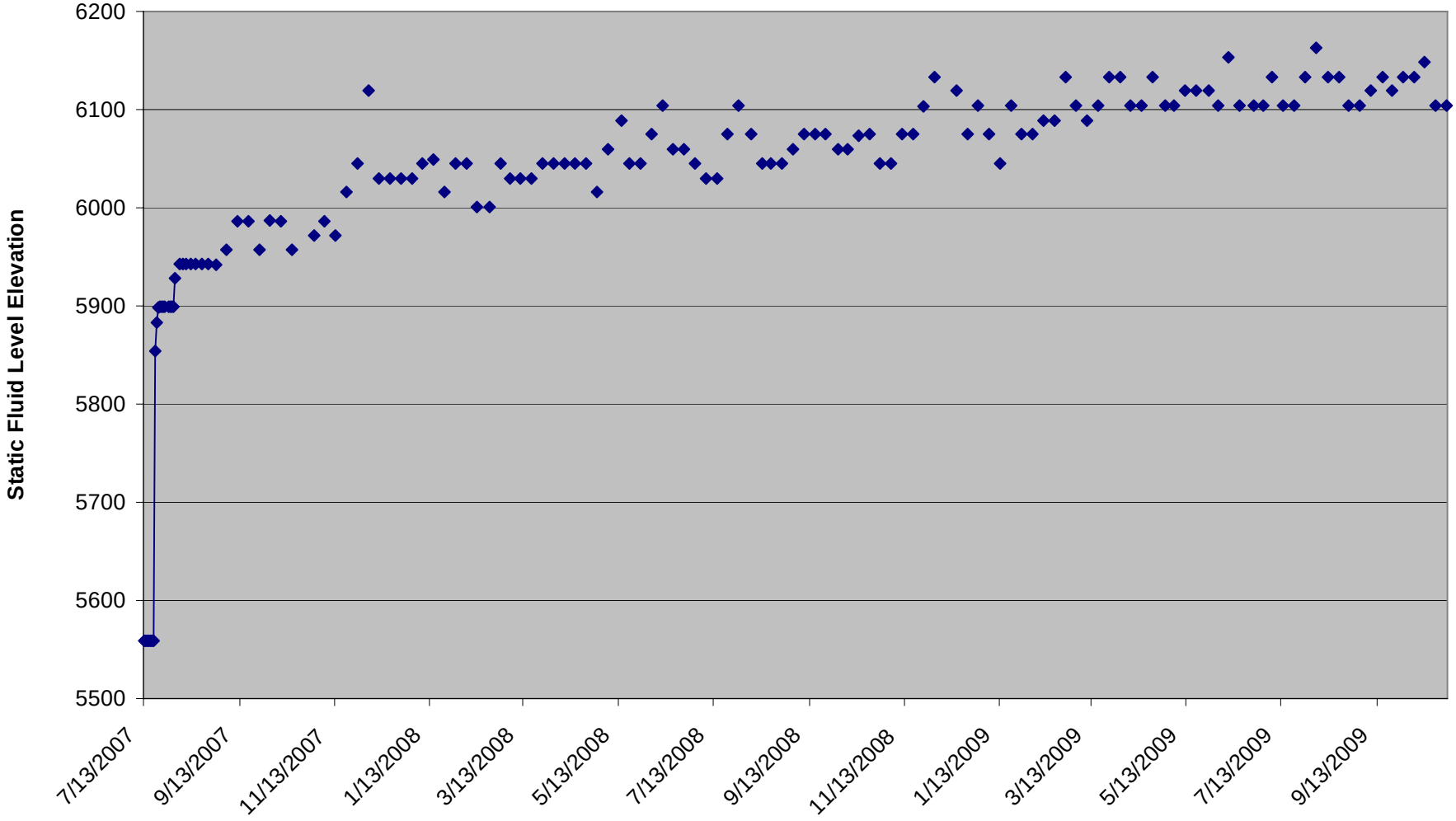
Lively 03-10
7/13/07 thru 10/27/09
Wells shut down 7/20/07



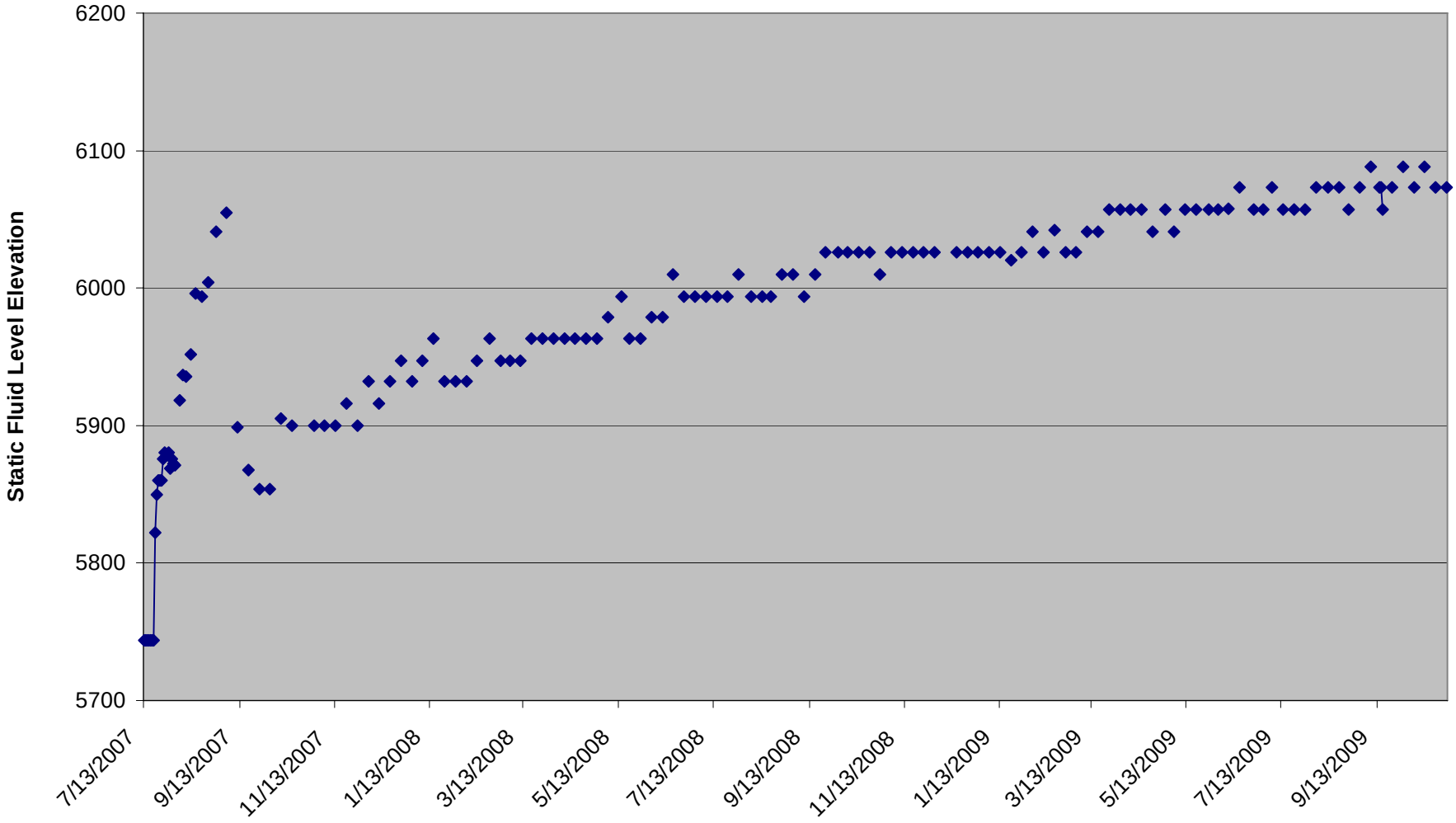
Lively 03-12
7/13/07 thru 10/27/09
Wells shut down 7/20/07



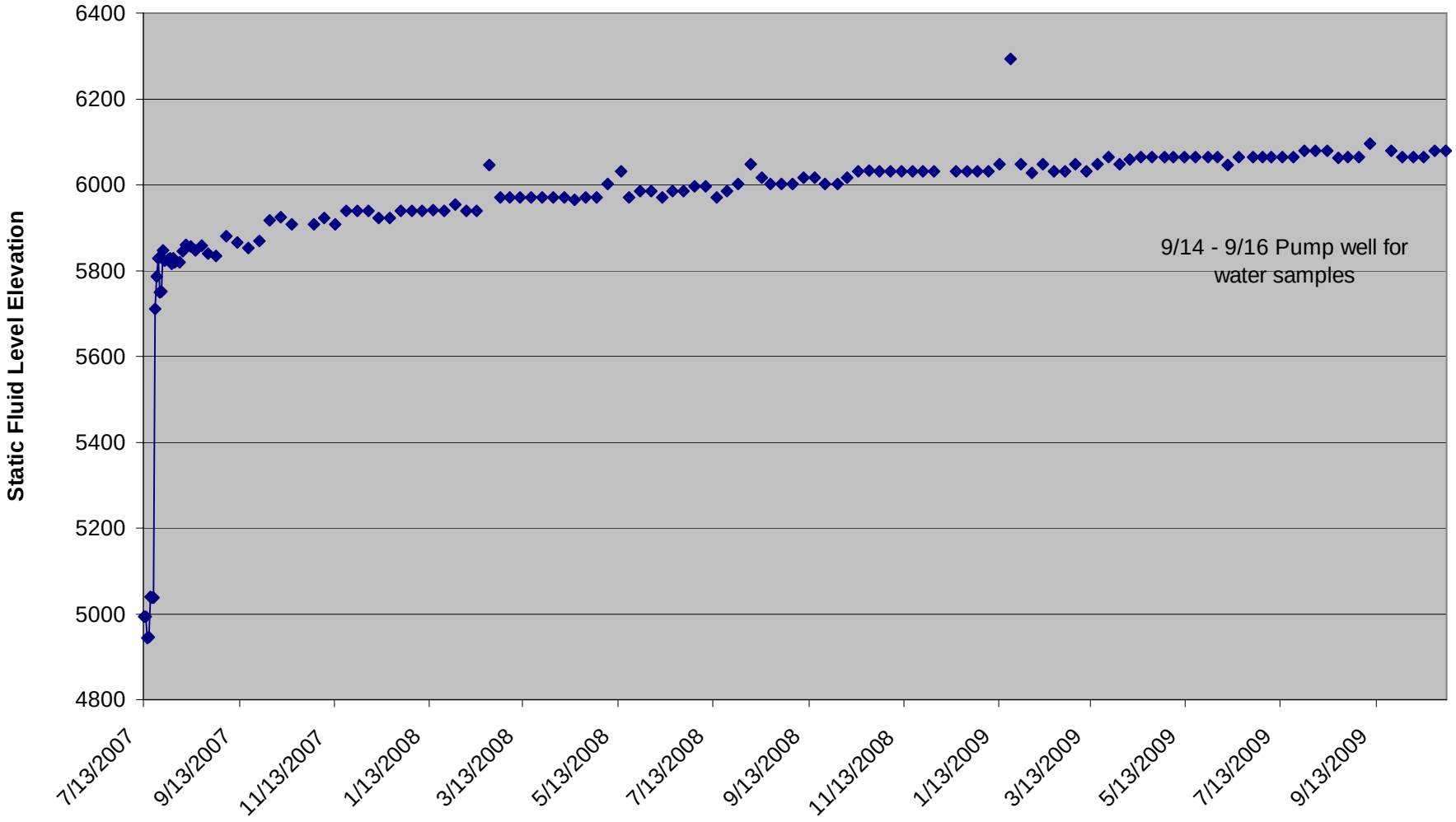
Lively 10-04
7/13/07 thru 10/27/09
Wells shut down 7/20/07



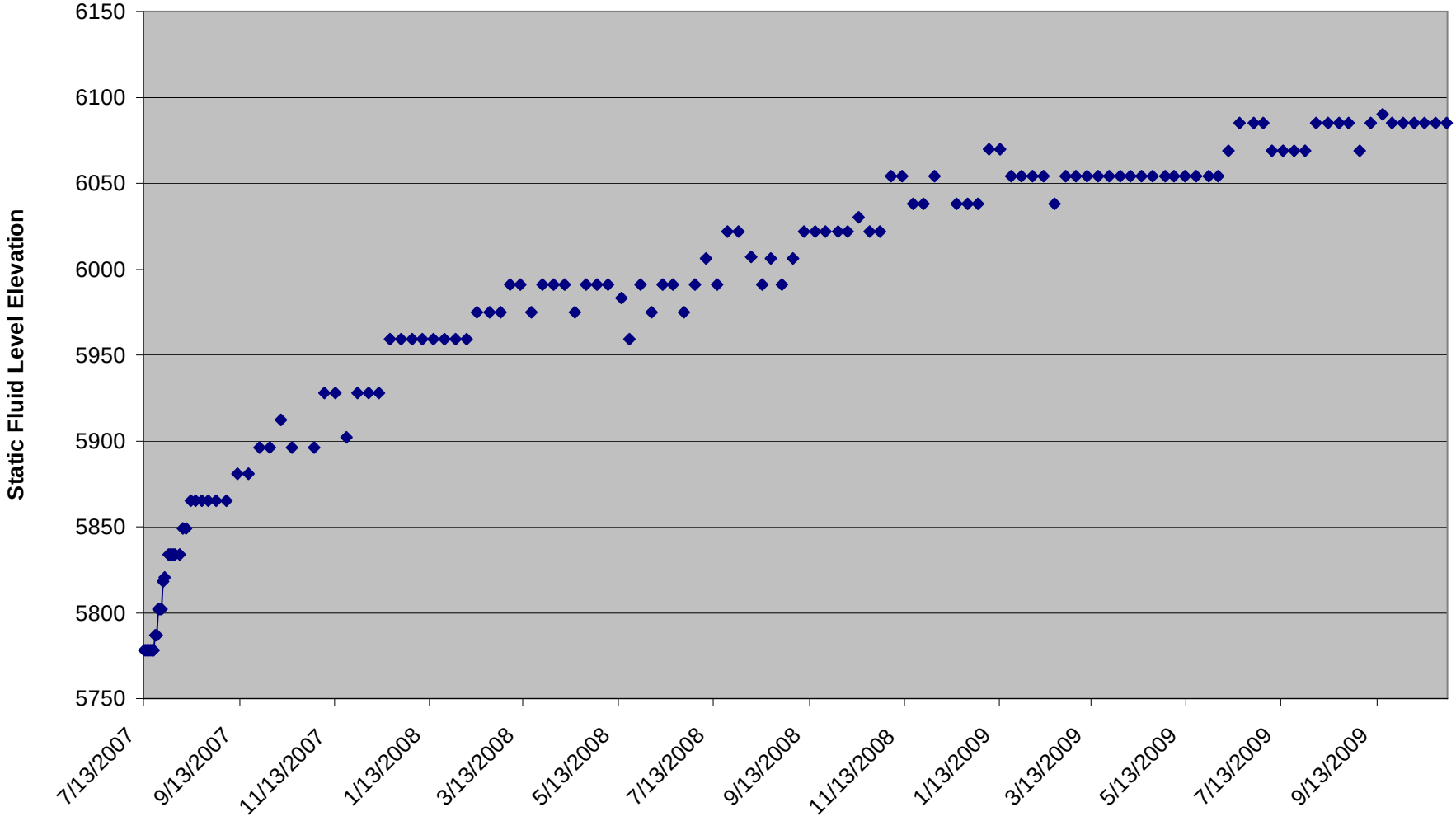
Rohr 04-10
7/13/07 thru 10/27/09
Wells shut down 7/20/07



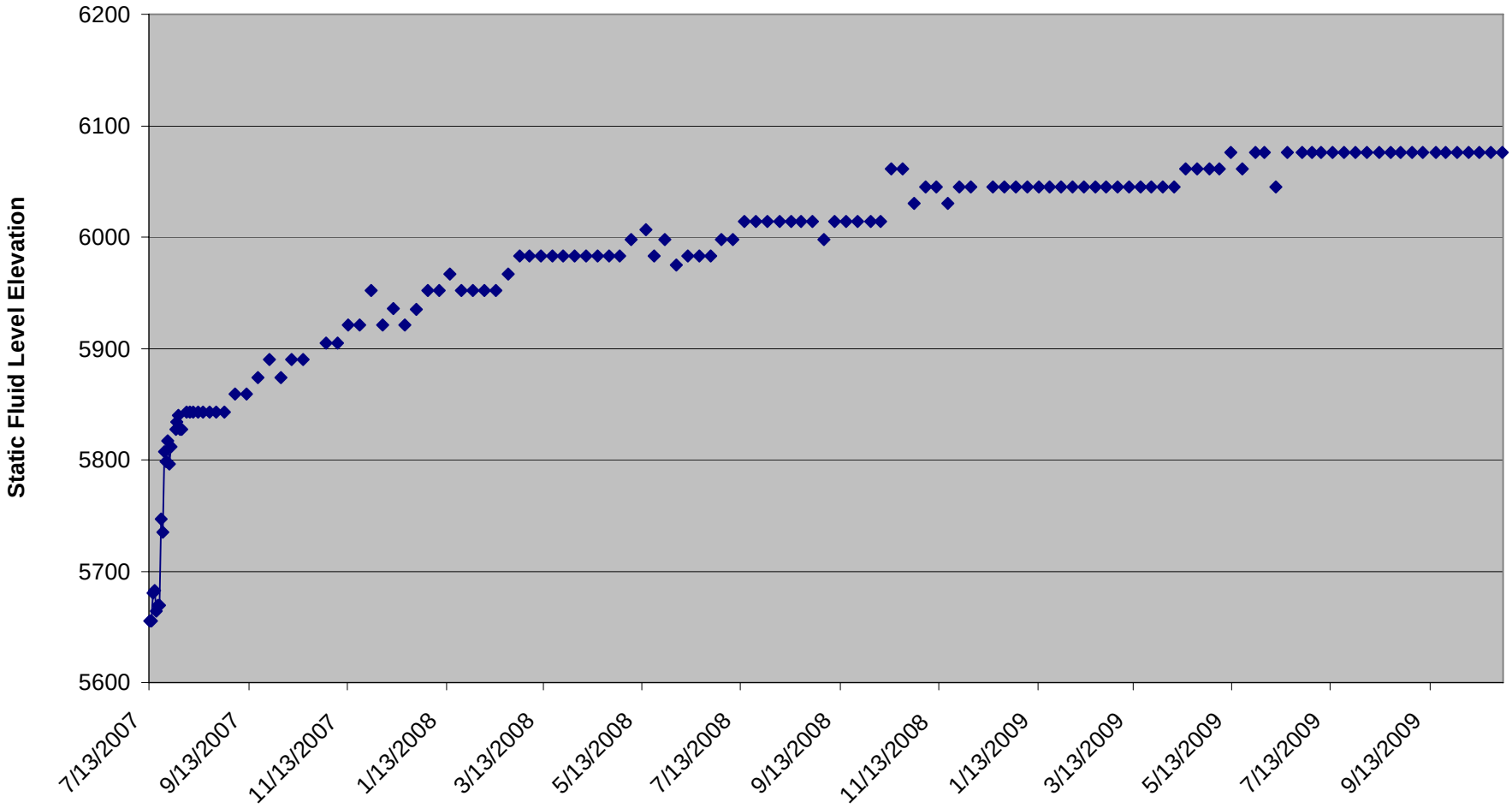
Rohr 09-10
7/13/07 thru 10/27/09
Wells shut down 7/20/07



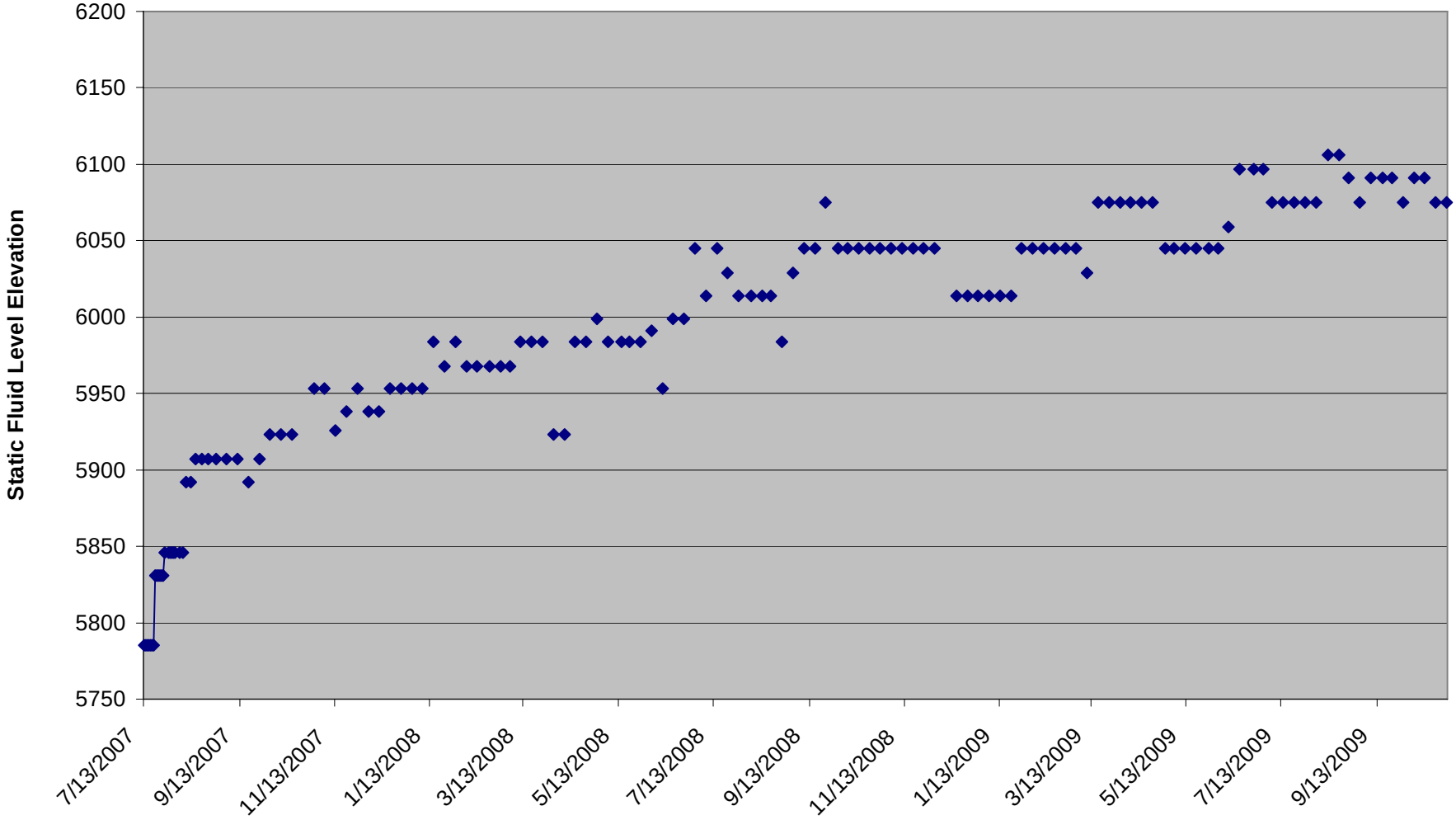
State 36-02
7/13/07 thru 10/27/09
Wells shut down 7/20/07



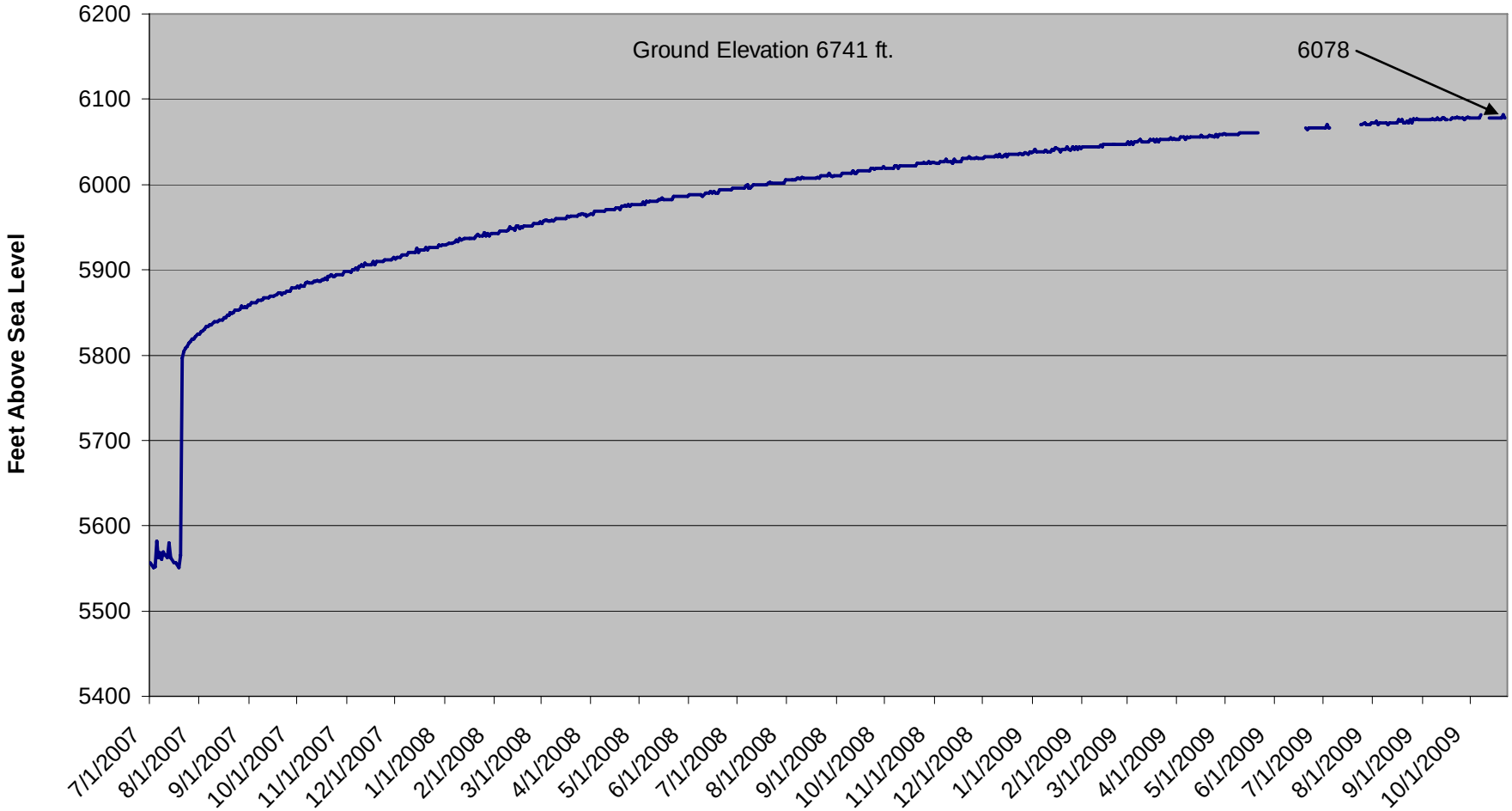
State 36-05
7/13/07 thru 10/27/09
Wells shut down 7/20/07



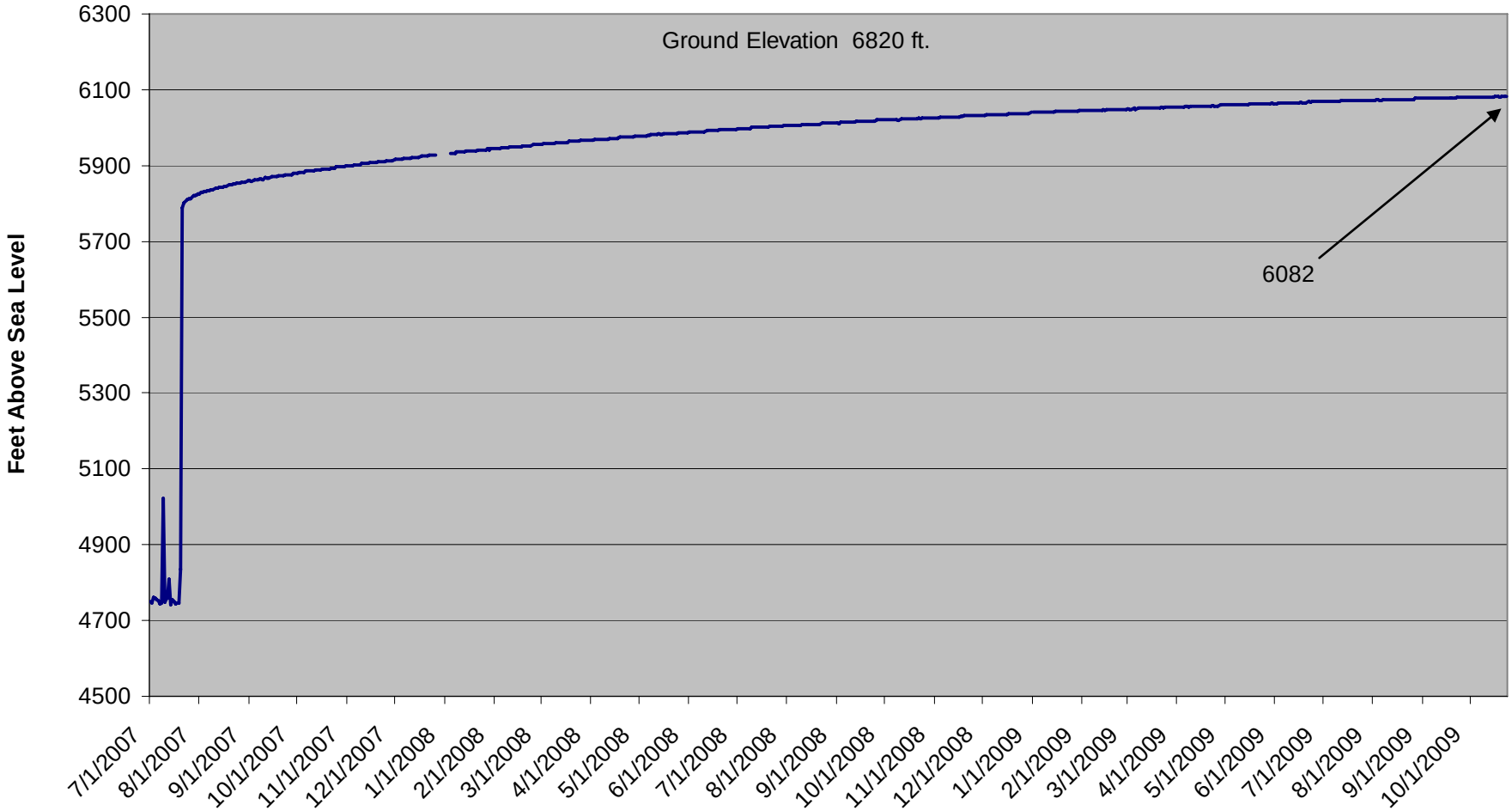
State 36-11
7/13/07 thru 10/27/09
Wells shut down 7/20/07



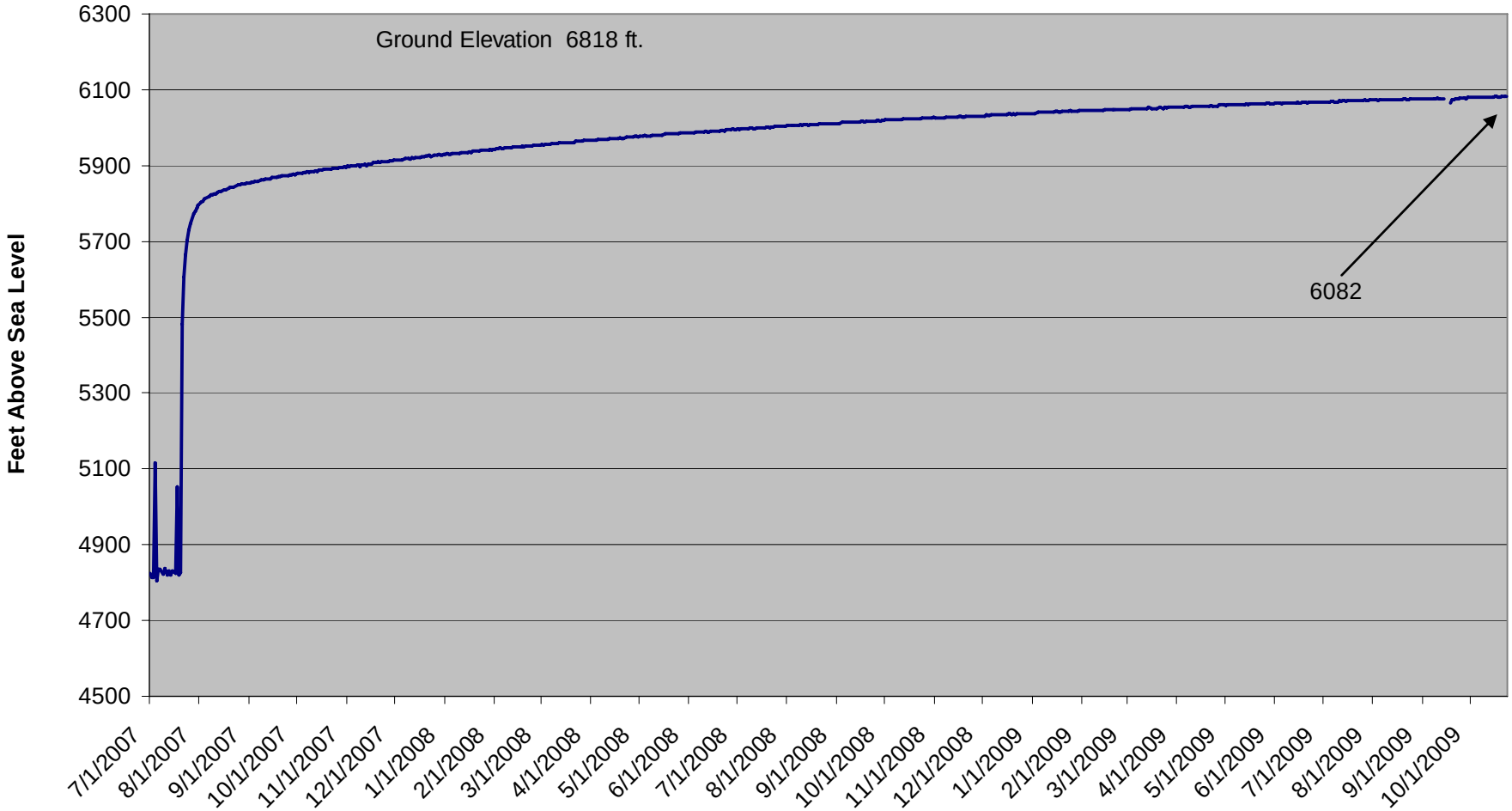
Rohr 04-14 CBM Well
Static Water Level
from 7/1/07 to 10/23/09
Well shut-in 7/20/07



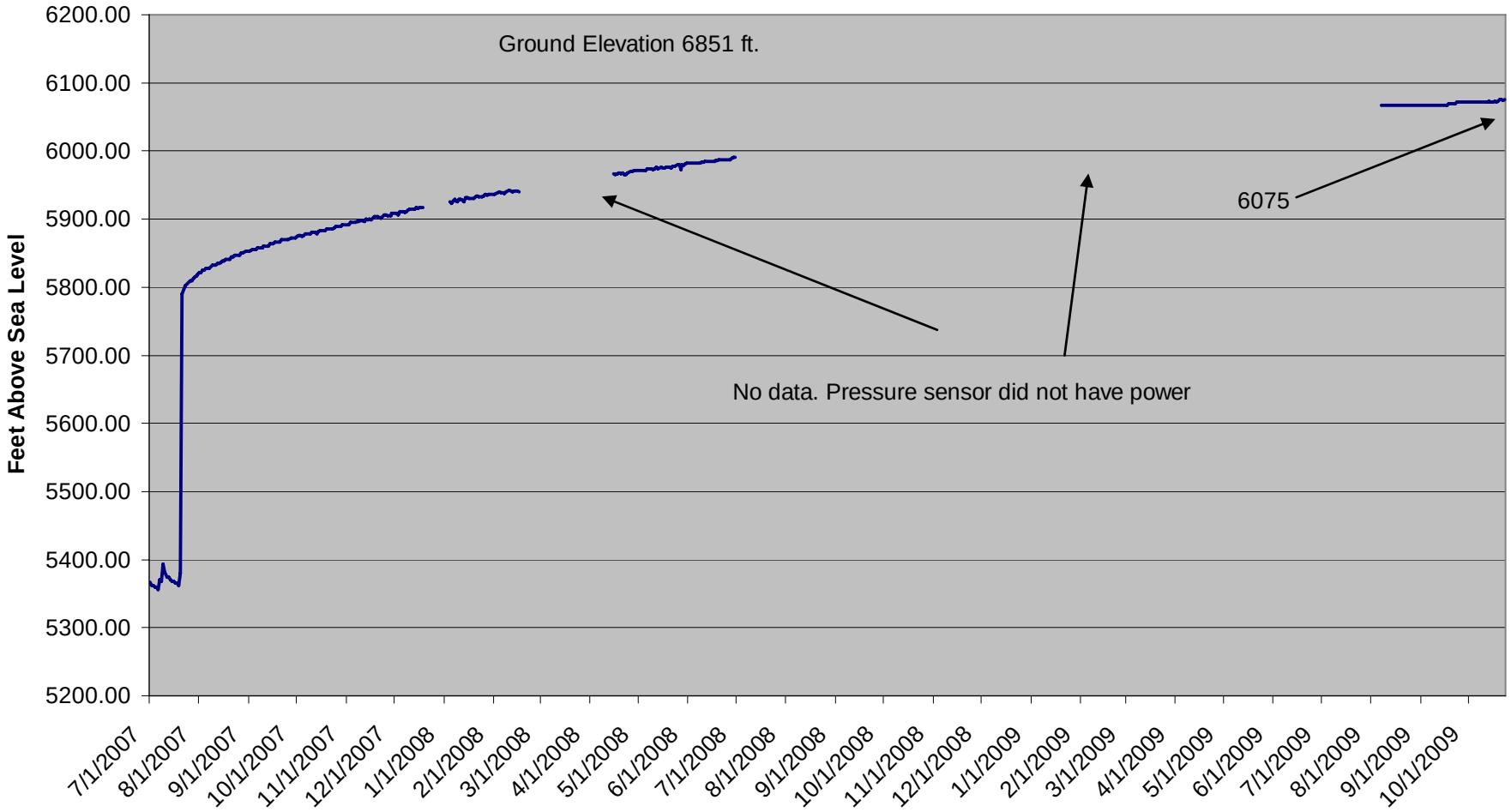
Rohr 08-01 CBM Well
Static Water Level
from 7/1/07 to 10/23/09
Well shut-in 7/20/07



Rohr 09-04 CBM Well
Static Water Level
from 7/1/07 to 10/23/09
Well shut-in 7/20/07

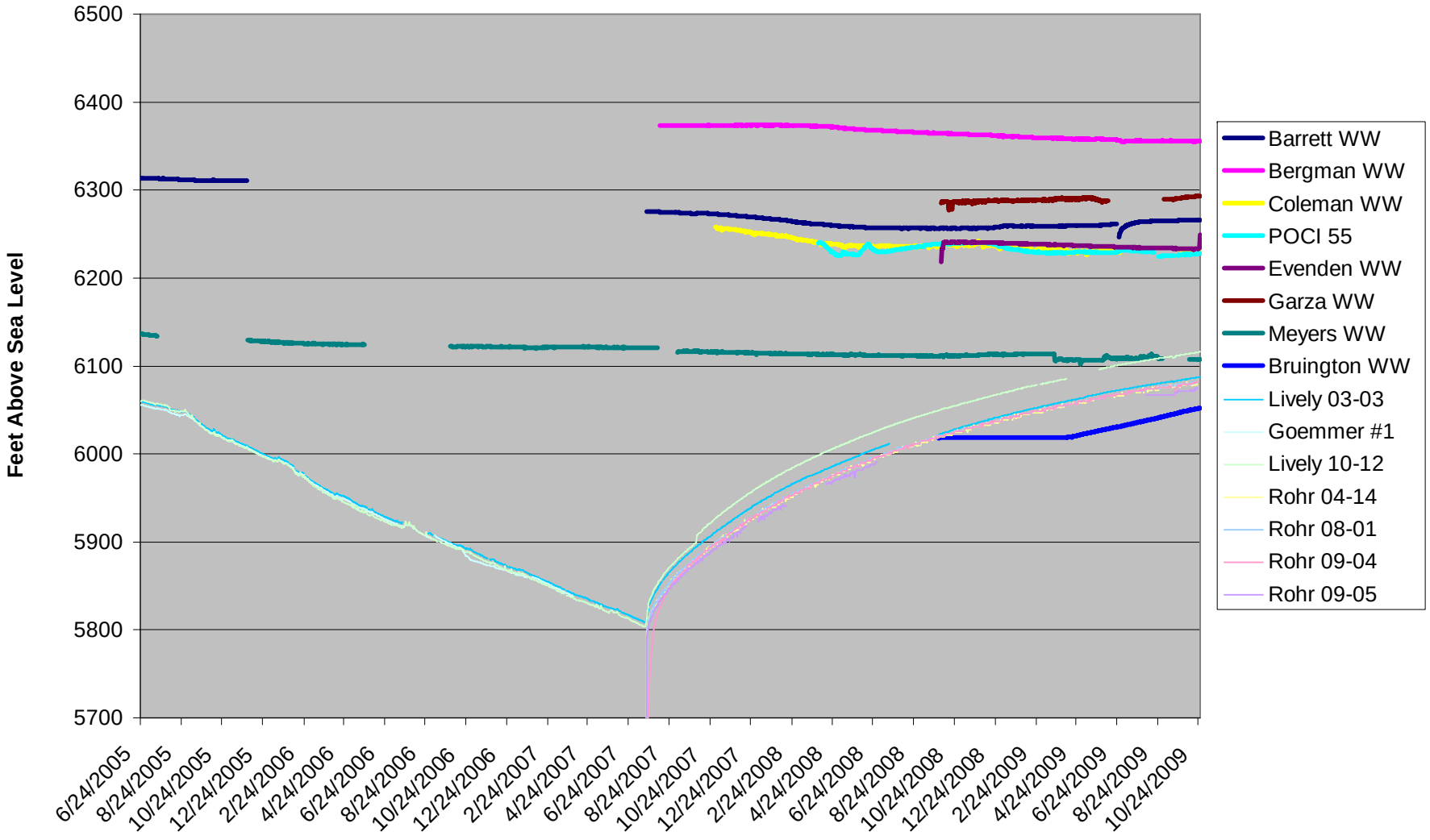


Rohr 09-05 CBM Well
Static Water Level
from 7/1/07 to 10/23/09
Well shut-in 7/20/07



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

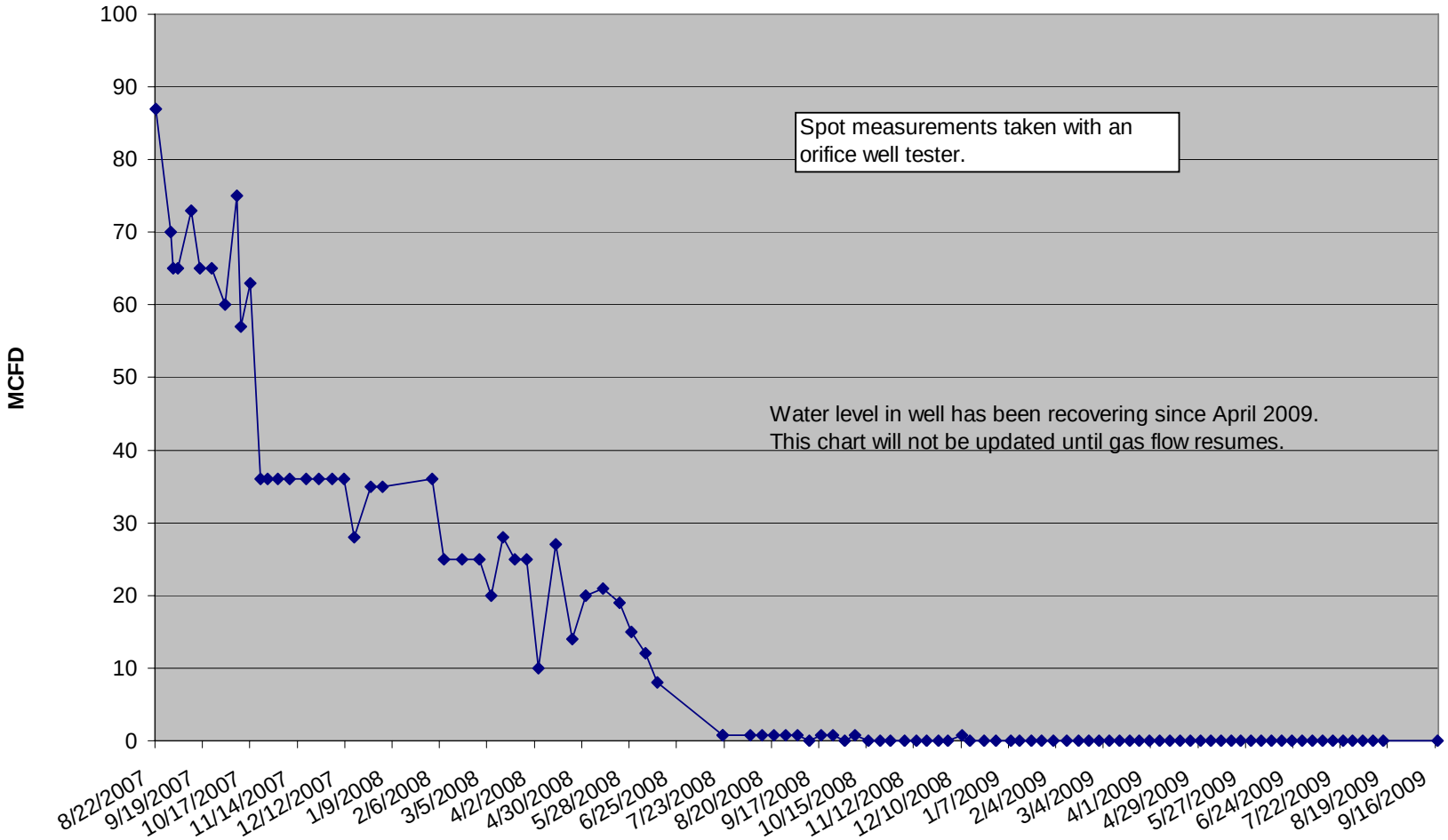
CBM and Domestic WW,
Water Levels from 6/24/05 to 10/26/09



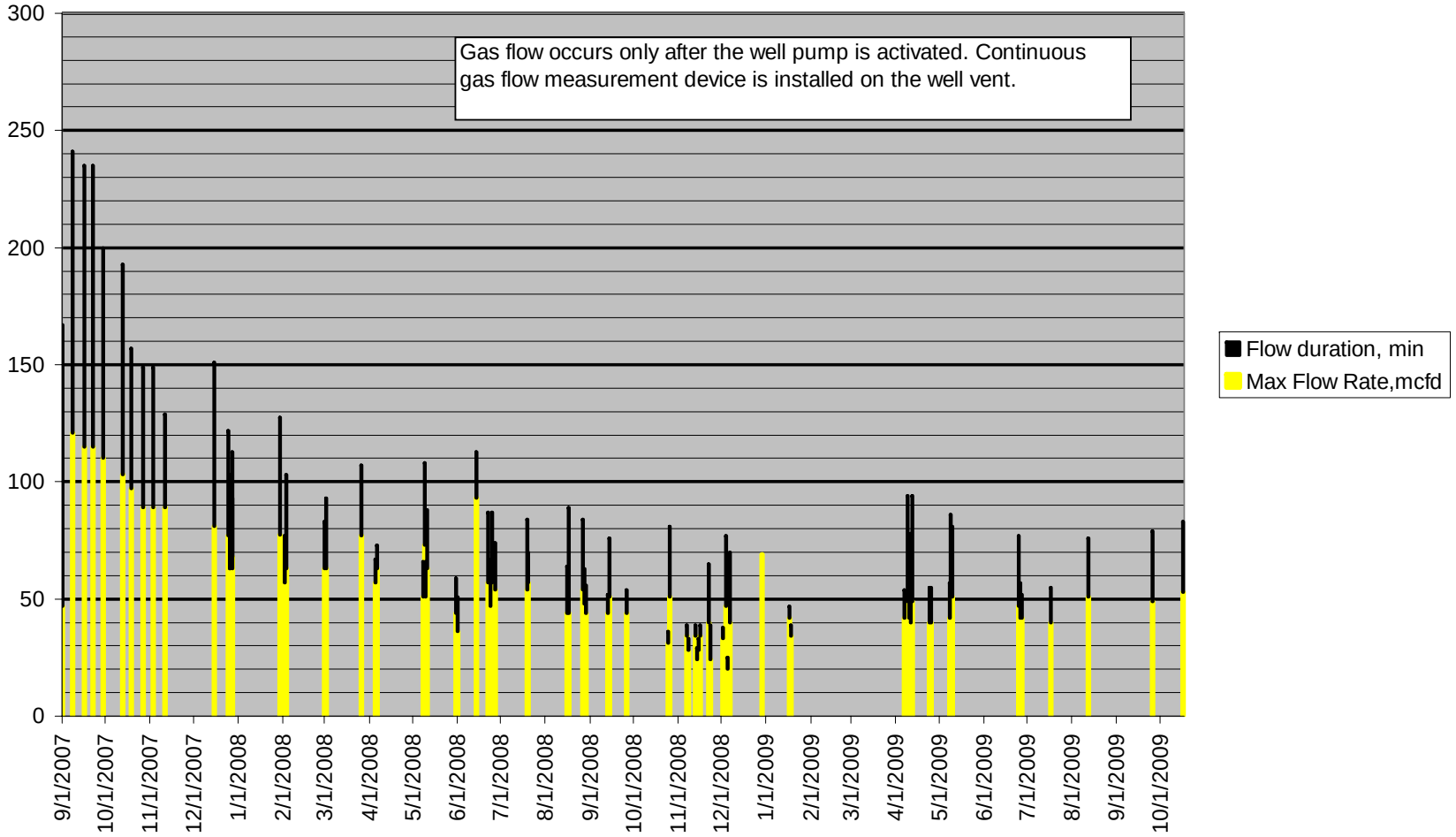
Summary of Production Well Water Levels and Private Well Water Levels						
Well Name	**Permit or API #**	**Ground Elevation (ft above mean sea level)**	**Depth of Pressure Sensor (ft)**	**Formation**	**General Location**	**Well Status**
Barrett	257994	6707	750	Poison Canyon	In mitigation ring	non-active 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

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

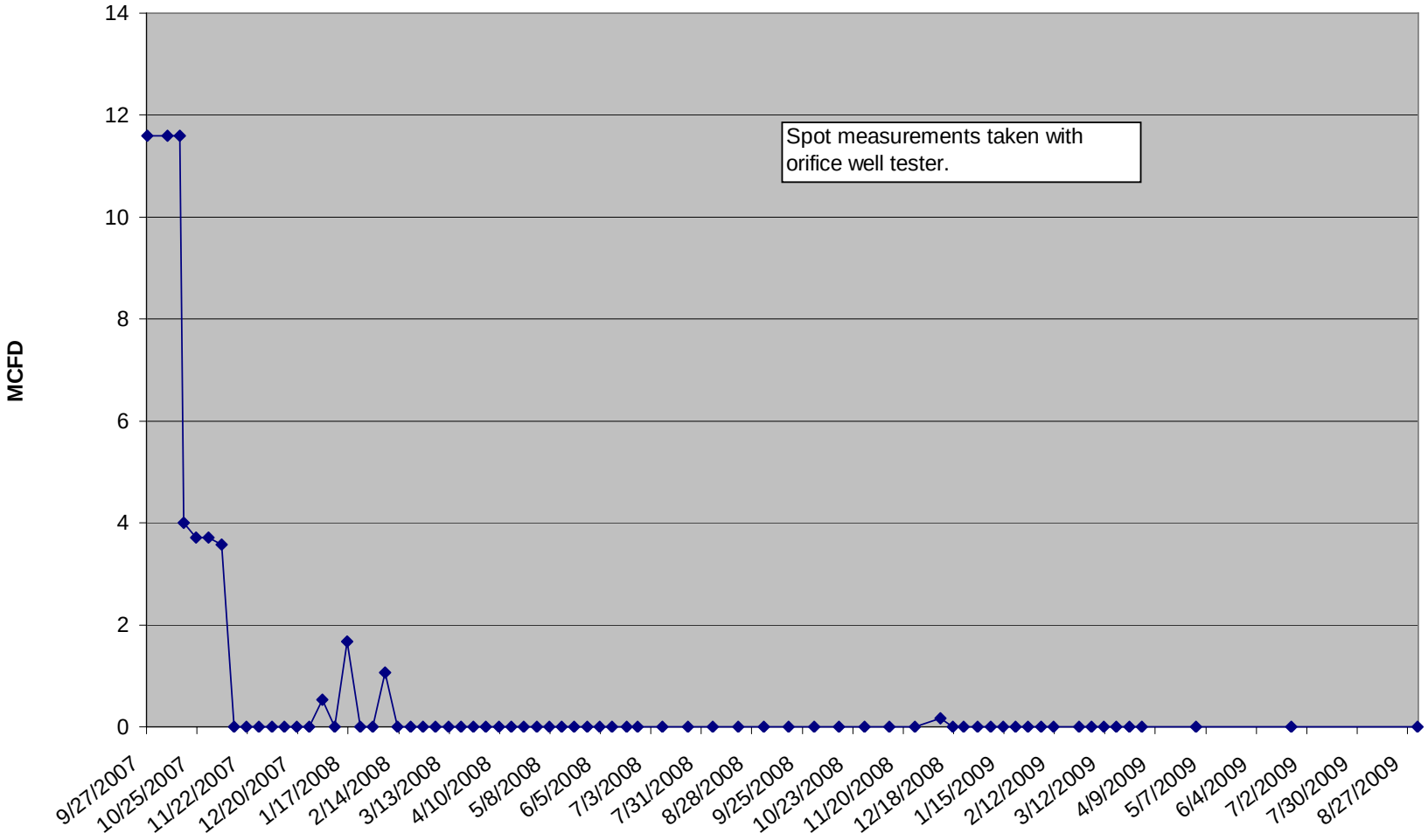
**Bruington WW # 210526 Measured Gas Flow
from 8/22/07 to 9/17/09**



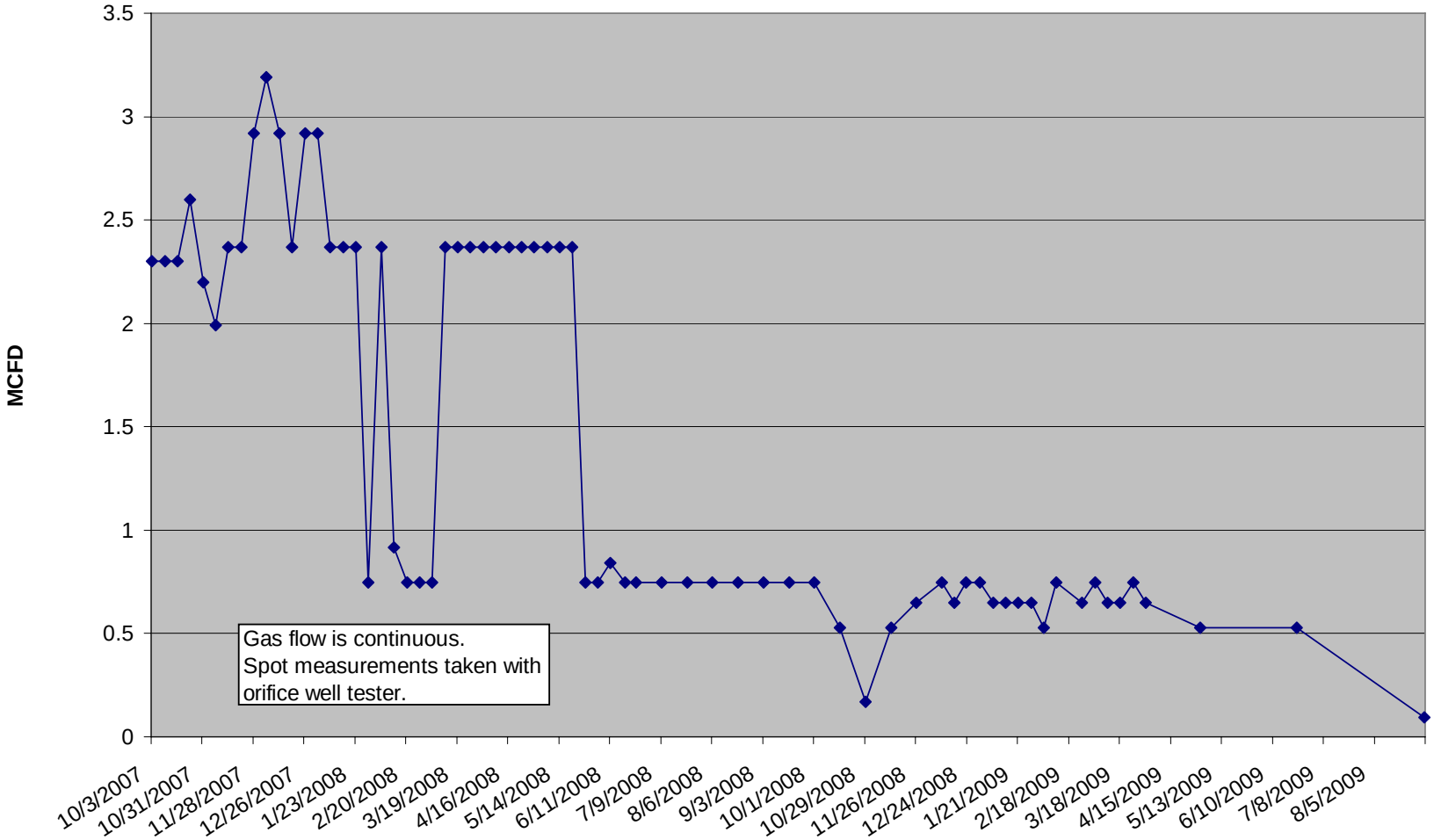
Coleman WW #267294 Measured Gas Flow
from 9/1/07 to 10/19/09



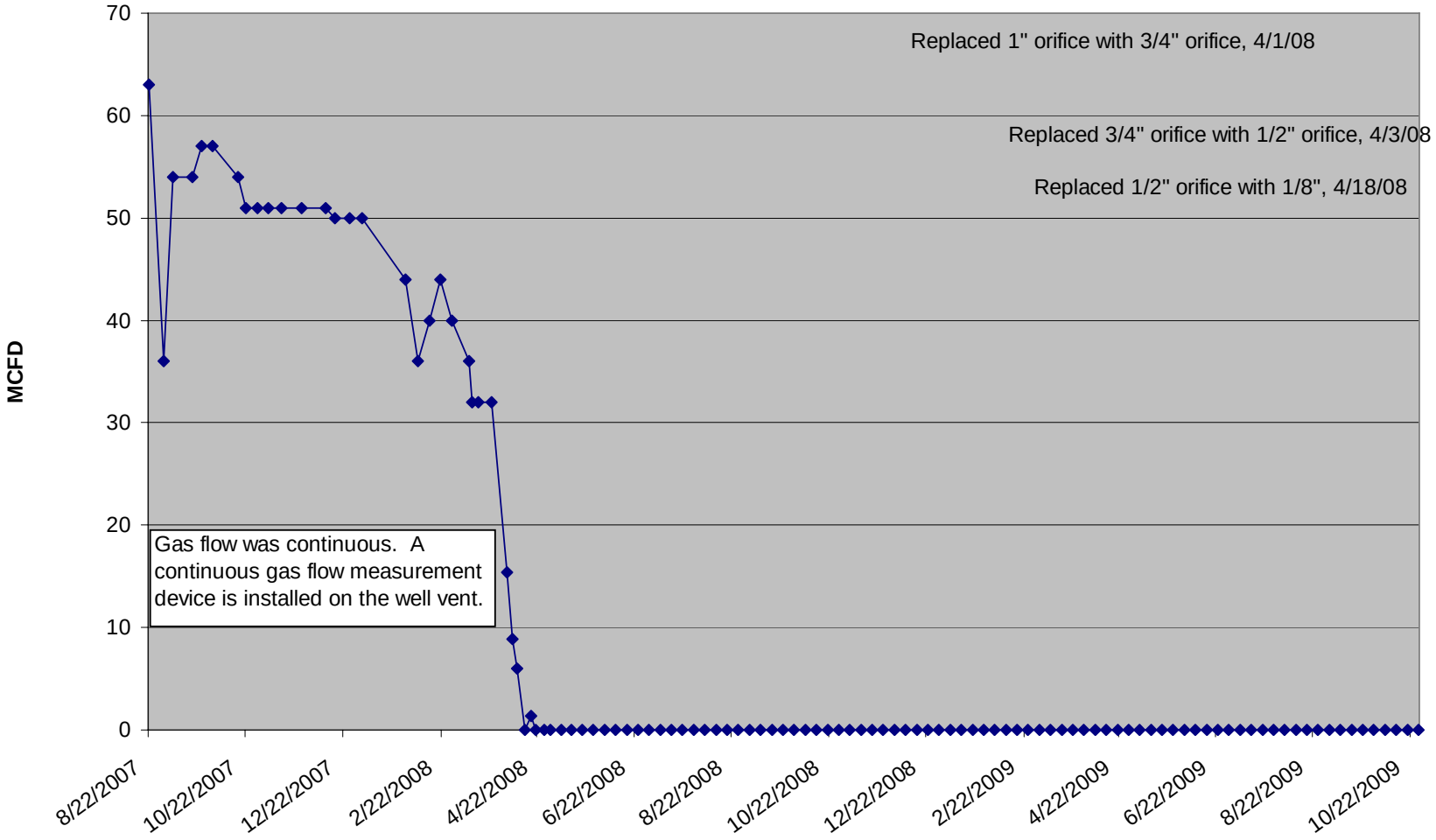
**Angely WW # 238689 Measured Gas Flow
from 9/27/07 to 9/1/09**



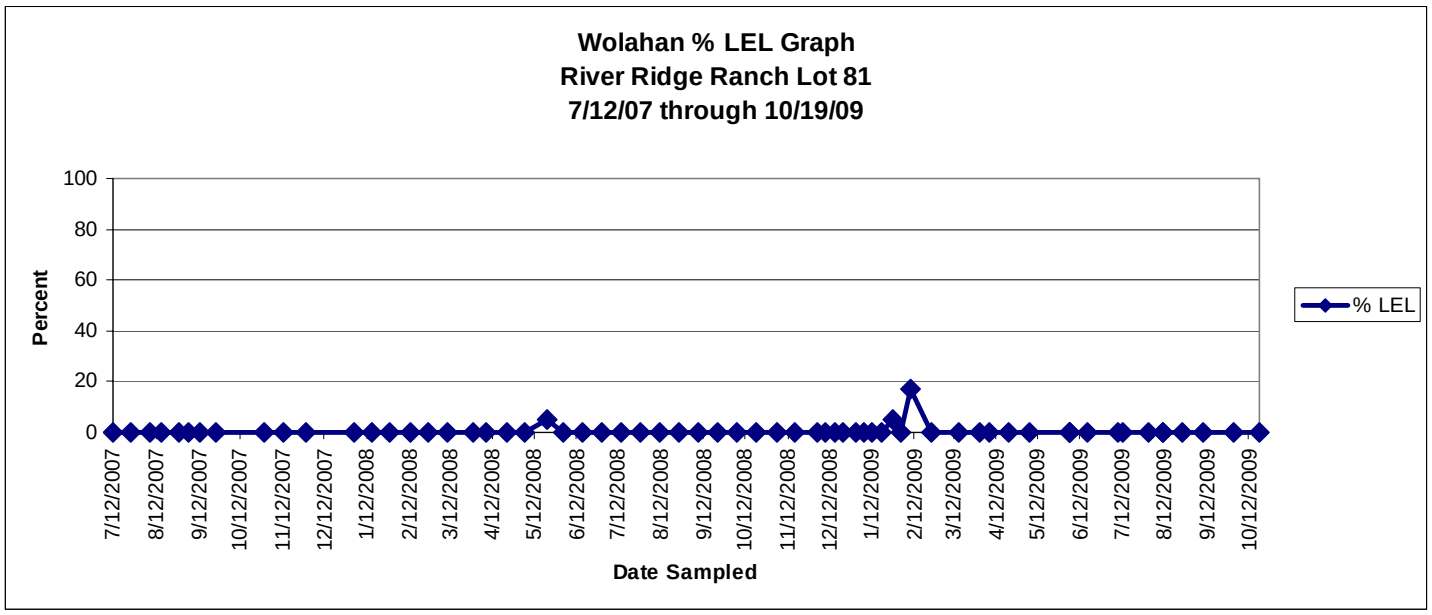
**Bounds WW #181278 Measured Gas Flow
from 10/3/07 to 9/1/09**

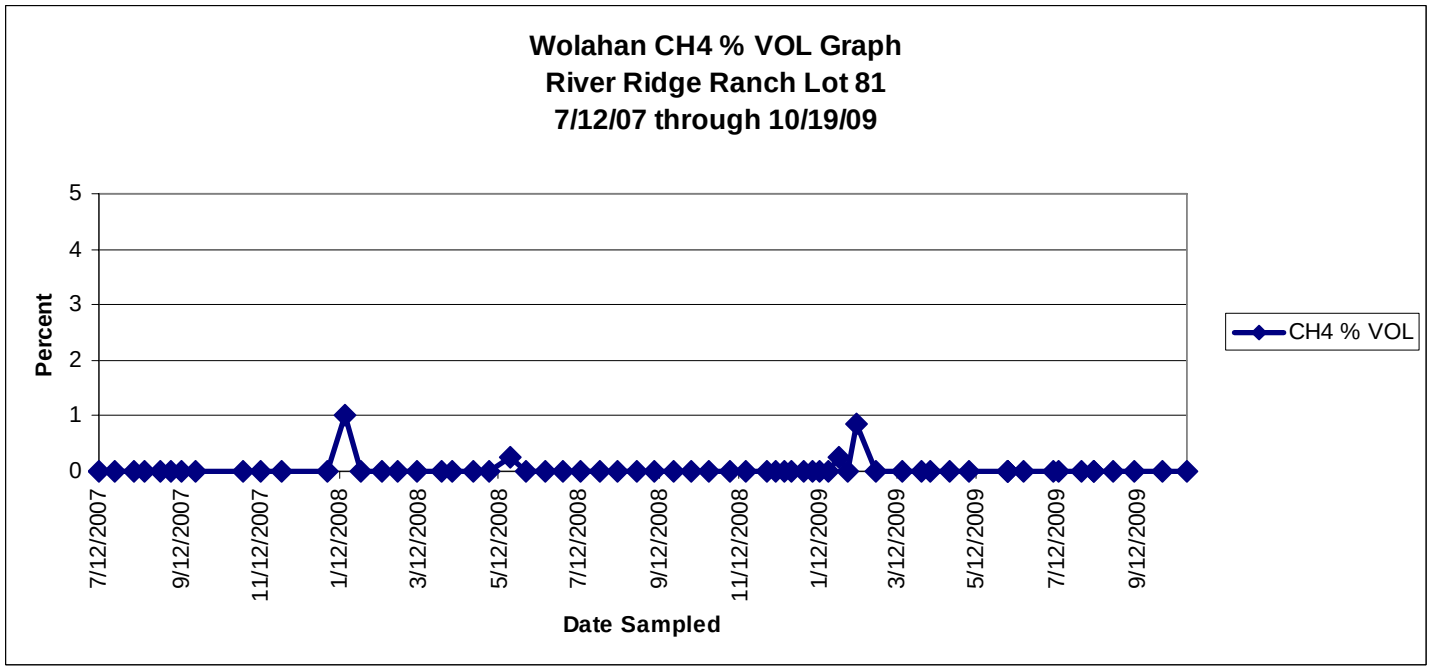


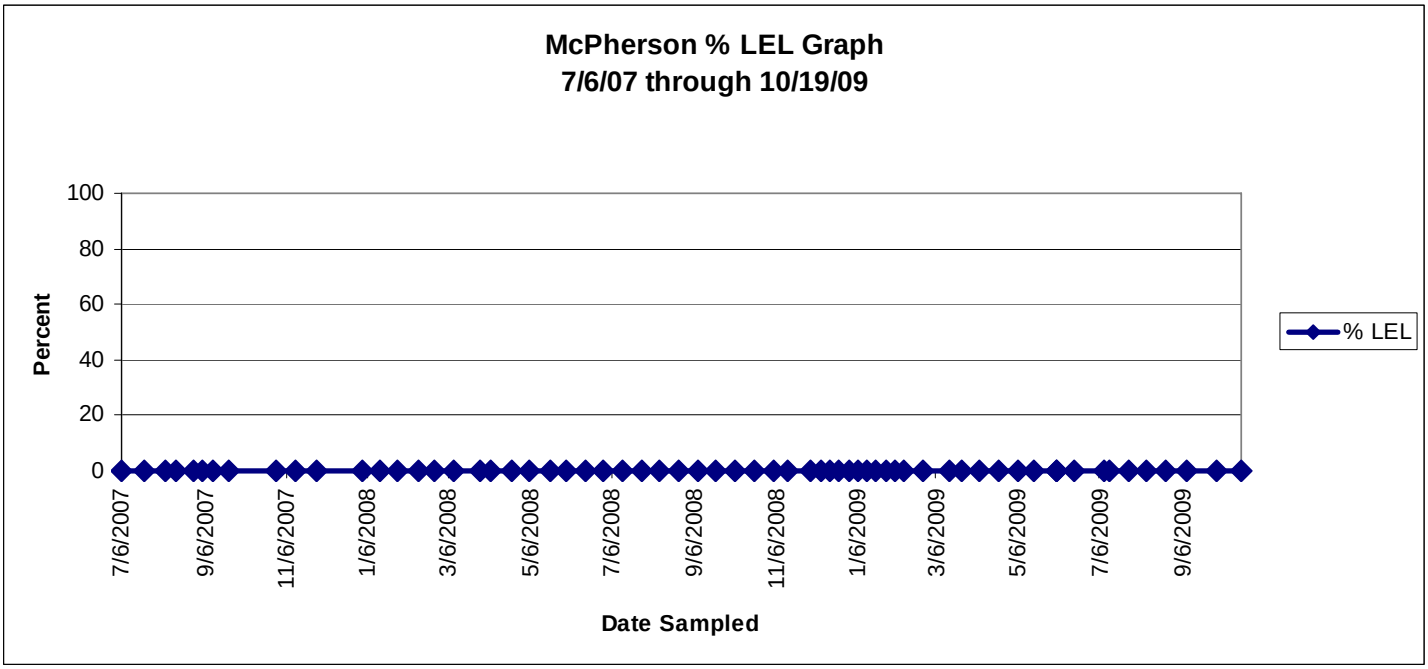
**Smith WW # 239657 Measured Gas Flow
from 8/22/07 to 10/27/09**

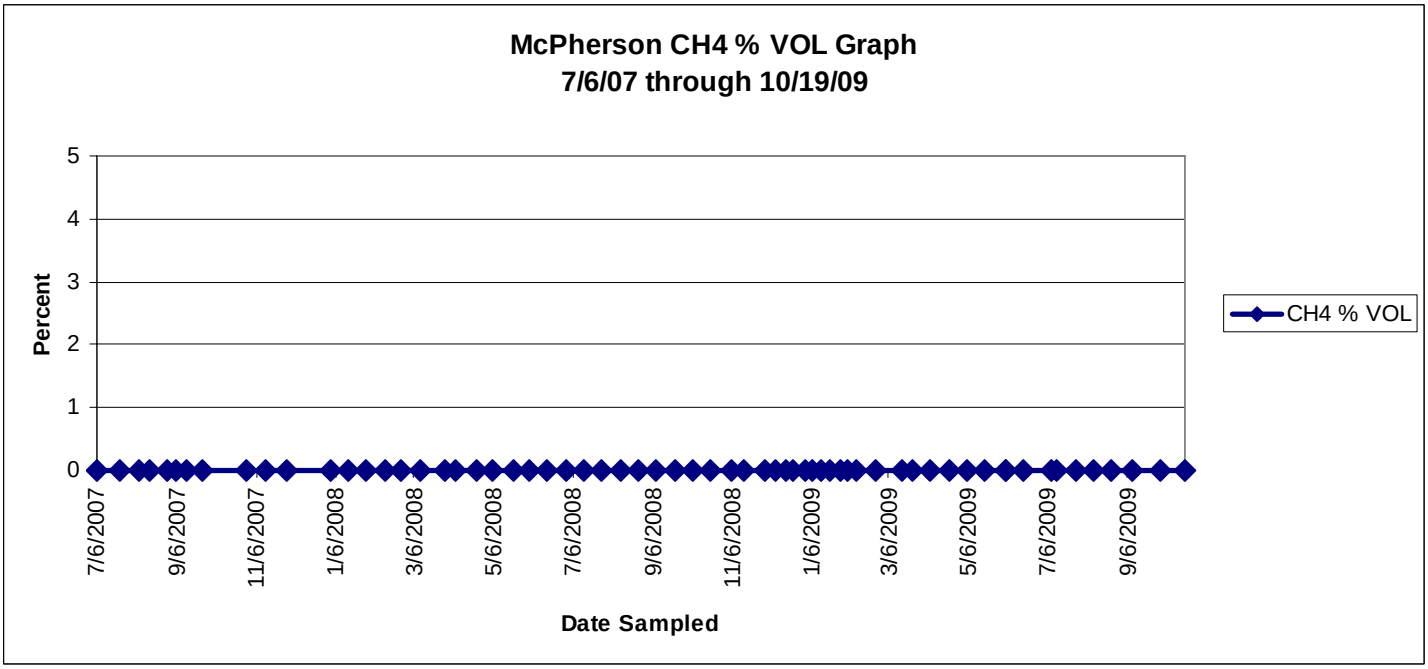


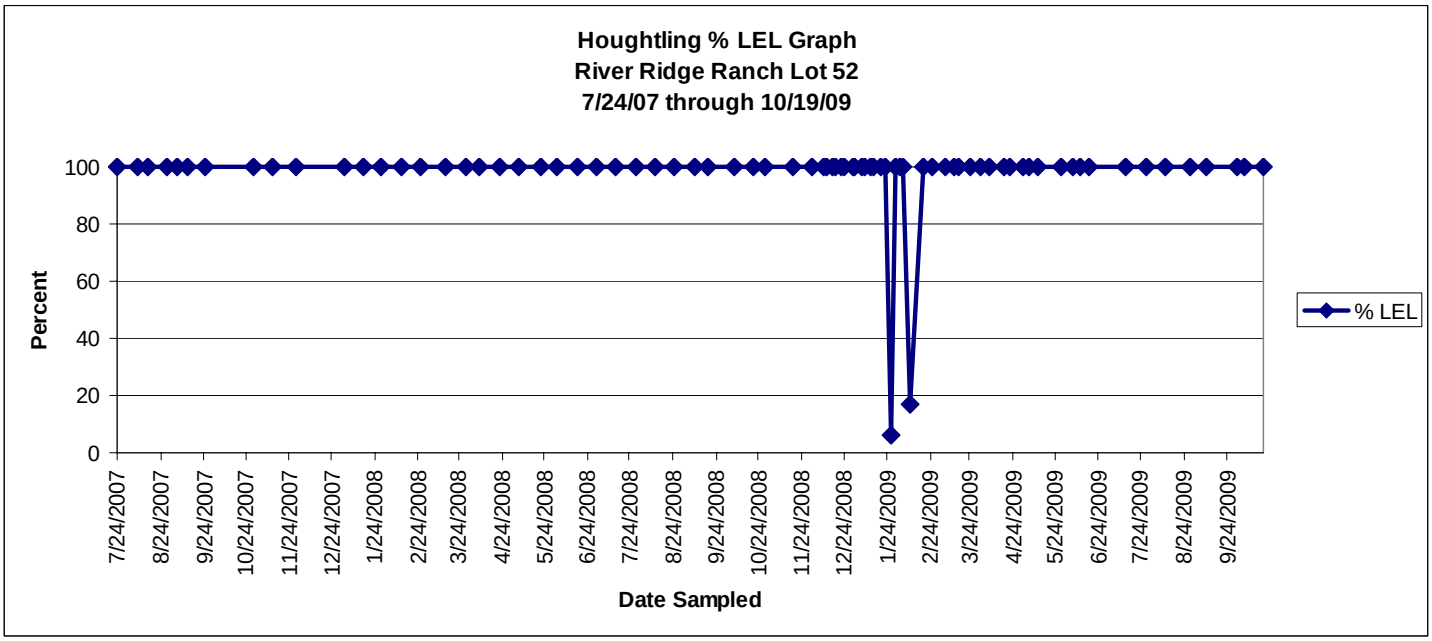
Attachment 6
Gas Concentrations in
Private Water Wells near the Mitigation Project

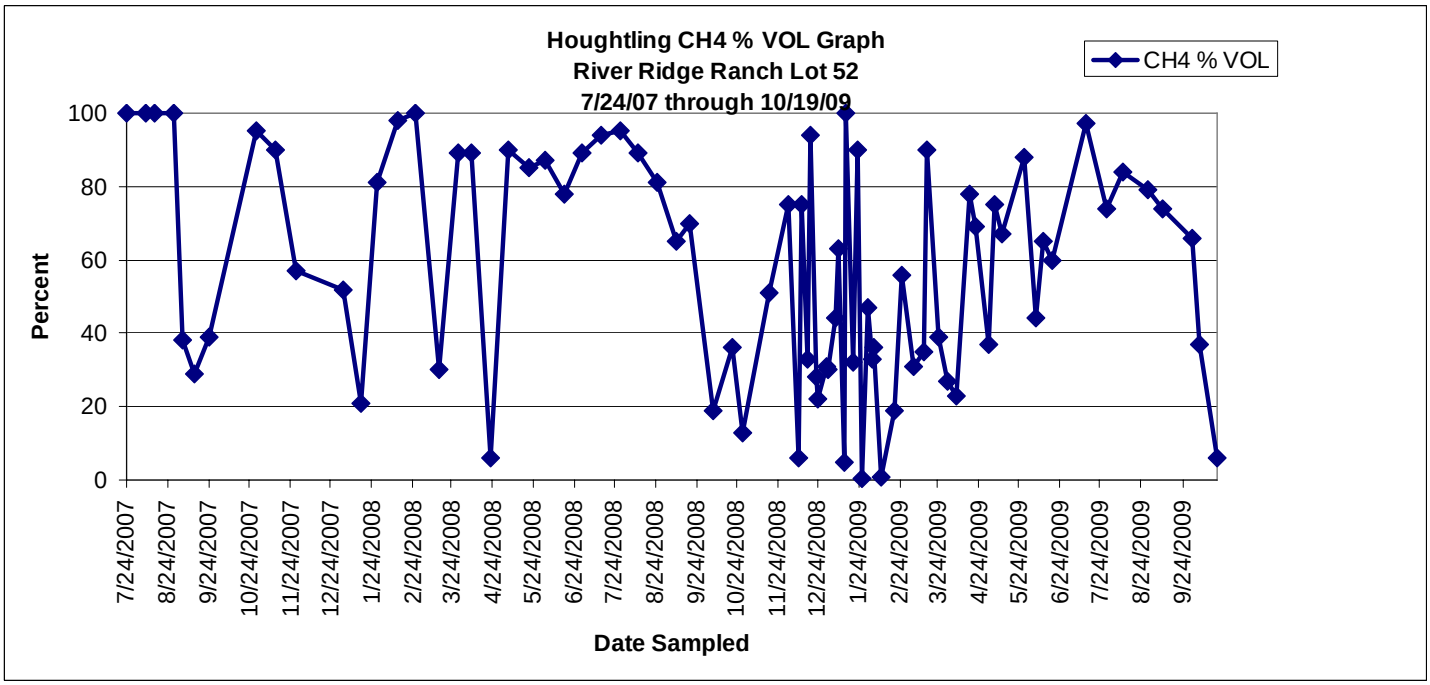

Wolahan % LEL Graph
River Ridge Ranch Lot 81
7/12/07 through 10/19/09
Percent
100
80
60
40
20
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
6/12/2009
7/12/2009
8/12/2009
9/12/2009
10/12/2009
Date Sampled
% LEL

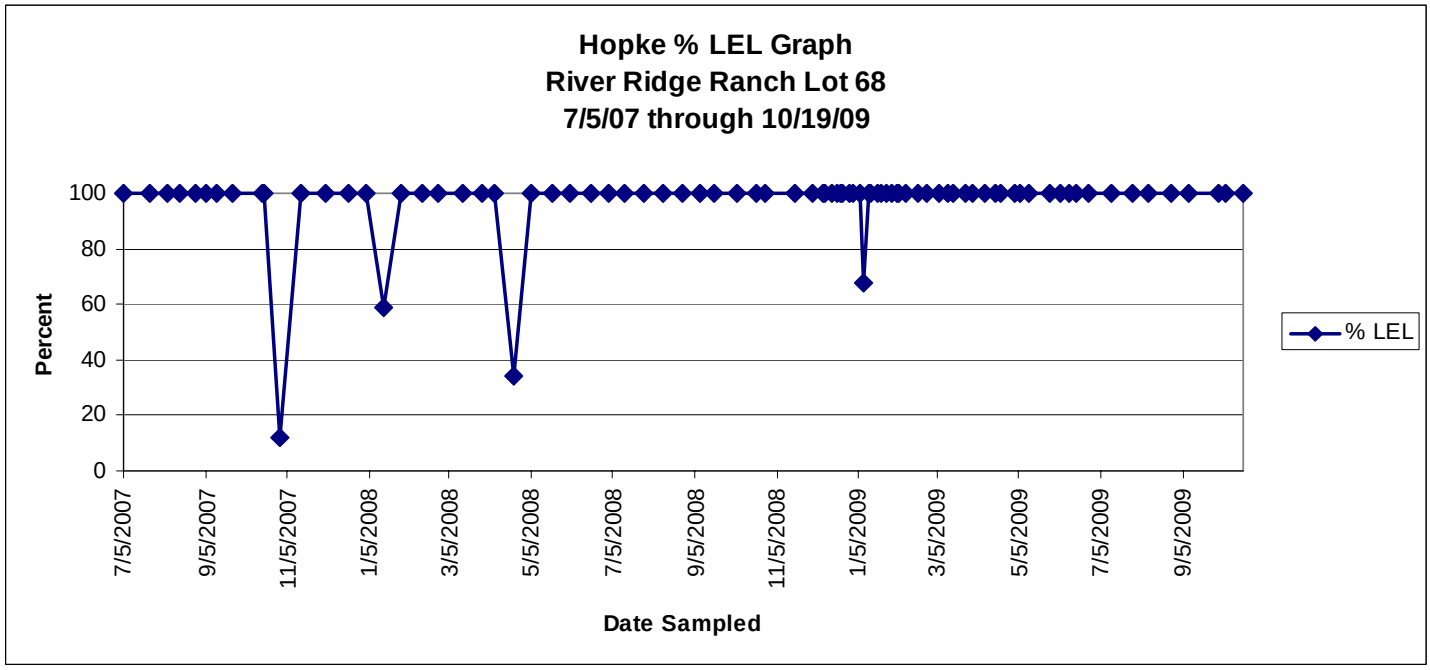

Wolahan CH4 % VOL Graph
River Ridge Ranch Lot 81
7/12/07 through 10/19/09
Percent
5
4
3
2
1
0
7/12/2007
9/12/2007
11/12/2007
1/12/2008
3/12/2008
5/12/2008
7/12/2008
9/12/2008
11/12/2008
1/12/2009
3/12/2009
5/12/2009
7/12/2009
9/12/2009
Date Sampled
CH4 % VOL

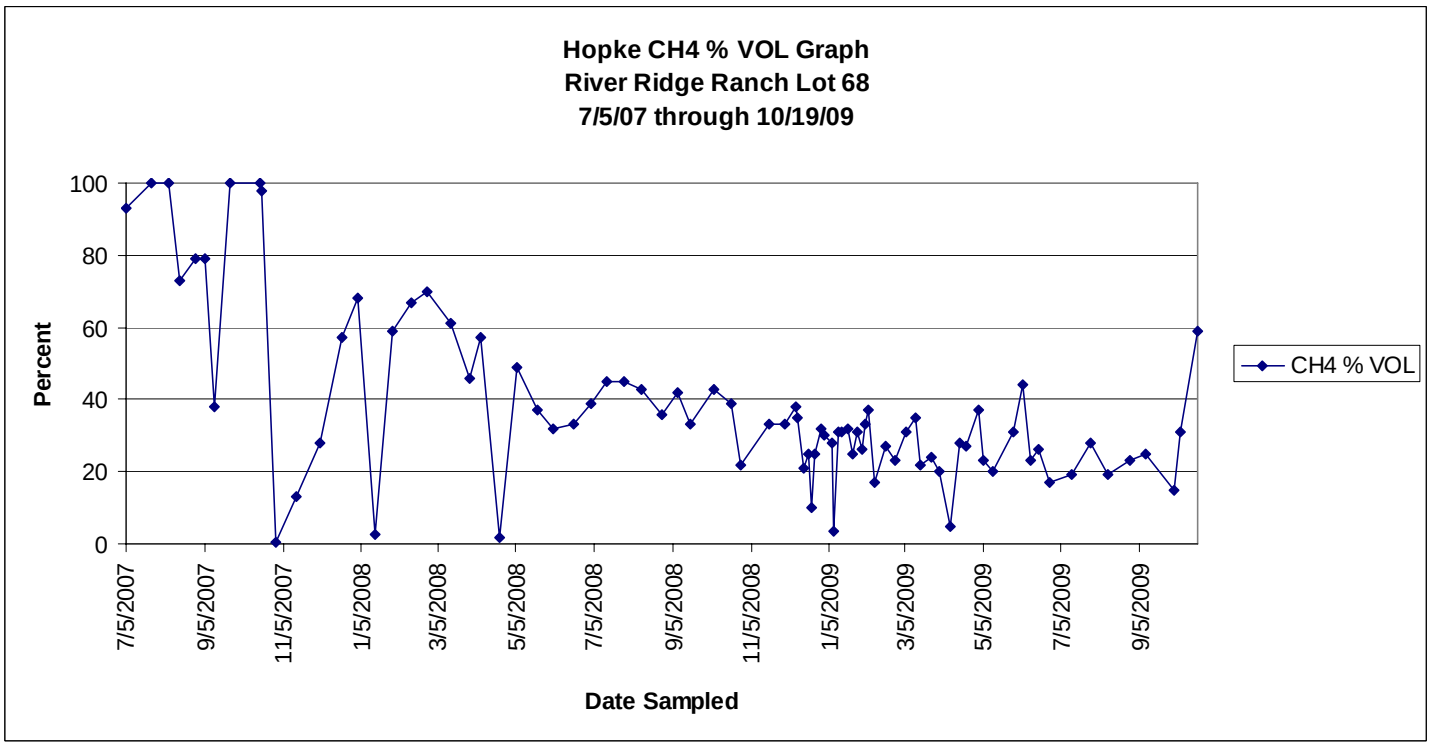

McPherson % LEL Graph
7/6/07 through 10/19/09
Percent
100
80
60
40
20
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
Date Sampled
% LEL

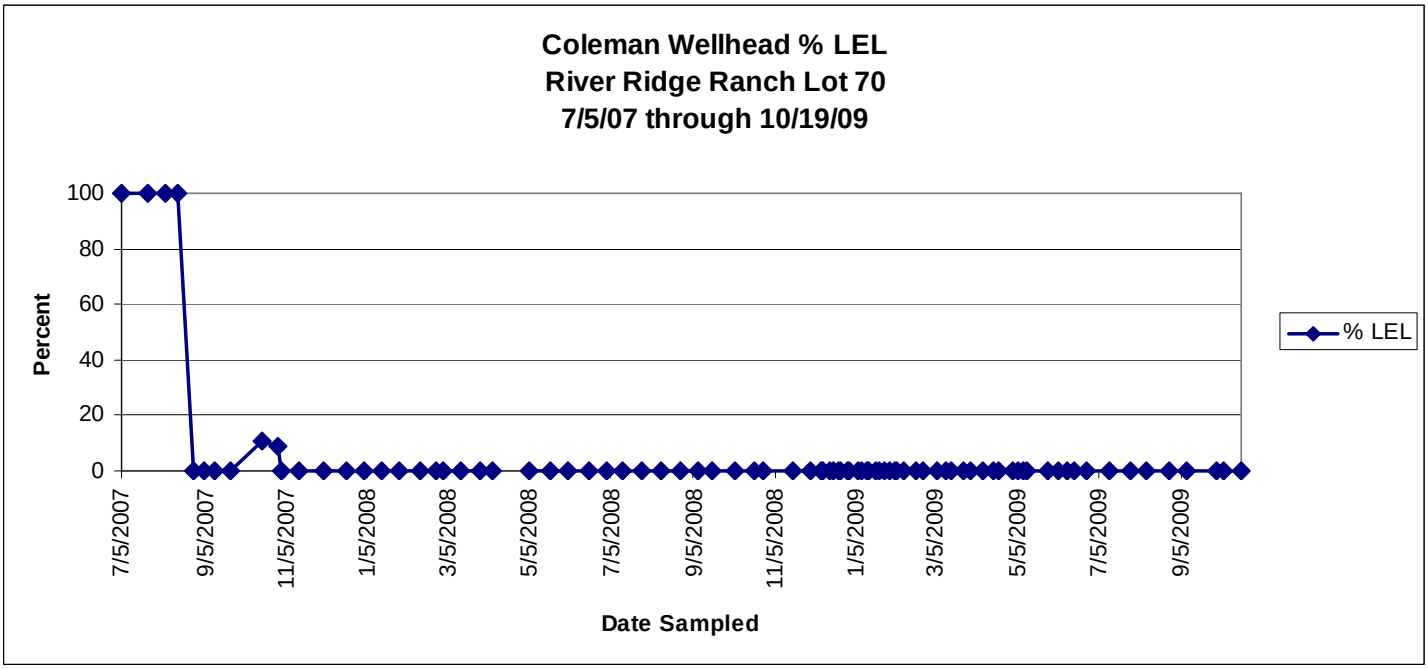

McPherson CH4 % VOL Graph
7/6/07 through 10/19/09
Percent
5
4
3
2
1
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
Date Sampled
CH4 % VOL

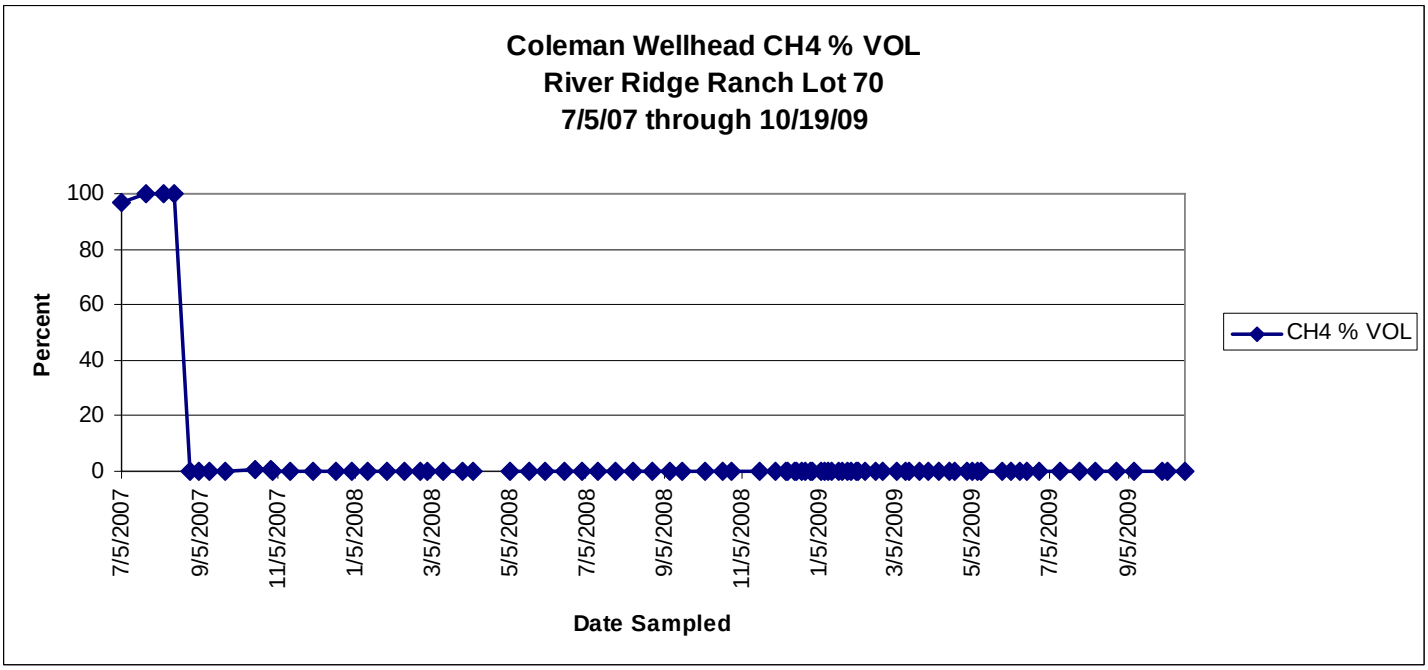

Houghtling % LEL Graph
River Ridge Ranch Lot 52
7/24/07 through 10/19/09
Percent
Date Sampled
% LEL

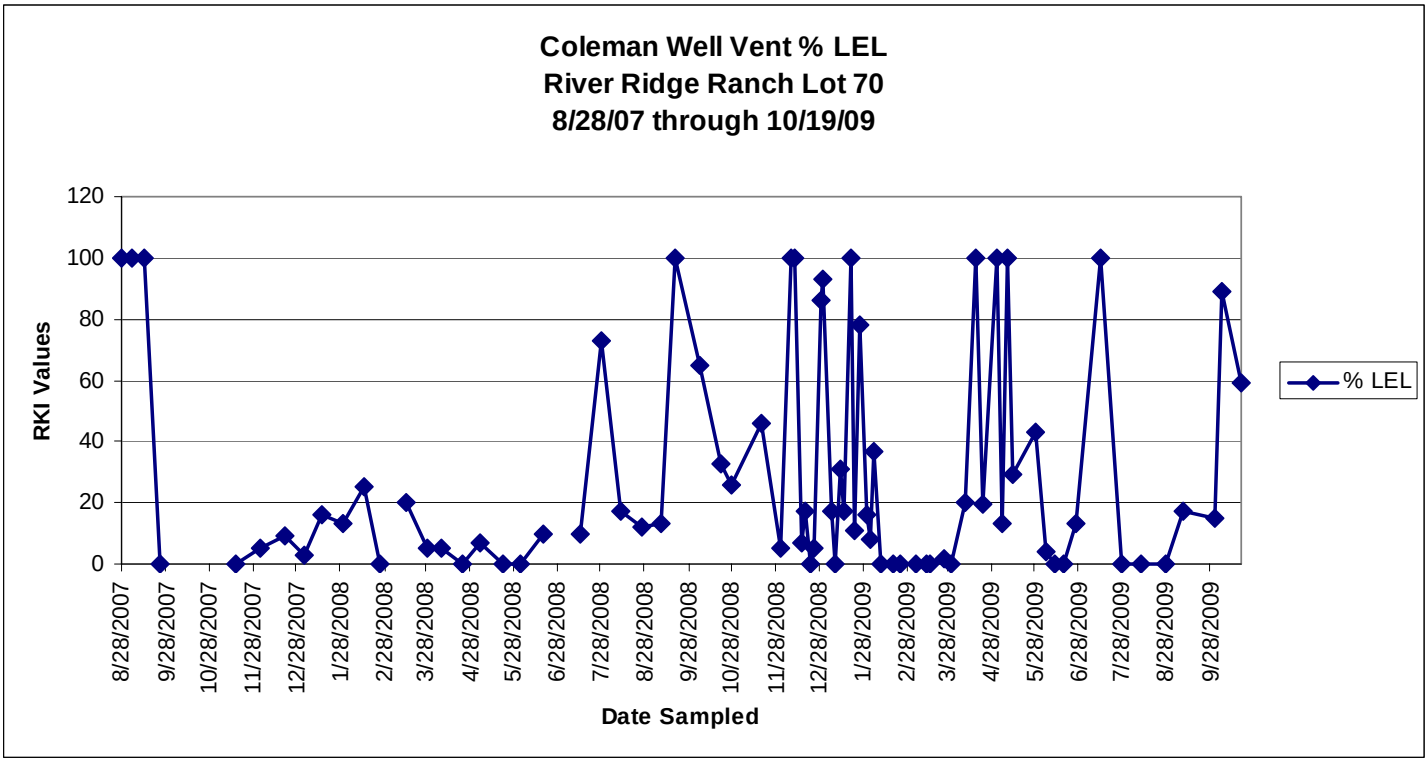

Houghtling CH4 % VOL Graph
River Ridge Ranch Lot 52
7/24/07 through 10/19/09
Percent
Date Sampled
CH4 % VOL

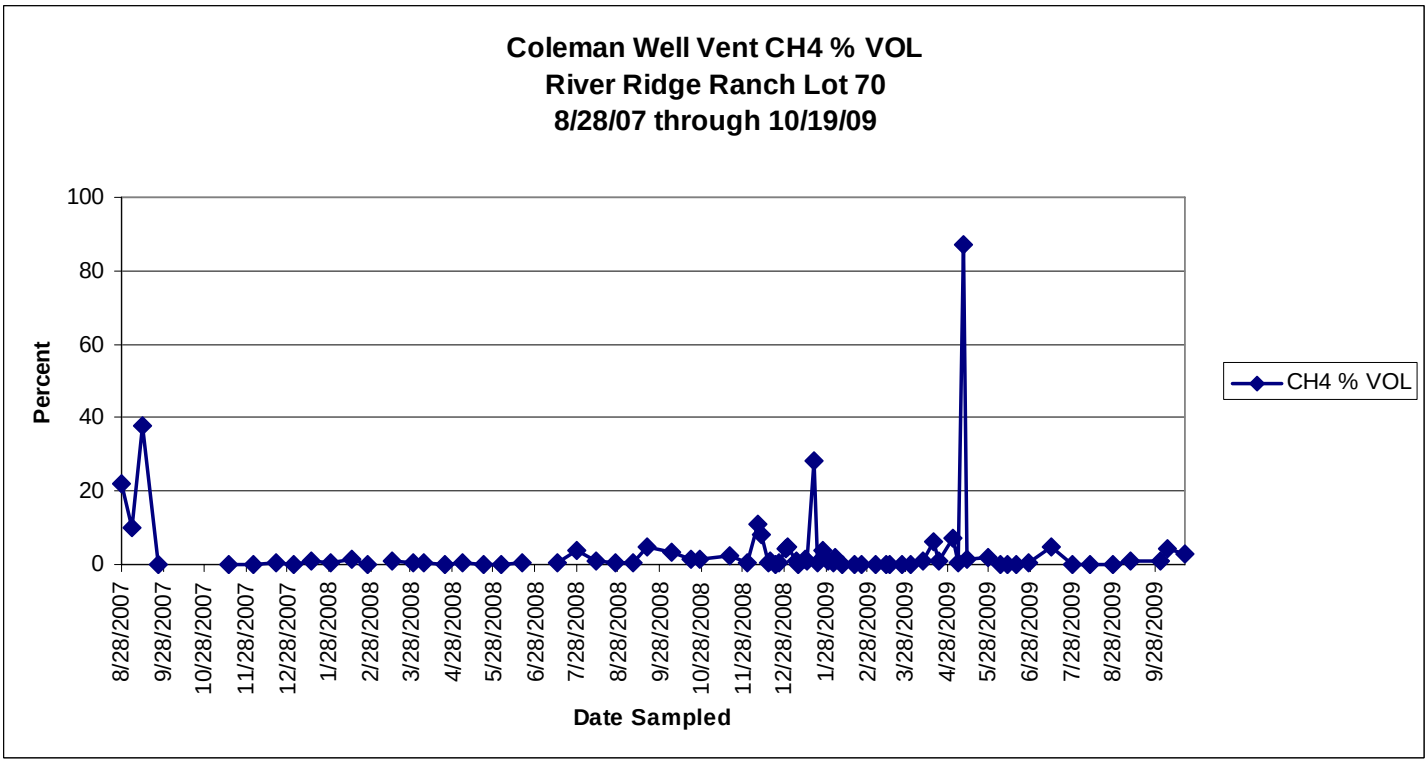

Hopke % LEL Graph
River Ridge Ranch Lot 68
7/5/07 through 10/19/09
Percent
100
80
60
40
20
0
7/5/2007
9/5/2007
11/5/2007
1/5/2008
3/5/2008
5/5/2008
7/5/2008
9/5/2008
11/5/2008
1/5/2009
3/5/2009
5/5/2009
7/5/2009
9/5/2009
Date Sampled
% LEL

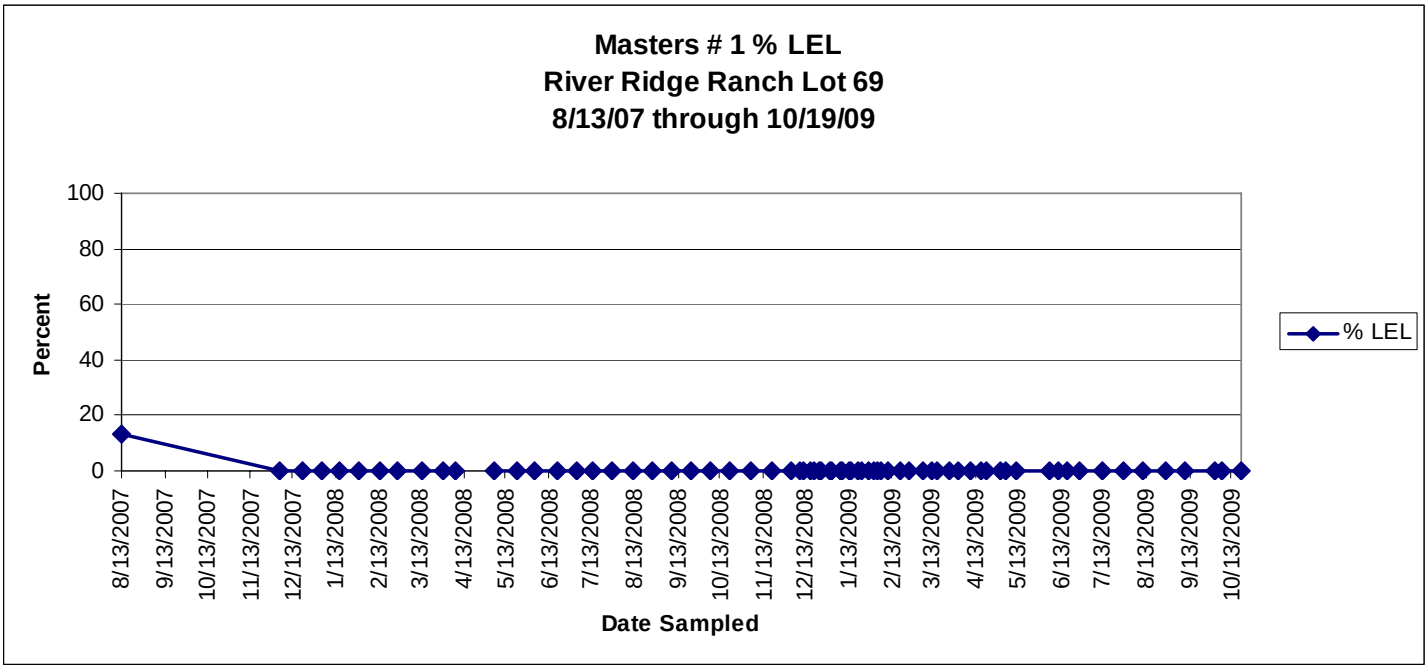

Hopke CH4 % VOL Graph
River Ridge Ranch Lot 68
7/5/07 through 10/19/09
Percent
100
80
60
40
20
0
7/5/2007
9/5/2007
11/5/2007
1/5/2008
3/5/2008
5/5/2008
7/5/2008
9/5/2008
11/5/2008
1/5/2009
3/5/2009
5/5/2009
7/5/2009
9/5/2009
Date Sampled
CH4 % VOL

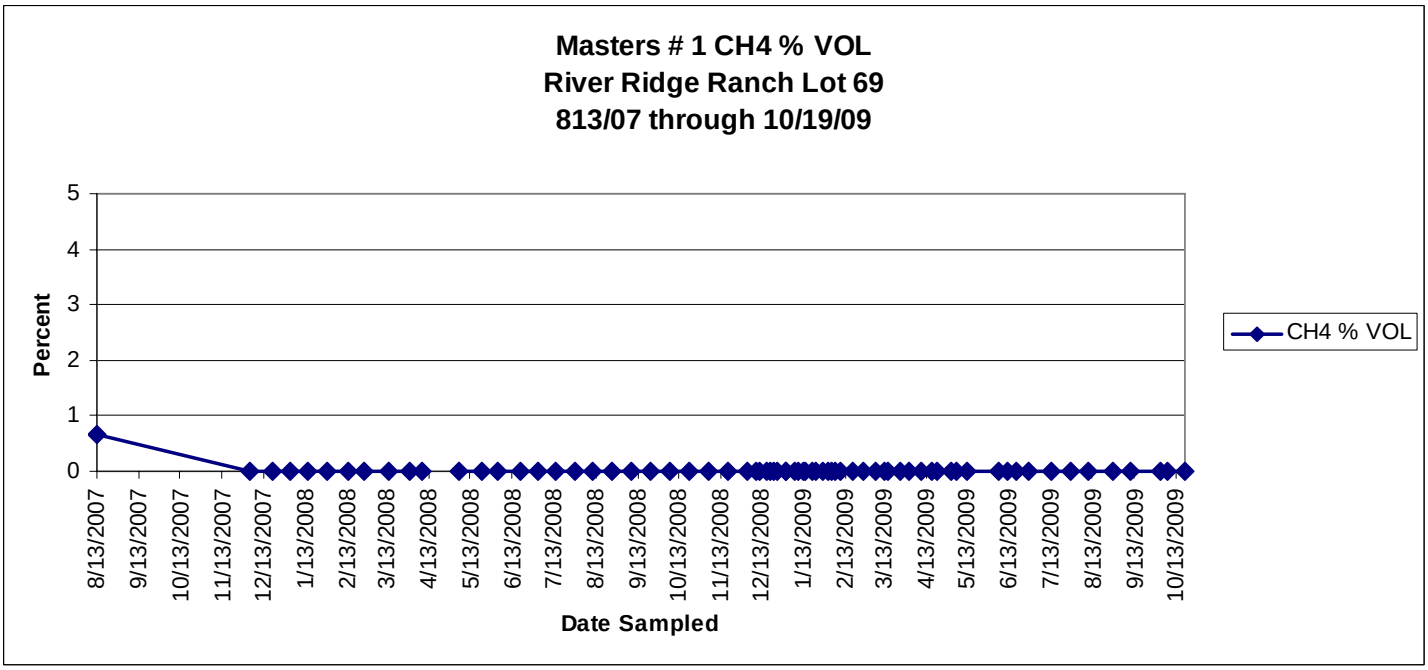

Coleman Wellhead % LEL
River Ridge Ranch Lot 70
7/5/07 through 10/19/09
Percent
100
80
60
40
20
0
7/5/2007
9/5/2007
11/5/2007
1/5/2008
3/5/2008
5/5/2008
7/5/2008
9/5/2008
11/5/2008
1/5/2009
3/5/2009
5/5/2009
7/5/2009
9/5/2009
Date Sampled
% LEL

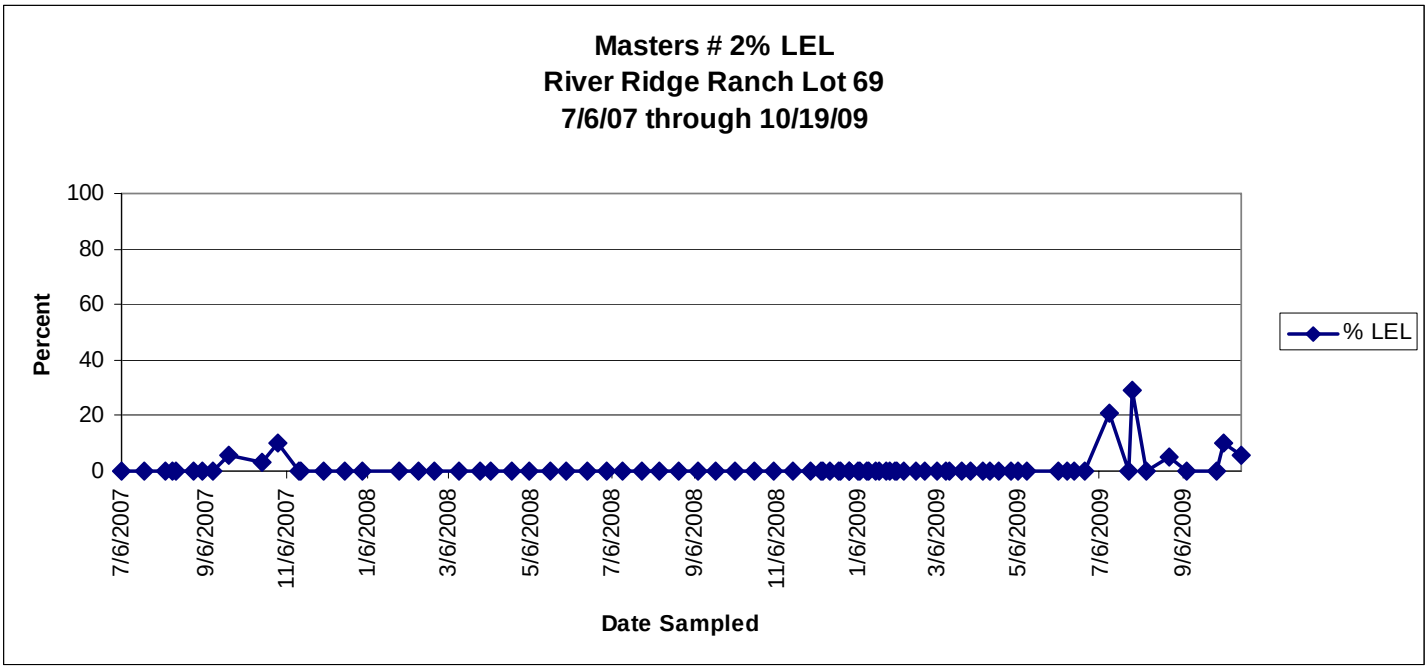

Coleman Wellhead CH4 % VOL
River Ridge Ranch Lot 70
7/5/07 through 10/19/09
Percent
100
80
60
40
20
0
7/5/2007
9/5/2007
11/5/2007
1/5/2008
3/5/2008
5/5/2008
7/5/2008
9/5/2008
11/5/2008
1/5/2009
3/5/2009
5/5/2009
7/5/2009
9/5/2009
Date Sampled
CH4 % VOL

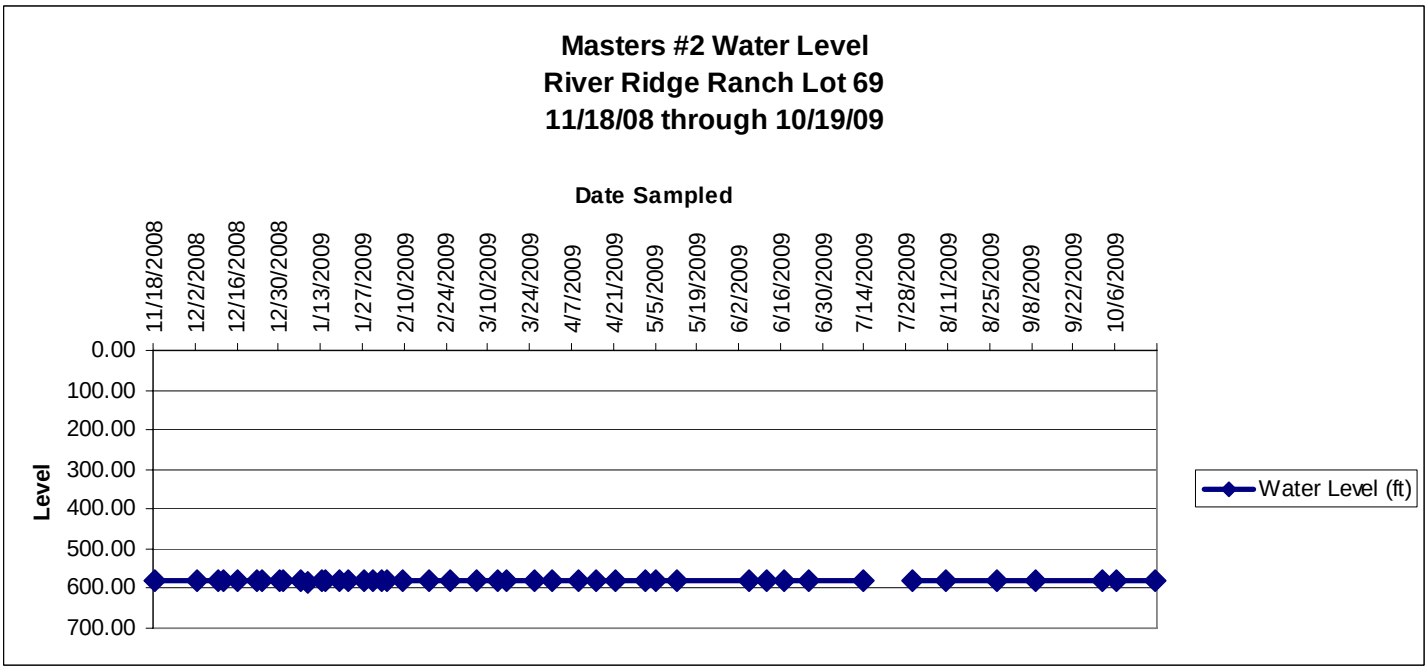

Coleman Well Vent % LEL
River Ridge Ranch Lot 70
8/28/07 through 10/19/09
RKI Values
120
100
80
60
40
20
0
8/28/2007
9/28/2007
10/28/2007
11/28/2007
12/28/2007
1/28/2008
2/28/2008
3/28/2008
4/28/2008
5/28/2008
6/28/2008
7/28/2008
8/28/2008
9/28/2008
10/28/2008
11/28/2008
12/28/2008
1/28/2009
2/28/2009
3/28/2009
4/28/2009
5/28/2009
6/28/2009
7/28/2009
8/28/2009
9/28/2009
Date Sampled
% LEL

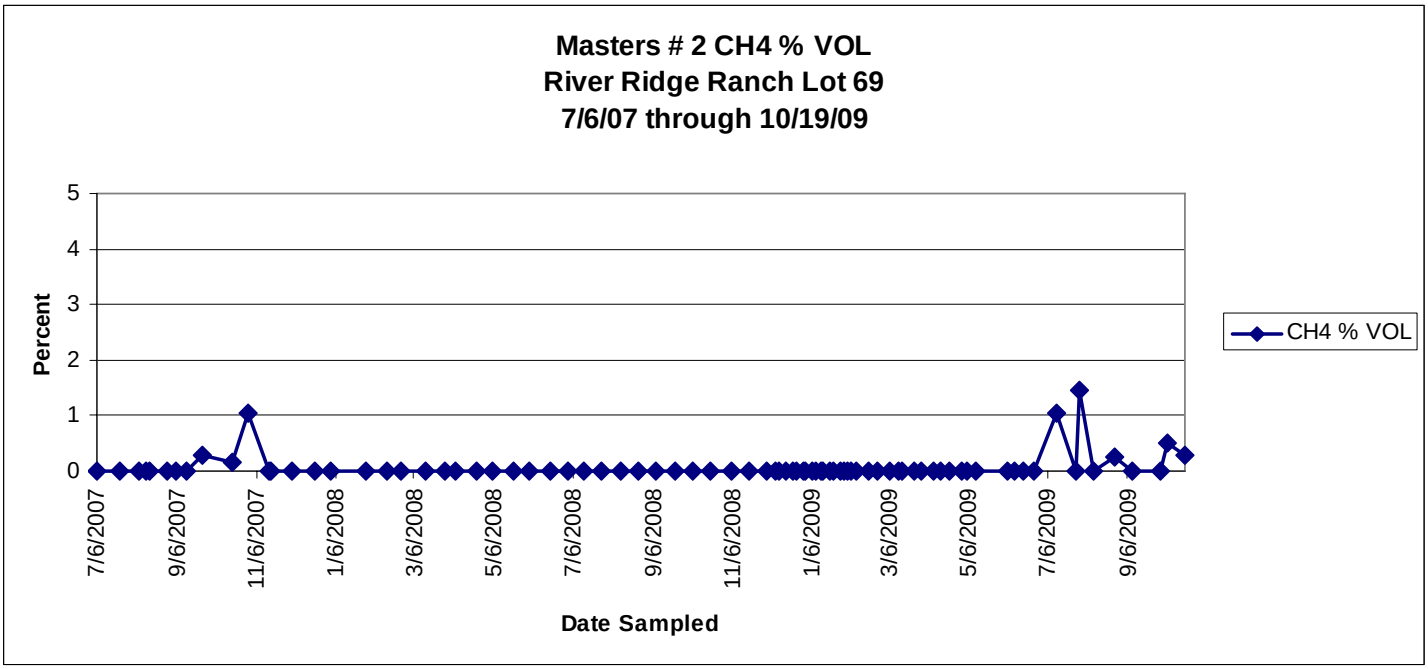

Coleman Well Vent CH4 % VOL
River Ridge Ranch Lot 70
8/28/07 through 10/19/09
Percent
100
80
60
40
20
0
8/28/2007
9/28/2007
10/28/2007
11/28/2007
12/28/2007
1/28/2008
2/28/2008
3/28/2008
4/28/2008
5/28/2008
6/28/2008
7/28/2008
8/28/2008
9/28/2008
10/28/2008
11/28/2008
12/28/2008
1/28/2009
2/28/2009
3/28/2009
4/28/2009
5/28/2009
6/28/2009
7/28/2009
8/28/2009
9/28/2009
Date Sampled
CH4 % VOL

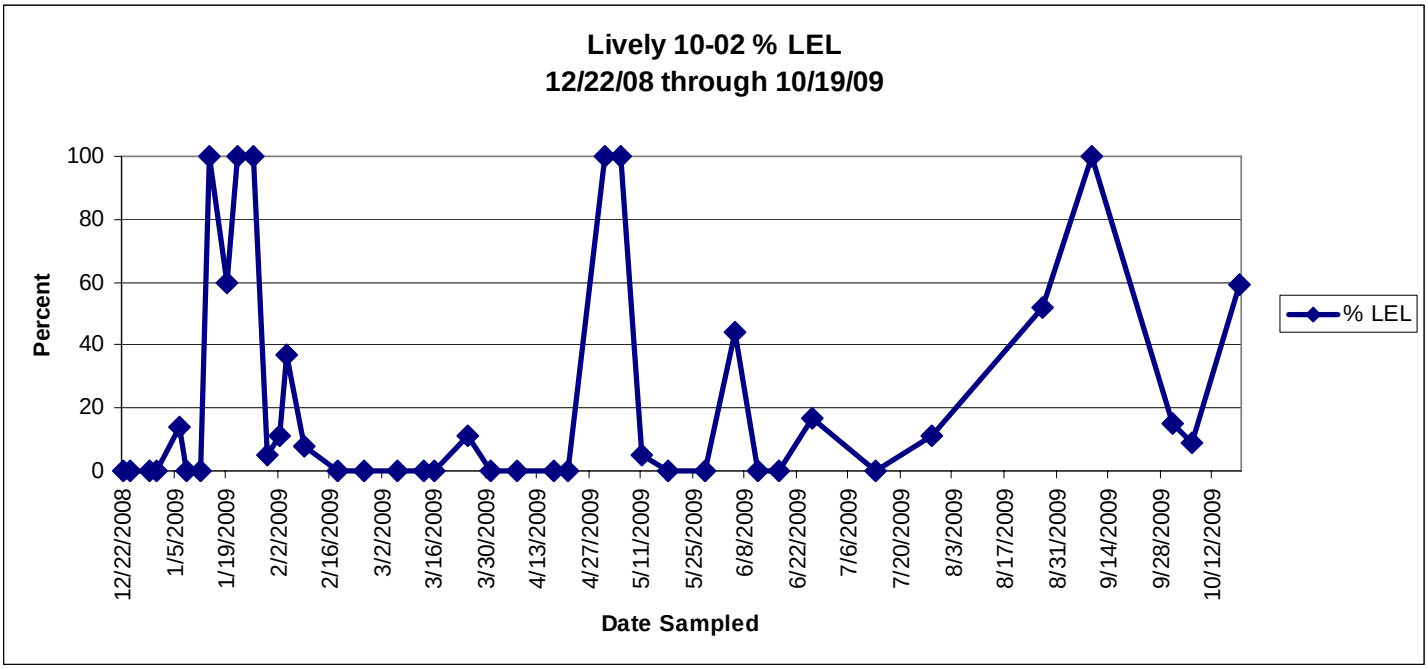

Masters # 1 % LEL
River Ridge Ranch Lot 69
8/13/07 through 10/19/09
Percent
100
80
60
40
20
0
8/13/2007
9/13/2007
10/13/2007
11/13/2007
12/13/2007
1/13/2008
2/13/2008
3/13/2008
4/13/2008
5/13/2008
6/13/2008
7/13/2008
8/13/2008
9/13/2008
10/13/2008
11/13/2008
12/13/2008
1/13/2009
2/13/2009
3/13/2009
4/13/2009
5/13/2009
6/13/2009
7/13/2009
8/13/2009
9/13/2009
10/13/2009
Date Sampled
% LEL

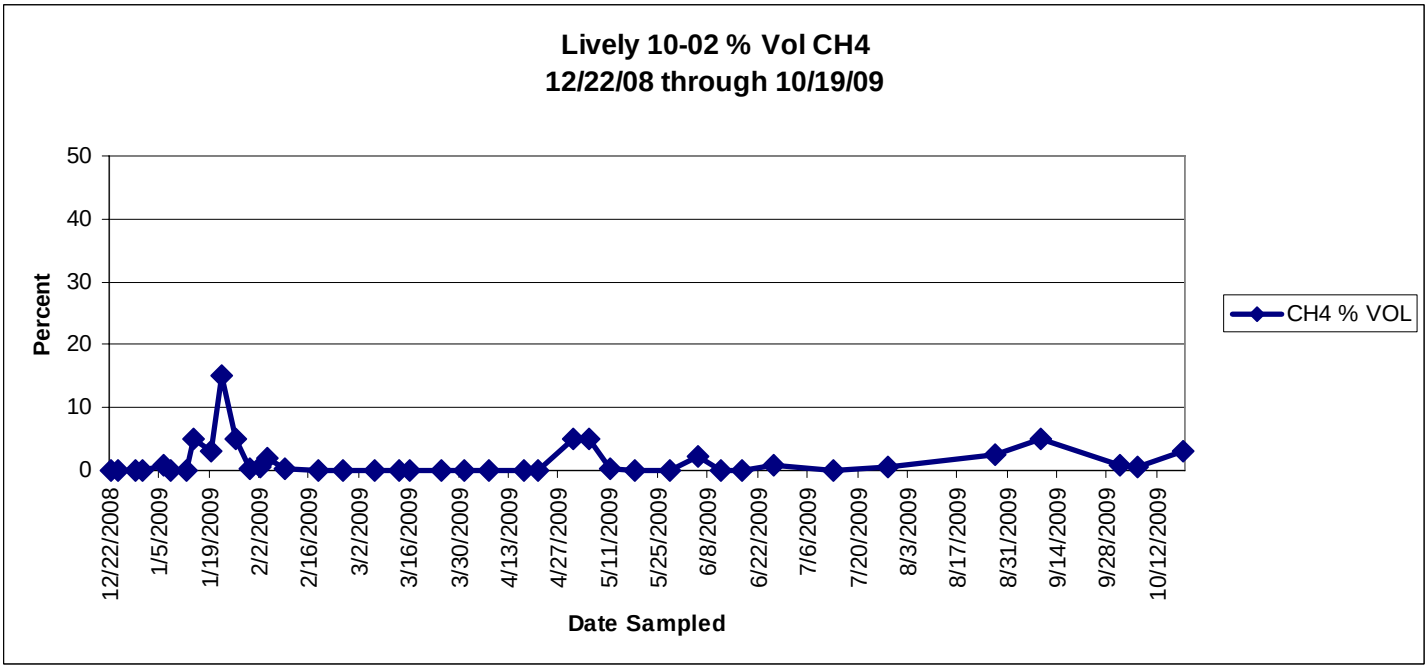

Masters # 1 CH4 % VOL
River Ridge Ranch Lot 69
813/07 through 10/19/09
Percent
5
4
3
2
1
0
8/13/2007
9/13/2007
10/13/2007
11/13/2007
12/13/2007
1/13/2008
2/13/2008
3/13/2008
4/13/2008
5/13/2008
6/13/2008
7/13/2008
8/13/2008
9/13/2008
10/13/2008
11/13/2008
12/13/2008
1/13/2009
2/13/2009
3/13/2009
4/13/2009
5/13/2009
6/13/2009
7/13/2009
8/13/2009
9/13/2009
10/13/2009
Date Sampled
CH4 % VOL

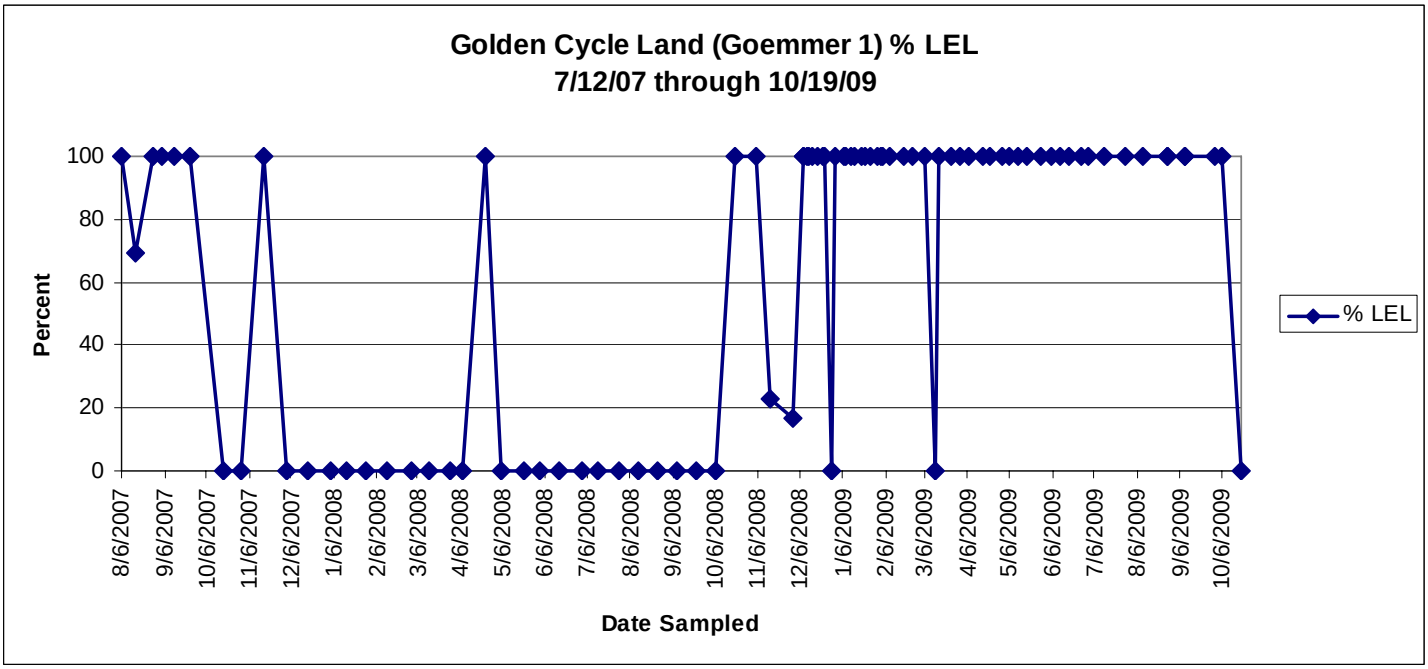

Masters # 2% LEL
River Ridge Ranch Lot 69
7/6/07 through 10/19/09
Percent
100
80
60
40
20
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
Date Sampled
% LEL

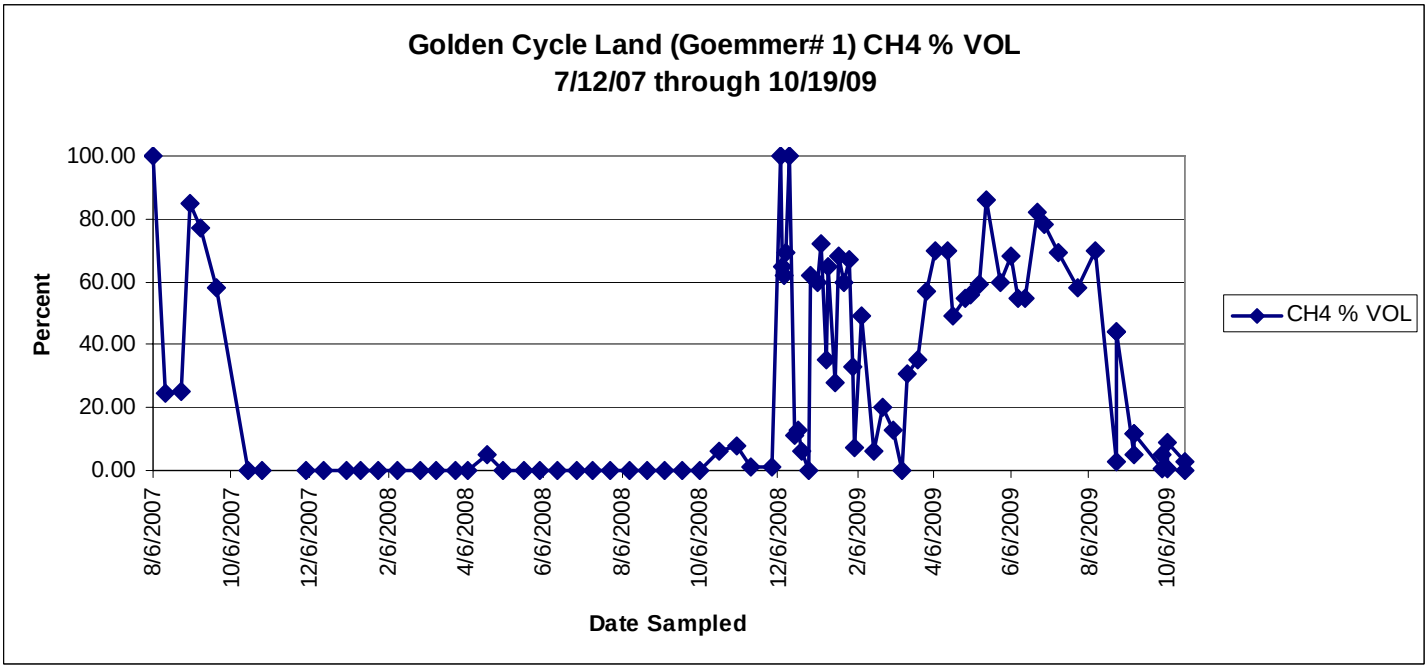

Masters #2 Water Level
River Ridge Ranch Lot 69
11/18/08 through 10/19/09
Date Sampled
11/18/2008
12/2/2008
12/16/2008
12/30/2008
1/13/2009
1/27/2009
2/10/2009
2/24/2009
3/10/2009
3/24/2009
4/7/2009
4/21/2009
5/5/2009
5/19/2009
6/2/2009
6/16/2009
6/30/2009
7/14/2009
7/28/2009
8/11/2009
8/25/2009
9/8/2009
9/22/2009
10/6/2009
Level
0.00
100.00
200.00
300.00
400.00
500.00
600.00
700.00
Water Level (ft)

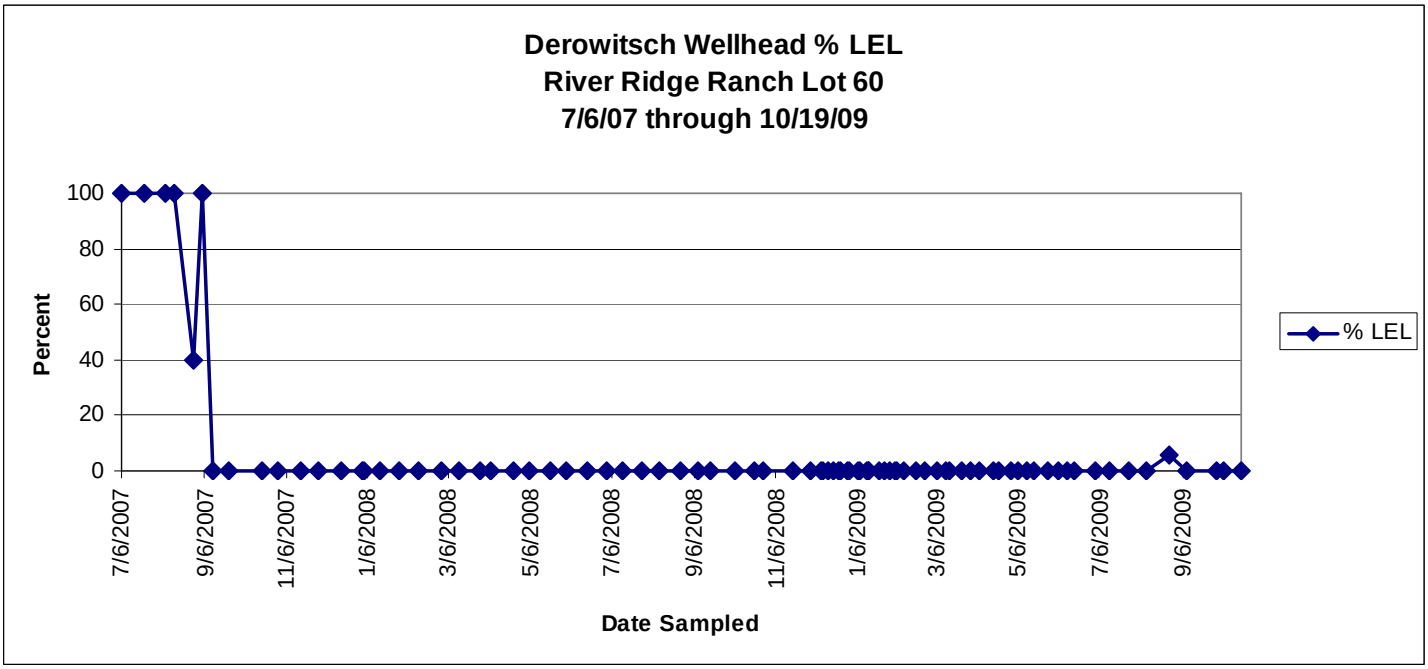

Masters # 2 CH4 % VOL
River Ridge Ranch Lot 69
7/6/07 through 10/19/09
Percent
5
4
3
2
1
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
Date Sampled
CH4 % VOL

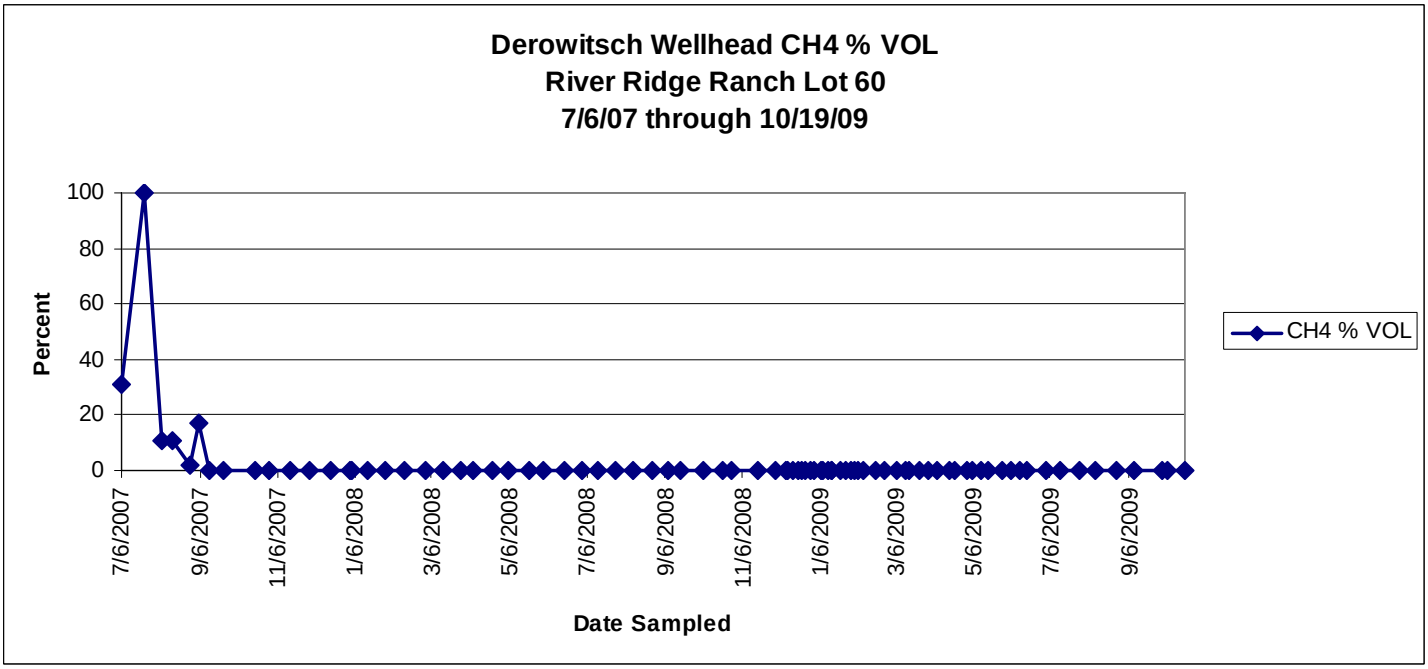

Lively 10-02 % LEL
12/22/08 through 10/19/09
Percent
100
80
60
40
20
0
12/22/2008
1/5/2009
1/19/2009
2/2/2009
2/16/2009
3/2/2009
3/16/2009
3/30/2009
4/13/2009
4/27/2009
5/11/2009
5/25/2009
6/8/2009
6/22/2009
7/6/2009
7/20/2009
8/3/2009
8/17/2009
8/31/2009
9/14/2009
9/28/2009
10/12/2009
Date Sampled
% LEL

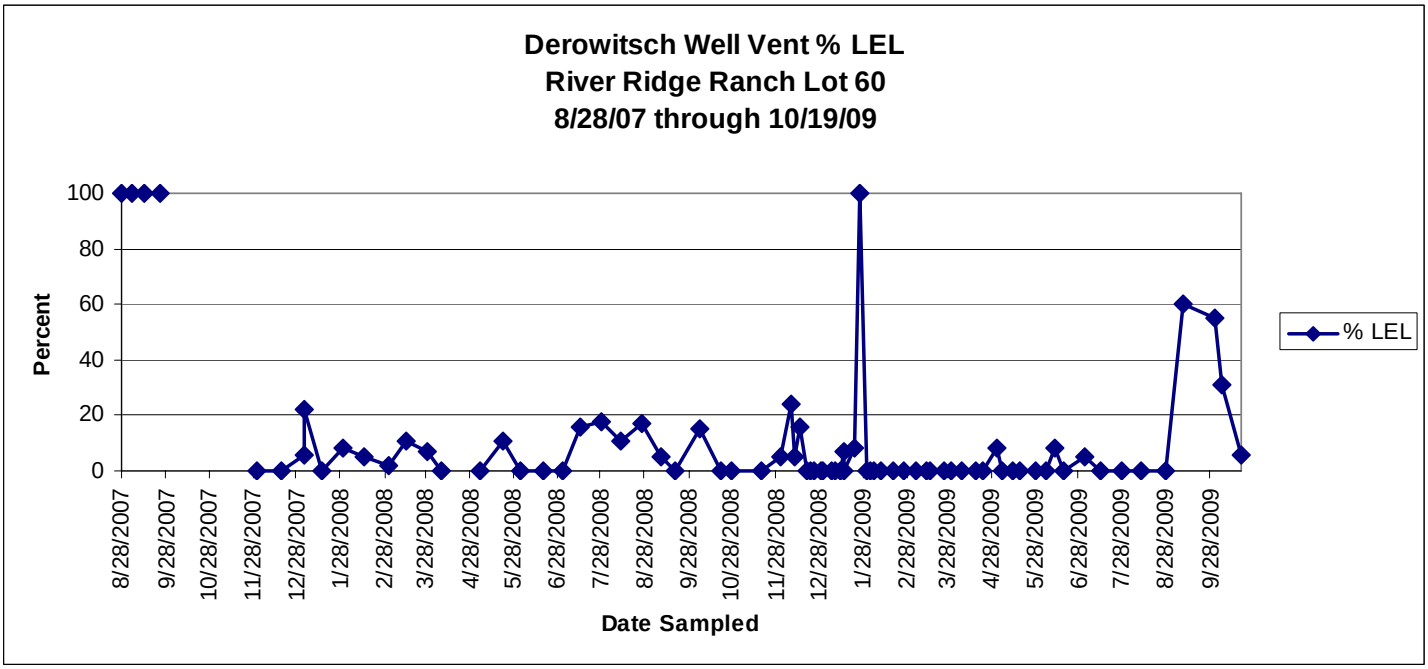

Lively 10-02 % Vol CH4
12/22/08 through 10/19/09
Percent
50
40
30
20
10
0
12/22/2008
1/5/2009
1/19/2009
2/2/2009
2/16/2009
3/2/2009
3/16/2009
3/30/2009
4/13/2009
4/27/2009
5/11/2009
5/25/2009
6/8/2009
6/22/2009
7/6/2009
7/20/2009
8/3/2009
8/17/2009
8/31/2009
9/14/2009
9/28/2009
10/12/2009
Date Sampled
CH4 % VOL

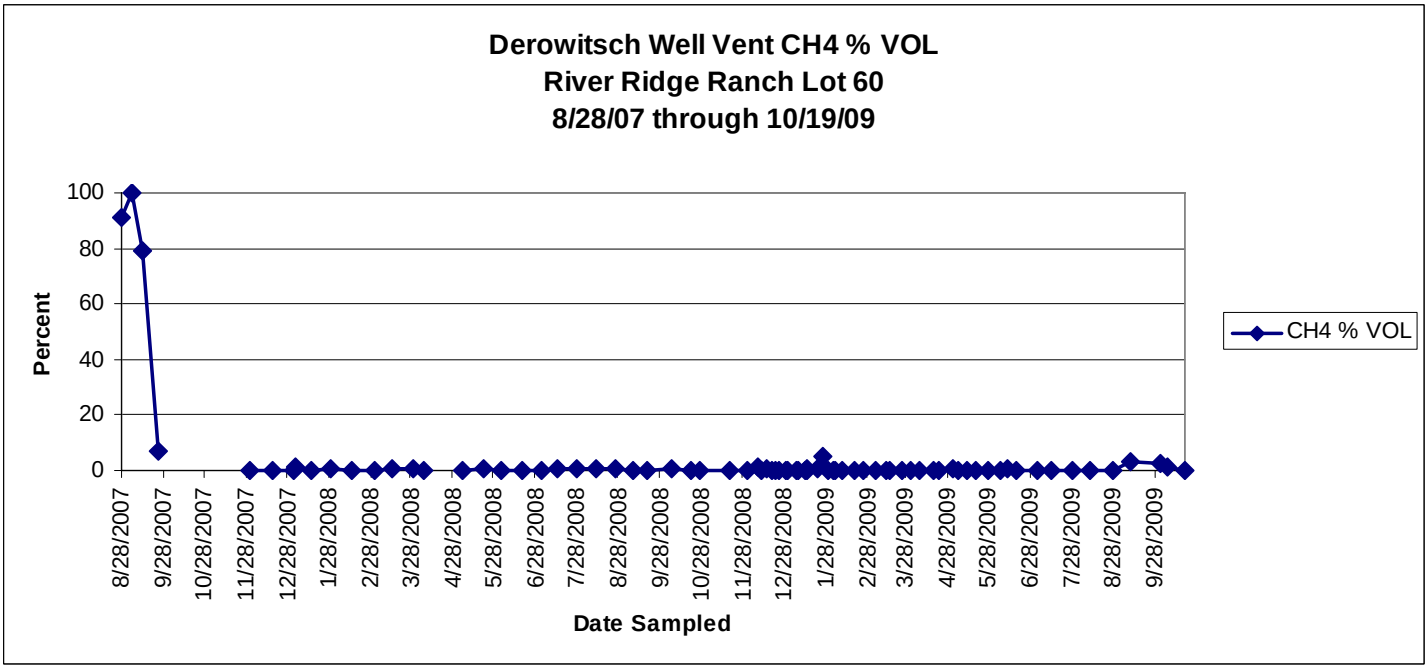

Golden Cycle Land (Goemmer 1) % LEL
7/12/07 through 10/19/09
Percent
100
80
60
40
20
0
8/6/2007
9/6/2007
10/6/2007
11/6/2007
12/6/2007
1/6/2008
2/6/2008
3/6/2008
4/6/2008
5/6/2008
6/6/2008
7/6/2008
8/6/2008
9/6/2008
10/6/2008
11/6/2008
12/6/2008
1/6/2009
2/6/2009
3/6/2009
4/6/2009
5/6/2009
6/6/2009
7/6/2009
8/6/2009
9/6/2009
10/6/2009
Date Sampled
% LEL

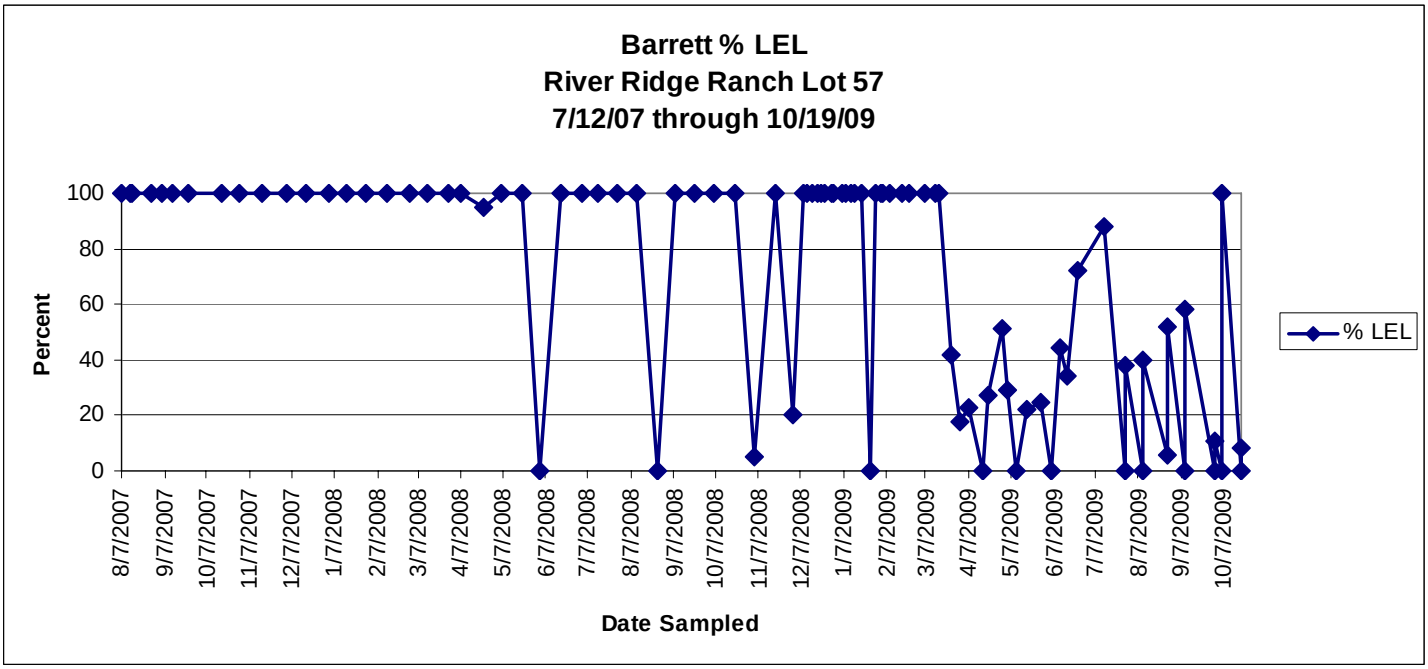

Golden Cycle Land (Goemmer# 1) CH4 % VOL
7/12/07 through 10/19/09
Percent
100.00
80.00
60.00
40.00
20.00
0.00
8/6/2007
10/6/2007
12/6/2007
2/6/2008
4/6/2008
6/6/2008
8/6/2008
10/6/2008
12/6/2008
2/6/2009
4/6/2009
6/6/2009
8/6/2009
10/6/2009
Date Sampled
CH4 % VOL

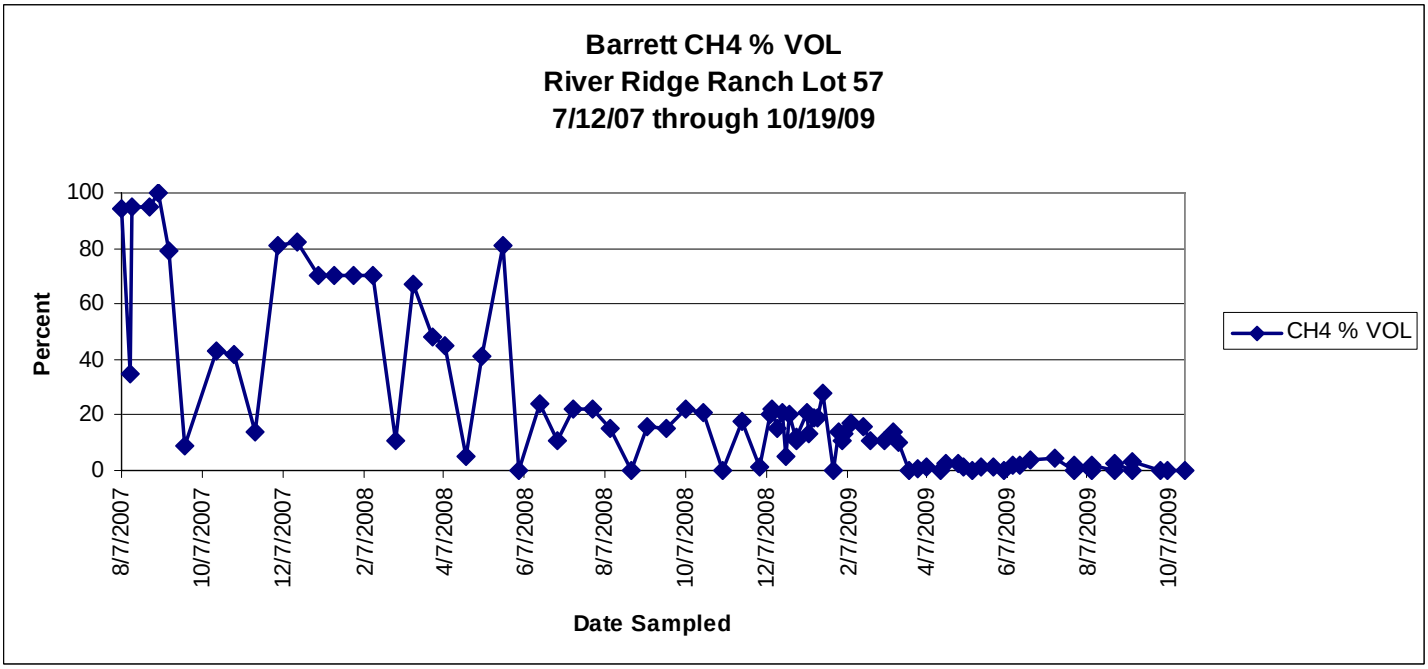

Derowitsch Wellhead % LEL
River Ridge Ranch Lot 60
7/6/07 through 10/19/09
Percent
100
80
60
40
20
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
Date Sampled
% LEL

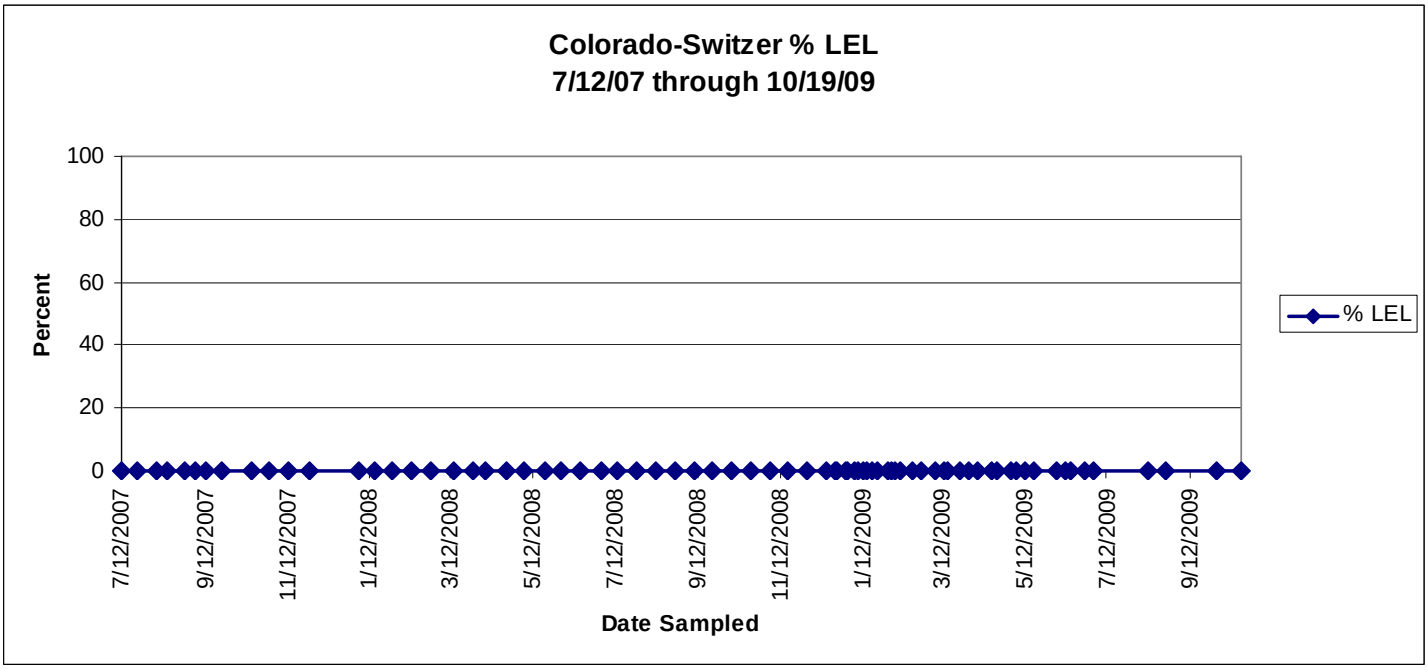

Derowitsch Wellhead CH4 % VOL
River Ridge Ranch Lot 60
7/6/07 through 10/19/09
Percent
100
80
60
40
20
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
Date Sampled
CH4 % VOL

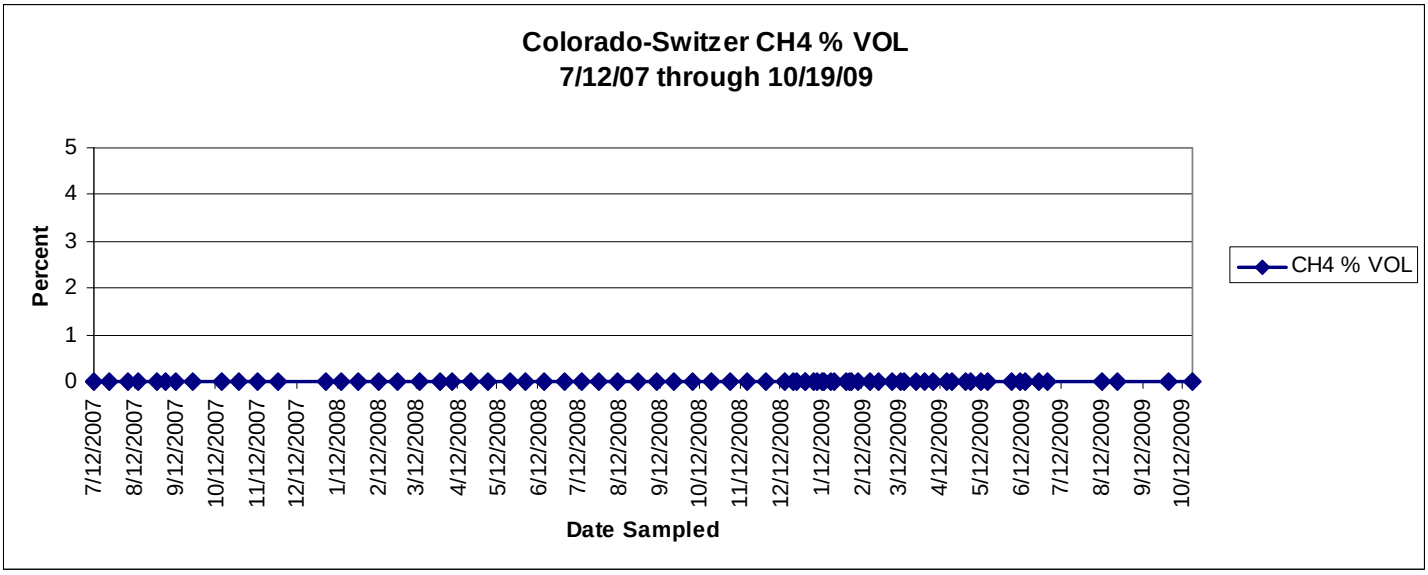

Derowitsch Well Vent % LEL
River Ridge Ranch Lot 60
8/28/07 through 10/19/09
Percent
100
80
60
40
20
0
8/28/2007
9/28/2007
10/28/2007
11/28/2007
12/28/2007
1/28/2008
2/28/2008
3/28/2008
4/28/2008
5/28/2008
6/28/2008
7/28/2008
8/28/2008
9/28/2008
10/28/2008
11/28/2008
12/28/2008
1/28/2009
2/28/2009
3/28/2009
4/28/2009
5/28/2009
6/28/2009
7/28/2009
8/28/2009
9/28/2009
Date Sampled
% LEL

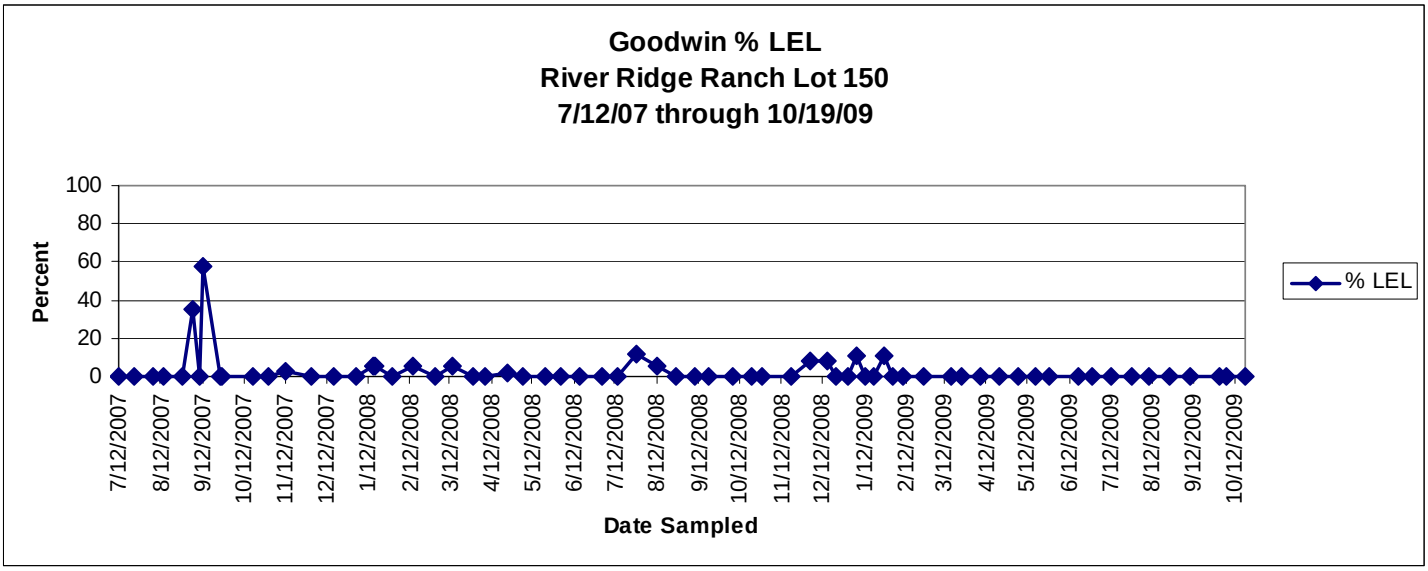

Derowitsch Well Vent CH4 % VOL
River Ridge Ranch Lot 60
8/28/07 through 10/19/09
Percent
100
80
60
40
20
0
8/28/2007
9/28/2007
10/28/2007
11/28/2007
12/28/2007
1/28/2008
2/28/2008
3/28/2008
4/28/2008
5/28/2008
6/28/2008
7/28/2008
8/28/2008
9/28/2008
10/28/2008
11/28/2008
12/28/2008
1/28/2009
2/28/2009
3/28/2009
4/28/2009
5/28/2009
6/28/2009
7/28/2009
8/28/2009
9/28/2009
Date Sampled
CH4 % VOL

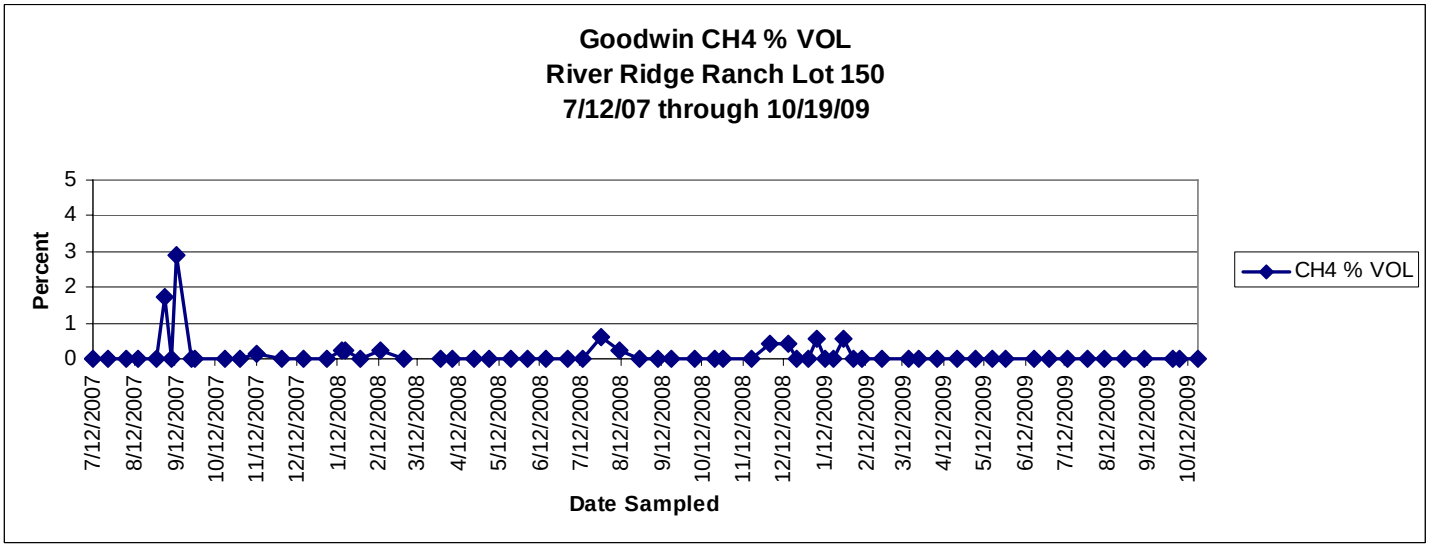

Barrett % LEL
River Ridge Ranch Lot 57
7/12/07 through 10/19/09
Percent
100
80
60
40
20
0
8/7/2007
9/7/2007
10/7/2007
11/7/2007
12/7/2007
1/7/2008
2/7/2008
3/7/2008
4/7/2008
5/7/2008
6/7/2008
7/7/2008
8/7/2008
9/7/2008
10/7/2008
11/7/2008
12/7/2008
1/7/2009
2/7/2009
3/7/2009
4/7/2009
5/7/2009
6/7/2009
7/7/2009
8/7/2009
9/7/2009
10/7/2009
Date Sampled
% LEL

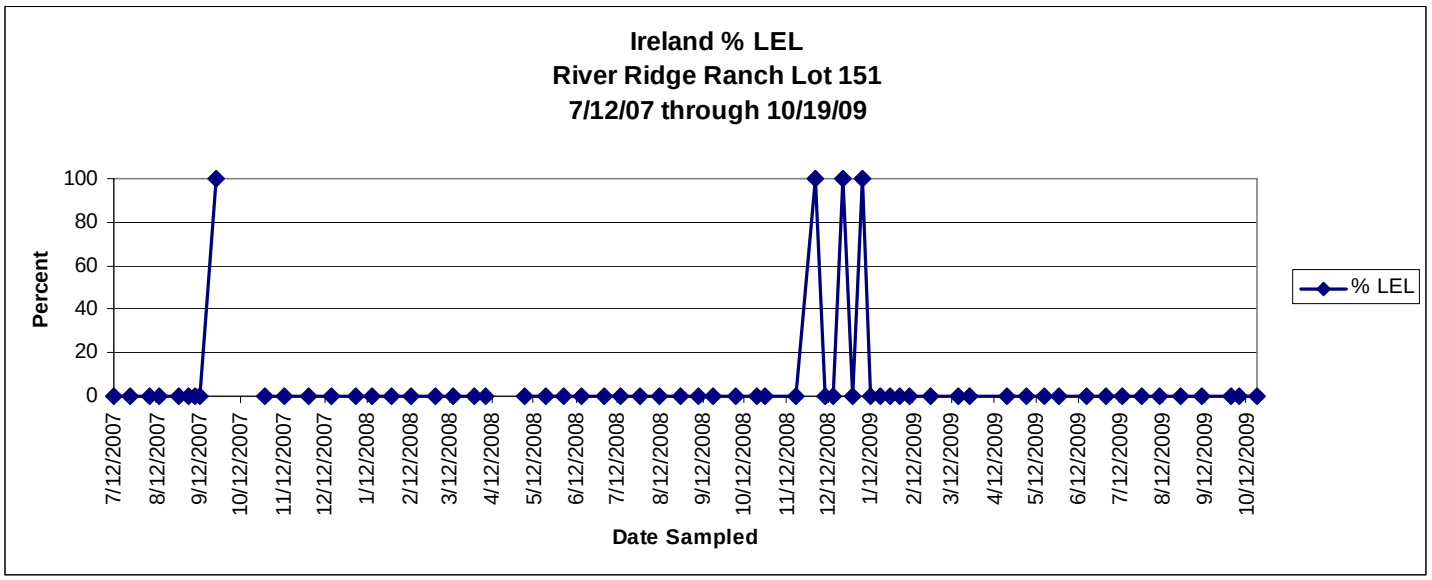

Barrett CH4 % VOL
River Ridge Ranch Lot 57
7/12/07 through 10/19/09
Percent
100
80
60
40
20
0
8/7/2007
10/7/2007
12/7/2007
2/7/2008
4/7/2008
6/7/2008
8/7/2008
10/7/2008
12/7/2008
2/7/2009
4/7/2009
6/7/2009
8/7/2009
10/7/2009
Date Sampled
CH4 % VOL

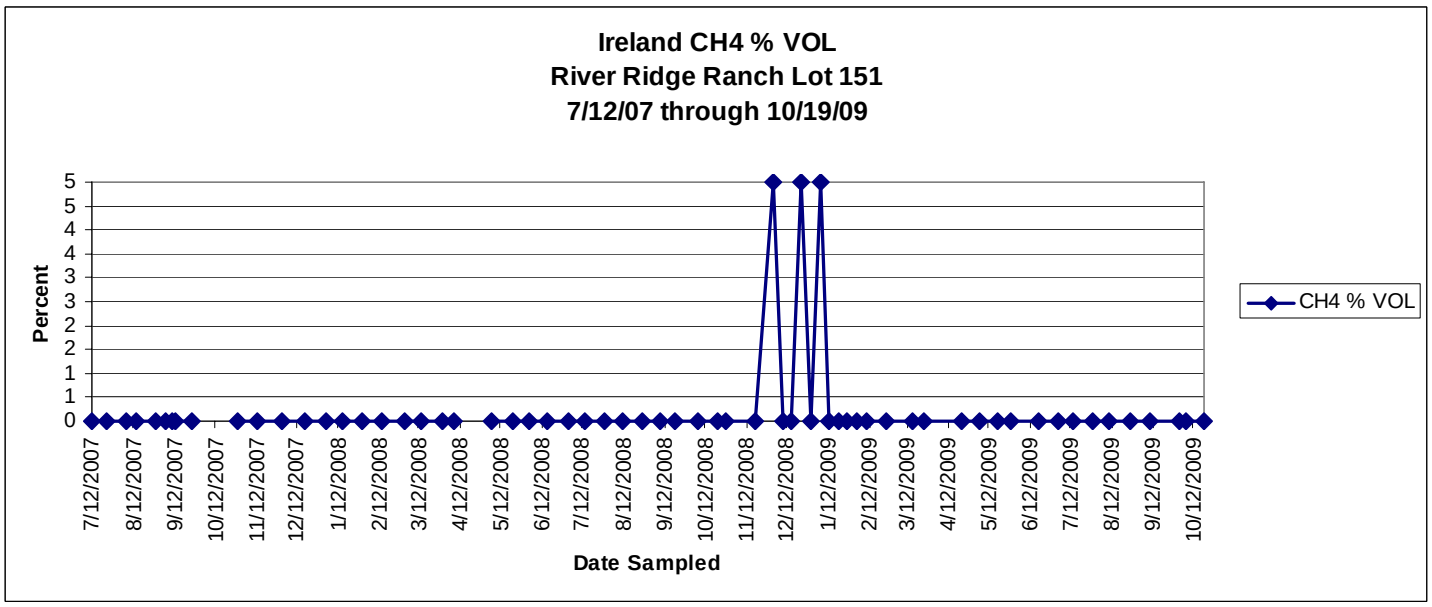

Colorado-Switzer % LEL
7/12/07 through 10/19/09
Percent
100
80
60
40
20
0
7/12/2007
9/12/2007
11/12/2007
1/12/2008
3/12/2008
5/12/2008
7/12/2008
9/12/2008
11/12/2008
1/12/2009
3/12/2009
5/12/2009
7/12/2009
9/12/2009
Date Sampled
% LEL

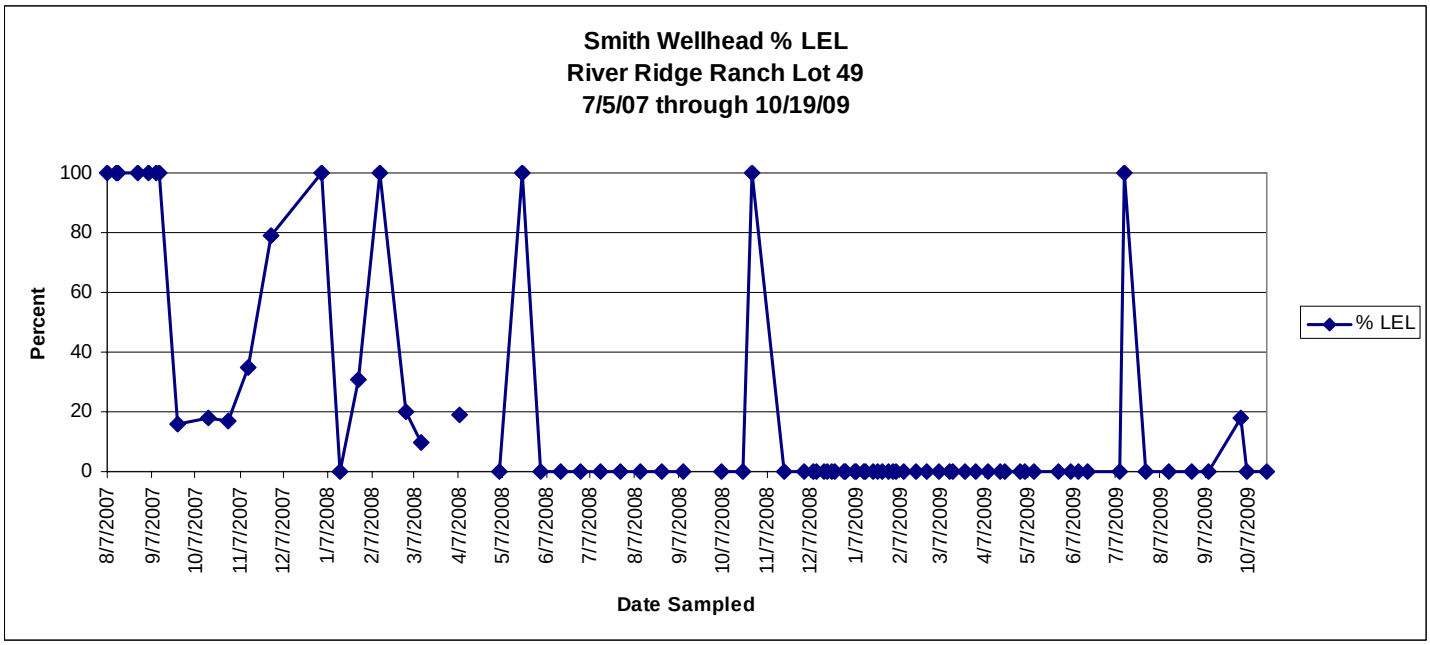

Colorado-Switzer CH4 % VOL
7/12/07 through 10/19/09
Percent
5
4
3
2
1
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
6/12/2009
7/12/2009
8/12/2009
9/12/2009
10/12/2009
Date Sampled
CH4 % VOL

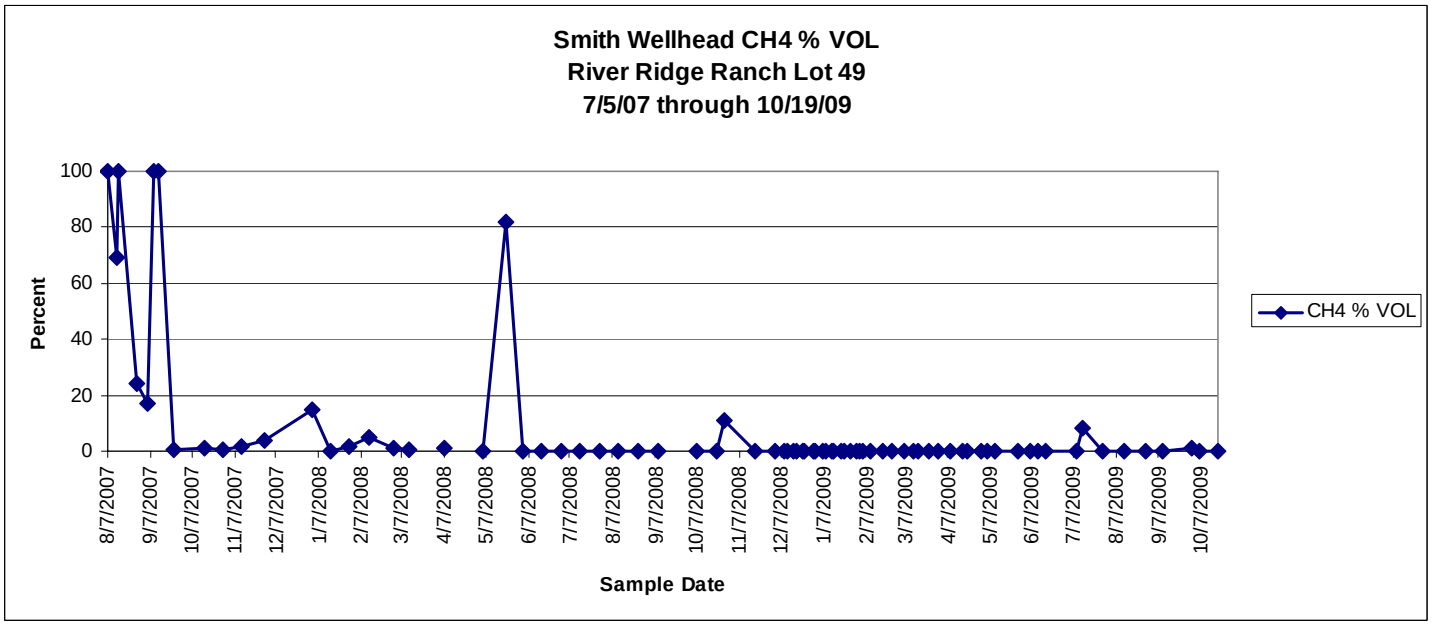

Goodwin % LEL
River Ridge Ranch Lot 150
7/12/07 through 10/19/09
Percent
100
80
60
40
20
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
6/12/2009
7/12/2009
8/12/2009
9/12/2009
10/12/2009
Date Sampled
% LEL

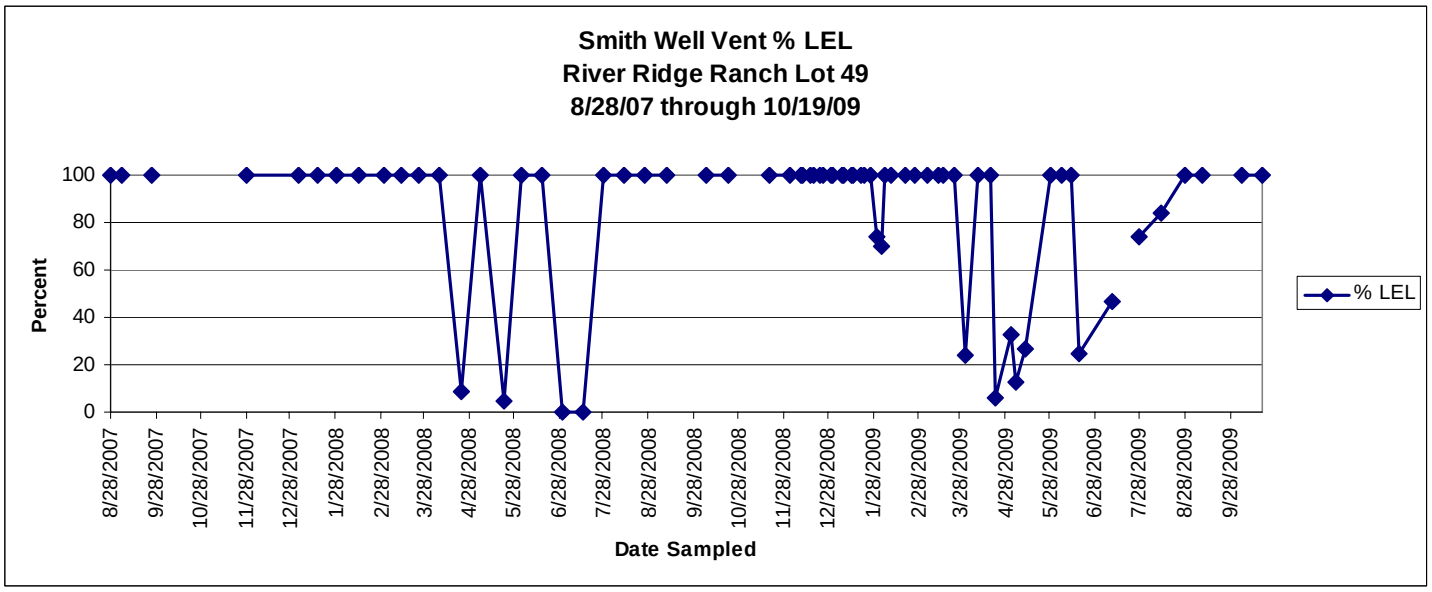

Goodwin CH4 % VOL
River Ridge Ranch Lot 150
7/12/07 through 10/19/09
Percent
5
4
3
2
1
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
6/12/2009
7/12/2009
8/12/2009
9/12/2009
10/12/2009
Date Sampled
CH4 % VOL

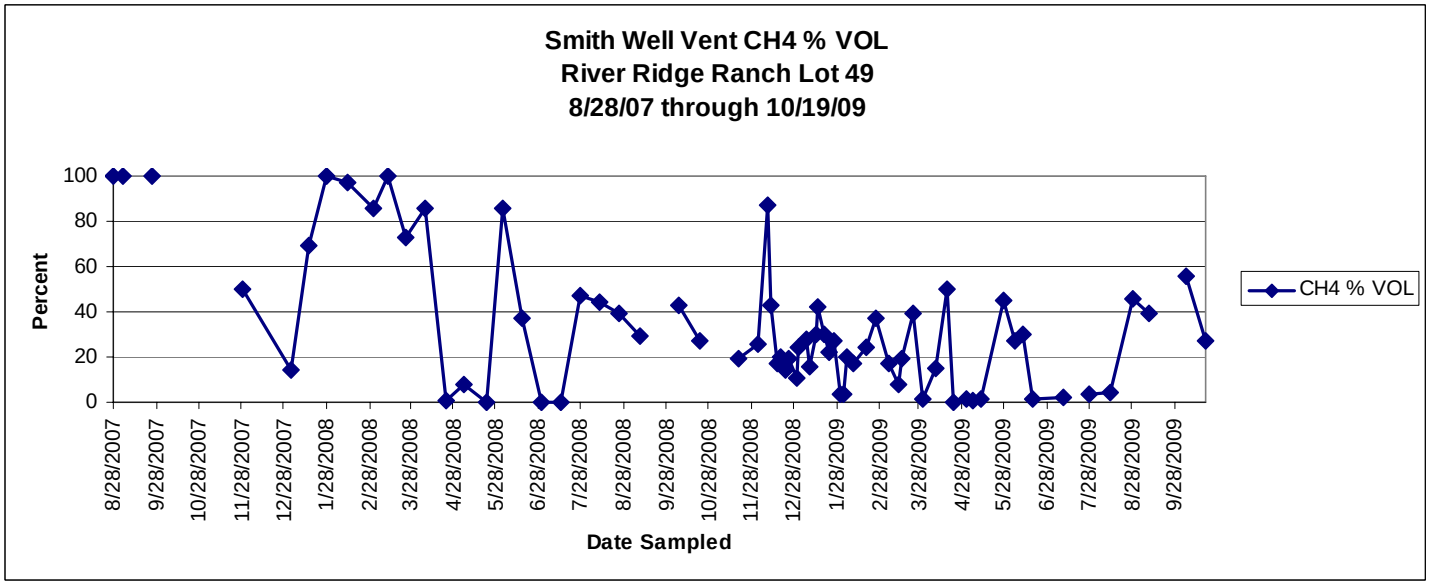

Ireland % LEL
River Ridge Ranch Lot 151
7/12/07 through 10/19/09
Percent
100
80
60
40
20
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
6/12/2009
7/12/2009
8/12/2009
9/12/2009
10/12/2009
Date Sampled
% LEL

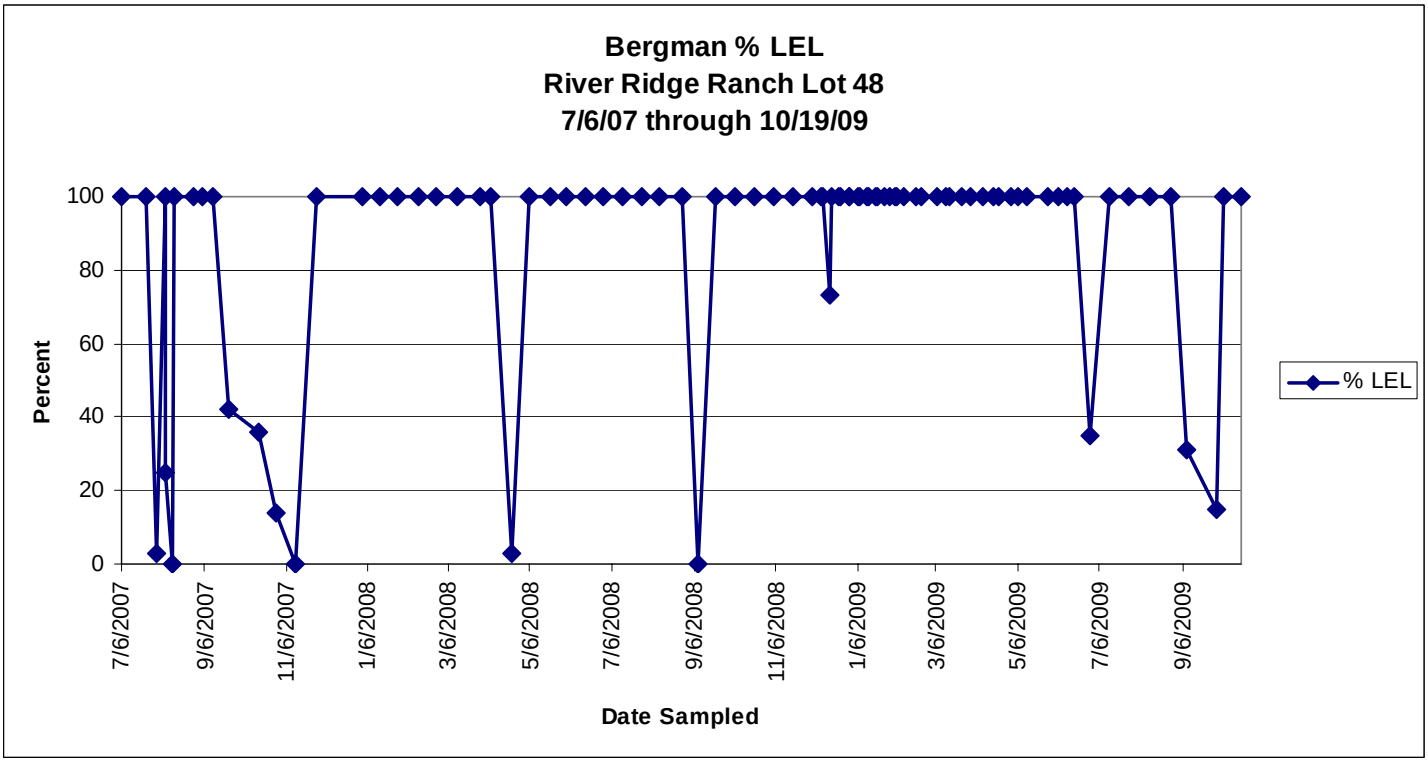

Ireland CH4 % VOL
River Ridge Ranch Lot 151
7/12/07 through 10/19/09
Percent
5
5
4
4
3
3
2
2
1
1
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
6/12/2009
7/12/2009
8/12/2009
9/12/2009
10/12/2009
Date Sampled
CH4 % VOL

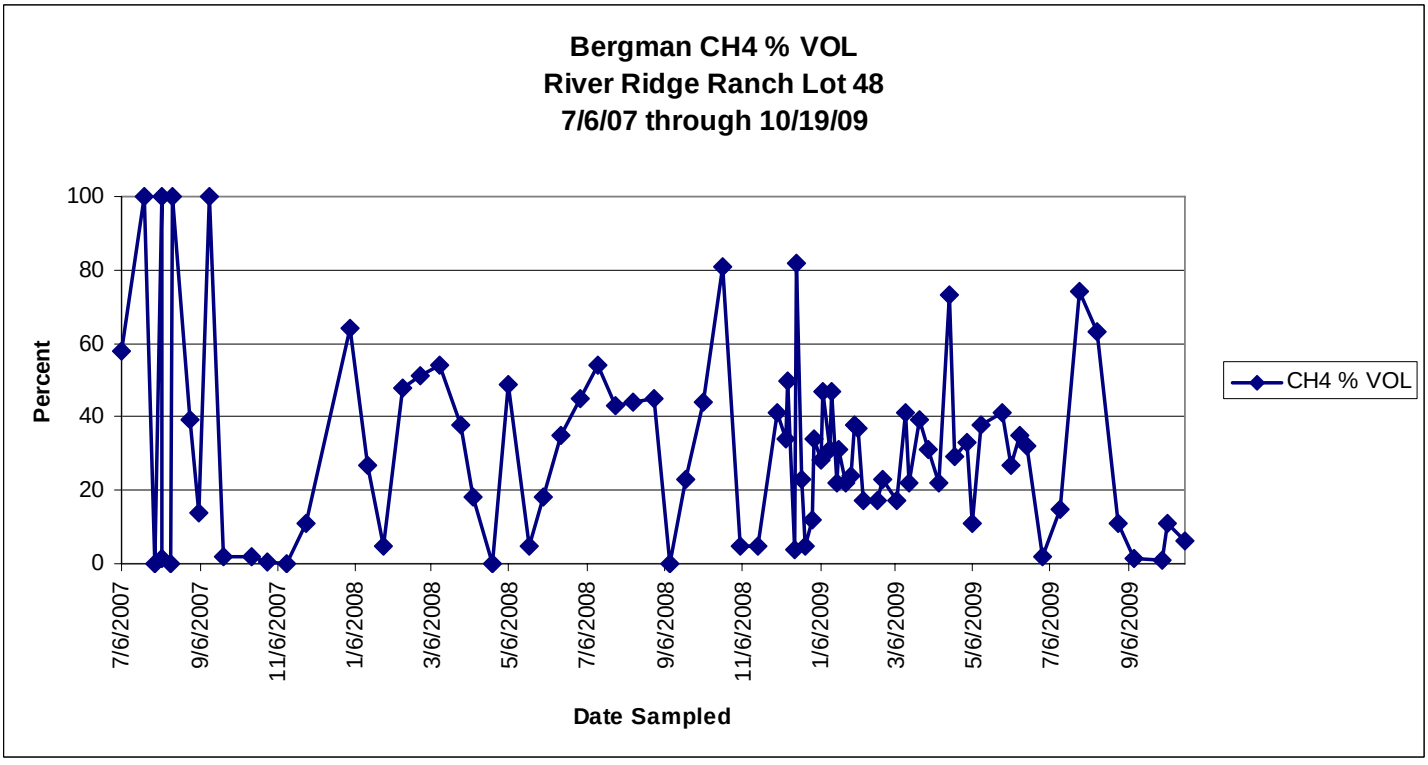

Smith Wellhead % LEL
River Ridge Ranch Lot 49
7/5/07 through 10/19/09
Percent
Date Sampled
% LEL
0
20
40
60
80
100
8/7/2007
9/7/2007
10/7/2007
11/7/2007
12/7/2007
1/7/2008
2/7/2008
3/7/2008
4/7/2008
5/7/2008
6/7/2008
7/7/2008
8/7/2008
9/7/2008
10/7/2008
11/7/2008
12/7/2008
1/7/2009
2/7/2009
3/7/2009
4/7/2009
5/7/2009
6/7/2009
7/7/2009
8/7/2009
9/7/2009
10/7/2009

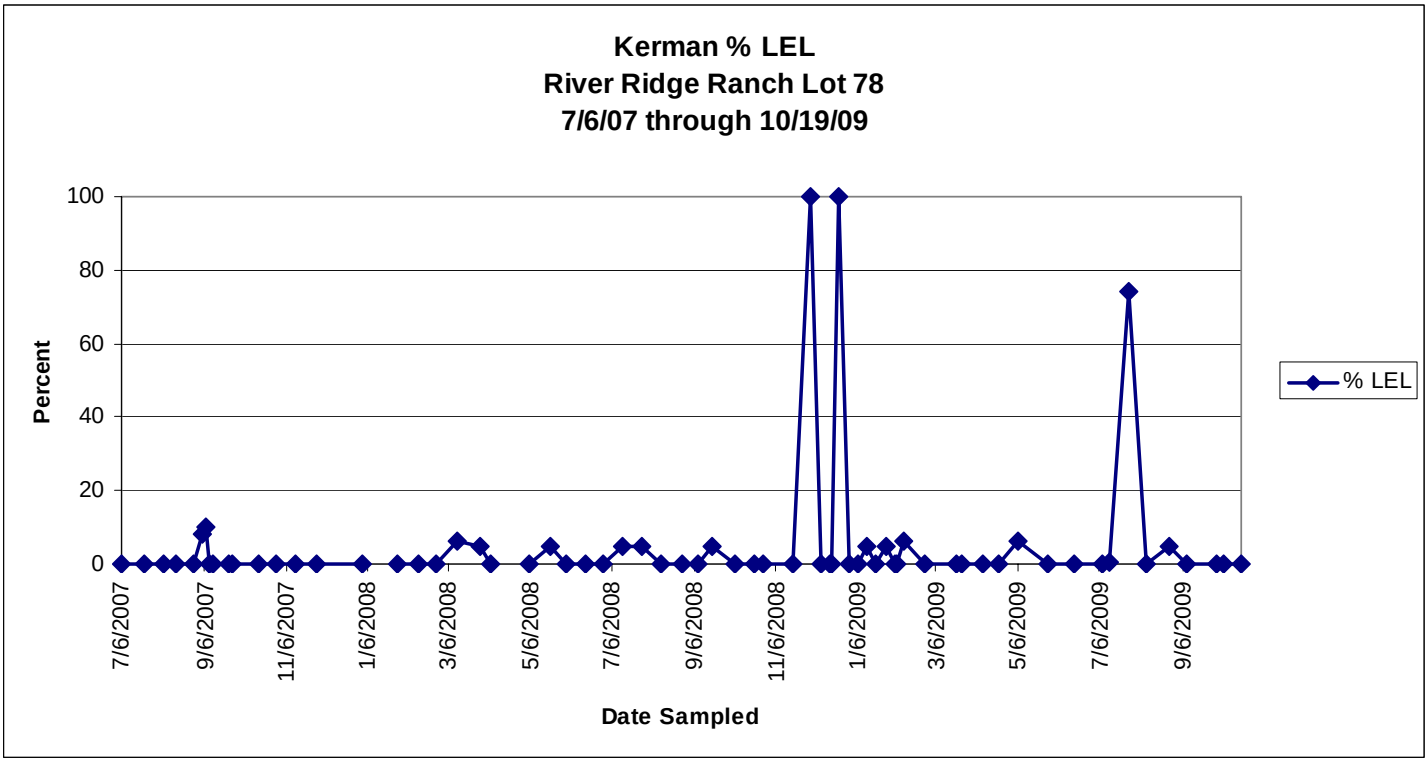

Smith Wellhead CH4 % VOL
River Ridge Ranch Lot 49
7/5/07 through 10/19/09
Percent
Sample Date
CH4 % VOL
0
20
40
60
80
100
8/7/2007
9/7/2007
10/7/2007
11/7/2007
12/7/2007
1/7/2008
2/7/2008
3/7/2008
4/7/2008
5/7/2008
6/7/2008
7/7/2008
8/7/2008
9/7/2008
10/7/2008
11/7/2008
12/7/2008
1/7/2009
2/7/2009
3/7/2009
4/7/2009
5/7/2009
6/7/2009
7/7/2009
8/7/2009
9/7/2009
10/7/2009

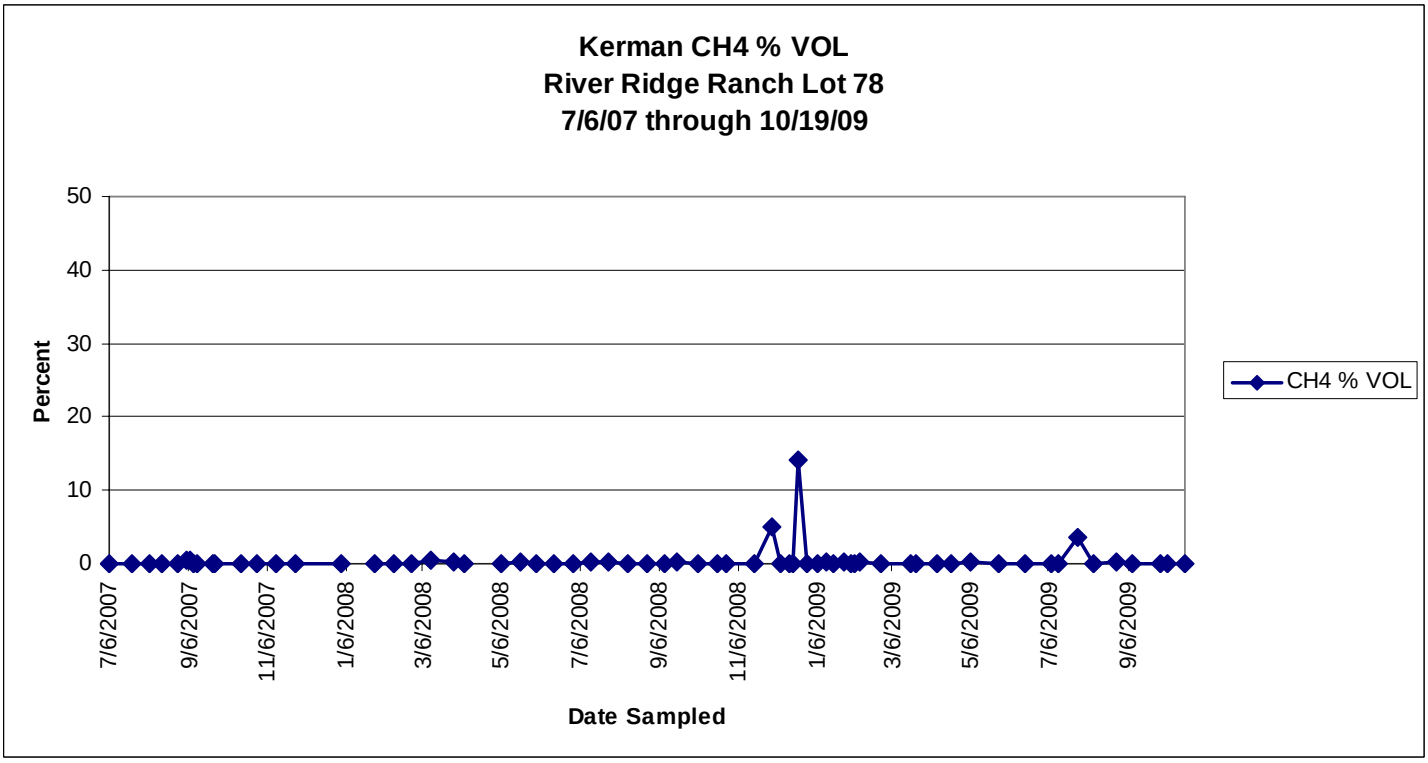

Smith Well Vent % LEL
River Ridge Ranch Lot 49
8/28/07 through 10/19/09
Percent
Date Sampled
% LEL

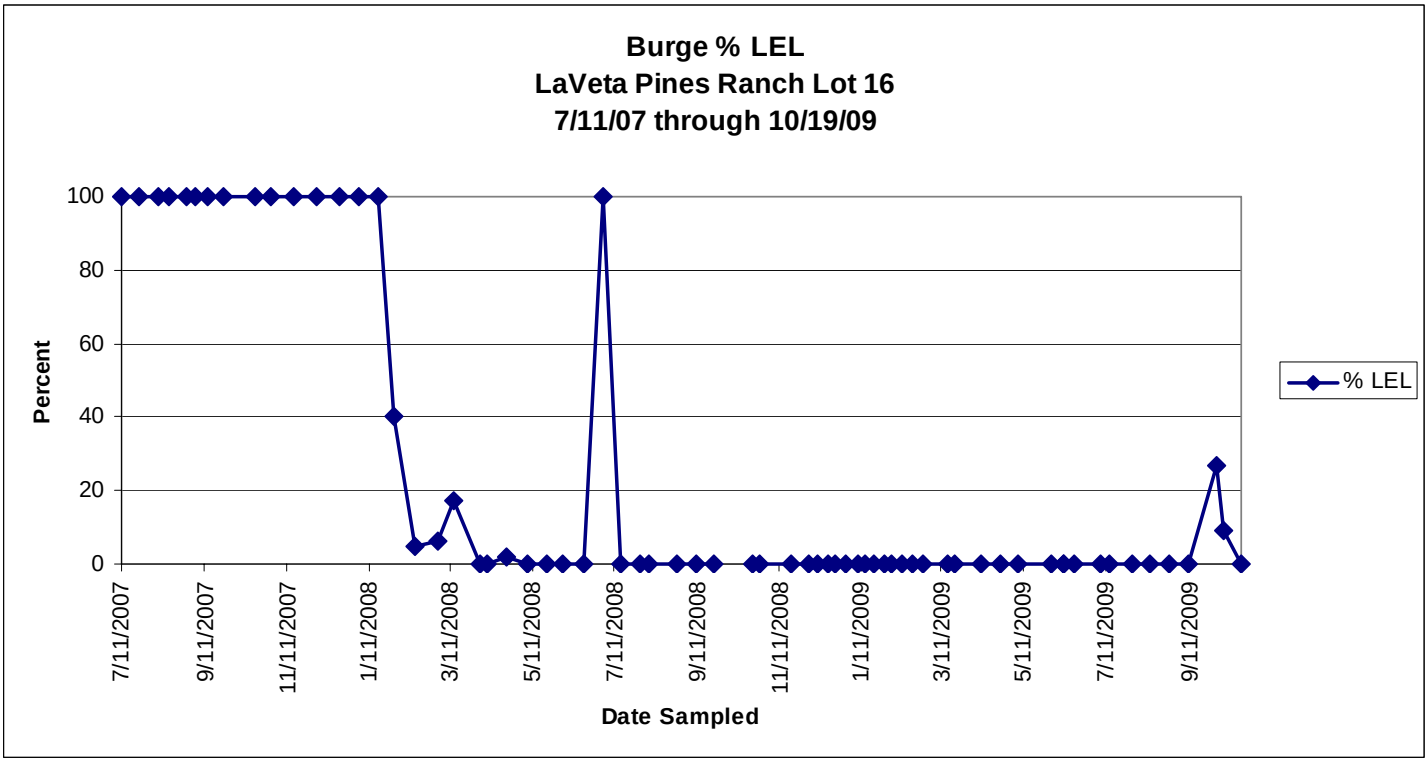

Smith Well Vent CH4 % VOL
River Ridge Ranch Lot 49
8/28/07 through 10/19/09
Percent
Date Sampled
CH4 % VOL

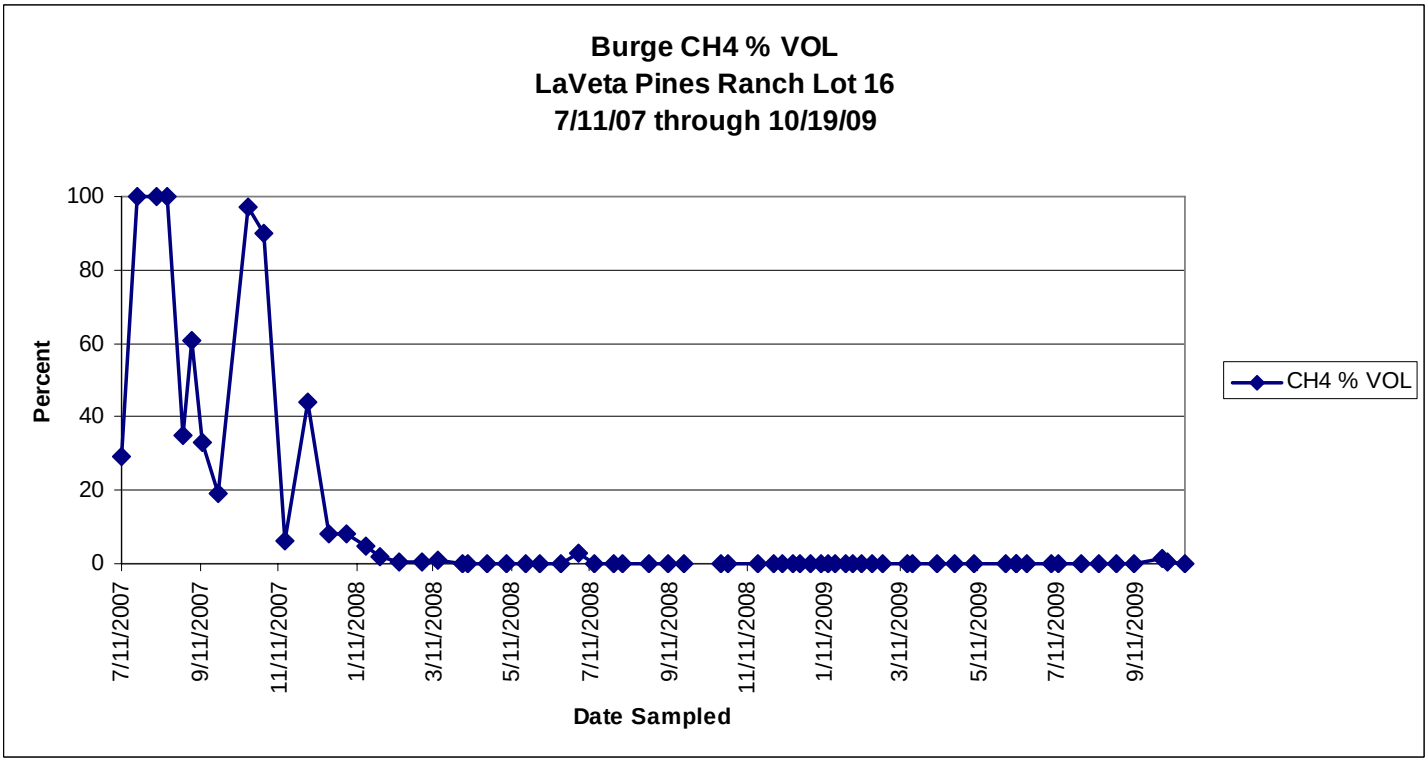

Bergman % LEL
River Ridge Ranch Lot 48
7/6/07 through 10/19/09
Percent
100
80
60
40
20
0
7/6/2007
9/6/2007
11/6/2007
1/6/2008
3/6/2008
5/6/2008
7/6/2008
9/6/2008
11/6/2008
1/6/2009
3/6/2009
5/6/2009
7/6/2009
9/6/2009
Date Sampled
% LEL


Bergman CH4 % VOL
River Ridge Ranch Lot 48
7/6/07 through 10/19/09
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
Date Sampled
CH4 % VOL


Kerman % LEL
River Ridge Ranch Lot 78
7/6/07 through 10/19/09
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
Date Sampled
% LEL


Kerman CH4 % VOL
River Ridge Ranch Lot 78
7/6/07 through 10/19/09
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
Date Sampled
CH4 % VOL


Burge % LEL
LaVeta Pines Ranch Lot 16
7/11/07 through 10/19/09
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
Date Sampled
% LEL


Burge CH4 % VOL
LaVeta Pines Ranch Lot 16
7/11/07 through 10/19/09
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
Date Sampled
CH4 % VOL