Petroglyph Operating Company
May 2009
Monthly Report

Covering the period of 5/13/09 through 6/14/09

Prepared for
Colorado Oil and Gas Conservation Commission

June 22, 2009

Prepared by

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

(Intentionally Left Blank)

Table of Contents

List of Figures

List of Tables

List of Attachments

(Intentionally Left Blank)

Petroglyph Operating Company, Inc.
Monthly Report – May 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 (May 12) through June 14, 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 1 Remediation System

The Phase 1 remediation system associated with the Methane Investigation, Monitoring and Mitigation Program (MIMMP) has been operational for approximately six months beginning on December 8th. 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 6.36 MCFD on June 10, 2009. Readings showed a fairly slow and steady decline during the reporting period with larger drops and subsequent recoveries to previous levels on May 5th and May 13th. Recovery 3 was 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 to 0.39 MCFD on June 10, 2009. Recovery 4 has shown the most variability ranging between 0.9 MCFD and 0 until mid April when the readings are consistently under 0.001 MCFD. Readings at Recovery 4 on June 10, 2009 were 0.0001 MCFD. The average pumping rate for Recovery 1 has been 19.1 gpm while 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 is currently not being pumped.

Gas flow in POCI 55 monitoring well and the Recovery wells is shown graphically in Attachment 1.

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 1.00 to 6.70 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 4.75 million gallons of water that have been recovered have been re-injected following methane off gassing. Meter readings between recovery and injection flow rates show less than a 1% difference. Based on testing and observation there are no system losses and the difference is most likely a result of limitations in calibration of the instrument readings.

Attachment 2 includes graphs of pressure and fluid level data from POCI 55, Barrett water well, Bergman water well and Coleman water well which are within one mile of the remediation system. Attachment 2 also includes graphs for 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 and Garza-Vela located in the

Silver Spurs Ranch Subdivision. POCI 55 remained fairly steady at around 58 to 58.1 psi of pressure throughout the reporting period. The Barrett well water level has shown an overall gradual decline. The pressure and associated water levels in the Coleman well showed a gradual increase which leveled off toward the end of the reporting period. The Bruington well continues with the sharp upward trend in pressure and corresponding increase in water levels than began April 7, 2009. The rise was confirmed by Petroglyph with a water level tape on April 29, 2009. The reason for the rise is not known, but pressures have increases from 1.47 psi to 5.94 psi with water levels increasing from 6018 to 6029 feet in elevation. Bergman pressures continue to show a gradual drop and Evenden have remained relatively constant through the reporting period. Meyer remained relatively constant at the start of the period and showed an overall increase toward the end of the period while Garza-Vela has shown an overall slight decline.

Attachment 3 includes gas flow measurements from Bruington, Coleman, Angely, Bounds and Smith. All wells except the Bruington and Bounds wells are located within one mile of the remediation system. The Bounds and Angely wells are monitored by the COGCC or their representative and no results were provided for the reporting period. Graphs for these wells in Attachment 3 represent the previous reporting period. Measurements for the Coleman well since the last reported measurements included three pumping periods with a maximum flow rate ranging from 42 to 51 NCFD and durations of gas flow ranging from 15 to 35 minutes. The Bruington and Smith wells are not showing any gas. None of the wells appear to be showing any response that can be directly attributable to the remediation system pumping.

Attachment 5 includes charts of twice-weekly 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.

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 is currently expected to be issued for public comment during the next reporting period. Due to delays in release of the draft permit, the public meeting scheduled for June 29th had to be moved. A public meeting on the draft permit will be held in Walsenburg in late July, a minimum of 30 days after the public notice is published. A final date will be selected by EPA once the publication occurs. 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

Petroglyph collected 2 gas samples for gas isotope analysis during the reporting period; one from Bruington and one from Paul Eddleman. In addition, Petroglyph collected 11 water samples for analysis. Of the 11 samples, 5 were collected for both drinking water quality analysis and dissolved methane analysis (Burge, Coleman, McPherson, Wolahan, and Hayes) and 6 were collected for dissolved methane analysis only (Sample, Gumpert, Garza, Evenden, Stetler, and Hurley). Results received for samples since the last reporting period are included on the data disk and include water and gas analysis for Coleman. Other results have not yet been received. 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

In an ongoing effort to understand the source of the methane which has migrated and the zones in which migration is occurring (as well as the potential role of dikes in the methane movement), Petroglyph drilled an exploratory hole on BLM land in the vicinity of the Bounds property. The hole was started on May 18th and completed on May 20th to a depth of 1,180 feet. Petroglyph estimated that the depth at this location to the stratigraphic equivalent of the Bounds well was 375 feet and the stratigraphic equivalent of the gassy portions of the Poison Canyon Formation sandstones in the River Ridge Ranch subdivision was 1070 feet.

The drilling detected possible slight gas at 420 feet and consistent gas at 540 feet for the remainder of the hole. No water was encountered for the entire depth of the hole. The hole has not been completed as a well. The BLM permit allows for this hole to remain open until May 2010 and then requires it to be plugged and abandoned.

Gas detections as recorded during the drilling and subsequent monitoring were as follows:

- 5/20/09 - No gas detected at top of bore with the hand held meter after drill pipe was placed in the hole.
- 5/21/09 – Hole was covered all night and measured 65% LEL upon opening. Installed vapor tight cover on conductor casing. Peter Gintautas with the COGCC grabbed a gas sample and measured gas concentrations at 13 to 20 % volume.
- 5/29/09 – Hole was shut in at 10:05 AM, pressure measured at 3:35 PM was 9 inches of water.
- 6/1/09 – Gas sample collected for isotope analyses. Gas flow not measurable, but hand held meter indicated 73% vol methane.

Logging for the BLM hole is included in the attached data disk.

An exploratory hole was also drilled on the former Haupt property in the City Ranch subdivision. The Haupt #1 hole was drilled to monitor water and gas near the coal outcrop. No gas or water was found during drilling. The hole was drilled to a total depth

of 276 feet through the Trinidad Sandstone and into the Pierre Shale. The hole has not been completed as a well. Petroglyph will leave the hole open for several months to monitor gas and will then plug and abandon the hole.

Gas detections as recorded during the drilling and subsequent monitoring were as follows:

- 5/29/09 – Measurement with hand held meter after well bore had remained open overnight was 1% LEL. A vapor tight cap was installed.
- 6/1/09 – Measurement after the hole was shut in for 2 days was 6% vol. methane, 4.5 % volume O2 and 5 ppm CO. A gas sample was collected for isotope analyses.

Logging for the Haupt #1 hole is included in the attached data disk.

4.0 Monitoring

Down-hole Pressure and Fluid Level Monitoring

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 Evendon and Garza-Vela located in the Silver Spurs Ranch Subdivision. Information from these wells is downloaded monthly by Petroglyph, graphed, and included in electronic data disk with this monthly report. The POCI 55 Monitoring Well located near the remediation system also has a pressure gage. Attachment 2 shows graphically the changes in pressure for each of these wells. These changes for each well during the reporting period are discussed above in Section 1.0.

Gas Flow Monitoring

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 is presented in this report. The data from this monitoring is provided in graph form in Attachment 3. The results in gas flow measurements for this reporting period are discussed above under Section 1.0.

Figure 1 shows the monitored gas flows in each well and the timing for drilling and testing of Petroglyph remediation system wells as well as start up of the remediation system. As shown on this figure, the 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.

Fluid Levels in 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 09-10, State 36-02, State 36-05, State 36-11. There is no data provided for the Rohr 09-05 well because the power in the well is off and waiting some repair work. The downhole pressure sensor in Rohr 04-14 appears to have failed and no data is available after May 21, 2009. 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 4.

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.

Bi-Weekly and Monthly Water Well Monitoring

Petroglyph currently monitors for methane gas levels near approximately 88 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. Two new wells, BLM 15-12 and Haupt #1, 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.

Of the 88 wells, 17 were not sampled during this reporting period and the two new wells both showed detectable methane but did not have any previous results for comparison. Sampling may vary during any one reporting period due to a variety of reasons. During this reporting period 29 wells were sampled once, 21 wells were sampled twice, 8 wells were sampled three times, 6 wells were sampled four times, and 5 wells were sampled five times.

As shown on Table 3, the comparison of monitoring results for the 69 wells previously sampled showed that overall gas levels at 49 wells had no change from the previous monitoring period measurements. Of those 49 wells with no changes, 46 wells had no detectable methane. Changes in % LEL, % by volume CH4, and % volume O_2 were evaluated to determine if the wells where showing an indication of increasing or decreasing methane gas content. Of the remaining 20 wells, 6 showed increases in methane, with 3 of those only slight increases and 6 showed decreases with 5 of those well showing a slight decrease. The remaining 8 wells showed highly variable results during the period with wide ranges from 0% LEL and no detectable methane to >100% LEL and higher levels of methane. Of the variable wells, 6 ended the period with no detectable methane.

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

Within 1 Mile of Remediation System

- Gas near 26 wells monitored
- 4 wells were not sampled and 1 well is a new well
- 14 wells showed no change and no detectable methane gas with 3 wells well showing no change and detectable methane levels
- 2 wells showed increased methane with 1 of those only a slight increase
- 1 well showed slightly decreased methane levels
- 1 well showed highly variable results, ending the period with no detectable methane

River Ridge Ranch Subdivision and Vicinity Outside of One Mile

- Gas near 23 wells monitored
- 7 wells not sampled during this reporting period
- 15 wells showed no change and no detectable methane gas
- 1 well showed slightly decreased methane levels

City Ranch and Other Properties

- Gas near 13 well monitored
- 3 wells not sampled during this reporting period and 1 well is a new well
- 10 wells showed no change and no detectable methane gas
- 1 well showed a slight increase in methane gas
- 1 wells showed slightly decreased levels of methane gas

Silver Spurs Ranch

- Gas near 24 wells monitored
- 3 wells were not sampled during the reporting period
- 9 wells showed no change and no detectable methane
- 2 wells showed increased methane
- 3 wells showed decreased levels of methane gas with 2 wells showing only a slight decrease
- 7 wells were highly variable with 5 wells ending the period with no detectable methane, 1 well ending the period with detectable methane and one well which should no detectable methane prior to collection of a water sample and higher levels following collection of the water sample

Black Hawk Ranch

- Gas near 1 well monitored with no change and no detectable 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. The schedule also includes those wells which will be monitored semi-weekly or weekly at the start up of the injection system for any changes as a result of system start up. A reduction in the monitoring was approved by the COGCC on February 10, 2009. That change called for a reduction in twice weekly sampling to once a week for the next month and if no changes were observed the sampling would drop to bi-weekly. Petroglyph chose to continue monitoring weekly through this reporting period, but will reduce the monitoring to bi-weekly during the next reporting period. Table 4 reflects the current monitoring schedule.

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. During the reporting period hand held surveys were conducted at 31 locations. The most recent results of the hand held surveys are summarized in Table 5 with the results from all hand held surveys contained on the data disk under the file "RMLD Homes and Seeps."

5.0 Mitigation

Methane Alarms

There are currently a total of 14 homes with alarm systems provided by Petroglyph and that number has not changed from previous reports. 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

Craig Saldin attended River Ridge Board of Manager's Meetings on May 30 and June 13, 2009.

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.
- Publication of the draft Phase II UIC permit by EPA is expected to occur in late June.
- A public meeting on the Phase II UIC permit will be held in late July approximately 30 days after the publication notice.
- 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.

Figure 1
Measured Gas Flow in Domestic Wells
Compared to Petroglyph Drilling Activities

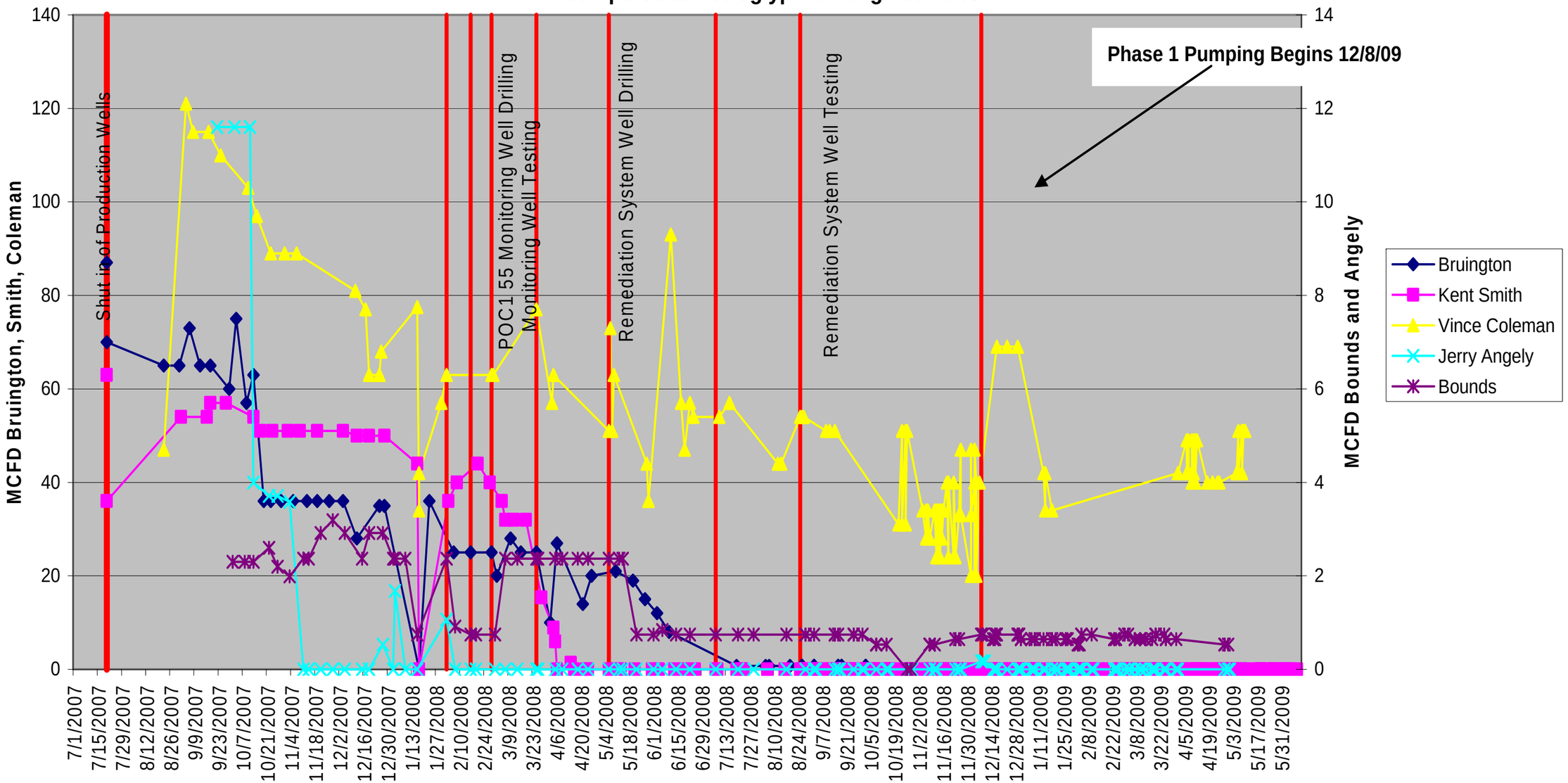


Table 1: Recovery and Injection Rates associated with Phase 1 MIMMP (as of 6/1/0/.09)

Well Number	TD	PBTD	Injection Tubing Depth	Start-up Date	Average Injection Rate (gpm)	Water Totals as of 6/10/09 (gal)	Notes
Injection 01 Pascual	600	526	458	12/9/2008	1.2	263,000	
Injection 02 Gonzales	600	575	362	12/10/2008	1.00	245,000	
Injection 03 Benevides	725	629	454	12/10/2008	1.00	252,000	
Injection 04 Rohr	675	667	455	12/9/2008	5.30	1,273,000	
Injection 05 Rohr	750	735	458	12/10/2008	6.70	1,477,000	
Injection 06 Masters	725	695	438	12/10/2008	4.60	1,022,000	
Injection 07 Walden	750	713	457	12/10/2008	1.00	204,000	
Injection 08 Haeffner	650	713	365	12/10/2008	see note	2,095	Well does not accept water very well. Inject approx. 100 gallons once a week.
			Pump Depth		**Average Pump Rate (gpm)**		
Recovery 1 Kittleson	715	705	686	12/8/2008	19.10	4,519,000	
Recovery 3 PEI	625	591	575	12/8/2008	1 (see note)	226,000	Intermittent pumping at 4 gpm. Rate over 24 hrs is approx 1 gpm
Recovery 4 Barrett	500	484	463	2/10/2009	(see note)	3,580	Started pump 2/10/09 to develop well. Pumps about 100 gallons in 15 minutes, per day .Water disposed off site and not injected due to quality concerns.

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 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 2 Reiss	4/4/08	Ethane	ND	Water while drilling
	Recovery 2 Reiss	4/4/08	Methane	ND	Water while drilling
	Recovery 3 PEI	8/25/08	Ethane	13	Grabbed during pump testing
	Recovery 3 PEI	8/25/08	Methane	9,600	Grabbed during pump testing
	Recovery 3 PEI	1/16/09	Ethane	15	IP 12/8/08
	Recovery 3 PEI	1/16/09	Methane	13,000	IP 12/8/08
	Recovery 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
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
	Burge, K	8/5/08	Methane	3,900	
	Burge, K	12/18/08	Ethane	2.3	
	Burge, K	12/18/08	Methane	3,600	
	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

Table 2: Sampling of Dissolved Gases in Water Wells					
	Well	**Sample Date**	**Analyte**	**Results (In ug/l)**	**Comments**
	Coleman, V	12/4/08	Methane	5,900	raw- not filtered
	Coleman, V	5/9/09	Ethene	2.4	raw- not filtered
	Coleman, V	5/9/09	Ethane	9	raw- not filtered
	Coleman, V	5/9/09	Methane	6,100	raw- not filtered
	Conley, J	3/24/08	Methane	ND	
	Conley, J	12/4/08	Ethane	U	
	Conley, J	12/4/08	Methane	1.5	
	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	
	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	
	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	
	McPherson	3/29/08	Methane	54	
	McPherson, P	12/4/08	Ethane	U	
	McPherson, P	12/4/08	Methane	950	
	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	
	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	
	Meyer, J	4/29/09	Ethane	ND	

Table 2: Sampling of Dissolved Gases in Water Wells					
	Well	**Sample Date**	**Analyte**	**Results (In ug/l)**	**Comments**
	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	
	Fitzner, P	12/1/08	Methane	4,600	
	Geisklbrecht, G	9/30/08	Methane	ND	
	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	
Other	Rohr 04-14	11/11/07	Methane	10,070	CBM water
	Rohr 09-04	11/11/07	Methane	6,350	CBM water

Table 3 Water Well Measurements for the Period of May 13 to June 14, 2009					
Permit Number	**Name**	**Sampling Start Date**	**Last Sample**	**Samples Since Last Monthly Report**	**If sampled, comparison of results from this period to last period**
Wells Within Approximately One Mile of Pumping and injection System or of Special Interest					
238689	Angely	7/5/07	5/1/09	None	No sample results received during this reporting period. (This well is sampled by COGCC or their contractor.)
257994	Barrett	7/12/07	6/11/09	5/11/09, 5/18/09, 5/28/09, 6/5/09, 6/11/09	• % LEL went from 29 to 0 and up to 44 at the end of the period • CH4% volume went from 1.45 to 0 and up to 2.2 at the end of the period • O2% volume went from 20.5 to 20.8 • CO and H2S remained unchanged at 0 ppm
244403	Bergman	7/6/07	6/11/09	5/12/09, 5/28/09, 6/5/09, 6/11/09	• % LEL remained unchanged at >100 • CH4% volume increased from 11 to 35 with a high reading of 41 • O2% volume decreased from 18 to 11.4 • CO remained unchanged at 0 ppm • H2S remained unchanged at 0 ppm
181278	Bounds	7/12/07	5/1/09	None	No sample results received during this reporting period. (This well is sampled by COGCC or their contractor.)
169043	Burge	3/20/09	6/9/09	6/1/09, 6/9/09 (6/9 sampled twice, before and after water sample collection)	• % LEL remained unchanged at 0 • CH4% volume remained unchanged at 0 • O2% volume increased from 19 to 20.9 • CO and H2S remained unchanged at 0 ppm No change in values before and after water sample collection. The cistern remained unchanged with no detectable methane, O2% at 20.9 and CO and H2S at 0 ppm.
267694	Coleman	7/5/07	6/11/09	5/12/09, 5/18/09, 5/28/09, 6/5/09, 6/11/09	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 decreased from >100 to 0 • CH4% volume decreased from 87 to 0 • O2% volume increased from 0 to 20.9 • CO and H2S remained unchanged at 0 ppm
235516	Colorado Switzer	7/12/07	6/11/09	5/12/09, 5/18/09, 6/5/09, 6/11/09	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	6/5/09	5/18/09, 6/5/09	No change from previous measurements with no detectable methane and O2% volume at 20.9; CO and H2S at 0 ppm.

Table 3 Water Well Measurements for the Period of May 13 to June 14, 2009					
Permit Number	**Name**	**Sampling Start Date**	**Last Sample**	**Samples Since Last Monthly Report**	**If sampled, comparison of results from this period to last period**
260097	Dee	7/5/07	5/28/09	5/28/09	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
252931	Derowitsch	7/6/07	6/11/09	5/12/09, 5/18/09, 5/28/09, 6/5/09, 6/11/09	At the wellhead: no changes 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 there were no changes with no detectable methane, O2% volume at 20.9 and no CO or H2S until the last reading. In the last reading %LEL was 8 and CH4% was 0.4 with no changes in other values. At the cistern there was no change with no detectable methane, O2% at 20.9 and 0 ppm CO. H2S had a high reading of 4 ppm during the period, but was measured at 0 ppm in the last reading.
235515	English	8/16/07	12/1/08	Not sampled during this reporting period	Sampling attempted 5/18/09 and 6/5/09 but gate was locked preventing access.
16861-F	Golden Cycle Land	7/12/07	6/11/09	5/12/09, 5/18/09, 5/28/09, 6/5/09, 6/11/09	• %LEL remained at unchanged at >100 • CH4% volume went from 56 to 86 ending at 55 • O2% volume remained at 0 • CO went from 88 ppm to 52 ending at 177 ppm • H2S went from 4.5 ppm to 10 ending at 6.5 ppm
253317	Gonzalez	7/12/07	6/11/09	6/11/09	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
256504	Hopke	7/5/07	6/11/09	5/12/09, 5/28/09, 6/5/09, 6/11/09	At the wellhead: • % LEL remained unchanged at >100 • CH4% volume varied between 23 and 44 ending at 23 • O2% volume varied between from 9 and 15.5 ending at 13.3 • CO varied between 21 and 0, ending the period at 0 ppm • H2S varied between 0 and 1.5 ending the period 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.

Table 3 Water Well Measurements for the Period of May 13 to June 14, 2009					
Permit Number	**Name**	**Sampling Start Date**	**Last Sample**	**Samples Since Last Monthly Report**	**If sampled, comparison of results from this period to last period**
236272	Houghtling	7/6/07	6/11/09	5/11/09, 5/28/09, 6/5/09, 6/11/09	At the wellhead: • % LEL remained unchanged at >100 • CH4% volume varied between 44 and 88 ending the period at 65 • O2% volume varied between 0 and 9 ending the period at 0 • CO and H2S remained at 0 ppm The cistern is being redone so no measurements were taken.
35292	Kerman/Hanson	7/6/07	5/28/09	5/28/09	At the wellhead: • % LEL decreased from 6 to 0 • CH4% volume decreased from 0.30 to 0 • O2% volume increased from 18.3 to 20.9 • CO remained unchanged at 0 ppm • H2S decreased from 0.5 to 0 ppm The cistern values remained unchanged with no detectable methane, O2% at 20.9 and no CO or H2S.
	Lively 10-02	12/22/2008	6/11/09	5/11/09, 5/18/09, 5/28/09, 6/5/09, 6/11/09	• % LEL varied between 44 and 0 ending the period at 0 • CH4% volume varied between 0 and 2.2 ending the period at 0 • O2% volume varied between 20.9 and 0 ending the period at 0 • CO varied between 0 and 120 ppm, ending at 120 ppm • H2S varied between 5 and 0 ppm, ending at 0 ppm
222539	Lively	7/6/07	6/11/09	6/11/09	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	6/11/09	5/12/09, 6/5/09, 6/11/09	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
257113	Masters #2	7/6/07	6/11/09	5/12/09, 6/5/09	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
271136	May	7/12/07	5/18/09	5/18/09	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	6/3/09	5/18/09, 6/3/09 (6/3 sampled twice, before and after water sample collection)	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 May 13 to June 14, 2009					
Permit Number	**Name**	**Sampling Start Date**	**Last Sample**	**Samples Since Last Monthly Report**	**If sampled, comparison of results from this period to last period**
84106	Rohr	7/06/07	4/7/09	None	Not sampled during the reporting period.
123144	Searle	7/11/07	6/5/09	5/28/09, 6/5/09	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	6/11/09	5/11/09, 5/28/09, 6/5/09, 6/11/09	At the wellhead AND the cistern all values remained unchanged with 0 %LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm. At the well vent: • % LEL increased from 13 to >100 • CH4% volume increased from 0.65 to 30 • O2% volume decreased from 20.9 to 13.4 • CO remained at 0 with a high reading of 20 ppm during the period • H2S decreased from 2.5 to 0 ppm
	BLM 15-12	6/1/09	6/1/09	6/1/09	Initial reading: • % LEL at >100 • CH4% volume at 73 • O2% volume at 4.6 • CO at 0 ppm • H2S at 0 ppm
Wells Within Or in Close Proximity to River Ridge Ranch Subdivision					
249362	Andexler	9/9/07	4/21/09	4/21/09	No change from previous measurements with no detectable methane, O2% at 20.9 and no measurable CO or H2S.
215706	Brice	7/12/07	5/18/09	5/18/09	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
248680	Campbell	8/14/07	5/7/09	None	Not sampled during the reporting period.
270552	Chaves	9/9/07	6/10/09	6/10/09	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	2/2/09	None	Not sampled during this reporting period.
258815	Goodwin	7/12/07	5/28/09	5/18/09, 5/28/09	No change from previous measurements with no detectable methane, O2% at 20.9 (with a reading of 20.7 during the period), no detectable CO or H2S (with an H2S reading of 1 during the period.

Table 3 Water Well Measurements for the Period of May 13 to June 14, 2009					
Permit Number	**Name**	**Sampling Start Date**	**Last Sample**	**Samples Since Last Monthly Report**	**If sampled, comparison of results from this period to last period**
	Haynes	5/5/09	6/4/09	6/4/09 (6/4sampled twice, before and after water sample collection)	No detectable methane with 0%LEL and CH4 % volume, O2% volume at 20.9 and 0 ppm CO and H2S.
249181	Hentschel	9/9/07	6/10/09	6/10/09	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	6/10/09	6/10/09	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	6/10/09	6/10/09	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	5/28/09	5/18/09,5/28/09	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	Sampling attempted 6/5/09, but gate was locked preventing access.
93386	Lowry	7/12/07	2/2/09	None	Not sampled during this reporting period.
250369	Martin	7/12/07	6/11/09	6/11/09	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	6/10/09	6/10/09	• % LEL remained unchanged at >100 • CH4 % volume decreased slightly from 58 to 51 • O2% volume increased from 5.8 to 10.2 • CO and H2S remained at 0
192203	Rankins	7/12/07	4/21/09	None	Not sampled during the reporting period.
276994	Rhodes	9/9/08	6/10/09	6/10/09	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	4/21/09	None	Sampling attempted 6/5/09 but gate was locked preventing access.
254577	Ryerson	9/9/07	6/10/09	6/10/09	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	6/10/09	6/10/09	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	6/5/09	6/5/09	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	5/7/09	None	Not sampled during the reporting period.

Table 3 Water Well Measurements for the Period of May 13 to June 14, 2009					
Permit Number	**Name**	**Sampling Start Date**	**Last Sample**	**Samples Since Last Monthly Report**	**If sampled, comparison of results from this period to last period**
240947	Wolahan	7/12/07	6/4/09	6/4/09	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	5/7/09	None	Not sampled during this reporting period
197472	Williams/Bartlett	8/15/07	3/18/09	None	Not sampled during this reporting period.
210526	Bruington	8/7/07	6/9/09	5/21/09, 6/9/09	At the wellhead: • % LEL remained unchanged at >100 • CH4% volume increased from 59 to 89 • O2% volume remained unchanged at 0 • CO remained unchanged at 0 ppm • H2S increased from 0 to 2.5 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	6/9/09	5/21/09, 6/9/09	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	5/29/09	5/29/09	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	6/10/09	5/21/09, 6/10/09	• % LEL and CH4% volume remained at 0 • O2% volume remained at 20.9 • CO and H2Sremain at 0 ppm
	Dernell	8/15/07	5/29/09	5/29/09	No changes 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 May 13 to June 14, 2009					
Permit Number	**Name**	**Sampling Start Date**	**Last Sample**	**Samples Since Last Monthly Report**	**If sampled, comparison of results from this period to last period**
258651	Gonzalez	5/22/08	6/10/09	6/10/09	At the wellhead: • % LEL decreased slightly from 38 to 30 • CH4% volume decreased slightly from 1.90 to 1.5 • O2% volume increased slightly from 20.7 to 20.9 • 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	6/1/09	6/1/09	Initial reading: • % LEL at >100 • CH4% volume at 6 • O2% volume at 4.5 • CO at 4.5 ppm H2S at 0 ppm
203536	Hurley	8/2/07	6/4/09	6/4/09	At the wellhead: • % LEL remained unchanged at >100 • CH4% volume increased slightly from 31 to 35 • O2% volume decreased slightly from 13.3 to 9.2 • CO remained at 0 ppm • H2S increased from 0 to 1.5 ppm The cistern was not sampled during the reporting period.
205195	Johnson	8/15/07	5/29/09	5/21/09, 5/29/09	There was no change at the wellhead, cistern and 2nd wellhead with no detectable methane,)2% volume at 20.9 and CO and H2S at 0 ppm.
193520X	McEntee	8/2/07	6/10/09	5/21/09, 6/10/09	There was no change at the wellhead with no detectable methane,)2% volume at 20.9 and CO and H2S at 0 ppm.
121013	Schafer	8/15/07	3/23/09	None	Not sampled during this reporting period.
248983	Tobyas	8/3/07	6/9/09	6/9/09	No change from previous measurements with no detectable methane, O2% volume at 20.9 and no CO and H2S.
Silver Spurs Ranch					

Table 3 Water Well Measurements for the Period of May 13 to June 14, 2009					
Permit Number	**Name**	**Sampling Start Date**	**Last Sample**	**Samples Since Last Monthly Report**	**If sampled, comparison of results from this period to last period**
268180	Billstrand	8/12/08	6/2/09	5/21/09, 6/2/09	• % LEL decreased from 5 to 0 • CH4% volume decreased from 0.25 to 0 • O2% volume remained unchanged at 20.9 • CO remained at 0 ppm • H2S decreased from 1.5 to 0 ppm
215807	Brown	12/8/08	5/6/09	None	Attempted 6/2/09, but mud prevented access.
222294	Cramer	8/3/07	5/29/09	5/29/09	At the wellhead: • % LEL decreased from 6 to 0 • CH4% volume decreased from 0.30 to 0 • O2% volume increased from 16.4 to 20.9 • CO decreased from 24 ppm to 0 • 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.
192509	Eddleman, Paul	1/17/08	6/9/09	5/20/09, 6/2/09, 6/9/09	• % LEL went from 0 to >100 to 0 ending at >100 • CH4% volume went from 0 to 9 to 0 ending at 15 • O2% volume went from 20.9 to 0 to 20.9 to 0 • CO went from 0 to 14 back to 0 ppm • H2S went from 0 to 1.5 to 0 ending at 1.5 ppm
226536	Eddleman, Todd	1/17/08	6/2/09	5/20/09, 6/2/09	• % LEL went from 0 to 15 ending at 0 • CH4% volume went from 0 to 0.75 ending at 0 • O2% volume went from 20.9 to 12.9 ending at 20.9 • CO remained unchanged at 0 ppm • H2S remained unchanged at 0 ppm
221465	Evenden	8/2/07	6/4/09	5/21/09, 6/1/09, 6/4/09	• % LEL remained unchanged at 0 • CH4% volume remained unchanged at 0 • O2% volume increased from 15 to 20.9 • CO and H2S remained unchanged at 0 ppm
	Fischer	1/26/09	5/27/09	5/27/09	No change from previous measurements with no detectable methane, O2% volume at 20.9 and CO and H2S at 0.

Table 3 Water Well Measurements for the Period of May 13 to June 14, 2009					
Permit Number	**Name**	**Sampling Start Date**	**Last Sample**	**Samples Since Last Monthly Report**	**If sampled, comparison of results from this period to last period**
214145A	Fitzner	11/18/08	6/2/09	5/21/09, 6/2/09	NO changes from previous measurement with no detectable methane, O2% volume at 20.9 and no CO or H2S.
31935	Garza-Vela	1/30/08	6/4/09	5/20/09, 6/4/09	• % LEL went from 0 to 5 ending at 0 • CH4% volume went from 0 to 0.25 ending at 0 • O2% volume went from 20.9 to 4 ending at 20.9 • CO and H2Sremained unchanged at 0 ppm
196372	Geiselbrecht	8/12/08	6/2/09	5/20/09, 6/2/09	No changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
246350	Gumpert	7/29/08	6/4/09	5/20/09, 6/2/09, 6/4/09	• % LEL went from >100 to 0 to >100 back to 0 • CH4% volume went from 5 to 0 to 0.5 back to 0 • O2% volume went from 0 to 20.9 to 16.5 back to 20.9 • CO and H2S remained unchanged at 0 ppm
196371	Lyon	8/15/07	4/22/09	4/22/09	• % LEL increased from 0 to >100 • CH4% volume increased from 0 to 5 • O2% volume decreased from 20.9 to 8.2 • CO and H2S remained unchanged at 0 ppm
271524-A	Modlish	1/30/08	6/2/09	5/20/09, 6/2/09	• % LEL went from 0 to >100 ending at 0 • CH4% volume went from 0 to 5 ending at 0 • O2% volume went from 20.9 to 0 to 20.9 • CO and H2S remain unchanged at 0 ppm
28093MH	Morine	9/10/08	5/29/09	5/29/09	• 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	4/22/09	None	• Sampling attempted 5/20/09 but was unable to access the well.
190327	Palmer	8/12/08	6/2/09	5/20/09, 6/2/09	No changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
197128	Roberts	4/08/08	5/6/09	None	Sampling attempted 5/20/09 and 6/2/09 but locked gate prevented access.
271748	Sample	3/10/08	6/4/09	5/20/09, 6/4/09 (6/4 sampled twice, before and after water sample collection)	• % LEL went from 0 to >100 ending at 0 • CH4% volume went from 0 to 5 ending at 0 • O2% volume went from 20.9 to 0 ending at 20.9 • CO and H2S remained unchanged at 0 ppm

Table 3 Water Well Measurements for the Period of May 13 to June 14, 2009					
Permit Number	**Name**	**Sampling Start Date**	**Last Sample**	**Samples Since Last Monthly Report**	**If sampled, comparison of results from this period to last period**
192144	Snow	8/2/07	6/9/09	5/29/09, 6/9/09	• % LEL decreased from >100 to 0 • CH4% volume decreased from 5 to 0 • O2% volume increased from 0 to 20.9 • CO and H2S remain unchanged at 0 ppm
213070	Stephens	8/12/08	6/2/09	5/21/09, 6/2/09	• No change from previous measurement with no detectable methane, O2% volume at 20.9 and no detectable CO and H2S.
233286A	Stetler	3/17/09	6/4/09	5/20/09, 6/4/09 (6/4 sampled twice, before and after water sample collection)	At the wellhead: • % LEL changed 21 to 58 and measured 0 before sampling and 58 after sampling • CH4% volume changed from 1.05 to 2.9 and measured 0 before sampling and 2.9 after sampling • O2% volume decreased from 19.4 to 15.4 and measured 20.9 before sampling and 15.4 after sampling • 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.
234836	White, Jim	1/4/08	6/1/09	5/20/09, 6/1/09	At the wellhead: • % 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 1.5 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.
219376	White, Orlie	8/2/07	5/29/09	5/29/09	No change from previous measurement with no detectable methane, O2% volume at 20.9 and no detectable CO and H2S.
234839	Waltz	8/12/08	5/21/09	5/21/09	No changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
Black Hawk Ranch					
218719	Goza	1/14/09	6/9/09	5/21/09, 6/1/09, 6/9/09	No changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.

Table 4 Methane Readings Schedule (12 June 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			X
Bergman	River Ridge			X			X
Lively	River Ridge				X		
Kerman	River Ridge		X	X			
Conley	River Ridge			X			
Searle	River Ridge			X			
Derowitsch	River Ridge		X	X			X
Colorado-Switzer	River Ridge						X
English	River Ridge		X		X		
Golden Cycle Land (Goemmer)	River Ridge			X			X
Burge	La Veta Pines			X			X
Barrett	River Ridge			X			X
Hopke	River Ridge		X	X			X
Masters #1	River Ridge			X			X
Masters #2	River Ridge	X		X			X
Coleman	River Ridge			X			
BLM 15-12	La Veta Pines				X		
Lively 10-02	River Ridge			X			

Table 4 Methane Readings Schedule (12 June 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			
Chaves	River Ridge	X		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			

Table 4 Methane Readings Schedule (12 June 2009)							
Landowner	**Subdivision**	**Water Level**	**Cistern**	**Bi-Monthly**	**Monthly**	**Quarterly**	**Weekly**
Tobyas	City Ranch			X			
Dale	City Ranch				X		
McEntee	City Ranch			X			
Johnson	City Ranch		X	X			
Cordova	City Ranch			X			
Dernell	City Ranch						
Schaefer	City Ranch					X	
Bruington	City Ranch		X	X			
Bartlett	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		
Evendon	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 (12 June 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	
Stetler	Silver Spurs		X	X			
Black Hawk Ranch							
Goza	Black Hawk			X			

Rohr will be checked Quarterly with Rankin, Lowry, and Goemmer Cattle.

Table 5
Hand Held Gas Meter Results At Home Sites

Name	Date	Time	Weather Conditions	RMLD Readings				Notes
				N	E	W	S	
Pictou Site (COGCC soil survey area)	6/2/09	10:31	Cloudy / Rain	42-50	39-58	33-42	30-43	Background 20-35; Pfaffenhauser N 26-49, S 25-58, W 25-36, & E 28-53
Rohr Water Well	5/28/09	14:05	Partly Cloudy	45-92	30-50 & 28-50	30-50	38-56	Background 26-40; pit 80-90, S pit 42-60, W pit 183-196, E pit 40-70; junk pile 30-133; & N pasture 60-70
Seep By Bounds House	5/27/09	12:49	Cloudy	28-37			30-67	N road: fence 44-57, road 55-70, trees 140-298, dead trees 100-780: N draw 680-950, 2nd dead trees 500-600; S road S draw 30-46, 2nd draw 40-50, near tree & road 80-200; dead tree & S fence 180-380; & fence & rocks 620-700.
Black Hawk Mine	6/2/09	12:13	Cloudy / Rain					Background 25-45; road 45-65, S road 48-115, Rouse road 40-69, W road 29-30, S County road 40-60; S draw 60-65, N draw 38-62 & 50-69; entrance 57-72; & S cattle guard 50-70
Pryor Mine	6/2/09	12:50	Rain					Background 30-40; E draw 40-60; windmill 30-40; & railroad 40-50
Kent Smith	5/28/09	13:30	Partly Cloudy	22 - 30	18 - 42	17 - 30	44 - 55	Background 26-42; SE outside house 24-30; Driveway 48-60; E Vent 25-30; Well Vent 169-211; W Pasture 18-86, N Pasture 60-80, & W Pasture (Dead tree) 50-70
Mitch Sample	5/27/09	9:53	Cloudy & Muddy	18 - 44	16 - 24	16 - 23	. 12 - 23	Background 24 - 38; Leech field 48 - 66; Inside above sink 80 - 211 w/water running; & Kitchen 45 - 60.
Terri Kerman	5/28/09	13:50	Partly Cloudy	22 - 36	17 - 34	29 - 59	26 - 32	Background 32-49; Drivewy 39-63; W Door 95-100; N Pasture 60-95, & W Pasture 30-60
Jim White	6/1/09	12:08	Cloudy & Breezy	28 - 46	26 - 30	26 - 36	24 - 38	Background 17-34; Driveway 55-68; Ranch Road 79-80; S Pasture 25-56 (septic field). Alarm returned keeps sounding. Inside S 18-30.
Donald Derowitsch	5/28/09	9:55	Partly Cloudy	28 - 36	18 - 26	16 - 28	15 - 20	Background 20-48; Air conditioner N/A; Driveway 36-59; Hot Tub 25-28; & Septic 50-110
Jack Houghtling	5/28/09	8:47	Clear & Calm	19 - 26	18 - 31	22 - 28	24 - 28	Background 24-36; Driveway 40-63; Propane tank 24-28; N Well 20-24; E Well 1400-2190; S Well 2266-3500; E draw 43-60; N draw 34-62; N draw 2nd reading 50-60.
Vince Coleman	5/28/09	9:32	Clear & Muddy	26 - 32	27 - 40	19 - 33	20 - 28	Background 28-38; E Vent 20-25, S Vent 15-20; & Driveway 37-62
John Ireland/ Kevin Murphy	5/28/09	11:02	Partly Cloudy	18 - 25	16 - 39	16 - 33	16 - 27	Background 20-34; Well 22-30; & Driveway 45-72
Janet Campbell	5/27/09	11:46		24 - 36	24 - 40	25 - 46	20 - 37	Background 35-45; Septic 22-67; driveway 60-80; well 41-65; horse stall 49-61; hydrant 35-50 water running; inside basement W 19-24, E 22-27, N 17-22, S 20-29; kitchen S 21-30, N 18-20, & sink 23-50. Calibrated gas sensor in basement.
Richard Goodwin	5/28/09	10:51	Partly Cloudy	23 - 32	25 - 30	22 - 40	18 - 22	Background 34-44; driveway 53-62; S pasture 50-70, & W Pasture 35-95 (possible septic field)
Bruce Hopke	5/28/09	9:13	Clear	18 - 36	24 - 32	20 - 26	29 - 47	Background 24-36; E Well 1200, S Well 1386; N Vent 20-28, E Vent 18-20; Septic 50-60; & Driveway 40-46
Todd Eddleman	5/29/09	13:28	Partly Cloudy & Windy	18 - 21	24 - 32	22 - 30	26 - 32	Background 25-35; N Pasture 30-48, S Pasture 33-60; N Vent 15-20; Well 65-92; Inside W 16-18, E 18-20
Roberts	5/27/09	14:20	Cloudy & Mud	18 - 32	28 - 37	13 - 36	32 - 56	Background 31 - 50; W pasture 47 - 51.
Paul Eddleman	5/29/09	13:52	Cloudy	20 - 50	22 - 40	20 - 36	22 - 35	Background 22-30; S Vent 20-30, N Vent 17-58; & E Pasture 40-58

Table 5
Hand Held Gas Meter Results At Home Sites

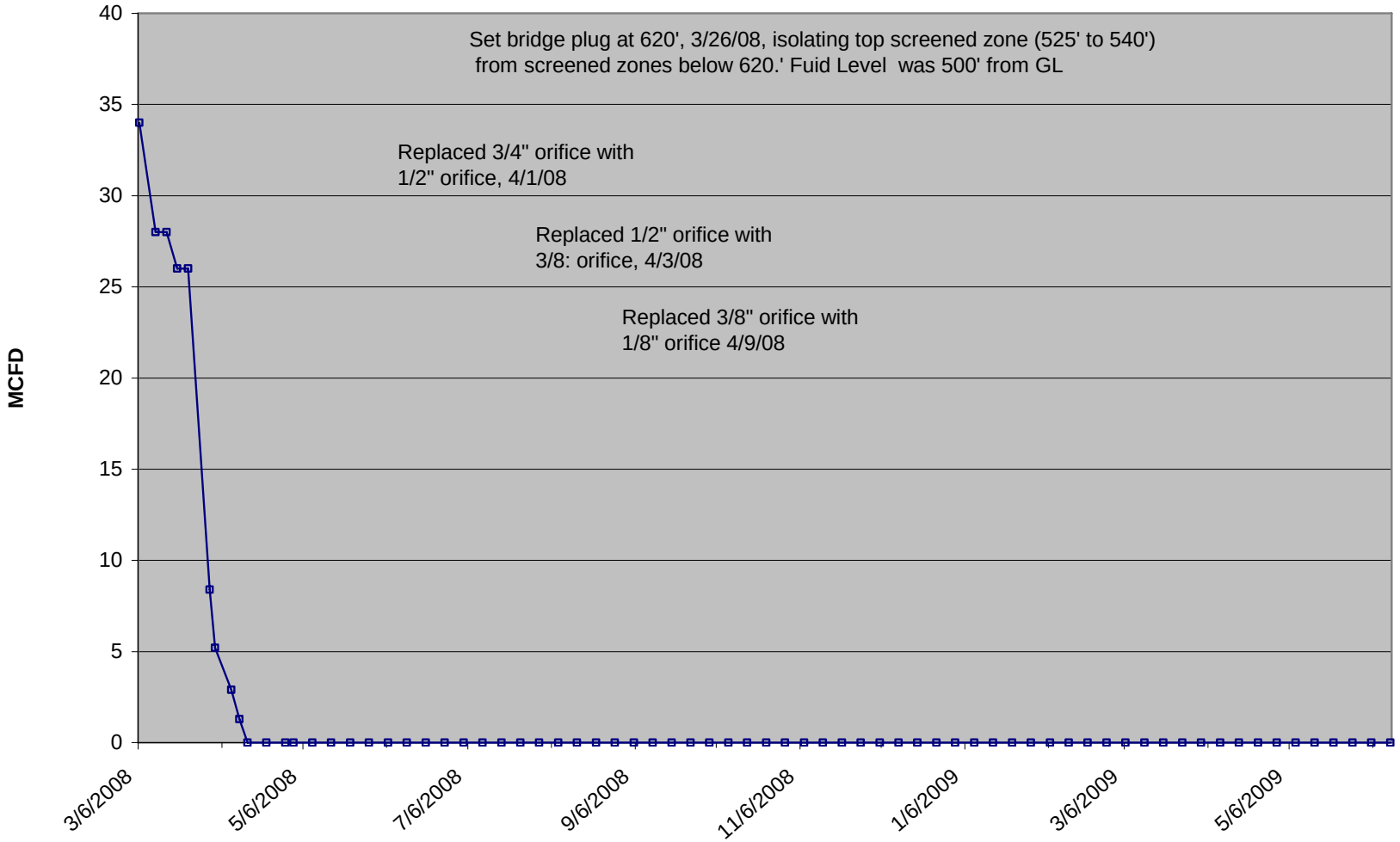
Name	Date	Time	Weather Conditions	RMLD Readings				Notes
				N	E	W	S	
Burge	6/1/09	10:37	Clear	17 - 28	26 - 54	17 - 25	16 - 38	Background 13-20, pasture 30-40; W Pasture 57-100, E Pasture 38-47, S Pasture 30-52
E. Johnson	5/29/09	12:53	Clear	18 - 30	16 - 30	26 - 34	25 - 30	Background 26-35; Gasline Row 40-67
Garza	6/1/09	12:00	Cloudy & Breezy	20 - 35	25 - 38	22 - 30	20 - 35	Background 25-35; S Pasture 60-80, 97-116; S tree 104-116; Driveway 37-57; W Psature 69-78; Well 40-50
Evendon	6/1/09	12:44	Cloudy & Windy	18 - 24	18 - 25		18 - 20	Background 18-33; S pasture 32-86, E pasture 59-64; Old Well W 1459-1781, S 300-1500, E 104-429, N 127-494; between well & tree 560; E toward house 48-70
Scott Billstrand	5/29/09	14:42	Cloudy	21 - 35	32 - 40	22 - 35	20 - 30	Background 38-54; Stalls 90-110; S Pasture 70-108; E vent 22-25, N vent 22-25; Well 50-90; S Pasture 120-130; N Pasture 115-180; & Driveway 85-90.
Orlie White	5/27/09	15:00	Cloudy	16 - 30	28 - 31	. 12 - 15	14 - 27	Background 30-40; S pasture 20-35; N pasture 38-50 & 58-75.
Fischer	5/27/09	15:27	Cloudy & Mud	40 - 57	100 - 120 50 - 88	50 - 107	15 - 24	Background 20 -38; SE above small trees 64 - 90.
Goza	6/1/09	13:34	Cloudy & Windy	21 - 35	20 - 30	38 - 51	25 - 30	Background 25-35; W pasture 58-64; driveway 53-65
Stetler	5/27/09	9:32	Cloudy - Muddy	20 - 30	30 - 42	28 - 31	26 - 37	Background 28 - 38; N crawl vent 22 - 24; Leech 50 - 80; E crawl vent 23 - 27; S crawl vent 18 - 20; W pasture 30 -40; Cistern 28 - 38; Well 18 - 27, & Driveway 28 - 37.
BLM 15-12	5/27/09	12:30	Cloudy	48 - 60	37 - 52	47 - 60 46 - 52	28 - 39	Background 30 - 55; casing 23 - 40.
Lively 10-02	5/28/09	9:43	Clear & Muddy	40 - 180	32 - 68	48 - 115	48 - 101	Background 40-50; Well 38-99, E 40-56
Golden Cycle	5/28/09	10:20	Partly Cloudy	50 - 140	60 - 70	25 - 70	58 - 72	Background 28-40; Well 500, Well Venting 100-500

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	New to list as of 3/24/09

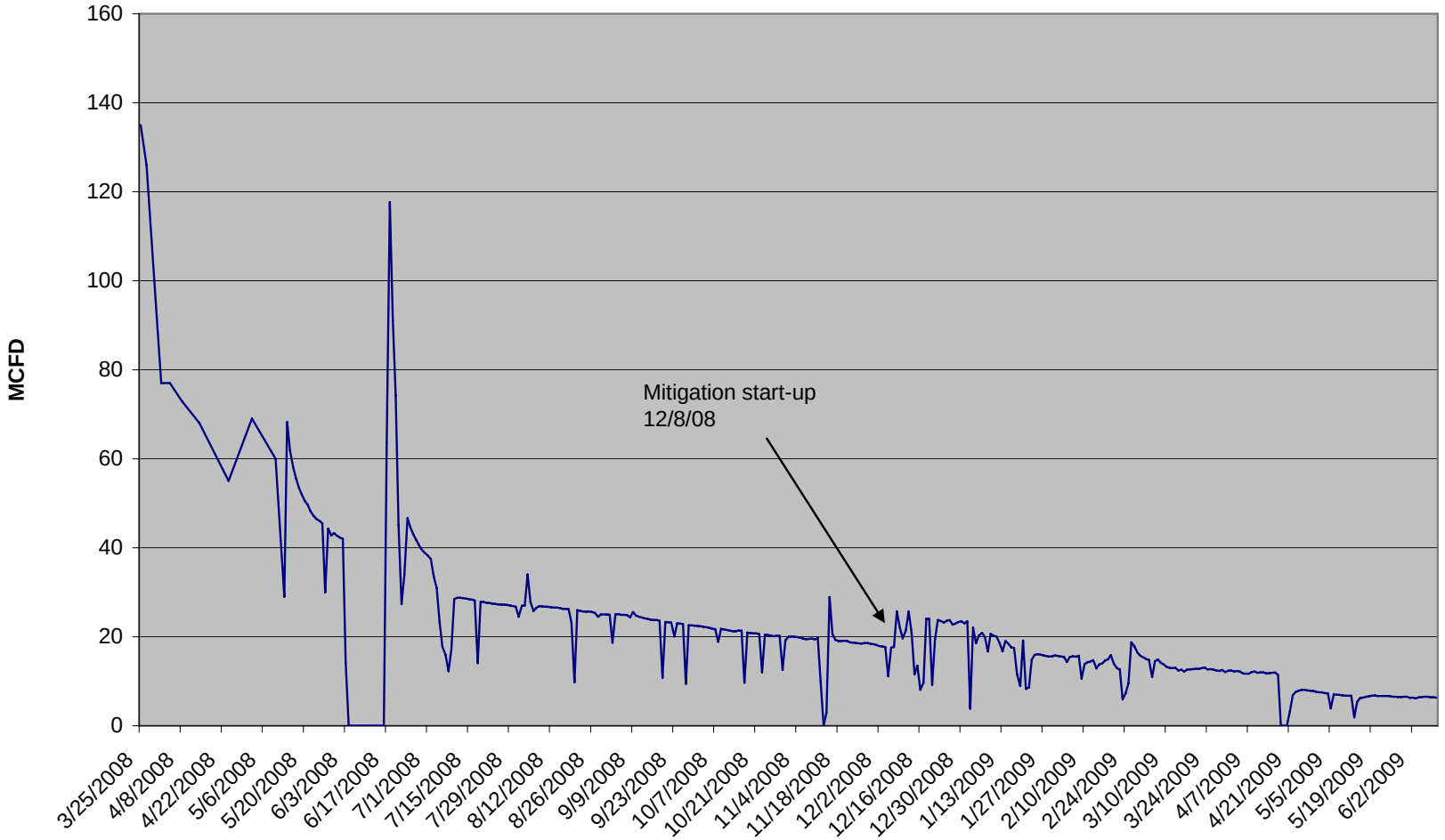
No new residences have been added during this reporting period.

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

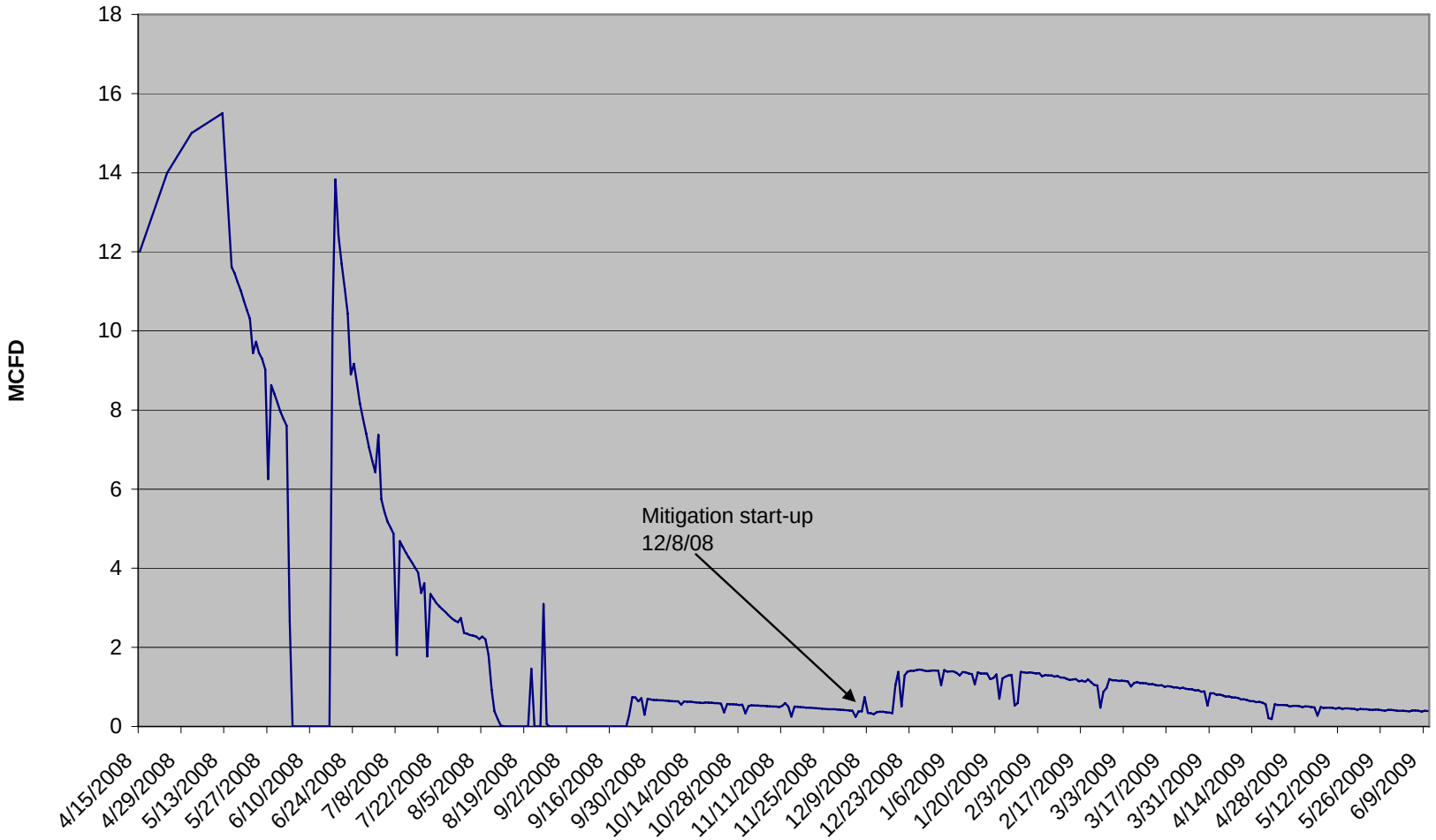
POCI 55 MW Gas Flow from 3/6/08 to 6/12/09



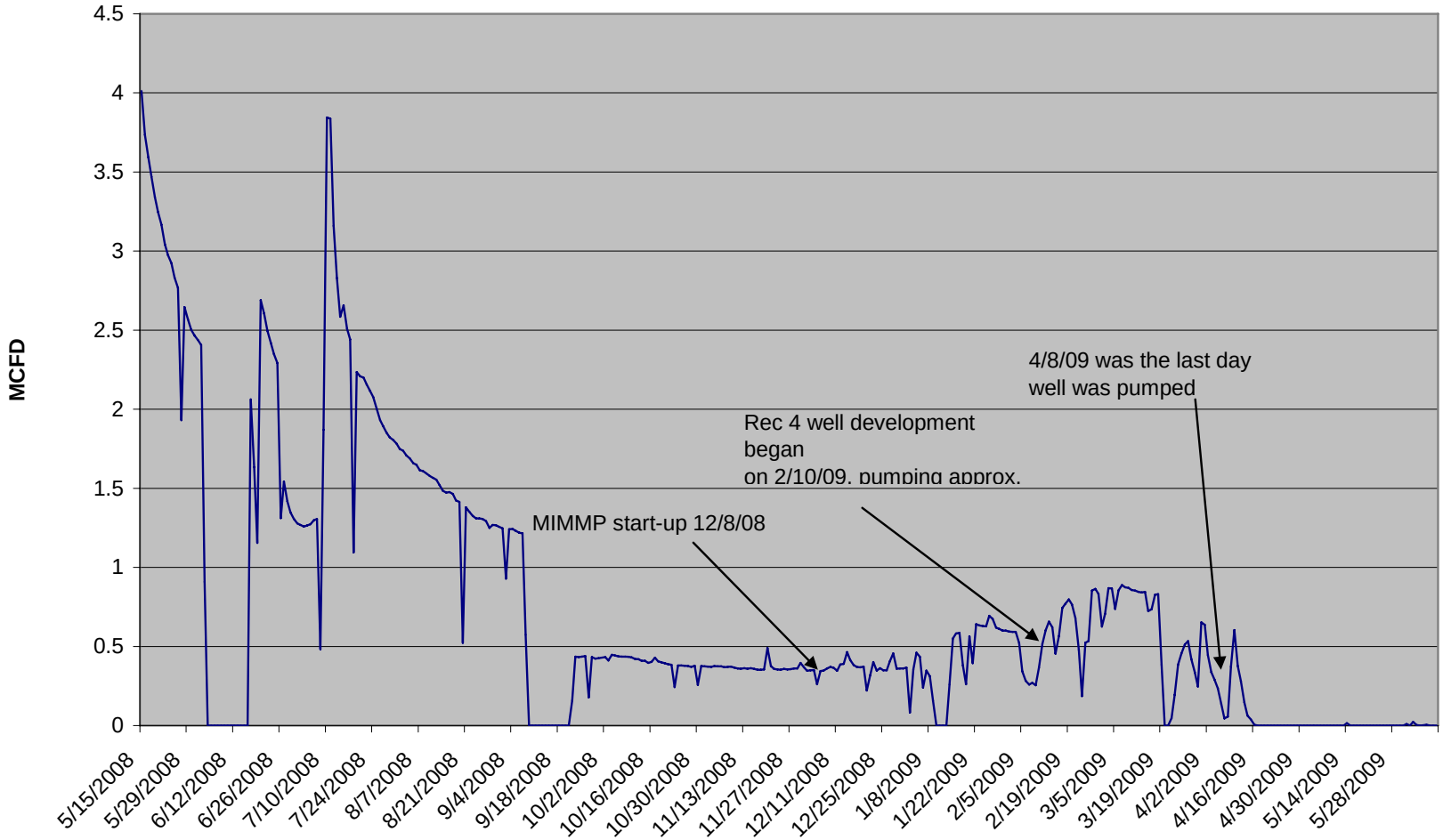
Recovery 1 Kittleson Gas Flow
from 3/25/08 to 6/10/09



Recovery 3 PEI Gas Flow
from 4/15/08 to 6/10/09

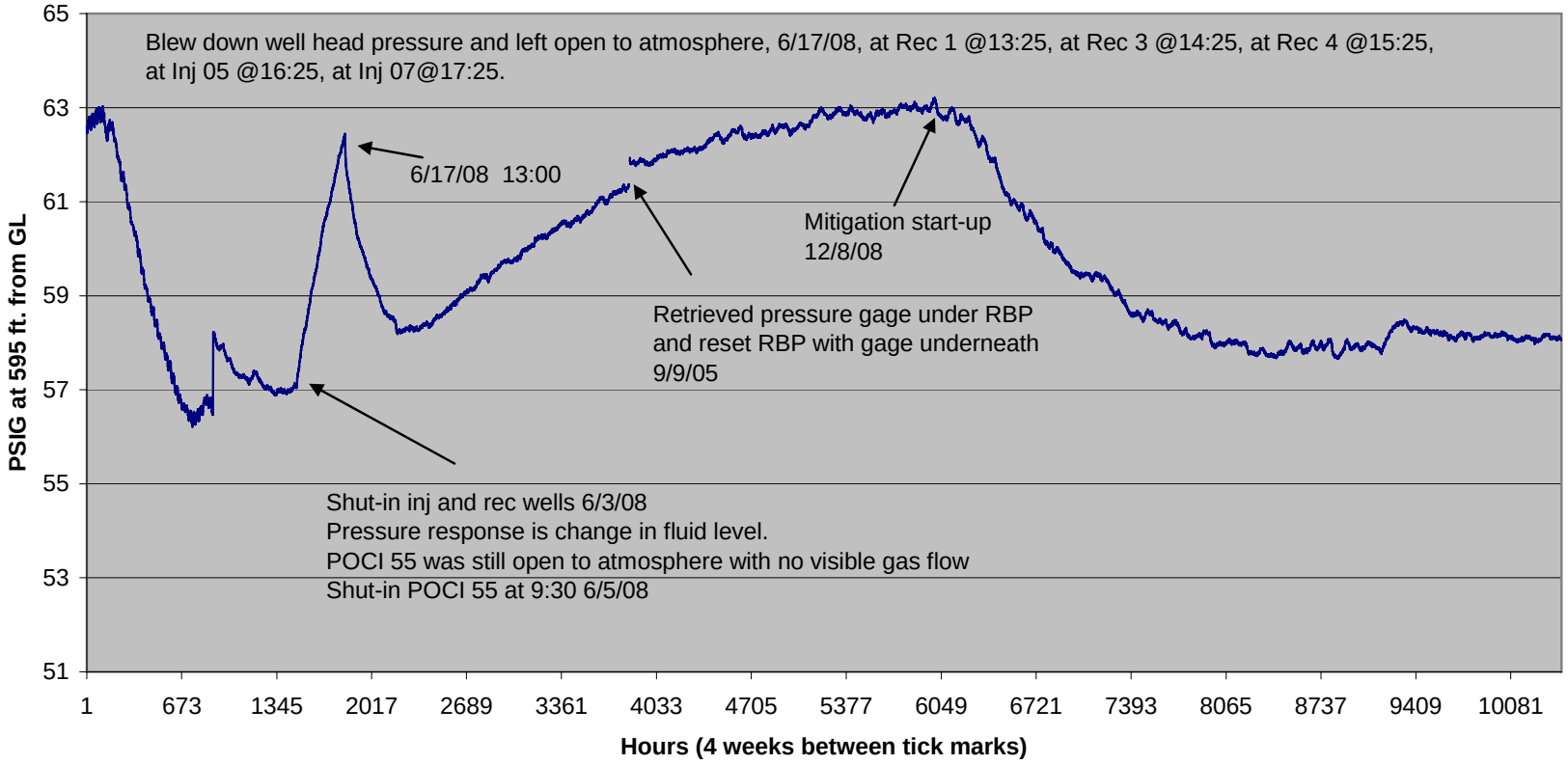


**Recovery 4 Barrett Gas Flow
from 5/15/08 to 6/10/09**

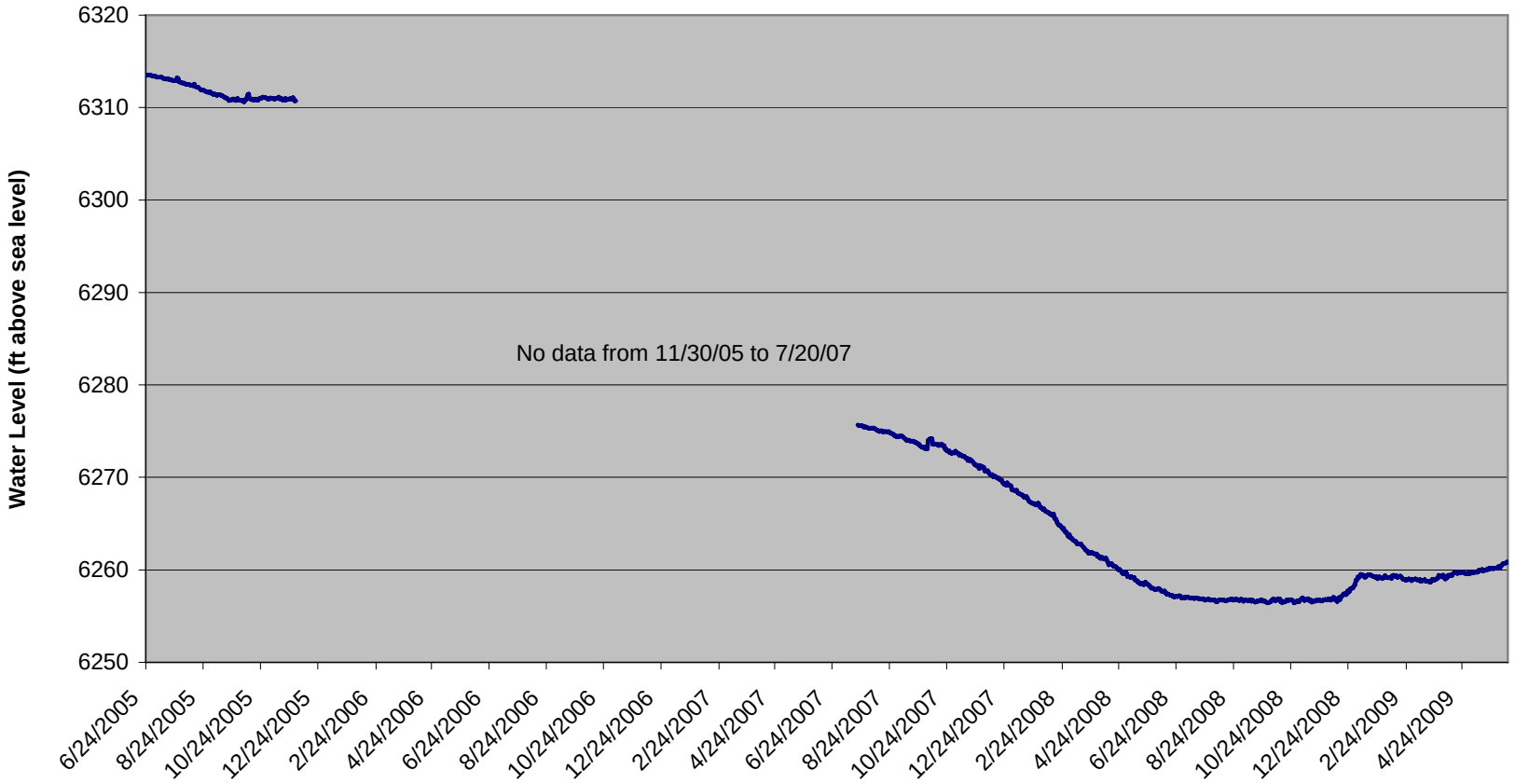


Attachment 2
Graphs of Pressure and Fluid Level Data From
POCI 55, Barrett, Bergman, Bruington, Coleman, Evendon, Garza-Vela and Meyer

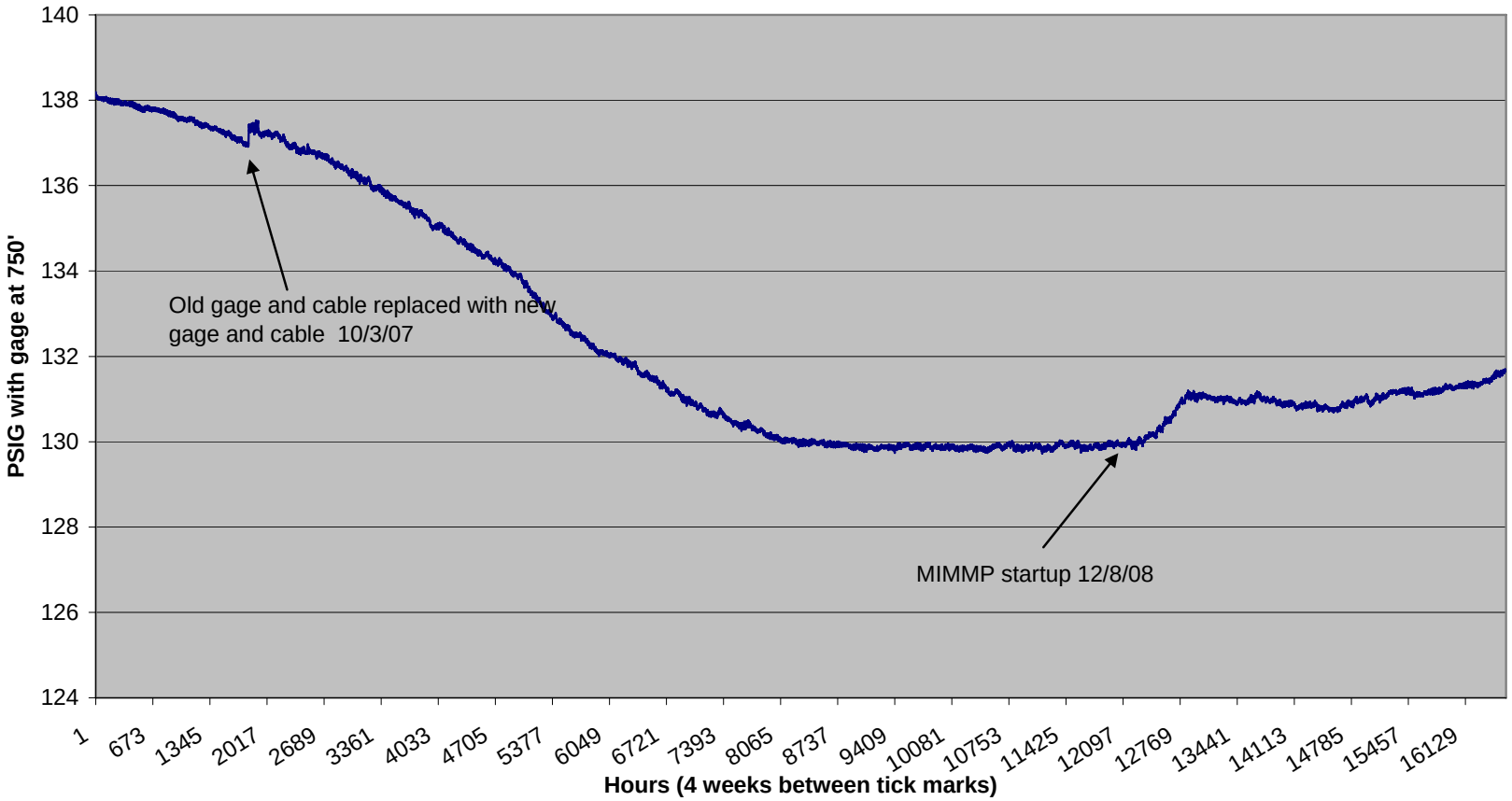
POCI 55 Monitor Well from 4/2/08 to 6/11/09
Permit # 275819
Lot 55 RRR
SE SW Sec 3 29S 67W
GL elev. 6690'



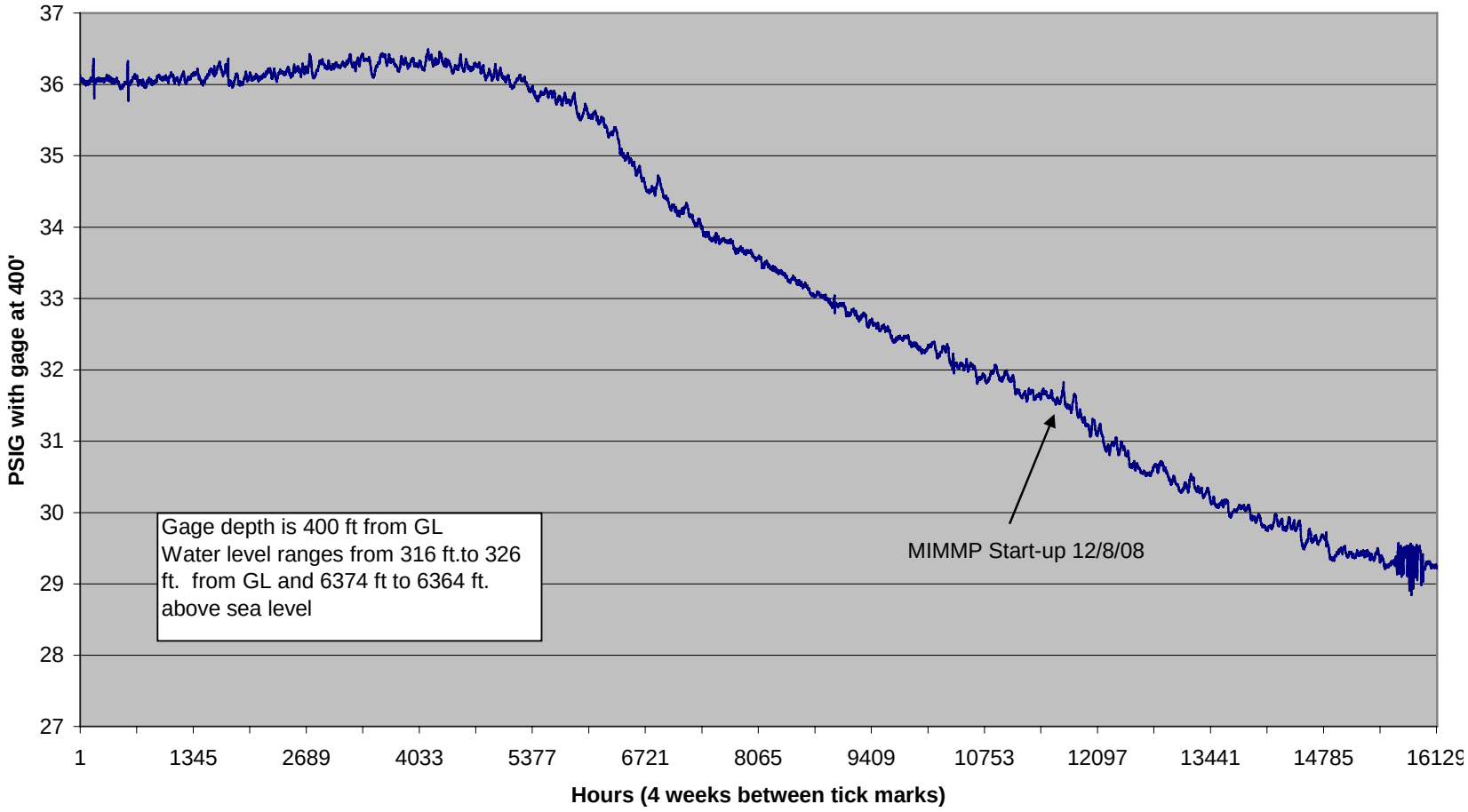
Barrett WW
Water Level from 6/24/05 to 6/11/09
Permit # 257994
Lot 57 RRR
NW, SE Sec 3, T29S R67W

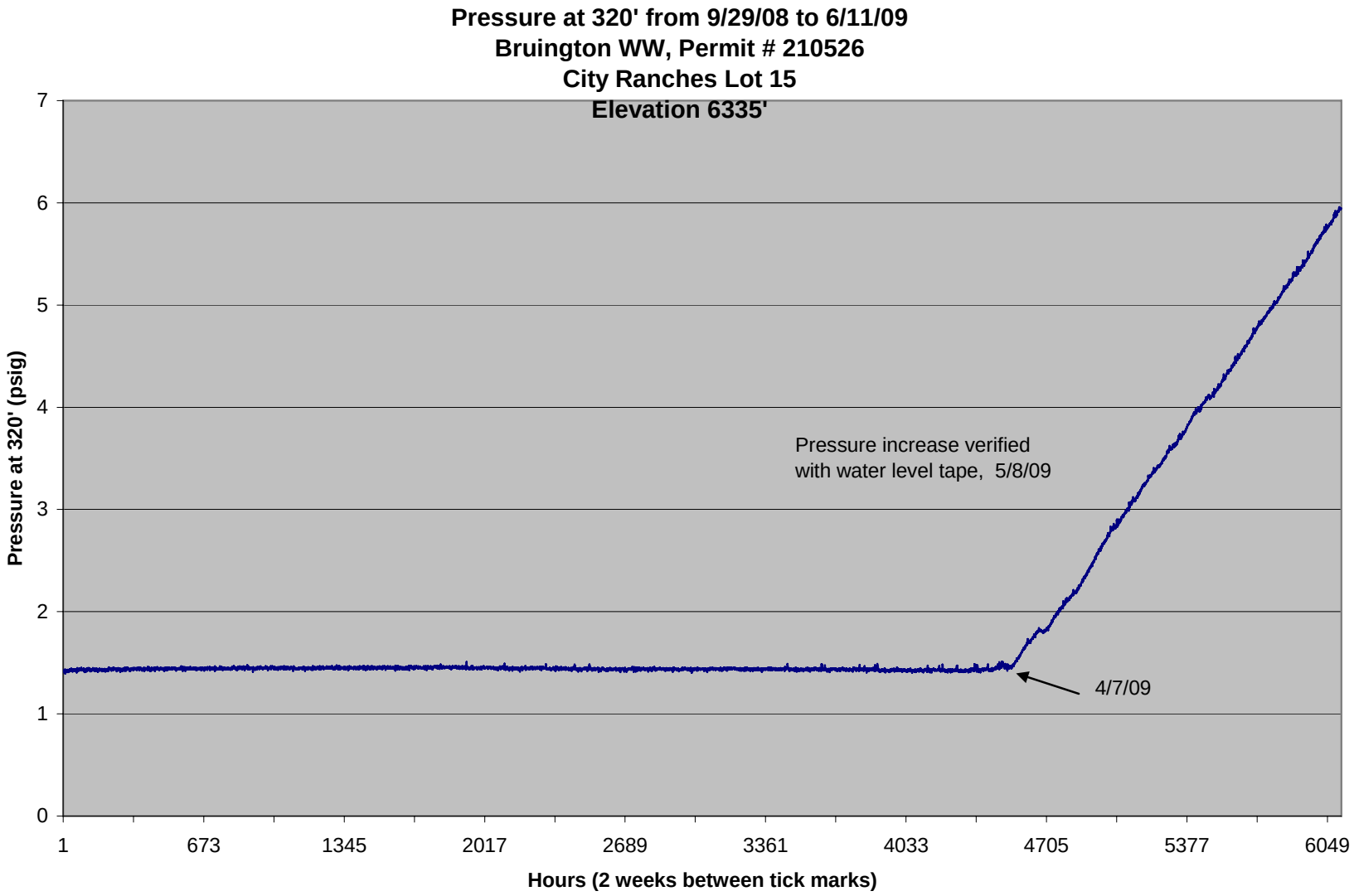


Barrett WW from 7/20/07 to 6/11/09
Permit # 257994
Lot 57 RRR
NW, SE Sec 3, T29S R67W
G.L. elev. 6707'

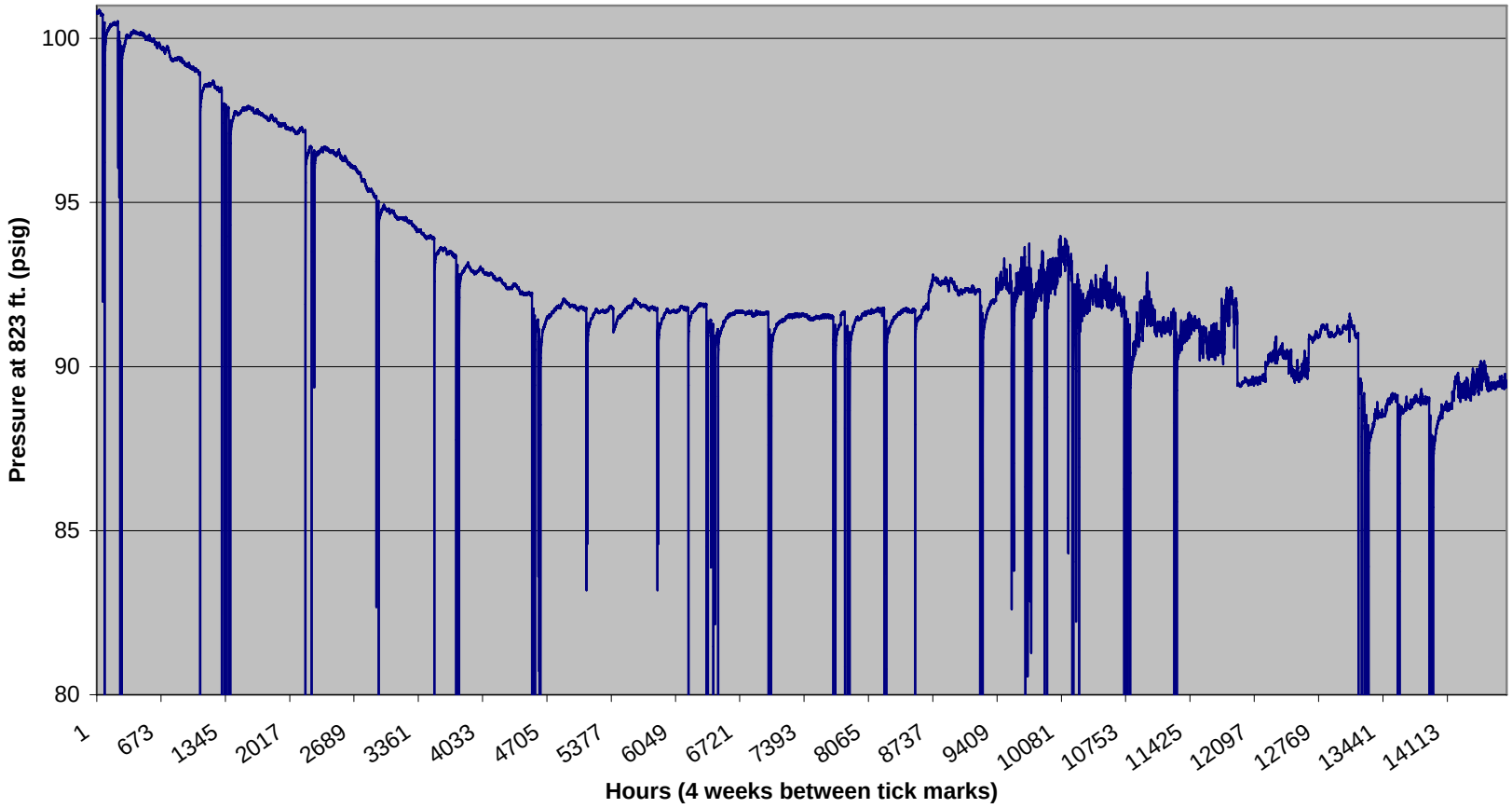


Bergman WW pressure data from 8/9/07 to 6/11//09
Permit # 24403, SW NW Sec 3 29S 67W
Lot 48 RRR

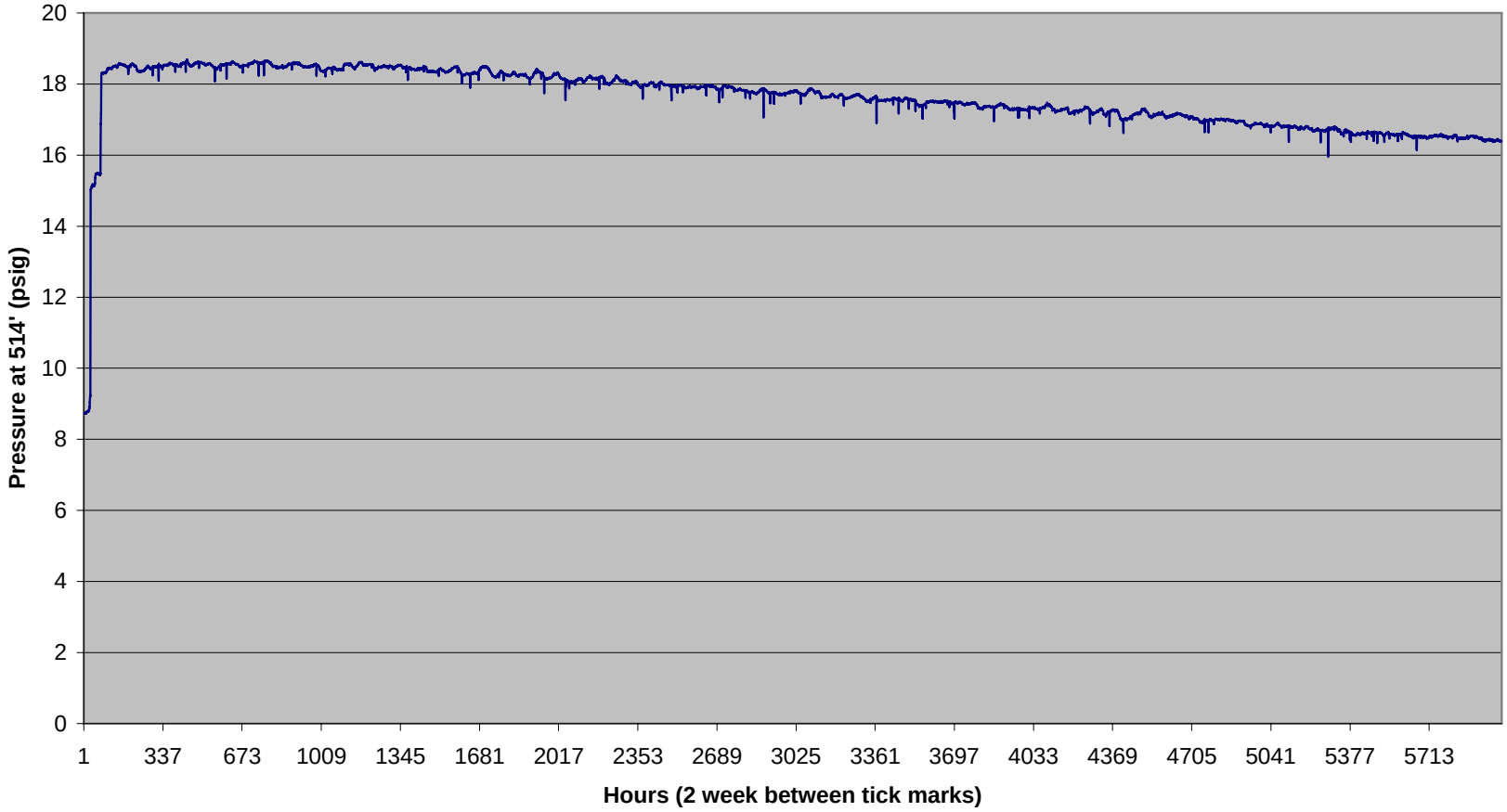


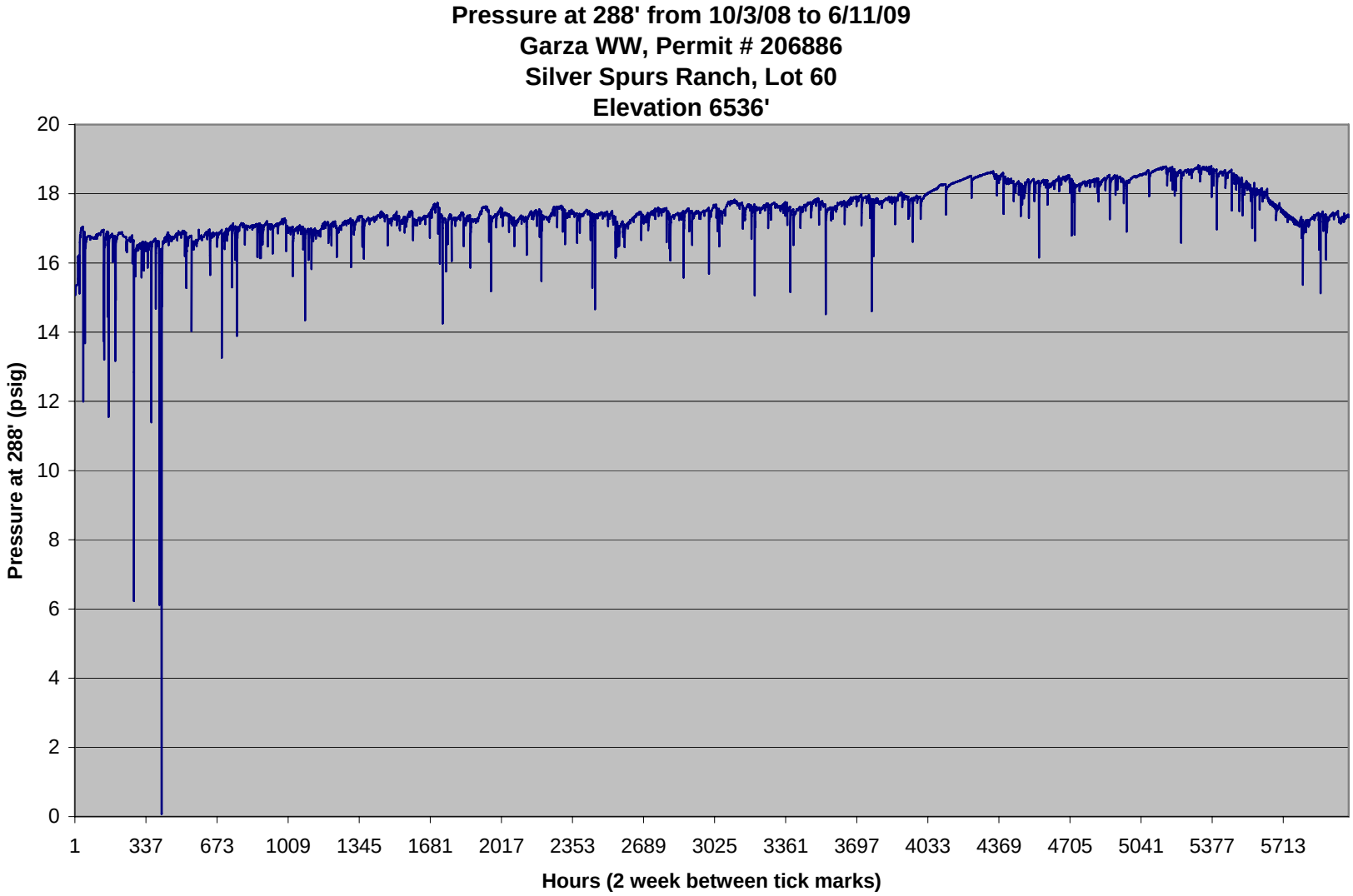

Pressure at 320' from 9/29/08 to 6/11/09
Bruington WW, Permit # 210526
City Ranches Lot 15
Elevation 6335'
Pressure at 320' (psig)
0
1
2
3
4
5
6
7
Pressure increase verified
with water level tape, 5/8/09
4/7/09
1
673
1345
2017
2689
3361
4033
4705
5377
6049
Hours (2 weeks between tick marks)

Coleman WW Pressure Data from 10/31/07 to 6/11/09
Permit # 267964 NE SW Sec 10 29S 67W
Lot 70 RRR
G.L. elev. 6848'

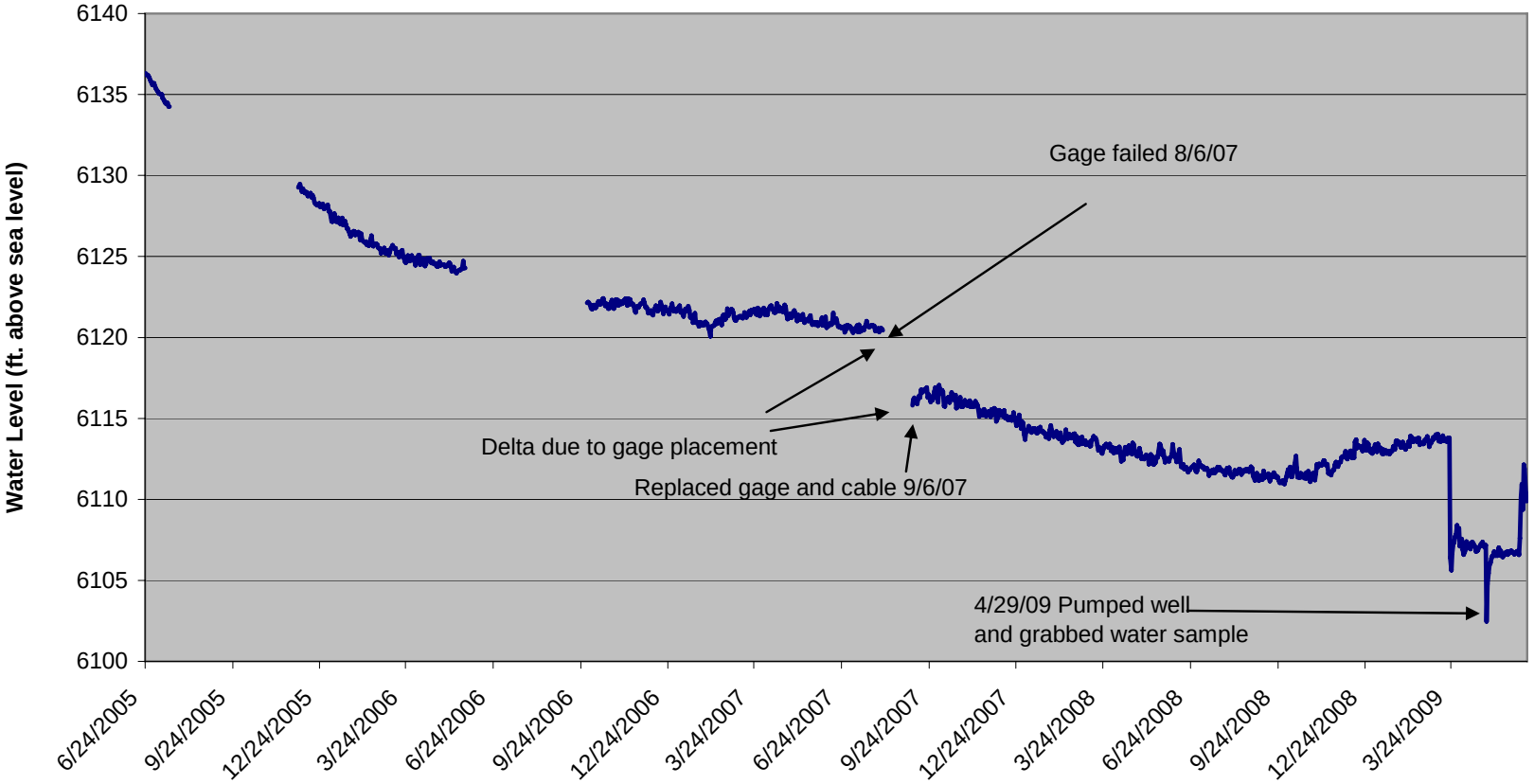


Pressure at 595' from 10/3/08 to 6/11/09
Evenden WW, Permit # 221465
Lot 117 Silver Spurs Ranch
Elevation 6712'

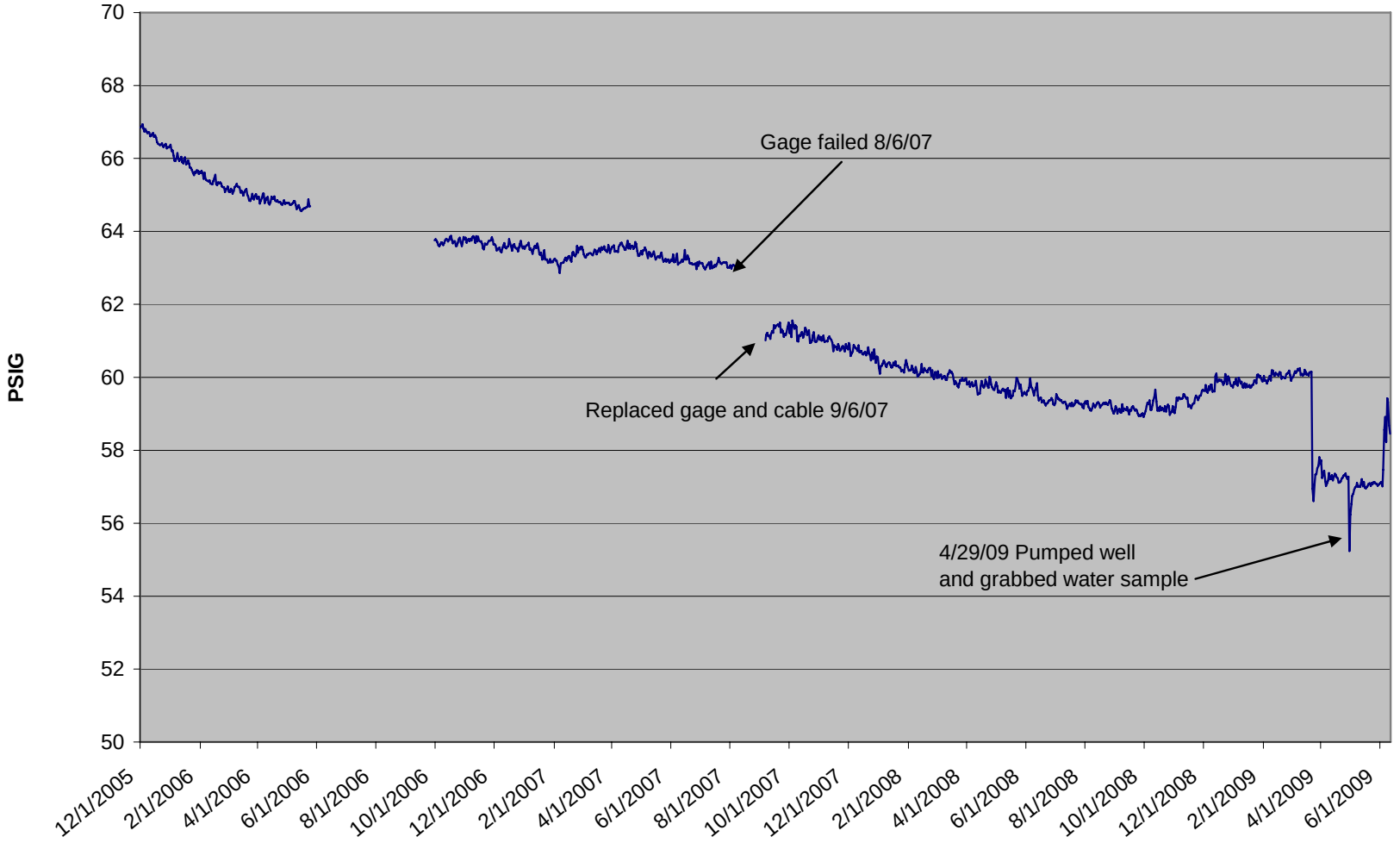



Pressure at 288' from 10/3/08 to 6/11/09
Garza WW, Permit # 206886
Silver Spurs Ranch, Lot 60
Elevation 6536'
Pressure at 288' (psig)
0
2
4
6
8
10
12
14
16
18
20
1
337
673
1009
1345
1681
2017
2353
2689
3025
3361
3697
4033
4369
4705
5041
5377
5713
Hours (2 week between tick marks)

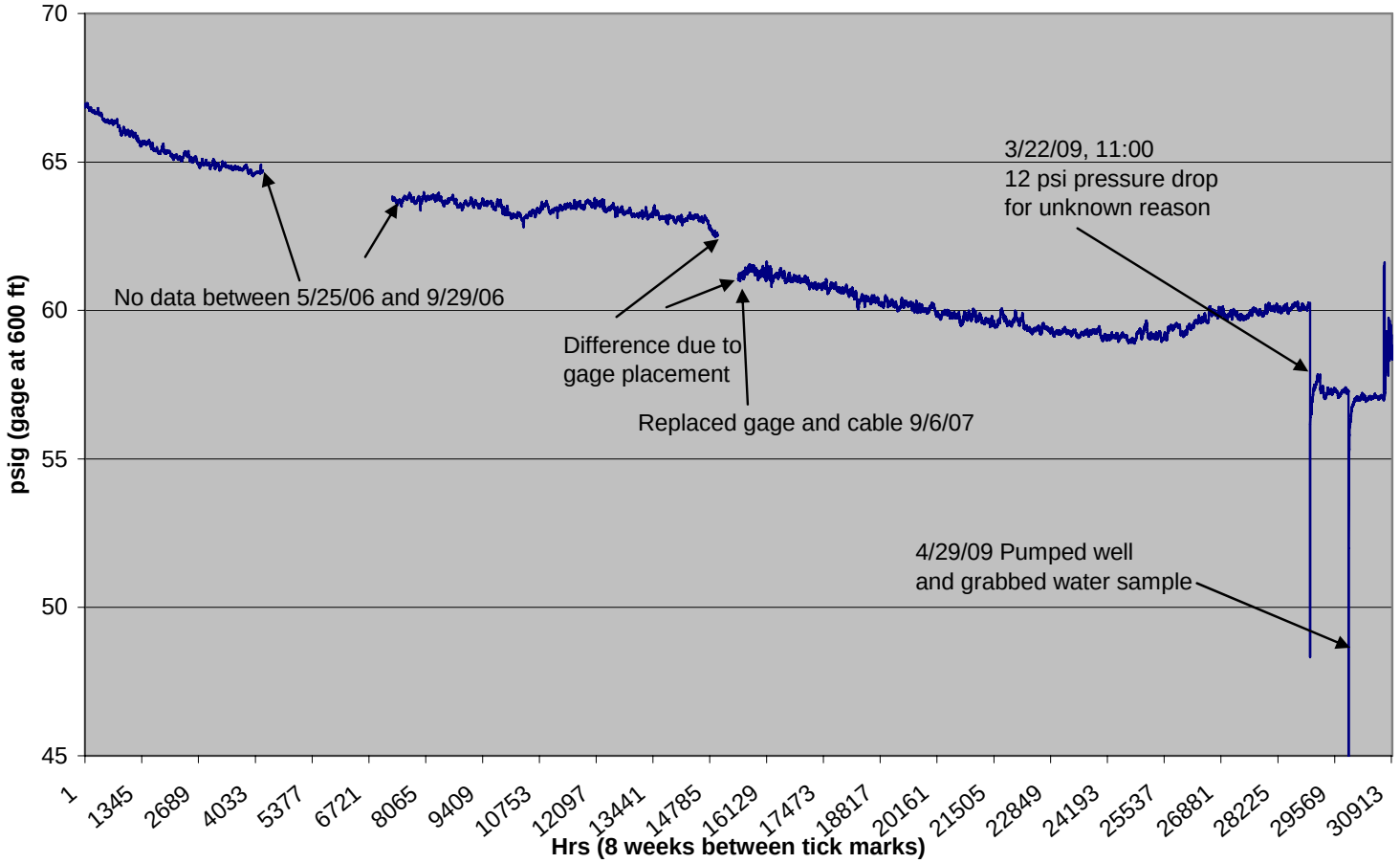
Meyer WW Water Level from 6/24/05 to 6/11/09
Permit # 248862
Lot 120 RRR
SW, NE Sec 30 T28S R66W



Meyers WW BHP from 12/1/05 to 6/11/09

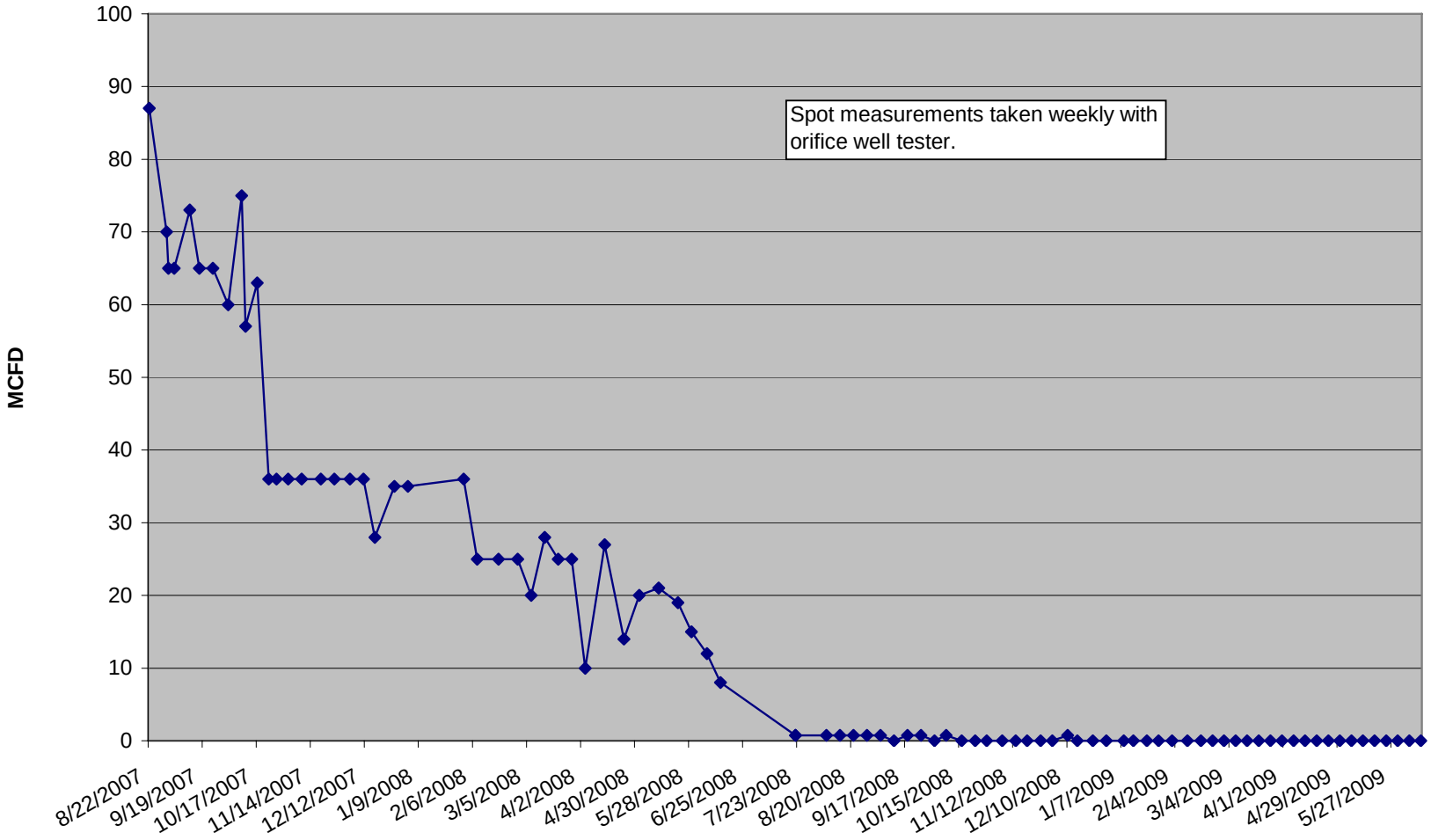


Meyers WW 11/30/05 to 6/11/09
Permit # 248862
Lot 120 RRR
SW, NE Sec 30 T28S R66W
G.L. elev. 6575'

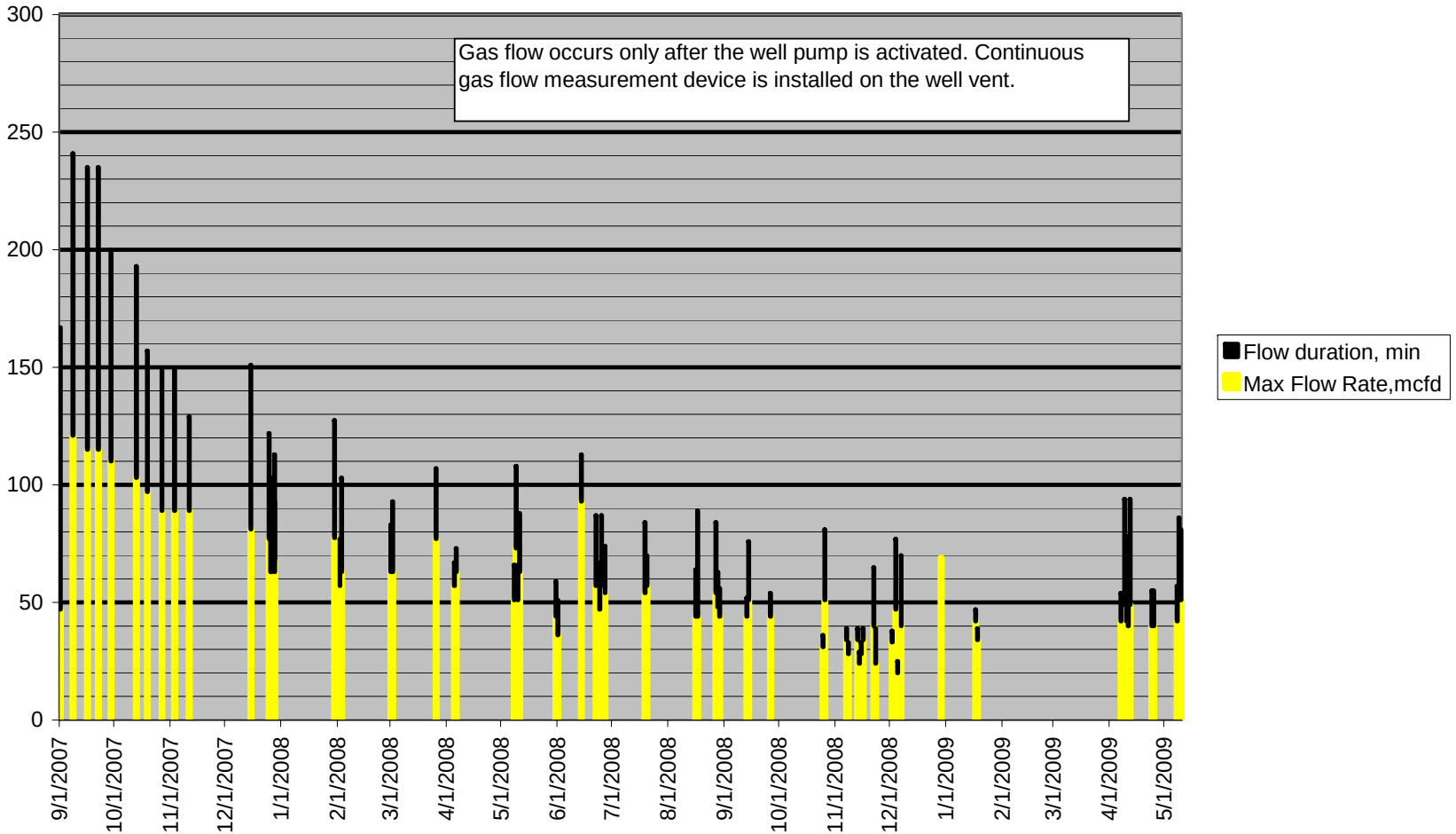


Attachment 3
Gas Flow Measurements at Bruington, Coleman, Angely, Bounds, and Smith

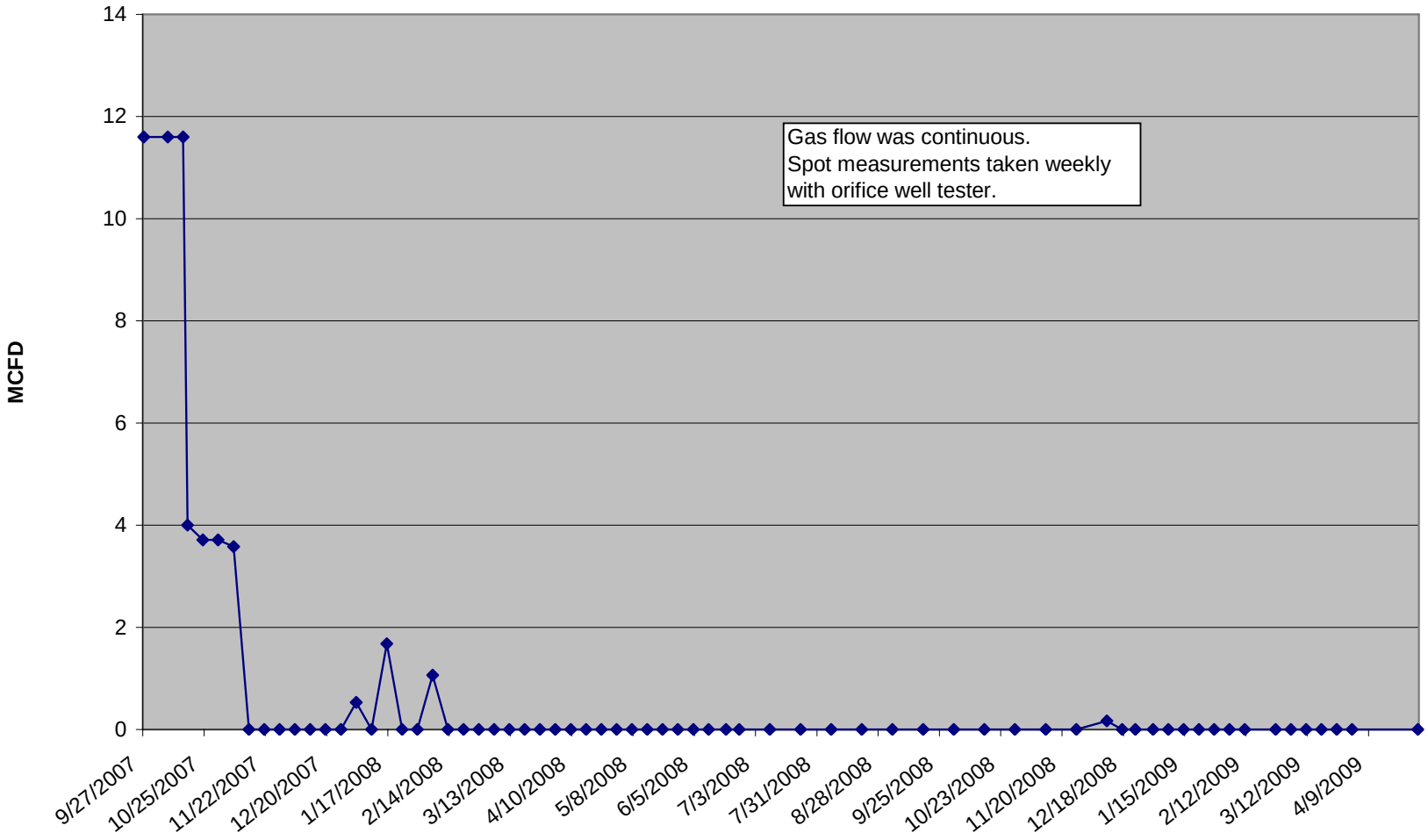
**Bruington WW # 210526 Measured Gas Flow
from 8/22/07 to 6/11/09**



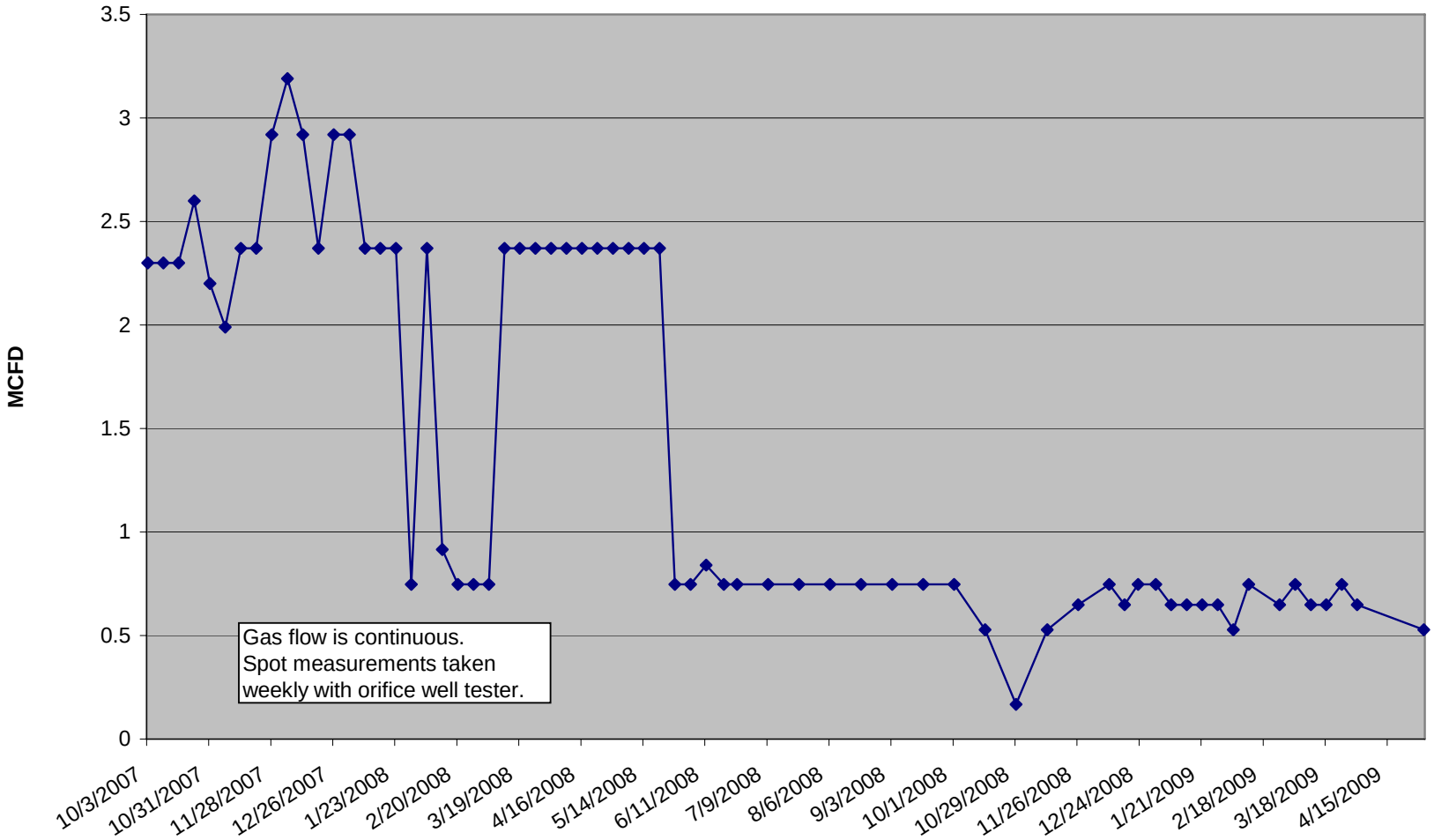
**Coleman WW #267294 Measured Gas Flow
from 9/1/07 to 5/10/09**



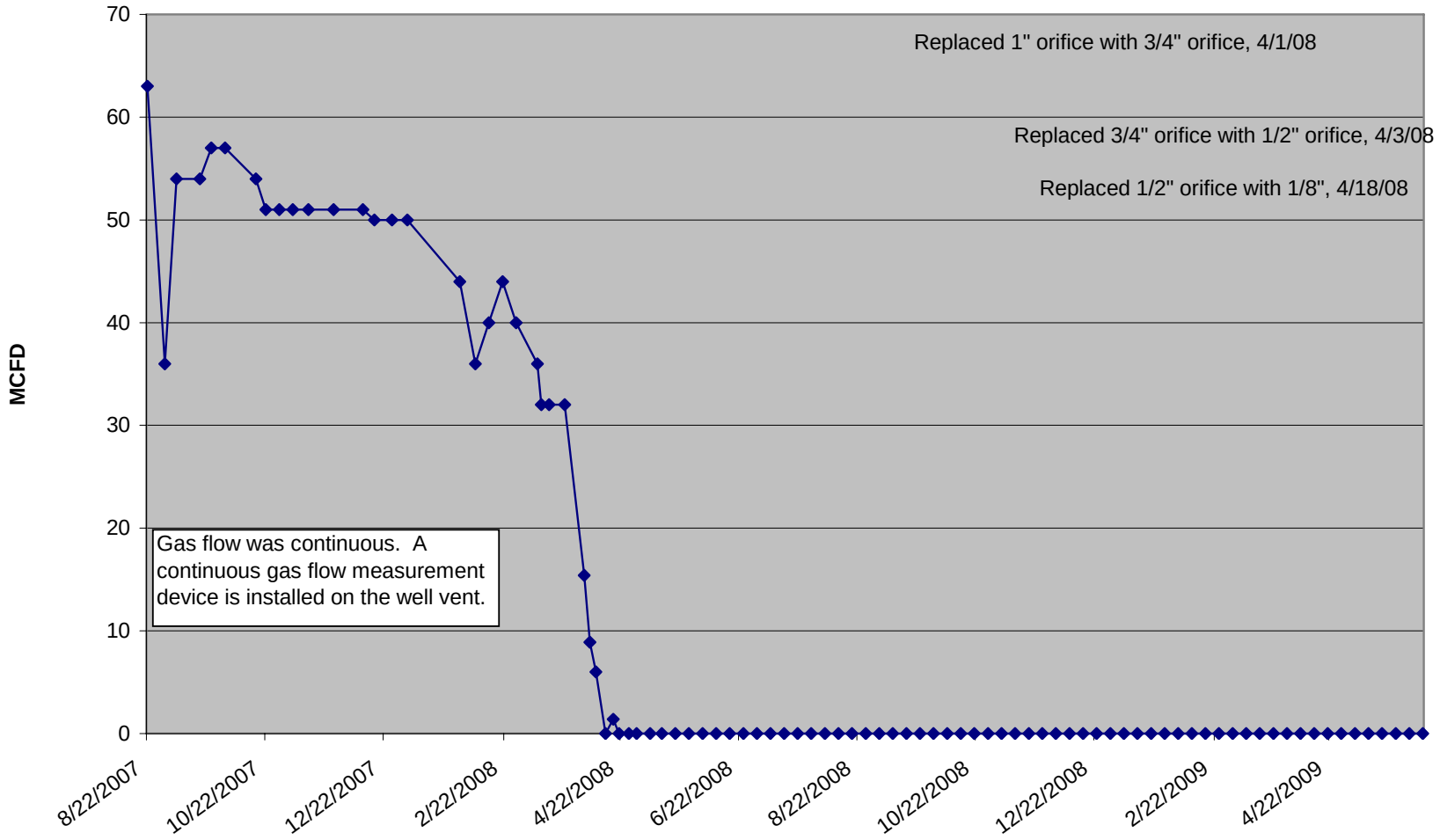
**Angely WW # 238689 Measured Gas Flow
from 9/27/07 to 5/1/09**



**Bounds WW #181278 Measured Gas Flow
from 10/3/07 to 5/1/09**

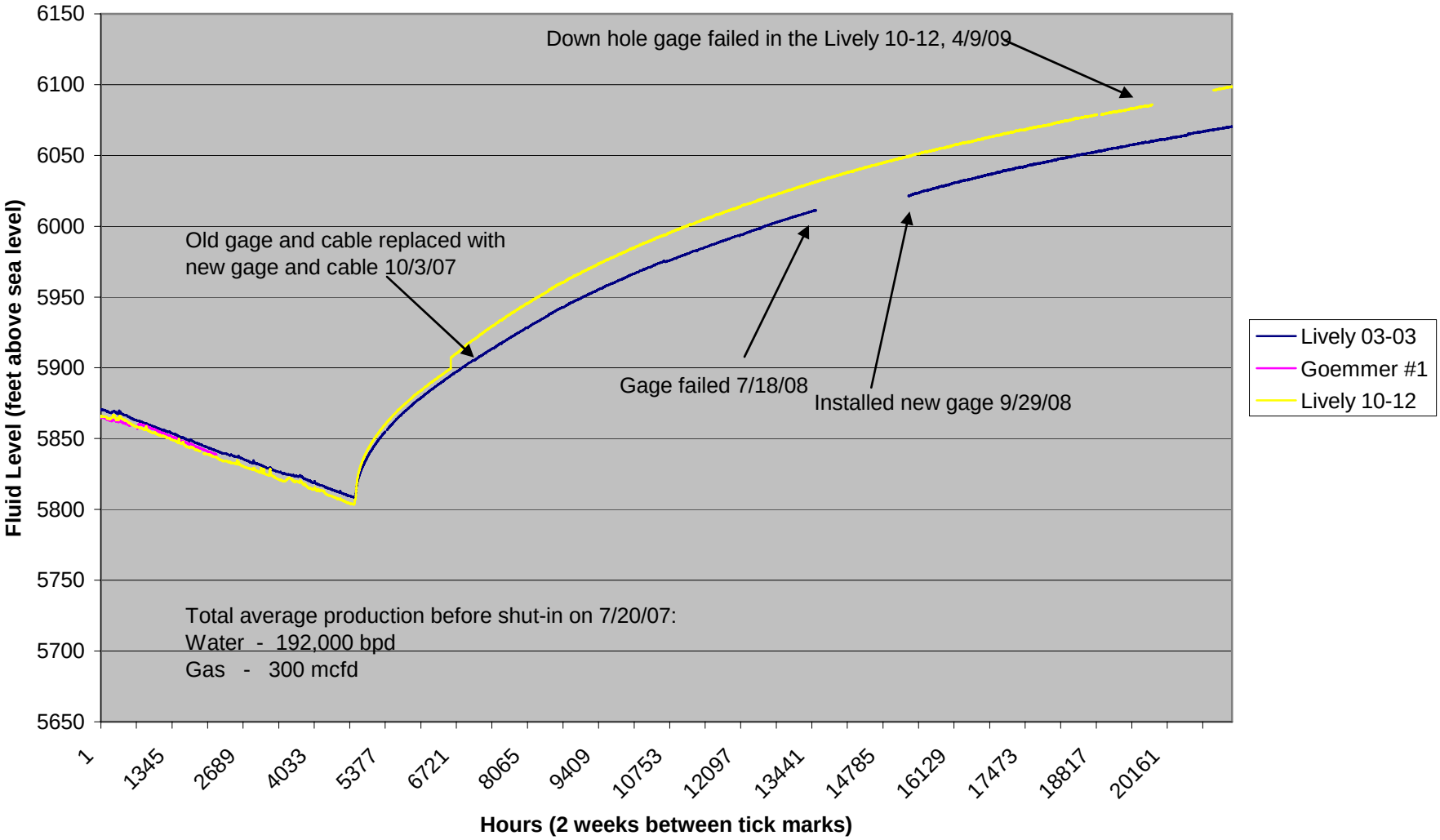


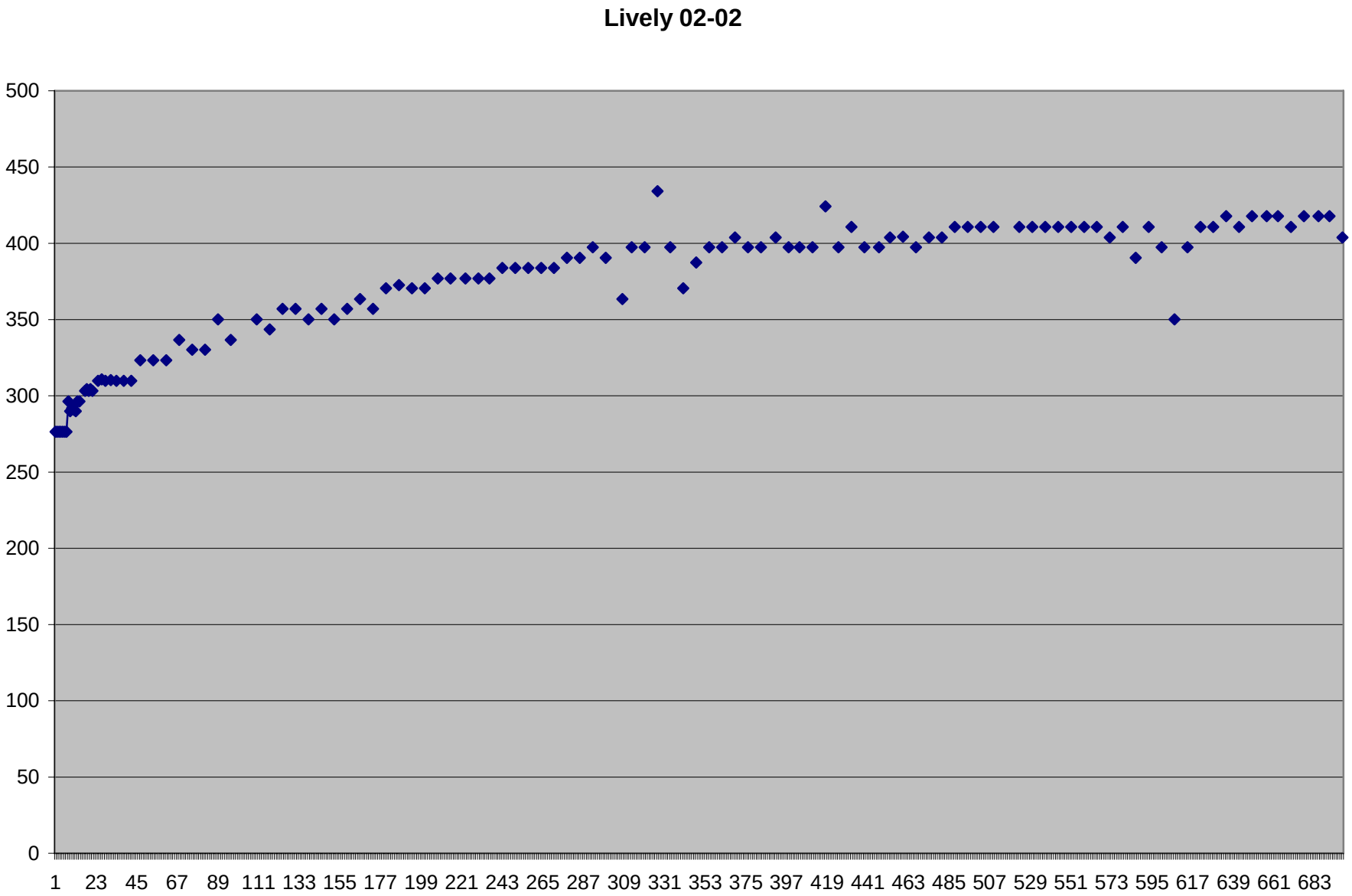
**Smith WW # 239657 Measured Gas Flow
from 8/22/07 to 6/9/09**

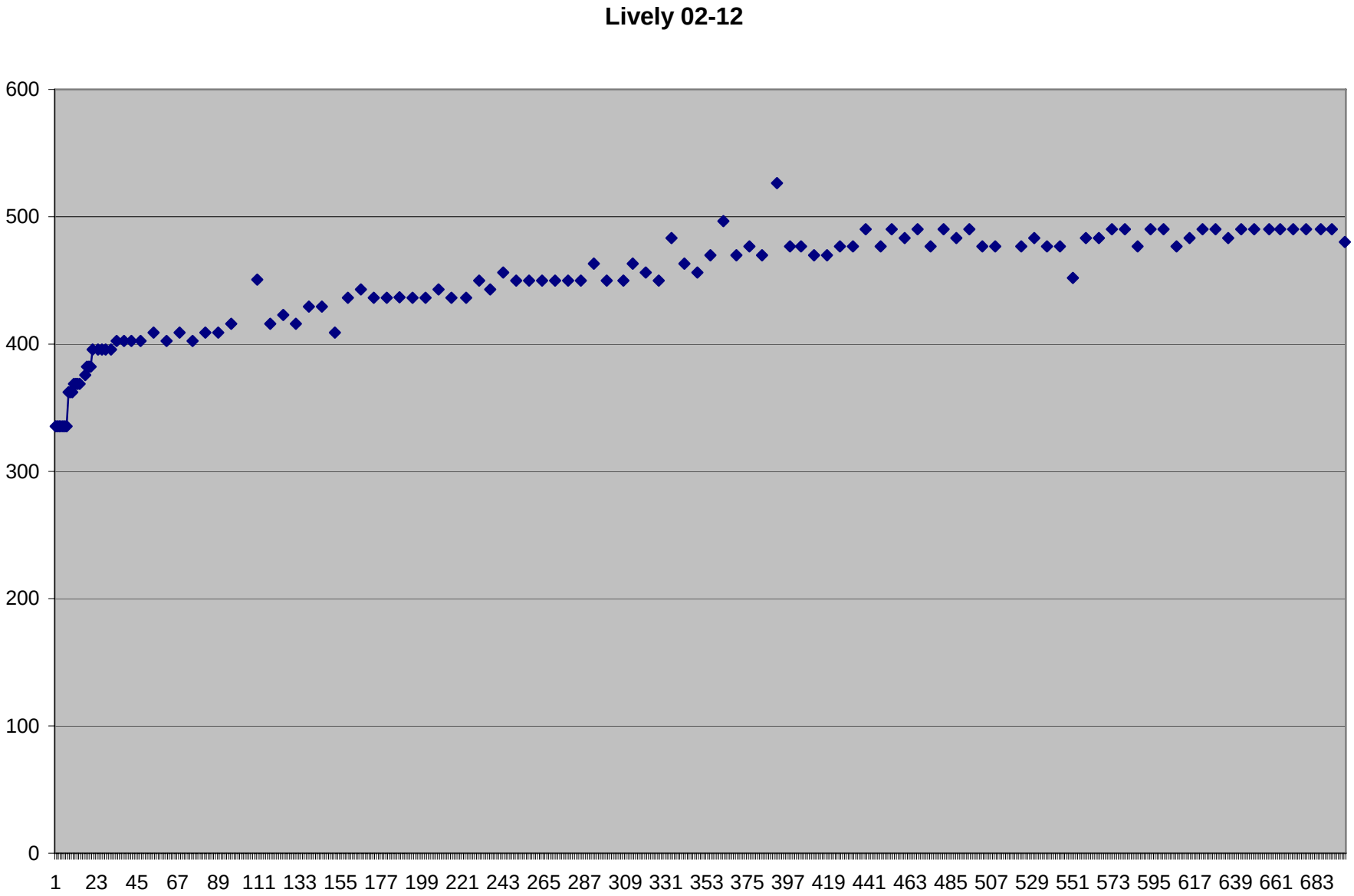


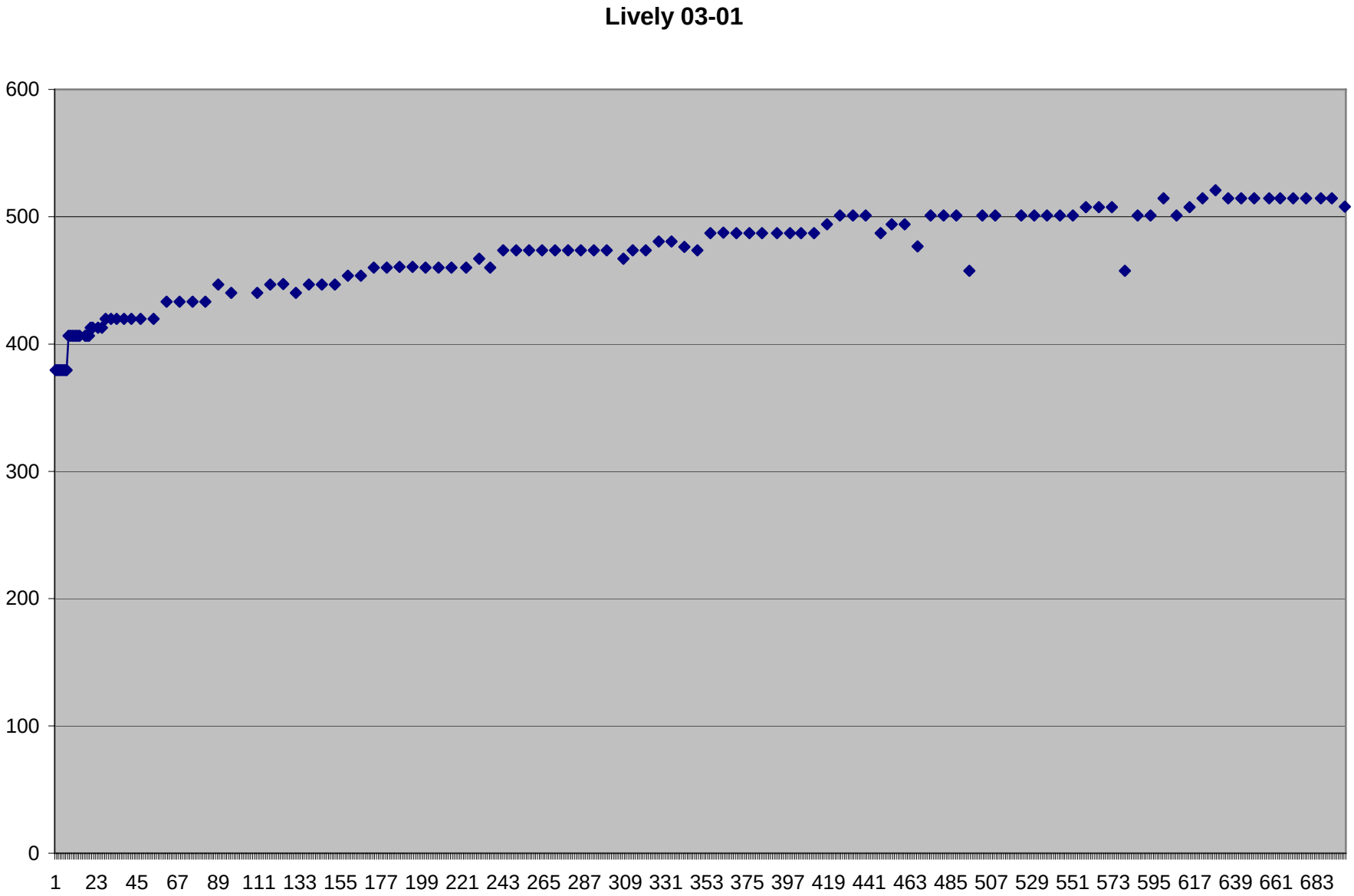
Attachment 4
Fluid Levels in Petroglyph Production Wells
(Results in psia, unless stated otherwise)

Monitor Well Fluid Levels PBU
from 1/1/07 to 6/11/09

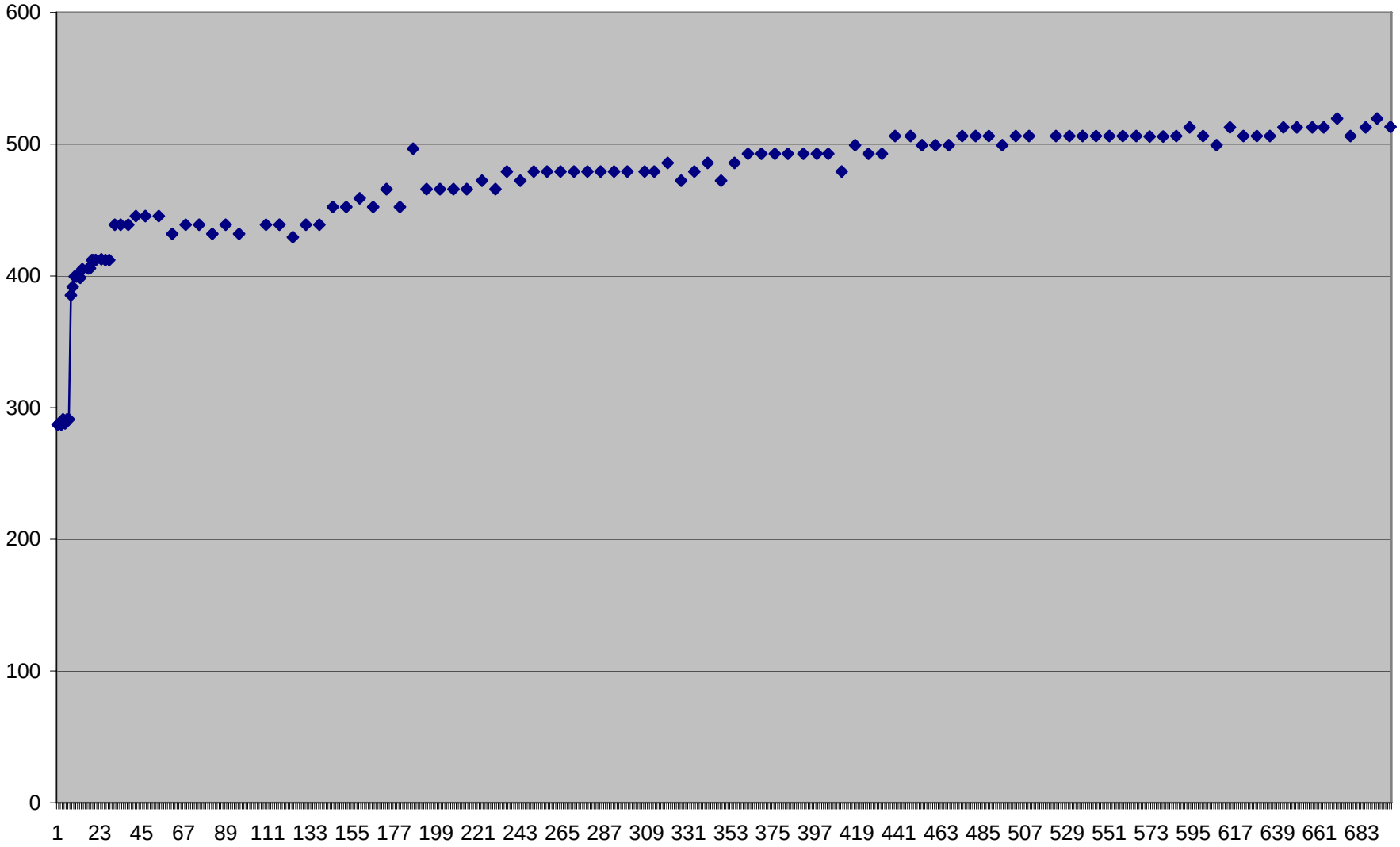



Lively 02-02
500
450
400
350
300
250
200
150
100
50
0
1
23
45
67
89
111
133
155
177
199
221
243
265
287
309
331
353
375
397
419
441
463
485
507
529
551
573
595
617
639
661
683

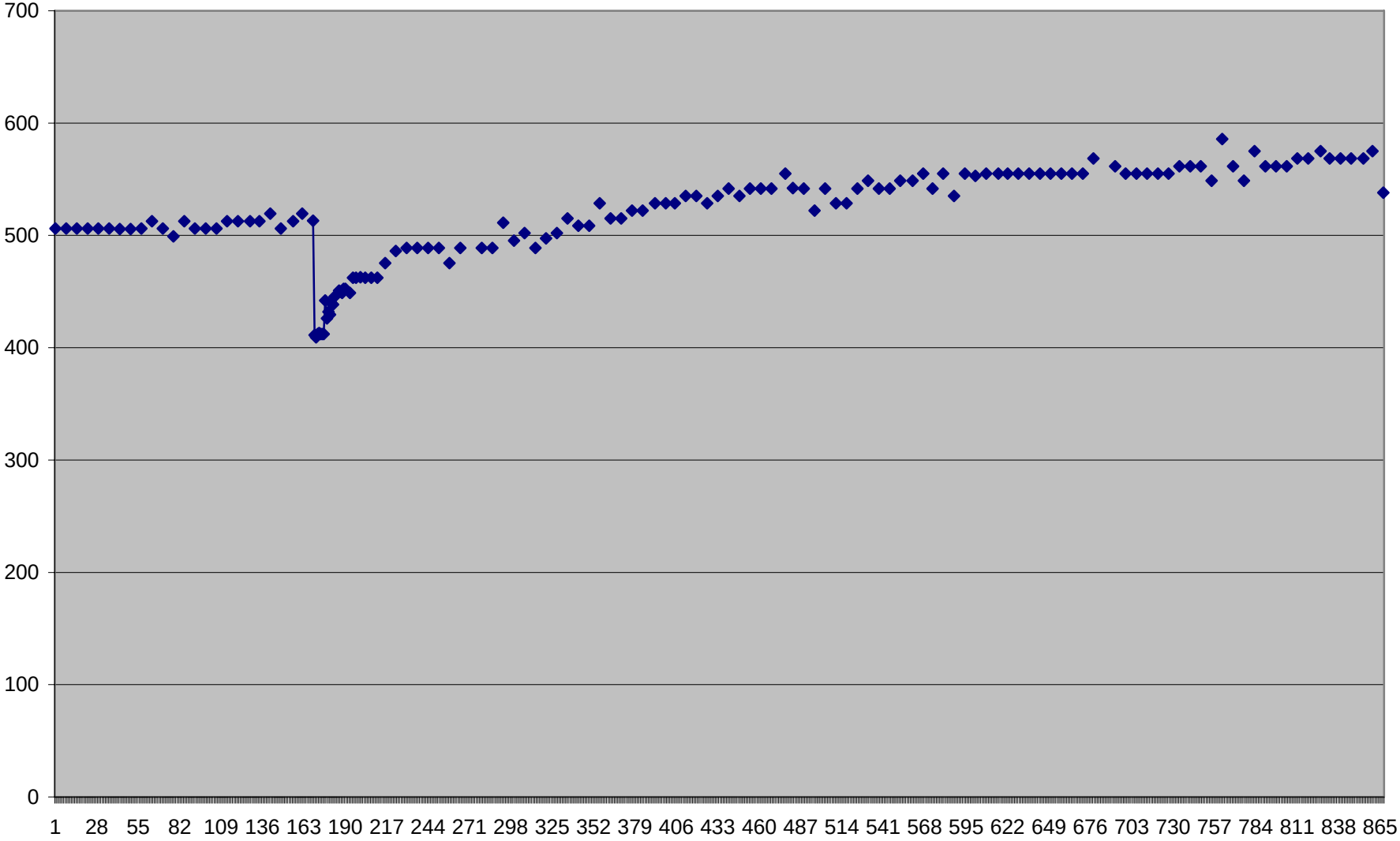

Lively 02-12
600
500
400
300
200
100
0
1
23
45
67
89
111
133
155
177
199
221
243
265
287
309
331
353
375
397
419
441
463
485
507
529
551
573
595
617
639
661
683


Lively 03-01
600
500
400
300
200
100
0
1
23
45
67
89
111
133
155
177
199
221
243
265
287
309
331
353
375
397
419
441
463
485
507
529
551
573
595
617
639
661
683

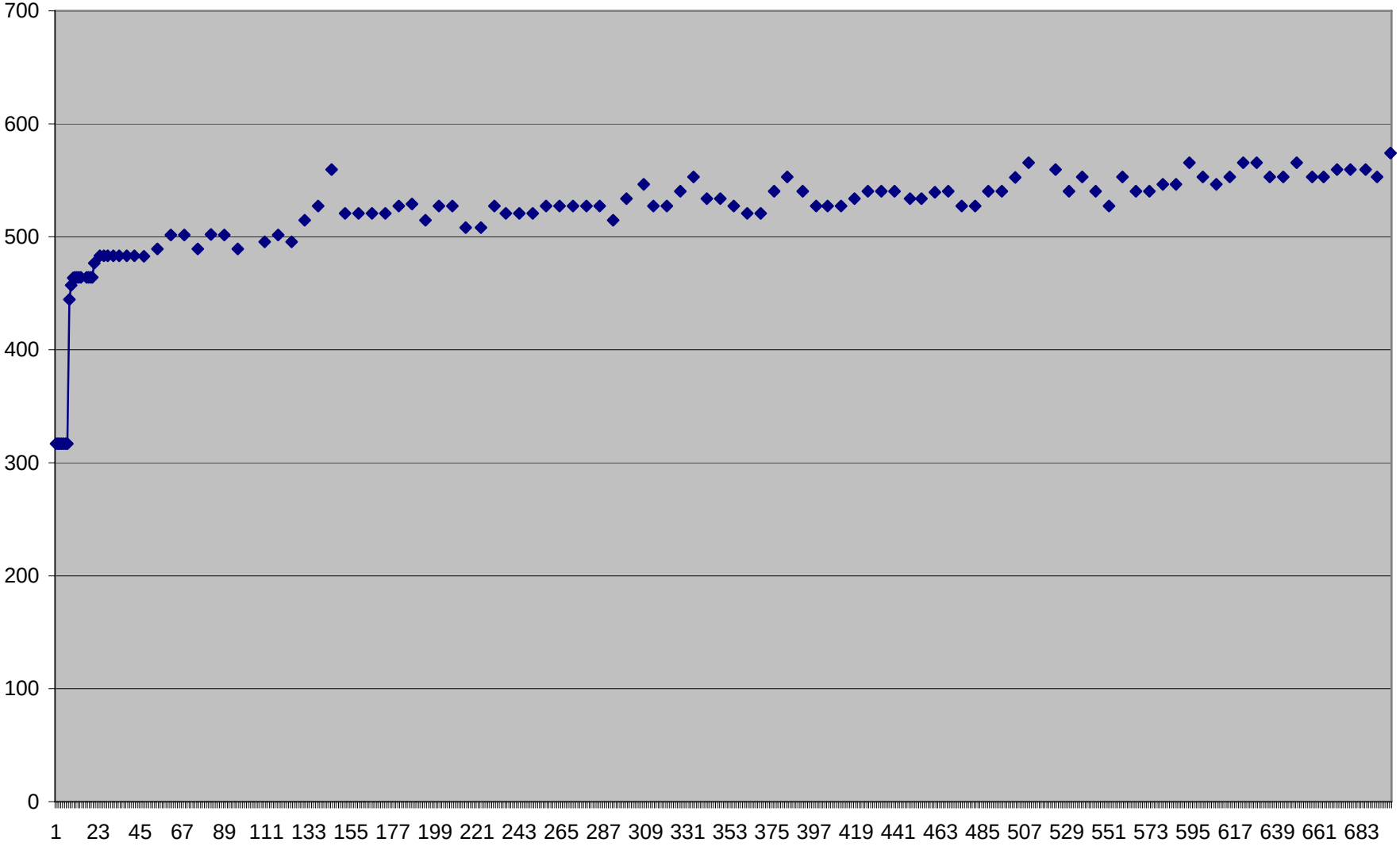
Lively 03-10


600
500
400
300
200
100
0
1
23
45
67
89
111
133
155
177
199
221
243
265
287
309
331
353
375
397
419
441
463
485
507
529
551
573
595
617
639
661
683

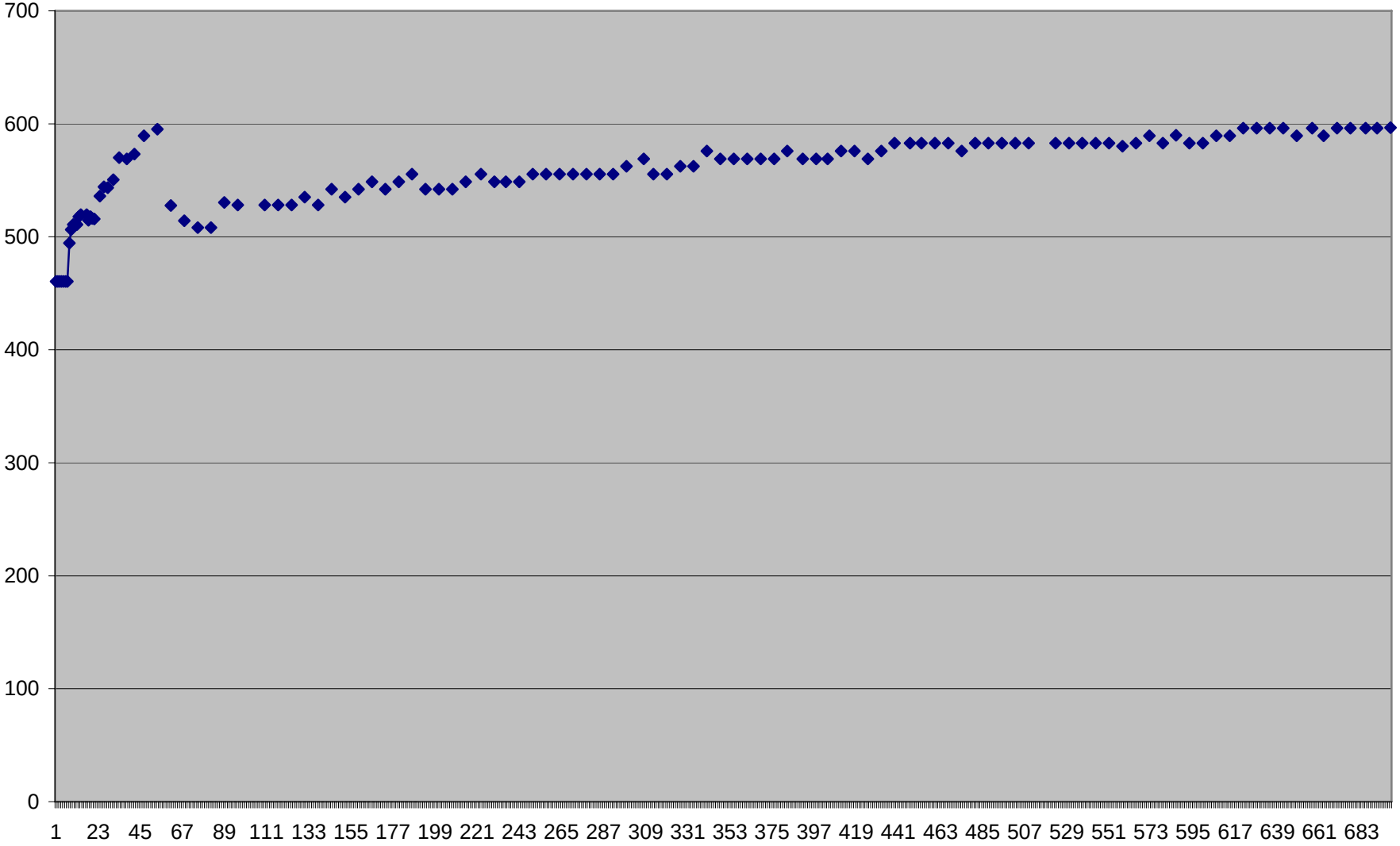
Lively 03-12


700
600
500
400
300
200
100
0
1 28 55 82 109 136 163 190 217 244 271 298 325 352 379 406 433 460 487 514 541 568 595 622 649 676 703 730 757 784 811 838 865

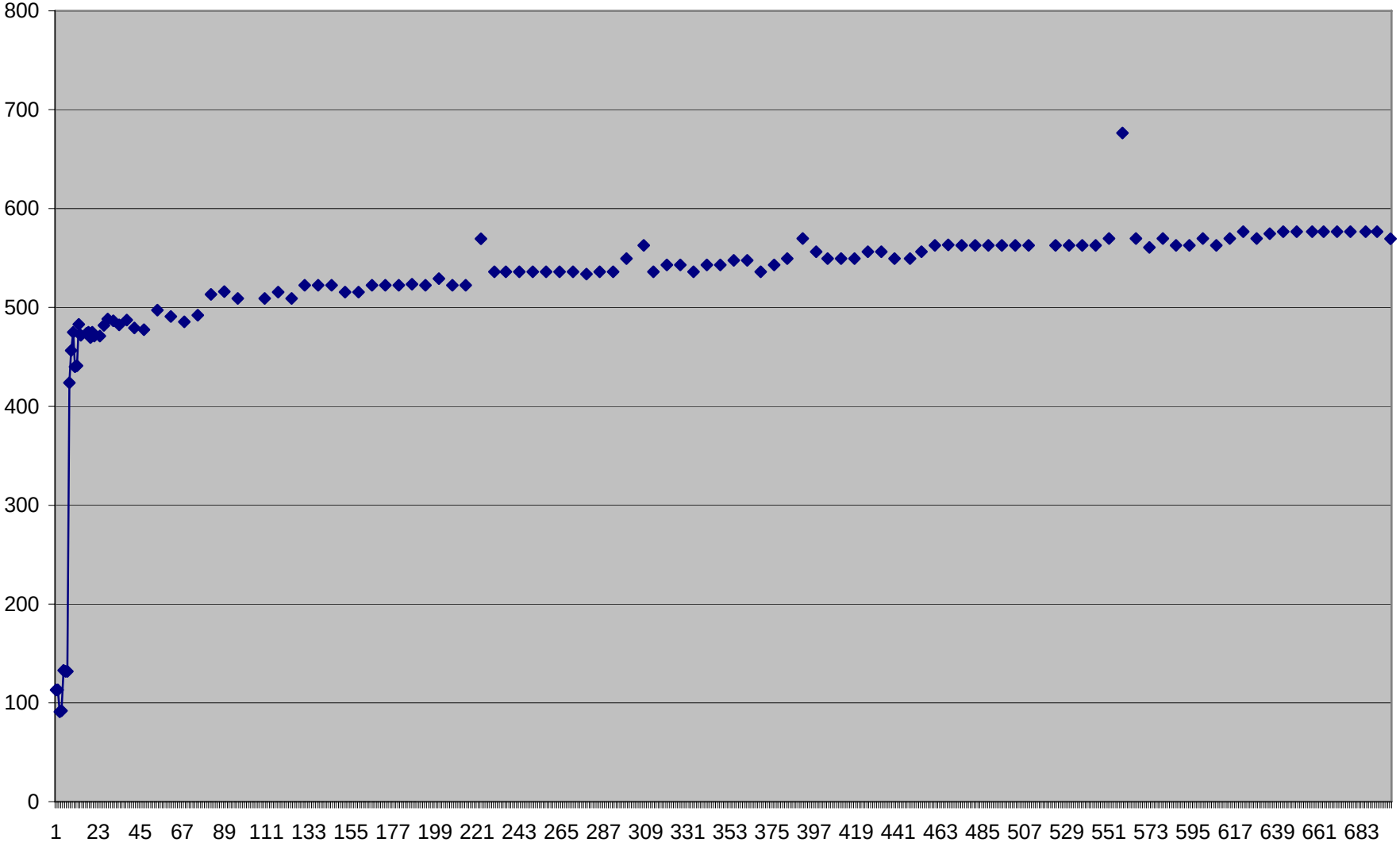
Lively 10-04

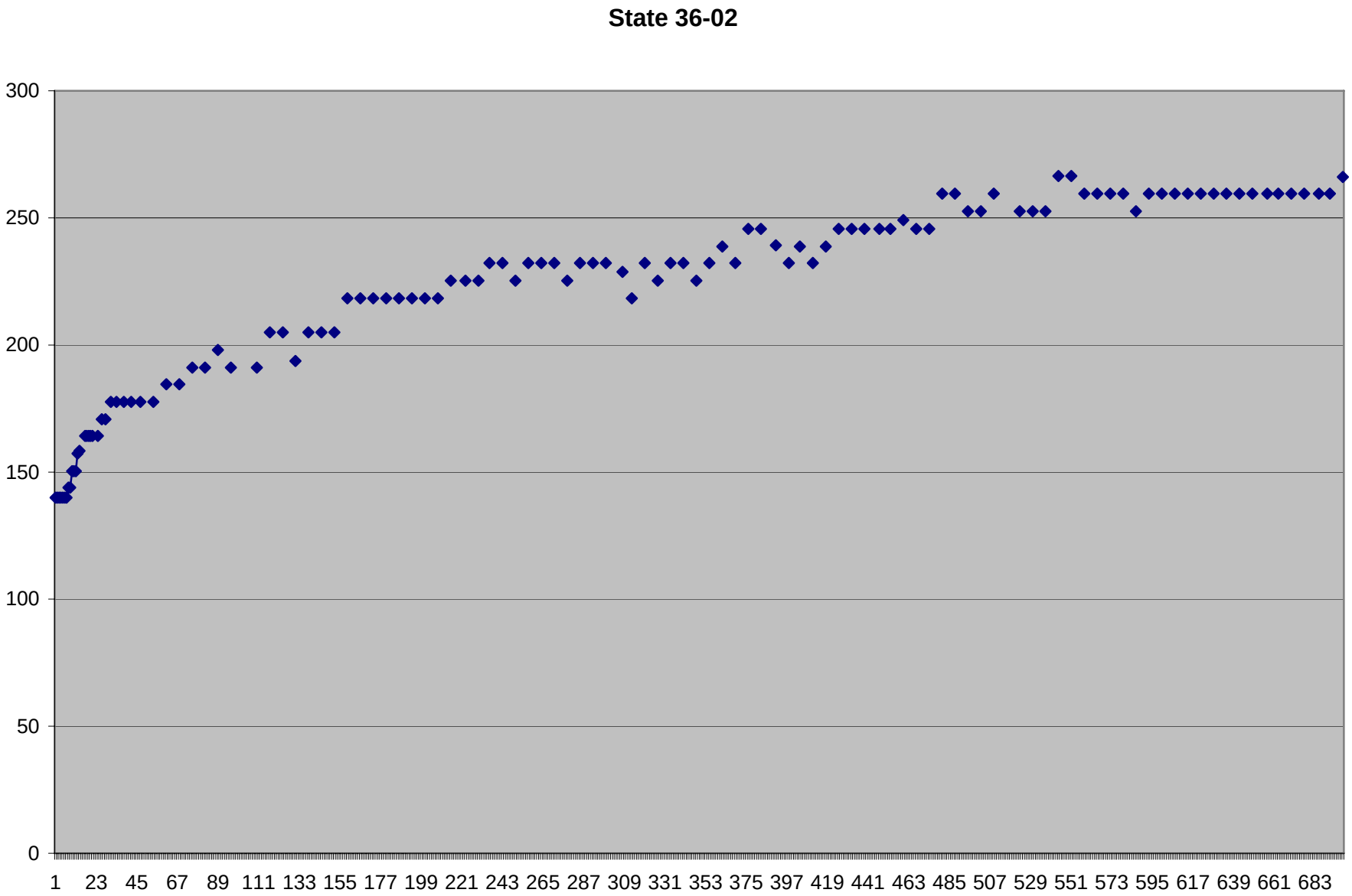

700
600
500
400
300
200
100
0
1
23
45
67
89
111
133
155
177
199
221
243
265
287
309
331
353
375
397
419
441
463
485
507
529
551
573
595
617
639
661
683

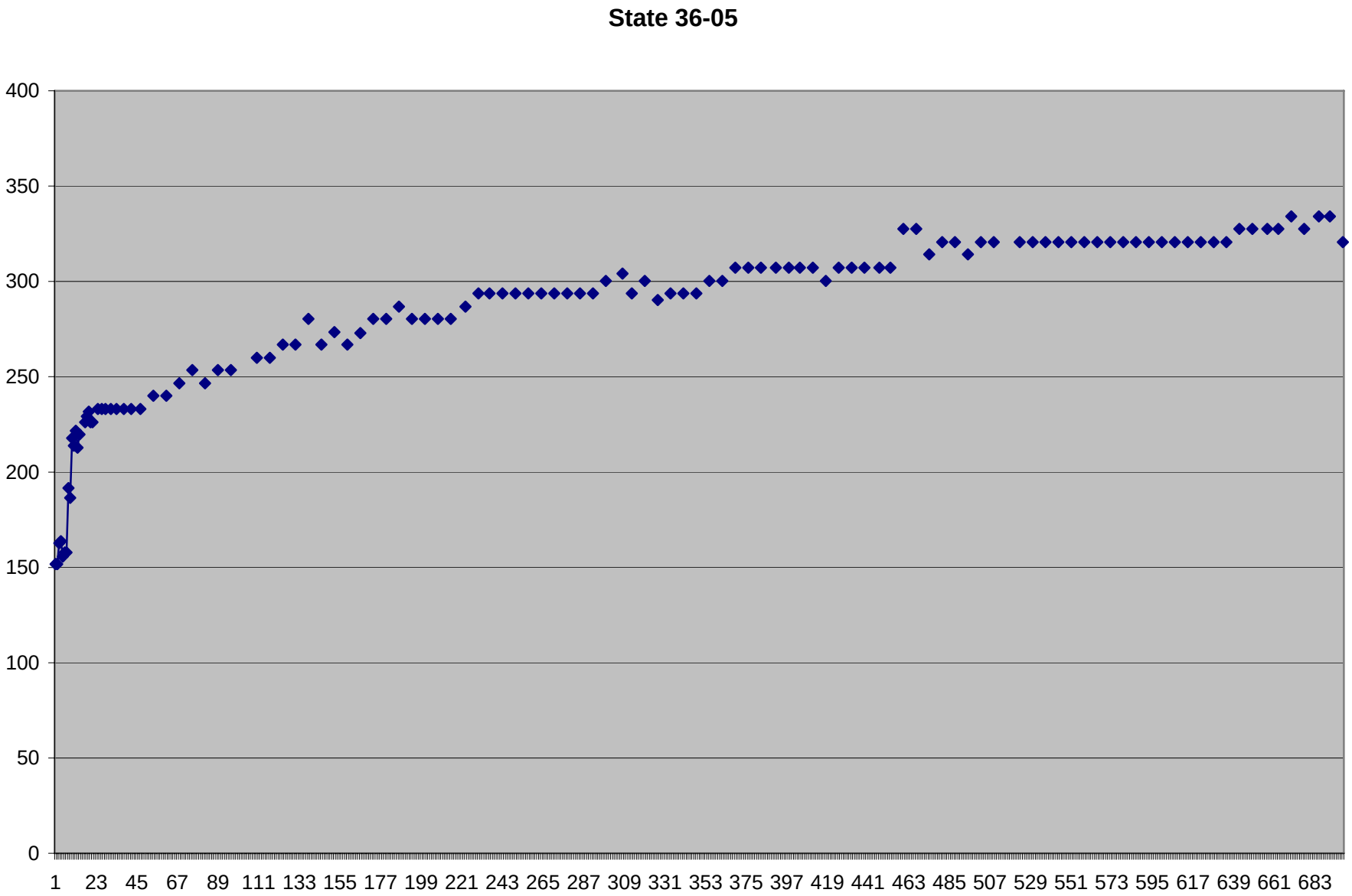
Rohr 04-10


700
600
500
400
300
200
100
0
1
23
45
67
89
111
133
155
177
199
221
243
265
287
309
331
353
375
397
419
441
463
485
507
529
551
573
595
617
639
661
683

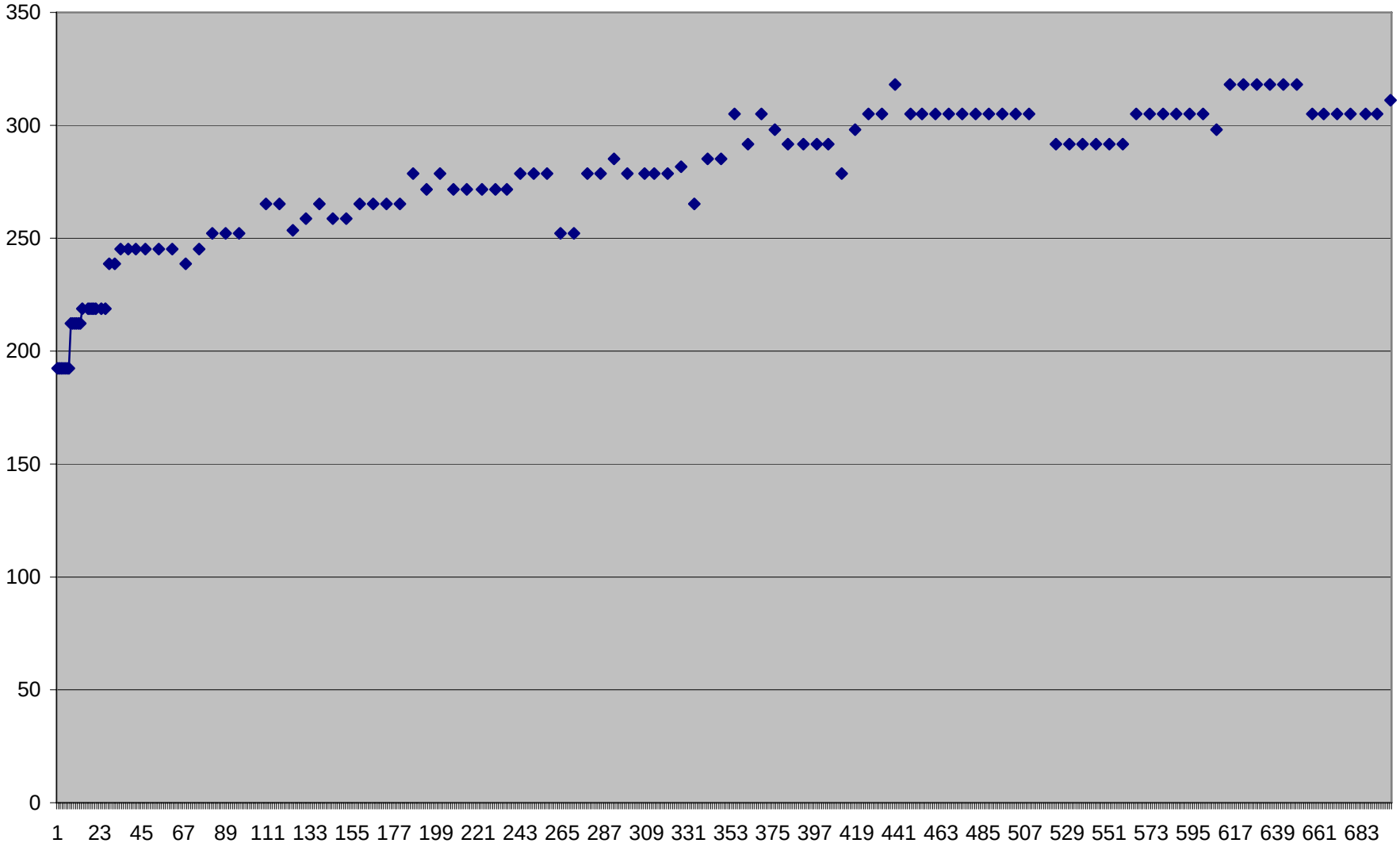
Rohr 09-10


800
700
600
500
400
300
200
100
0
1
23
45
67
89
111
133
155
177
199
221
243
265
287
309
331
353
375
397
419
441
463
485
507
529
551
573
595
617
639
661
683

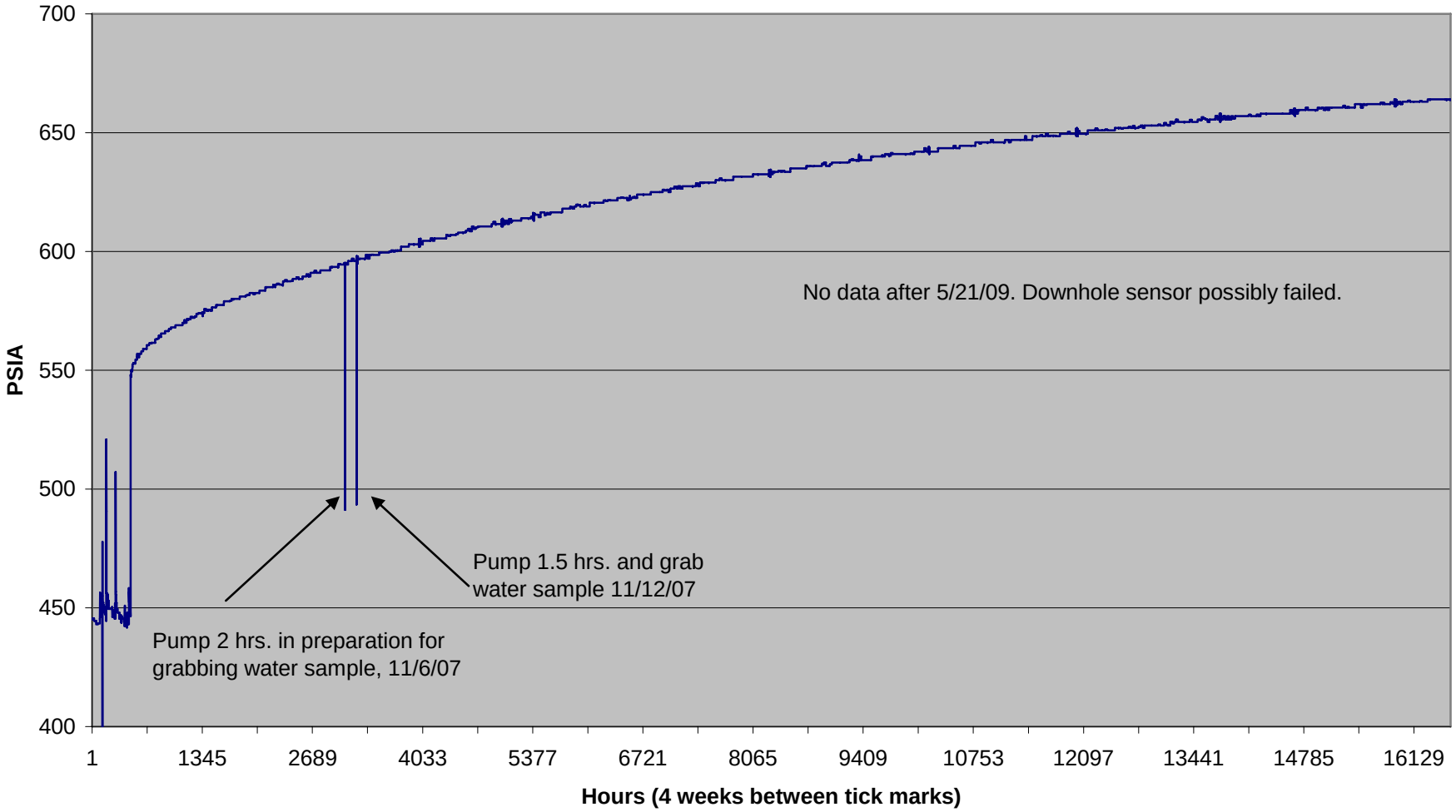

State 36-02
300
250
200
150
100
50
0
1
23
45
67
89
111
133
155
177
199
221
243
265
287
309
331
353
375
397
419
441
463
485
507
529
551
573
595
617
639
661
683


State 36-05
400
350
300
250
200
150
100
50
0
1
23
45
67
89
111
133
155
177
199
221
243
265
287
309
331
353
375
397
419
441
463
485
507
529
551
573
595
617
639
661
683

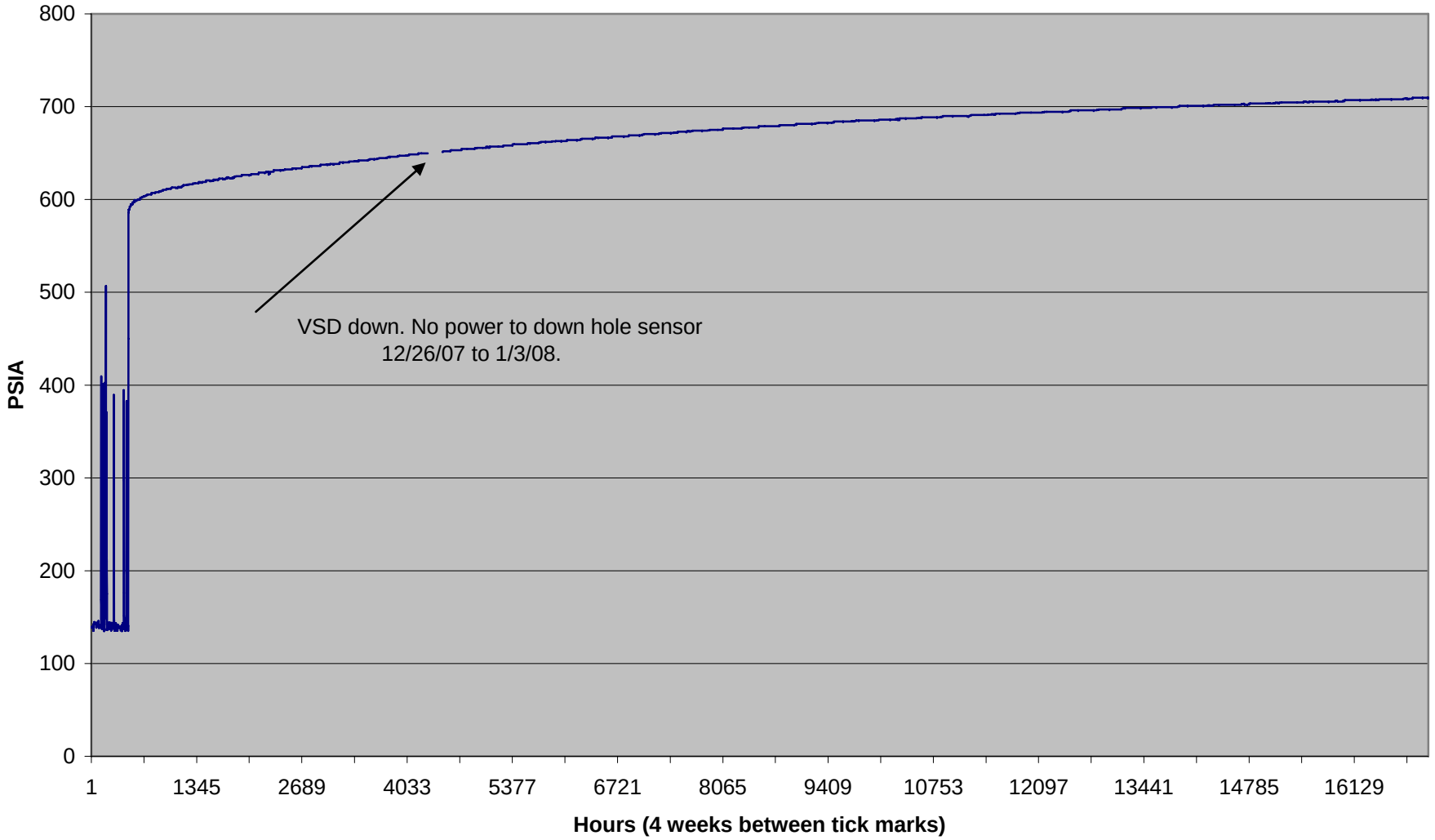
State 36-11


350
300
250
200
150
100
50
0
1
23
45
67
89
111
133
155
177
199
221
243
265
287
309
331
353
375
397
419
441
463
485
507
529
551
573
595
617
639
661
683

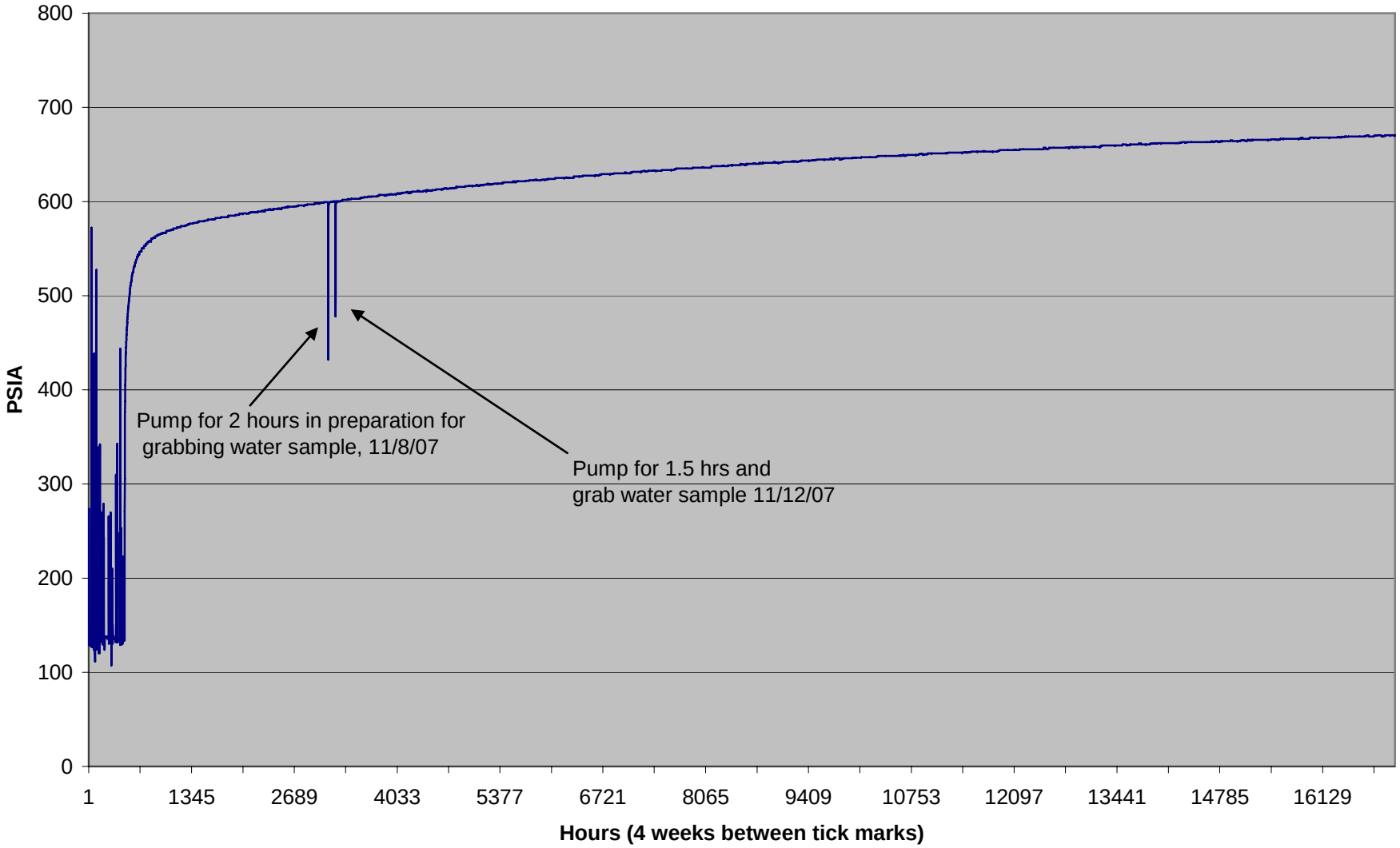
Rohr 04-14 PBU
from 7/1/07 to 5/21/09



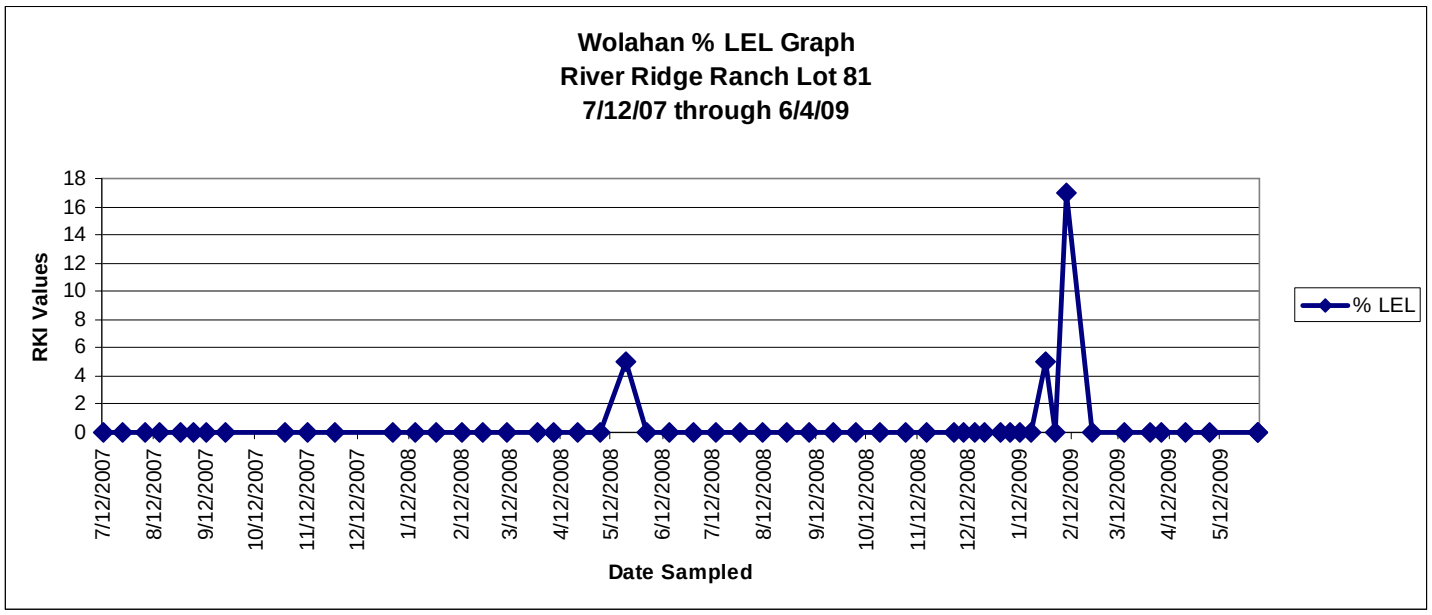
Rohr 08-01 PBU
from 7/1/07 to 6/11/09

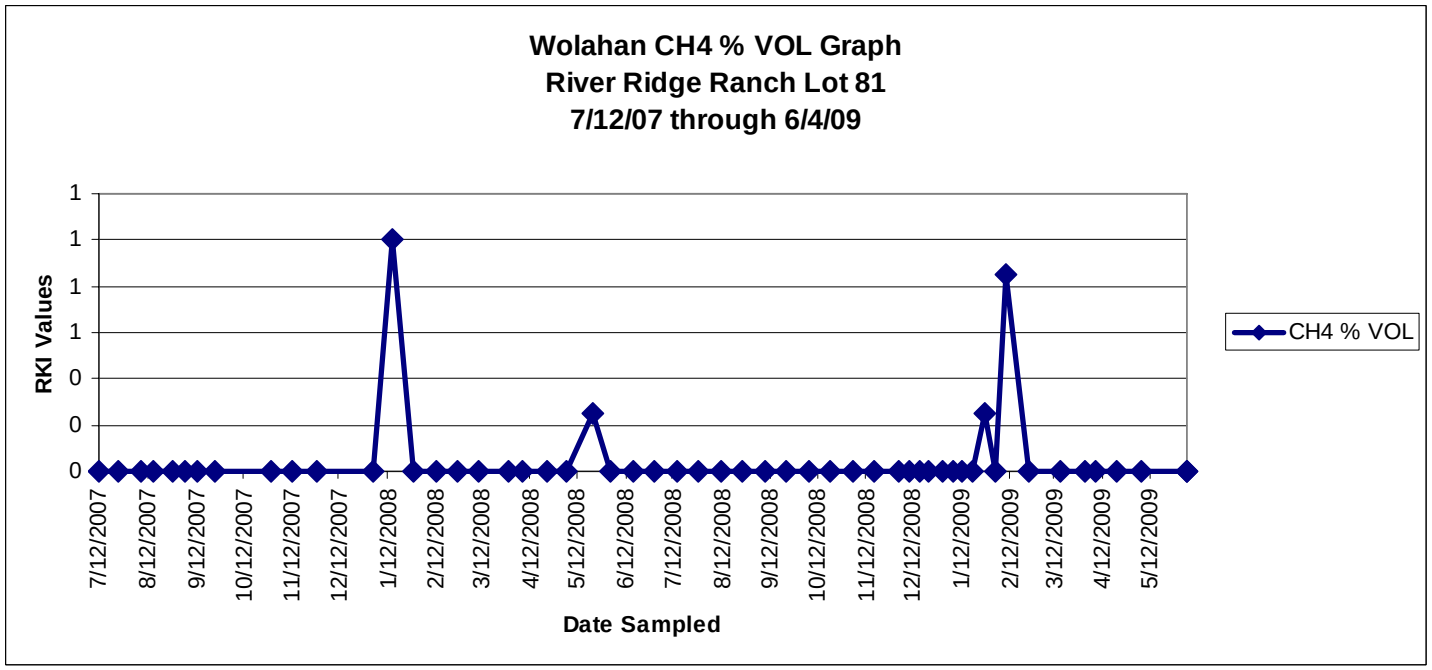


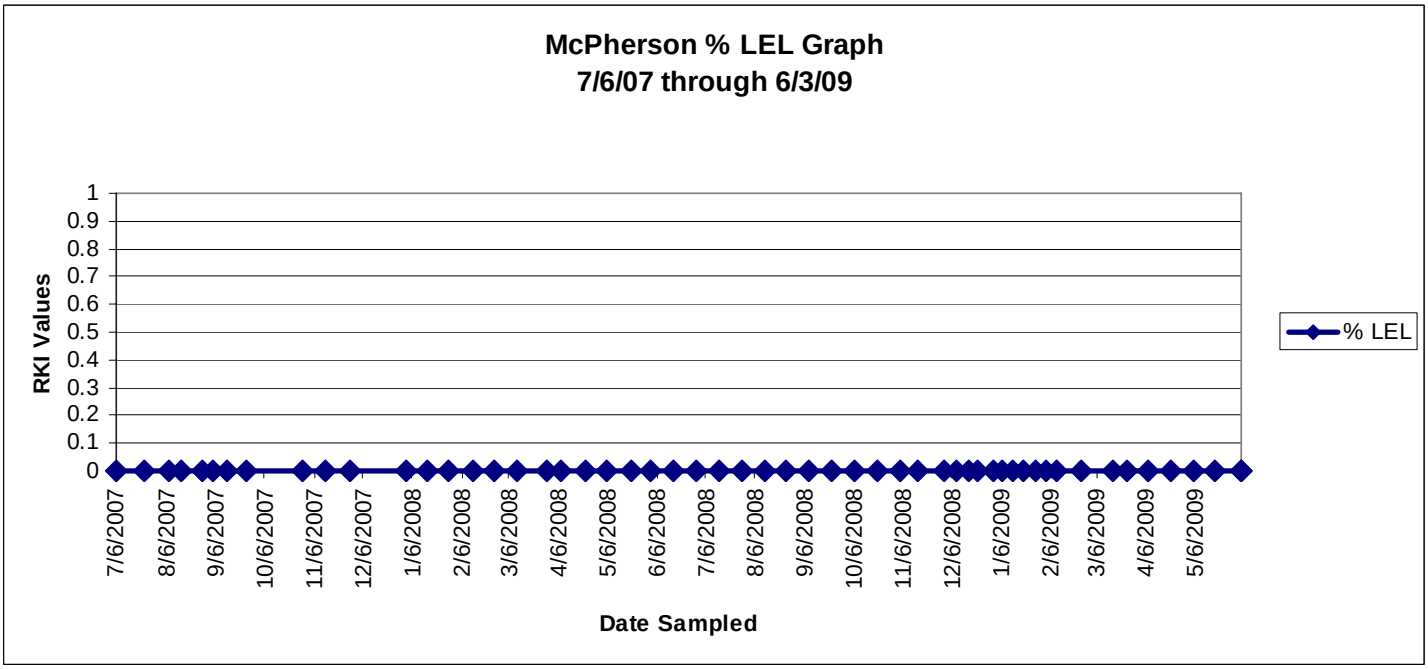
Rohr 09-04 PBU data (psia) 7/1/07 to 6/11/09

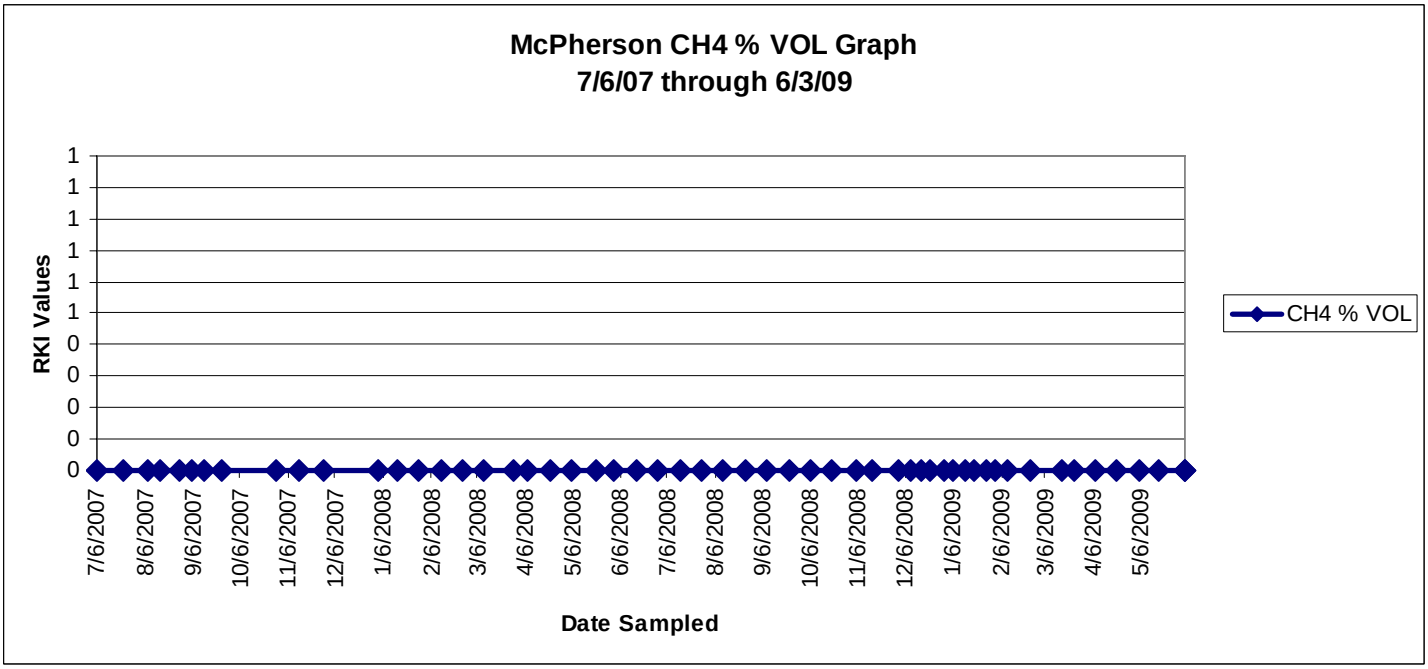


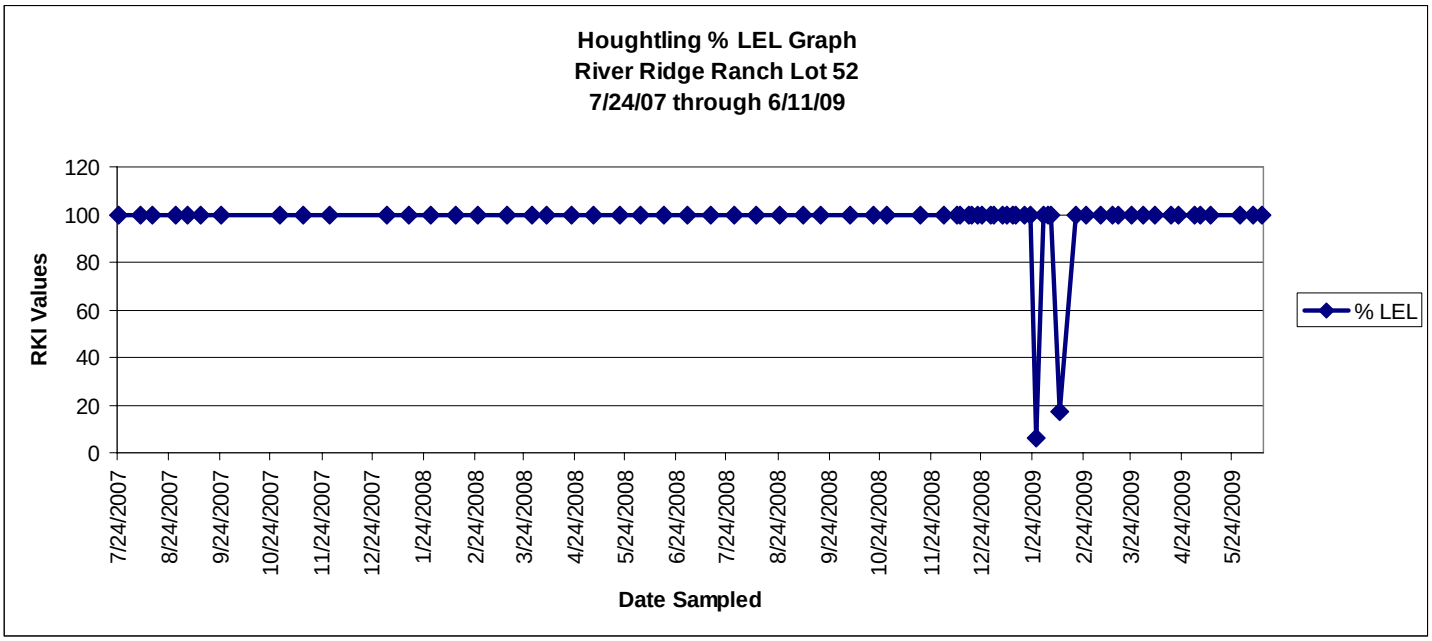
Attachment 5
Gas Concentrations in
Private Water Wells near the Mitigation Project

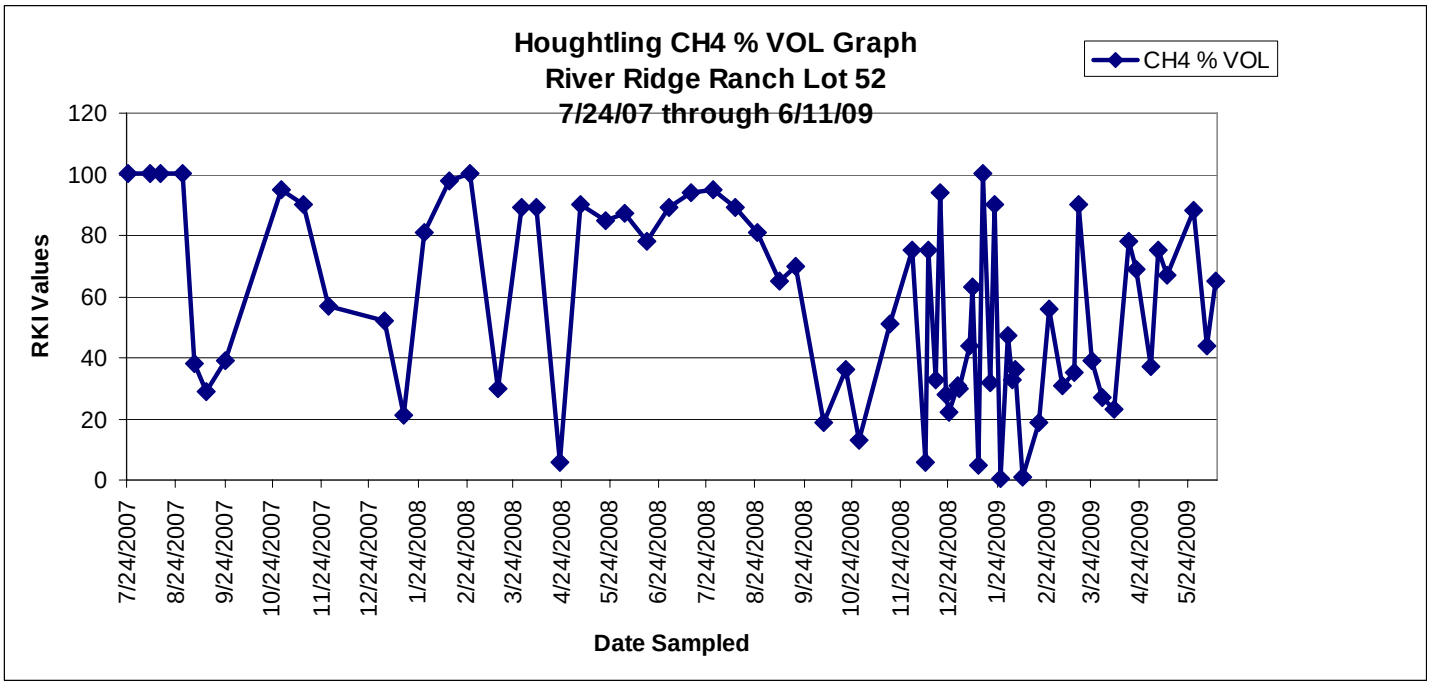

Wolahan % LEL Graph
River Ridge Ranch Lot 81
7/12/07 through 6/4/09
RKI Values
18
16
14
12
10
8
6
4
2
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
Date Sampled
% LEL

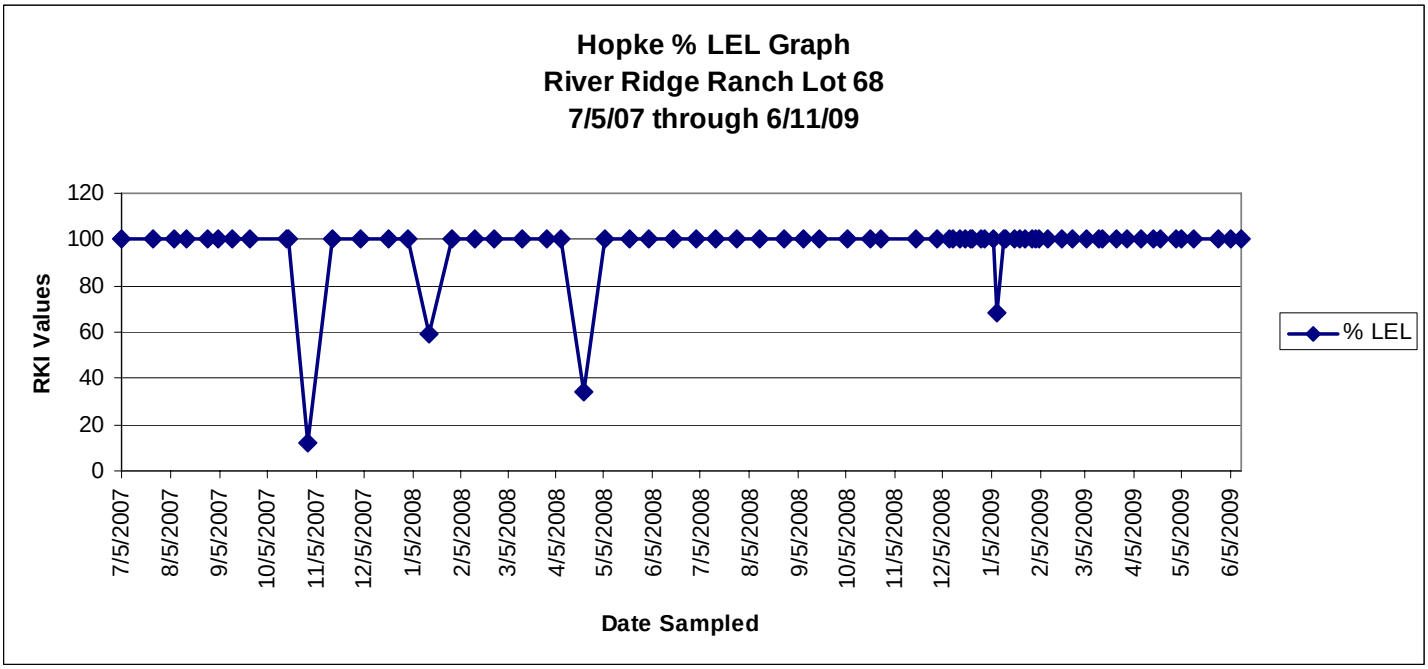

Wolahan CH4 % VOL Graph
River Ridge Ranch Lot 81
7/12/07 through 6/4/09
RKI Values
1
1
1
1
0
0
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
Date Sampled
CH4 % VOL

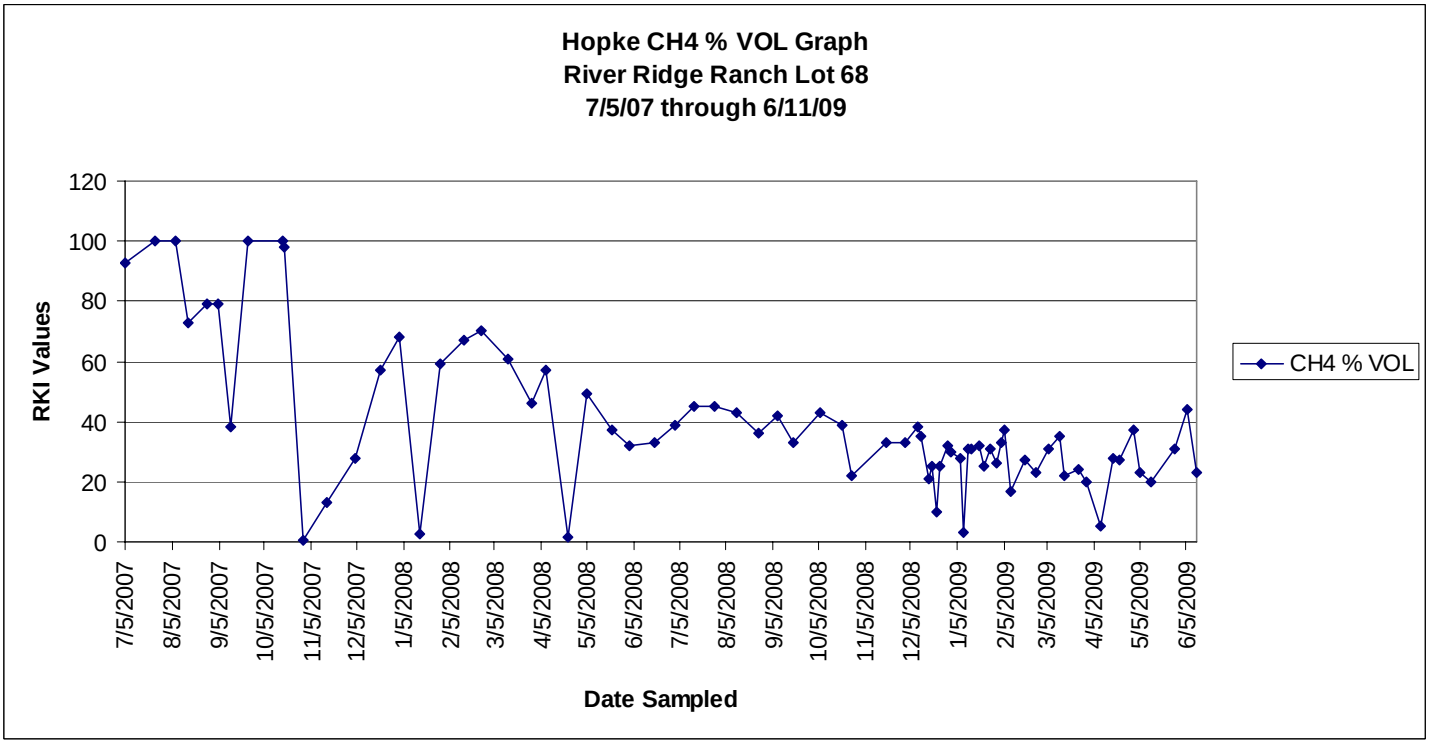

McPherson % LEL Graph
7/6/07 through 6/3/09
RKI Values
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
7/6/2007
8/6/2007
9/6/2007
10/6/2007
11/6/2007
12/6/2007
1/6/2008
2/6/2008
3/6/2008
4/6/2008
5/6/2008
6/6/2008
7/6/2008
8/6/2008
9/6/2008
10/6/2008
11/6/2008
12/6/2008
1/6/2009
2/6/2009
3/6/2009
4/6/2009
5/6/2009
Date Sampled
% LEL

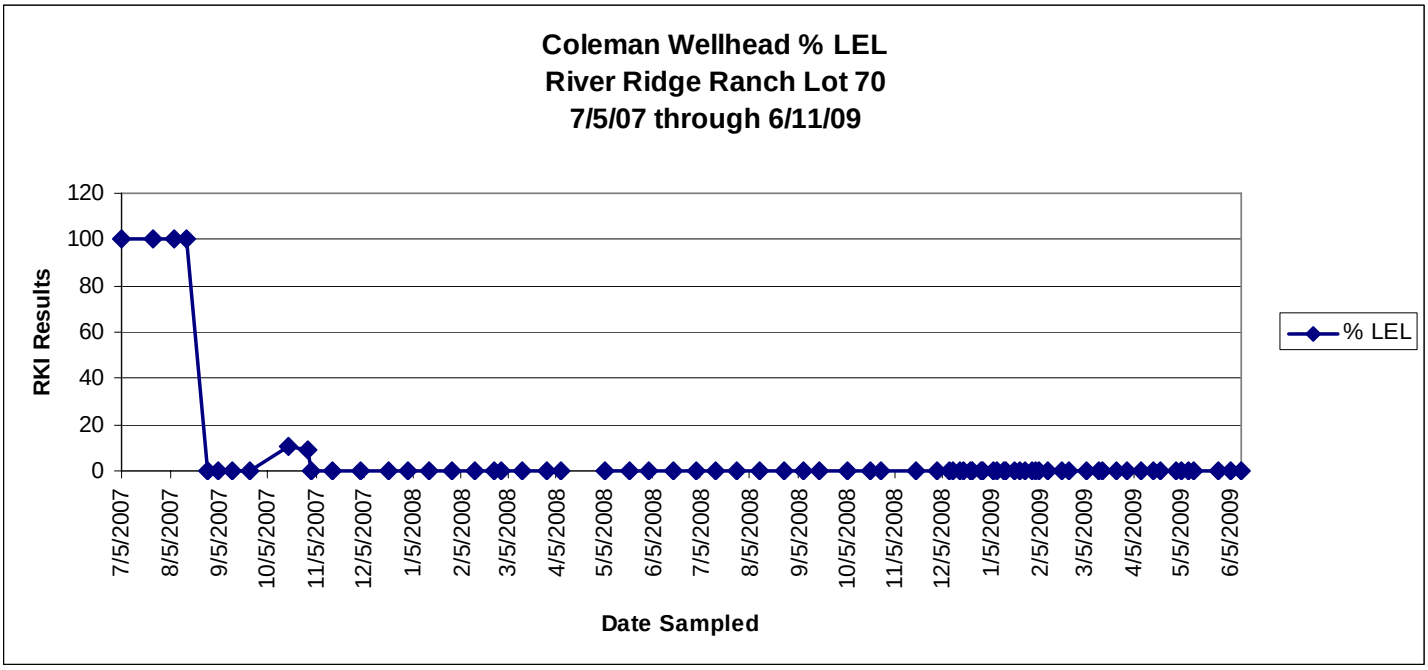

McPherson CH4 % VOL Graph
7/6/07 through 6/3/09
RKI Values
1
1
1
1
1
1
0
0
0
0
0
7/6/2007
8/6/2007
9/6/2007
10/6/2007
11/6/2007
12/6/2007
1/6/2008
2/6/2008
3/6/2008
4/6/2008
5/6/2008
6/6/2008
7/6/2008
8/6/2008
9/6/2008
10/6/2008
11/6/2008
12/6/2008
1/6/2009
2/6/2009
3/6/2009
4/6/2009
5/6/2009
Date Sampled
CH4 % VOL

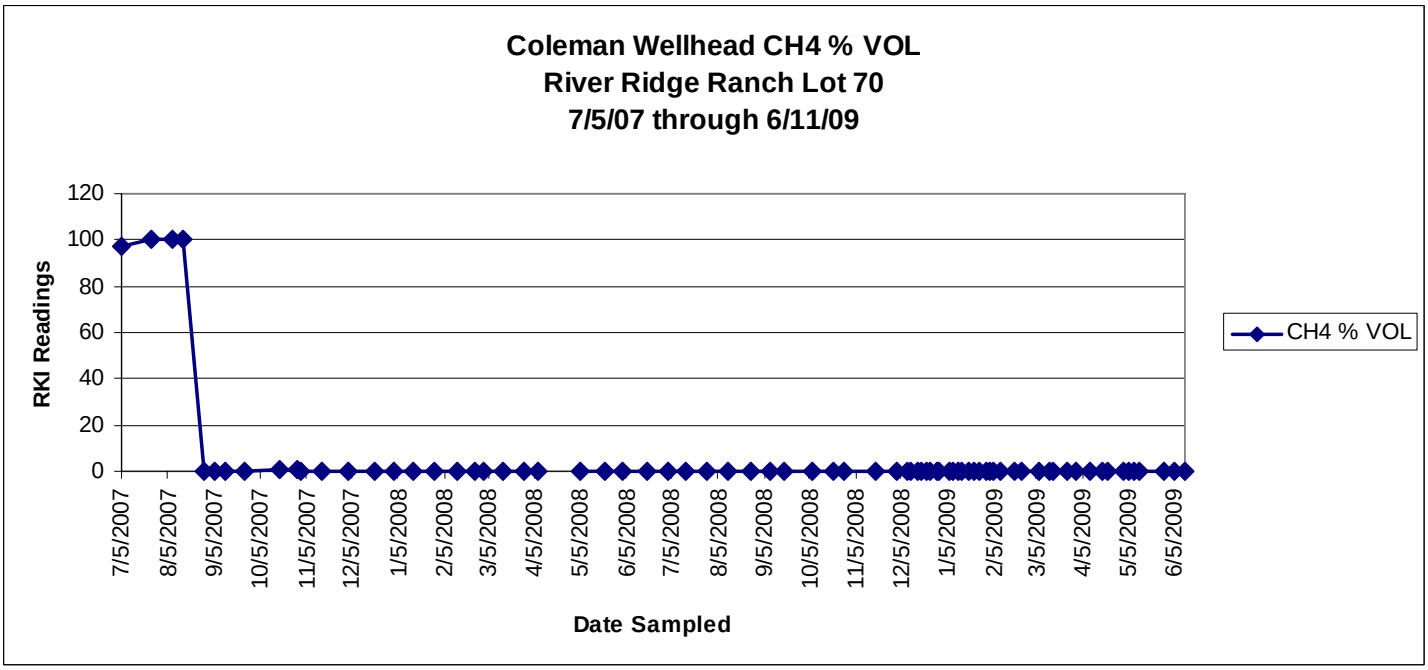

Houghtling % LEL Graph
River Ridge Ranch Lot 52
7/24/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
7/24/2007
8/24/2007
9/24/2007
10/24/2007
11/24/2007
12/24/2007
1/24/2008
2/24/2008
3/24/2008
4/24/2008
5/24/2008
6/24/2008
7/24/2008
8/24/2008
9/24/2008
10/24/2008
11/24/2008
12/24/2008
1/24/2009
2/24/2009
3/24/2009
4/24/2009
5/24/2009
Date Sampled
% LEL

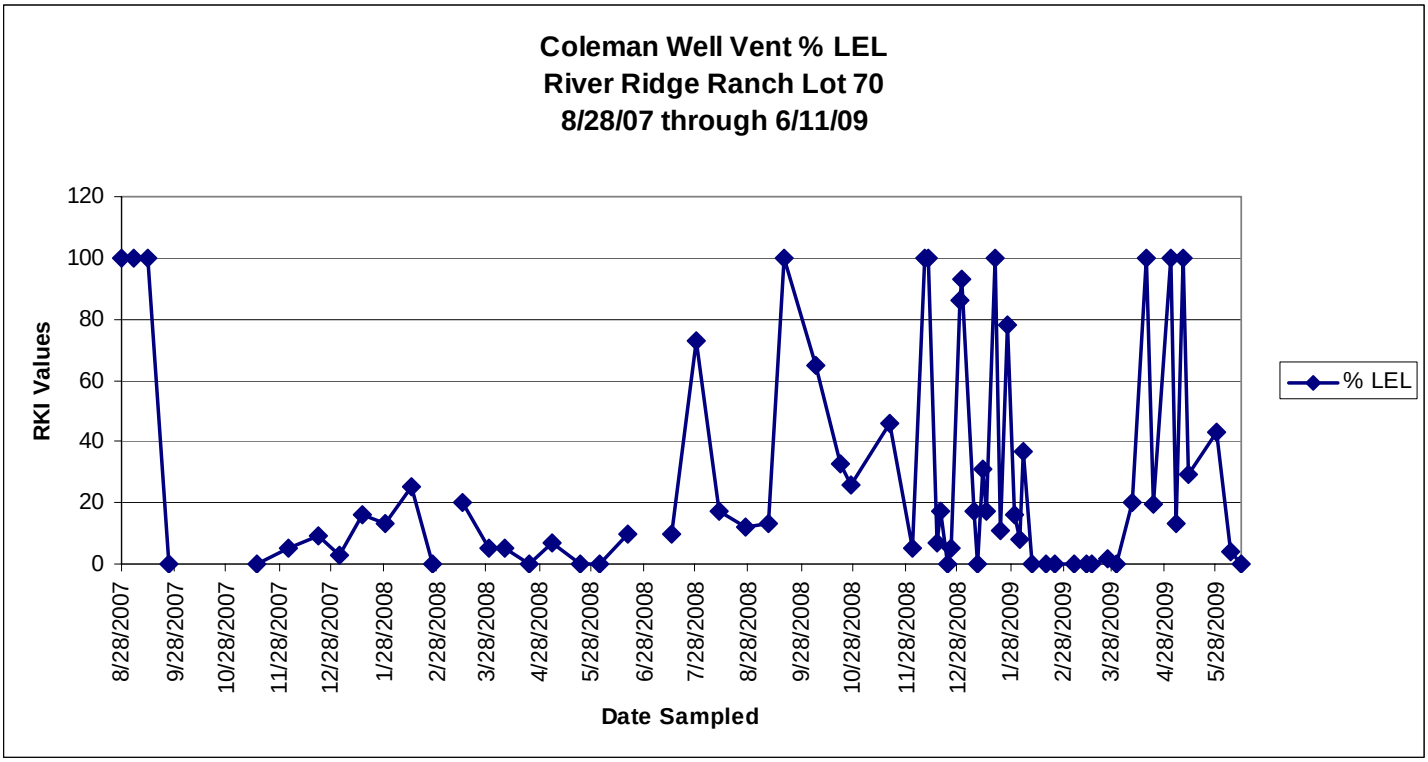

Houghtling CH4 % VOL Graph
River Ridge Ranch Lot 52
7/24/07 through 6/11/09
CH4 % VOL
RKI Values
120
100
80
60
40
20
0
7/24/2007
8/24/2007
9/24/2007
10/24/2007
11/24/2007
12/24/2007
1/24/2008
2/24/2008
3/24/2008
4/24/2008
5/24/2008
6/24/2008
7/24/2008
8/24/2008
9/24/2008
10/24/2008
11/24/2008
12/24/2008
1/24/2009
2/24/2009
3/24/2009
4/24/2009
5/24/2009
Date Sampled

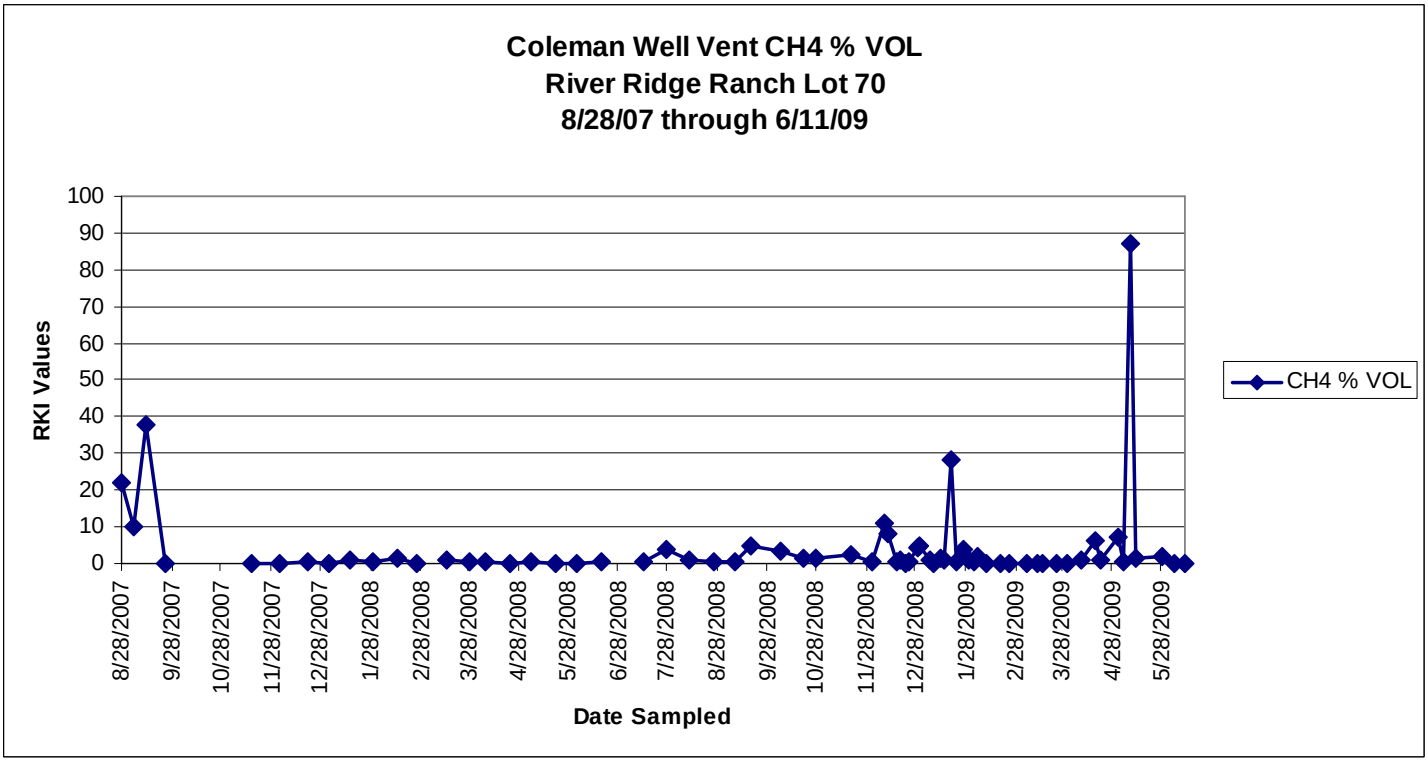

Hopke % LEL Graph
River Ridge Ranch Lot 68
7/5/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
7/5/2007
8/5/2007
9/5/2007
10/5/2007
11/5/2007
12/5/2007
1/5/2008
2/5/2008
3/5/2008
4/5/2008
5/5/2008
6/5/2008
7/5/2008
8/5/2008
9/5/2008
10/5/2008
11/5/2008
12/5/2008
1/5/2009
2/5/2009
3/5/2009
4/5/2009
5/5/2009
6/5/2009
Date Sampled
% LEL

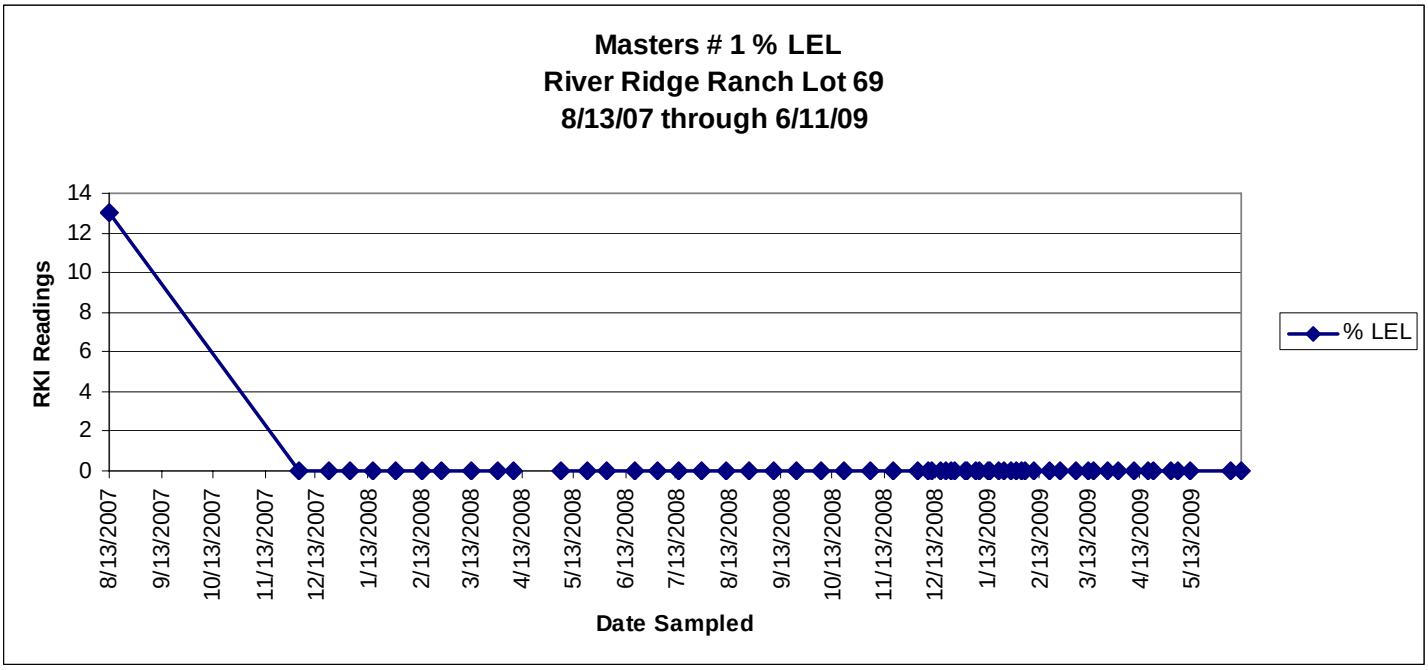

Hopke CH4 % VOL Graph
River Ridge Ranch Lot 68
7/5/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
7/5/2007
8/5/2007
9/5/2007
10/5/2007
11/5/2007
12/5/2007
1/5/2008
2/5/2008
3/5/2008
4/5/2008
5/5/2008
6/5/2008
7/5/2008
8/5/2008
9/5/2008
10/5/2008
11/5/2008
12/5/2008
1/5/2009
2/5/2009
3/5/2009
4/5/2009
5/5/2009
6/5/2009
Date Sampled
CH4 % VOL

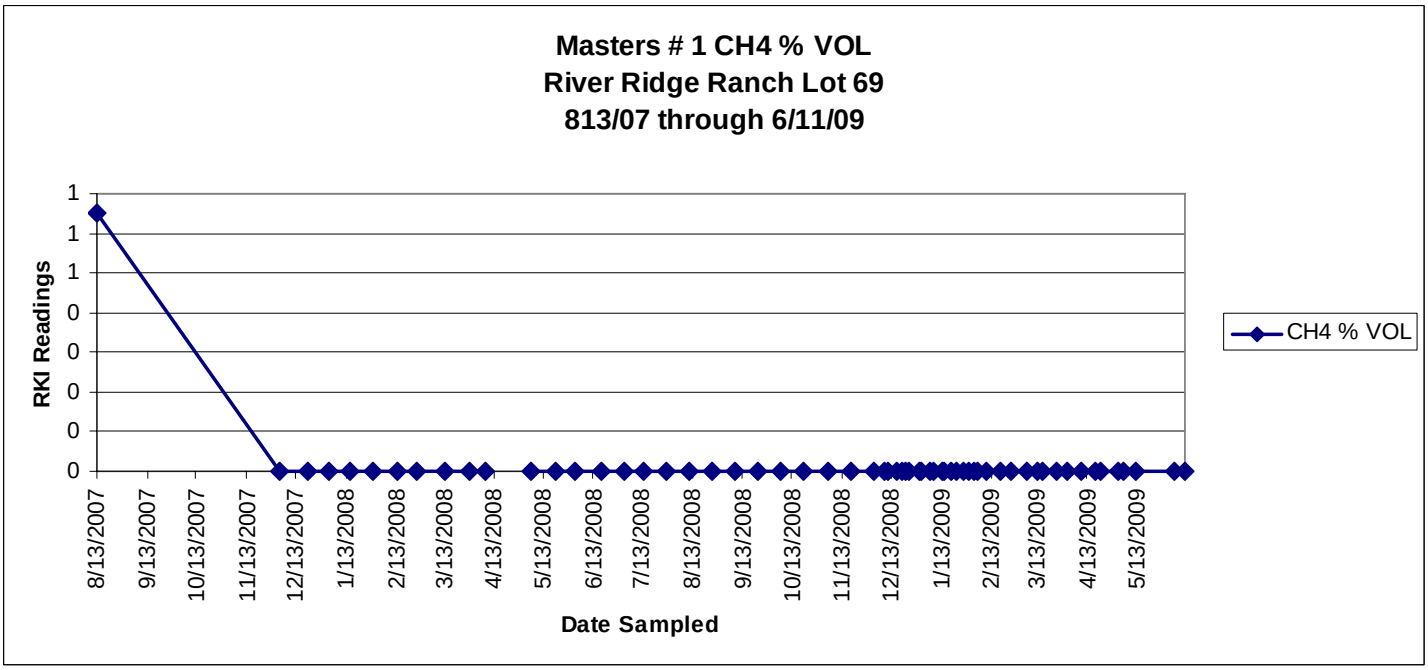

Coleman Wellhead % LEL
River Ridge Ranch Lot 70
7/5/07 through 6/11/09
RKI Results
120
100
80
60
40
20
0
7/5/2007
8/5/2007
9/5/2007
10/5/2007
11/5/2007
12/5/2007
1/5/2008
2/5/2008
3/5/2008
4/5/2008
5/5/2008
6/5/2008
7/5/2008
8/5/2008
9/5/2008
10/5/2008
11/5/2008
12/5/2008
1/5/2009
2/5/2009
3/5/2009
4/5/2009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

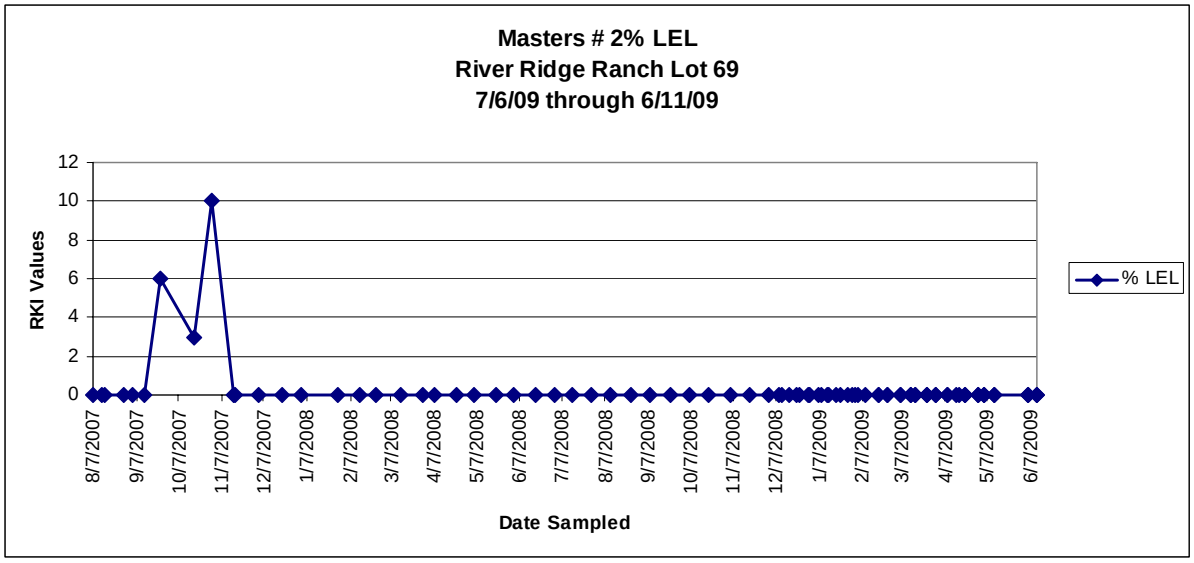

Coleman Wellhead CH4 % VOL
River Ridge Ranch Lot 70
7/5/07 through 6/11/09
RKI Readings
120
100
80
60
40
20
0
7/5/2007
8/5/2007
9/5/2007
10/5/2007
11/5/2007
12/5/2007
1/5/2008
2/5/2008
3/5/2008
4/5/2008
5/5/2008
6/5/2008
7/5/2008
8/5/2008
9/5/2008
10/5/2008
11/5/2008
12/5/2008
1/5/2009
2/5/2009
3/5/2009
4/5/2009
5/5/2009
6/5/2009
Date Sampled
CH4 % VOL

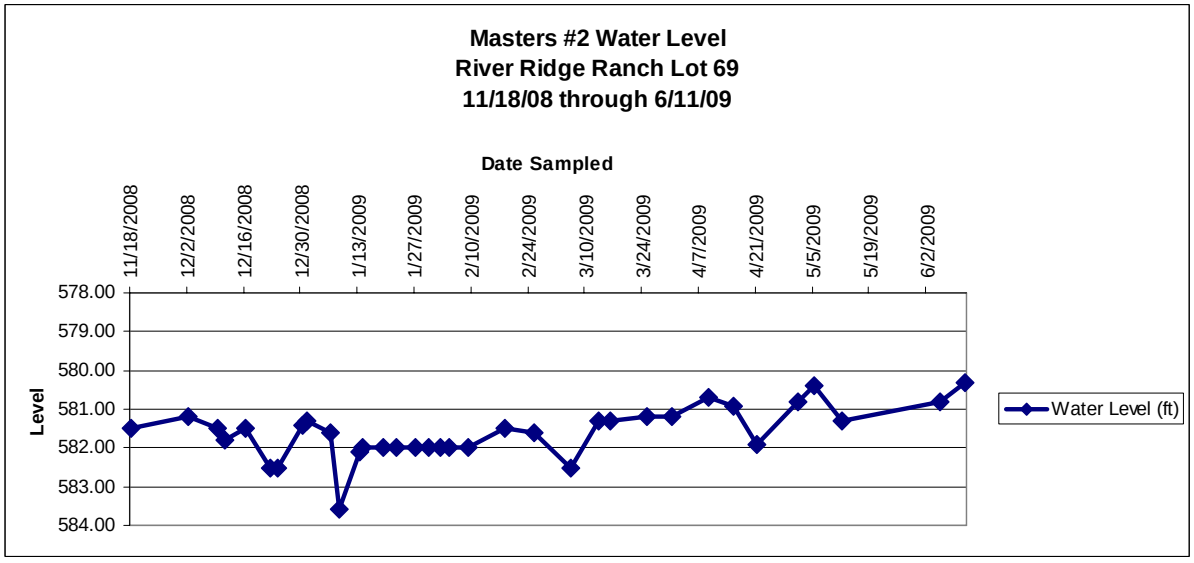

Coleman Well Vent % LEL
River Ridge Ranch Lot 70
8/28/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
8/28/2007
9/28/2007
10/28/2007
11/28/2007
12/28/2007
1/28/2008
2/28/2008
3/28/2008
4/28/2008
5/28/2008
6/28/2008
7/28/2008
8/28/2008
9/28/2008
10/28/2008
11/28/2008
12/28/2008
1/28/2009
2/28/2009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

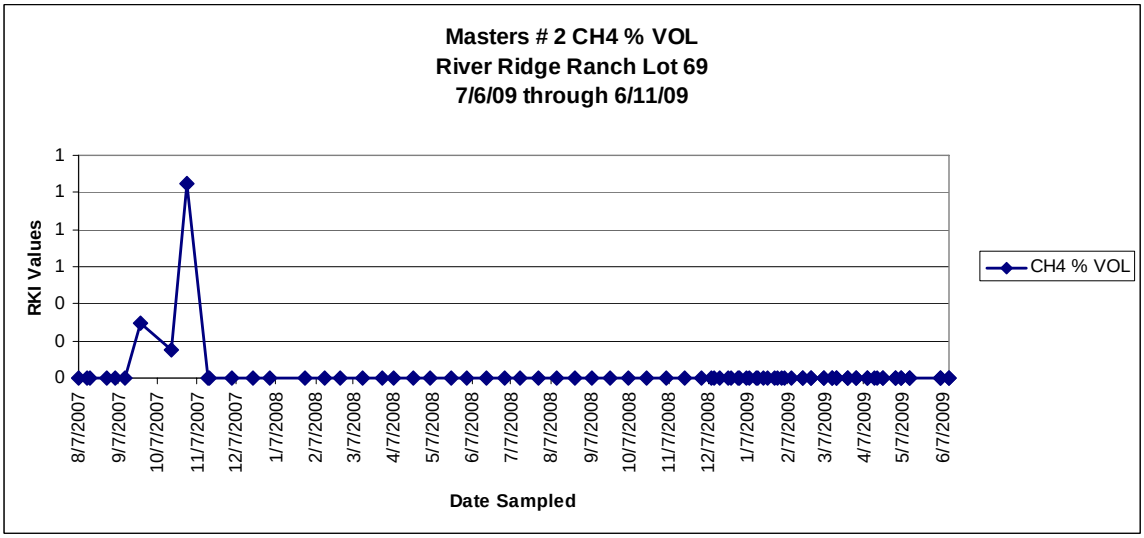

Coleman Well Vent CH4 % VOL
River Ridge Ranch Lot 70
8/28/07 through 6/11/09
RKI Values
100
90
80
70
60
50
40
30
20
10
0
8/28/2007
9/28/2007
10/28/2007
11/28/2007
12/28/2007
1/28/2008
2/28/2008
3/28/2008
4/28/2008
5/28/2008
6/28/2008
7/28/2008
8/28/2008
9/28/2008
10/28/2008
11/28/2008
12/28/2008
1/28/2009
2/28/2009
3/28/2009
4/28/2009
5/28/2009
Date Sampled
CH4 % VOL

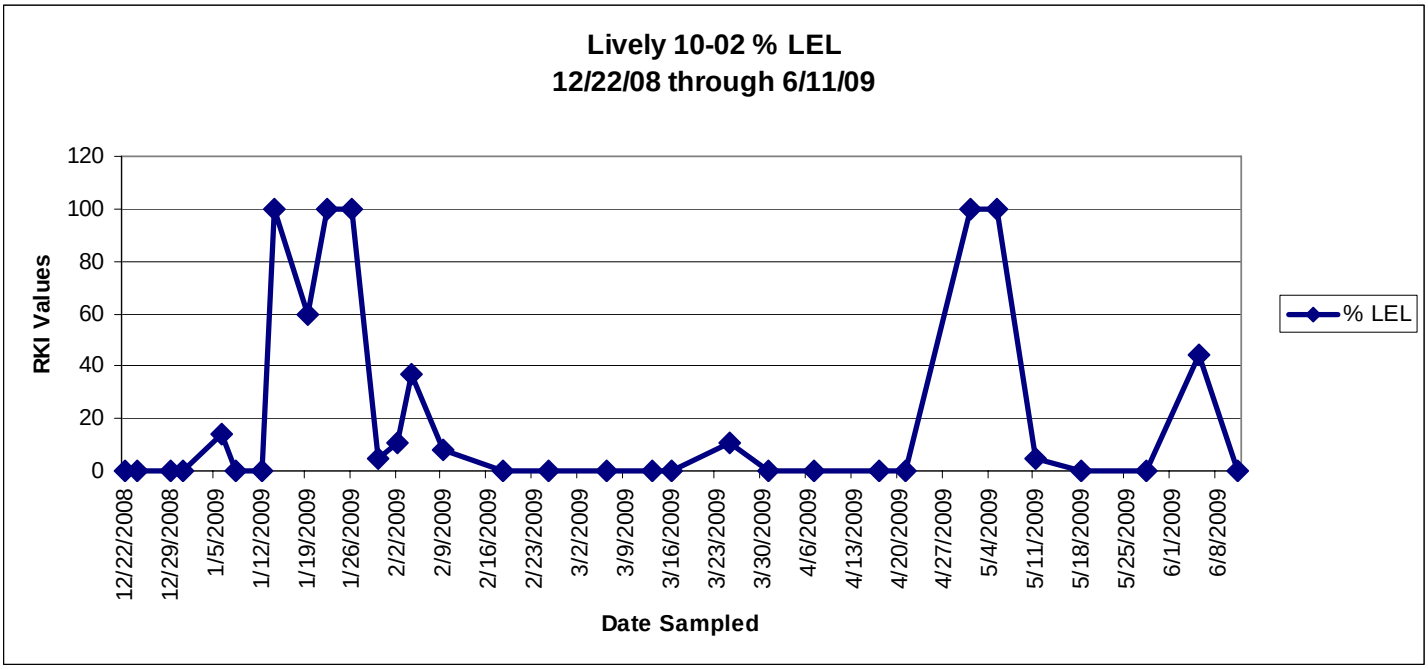

Masters # 1 % LEL
River Ridge Ranch Lot 69
8/13/07 through 6/11/09
RKI Readings
14
12
10
8
6
4
2
0
8/13/2007
9/13/2007
10/13/2007
11/13/2007
12/13/2007
1/13/2008
2/13/2008
3/13/2008
4/13/2008
5/13/2008
6/13/2008
7/13/2008
8/13/2008
9/13/2008
10/13/2008
11/13/2008
12/13/2008
1/13/2009
2/13/2009
3/13/2009
4/13/2009
5/13/2009
Date Sampled
% LEL

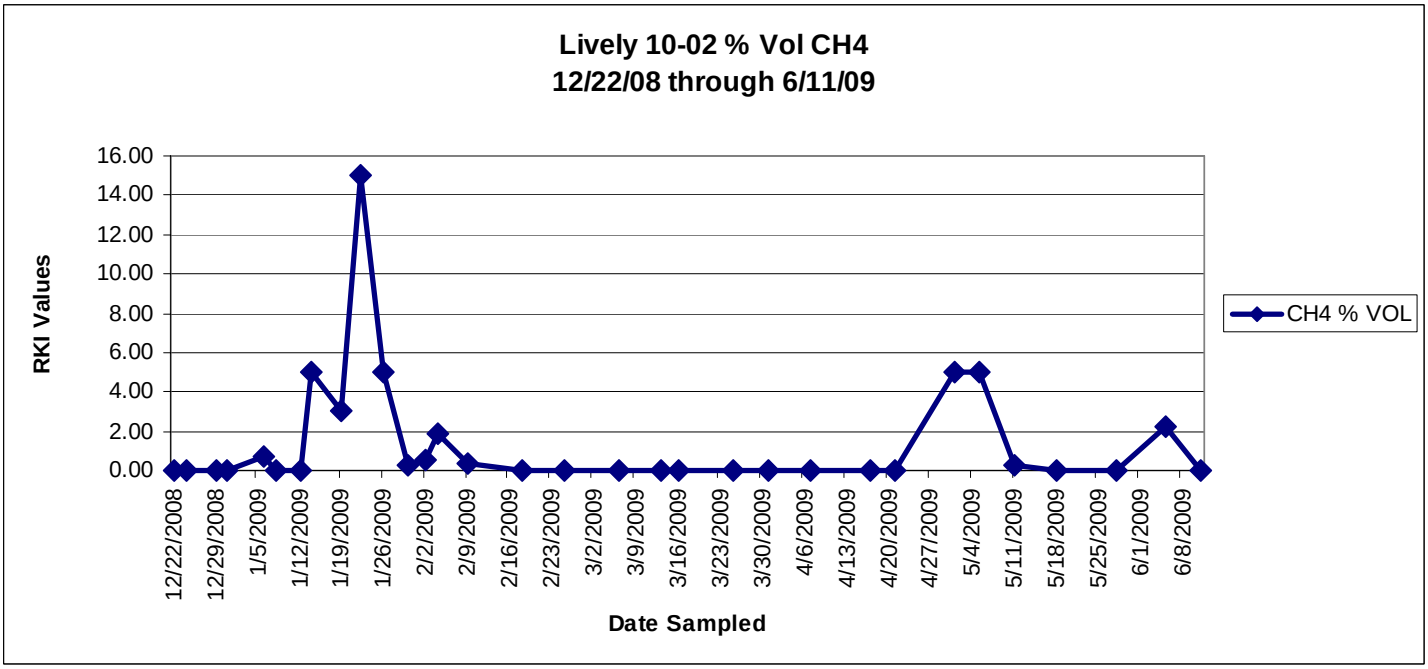

Masters # 1 CH4 % VOL
River Ridge Ranch Lot 69
813/07 through 6/11/09
RKI Readings
1
1
1
0
0
0
0
0
8/13/2007
9/13/2007
10/13/2007
11/13/2007
12/13/2007
1/13/2008
2/13/2008
3/13/2008
4/13/2008
5/13/2008
6/13/2008
7/13/2008
8/13/2008
9/13/2008
10/13/2008
11/13/2008
12/13/2008
1/13/2009
2/13/2009
3/13/2009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

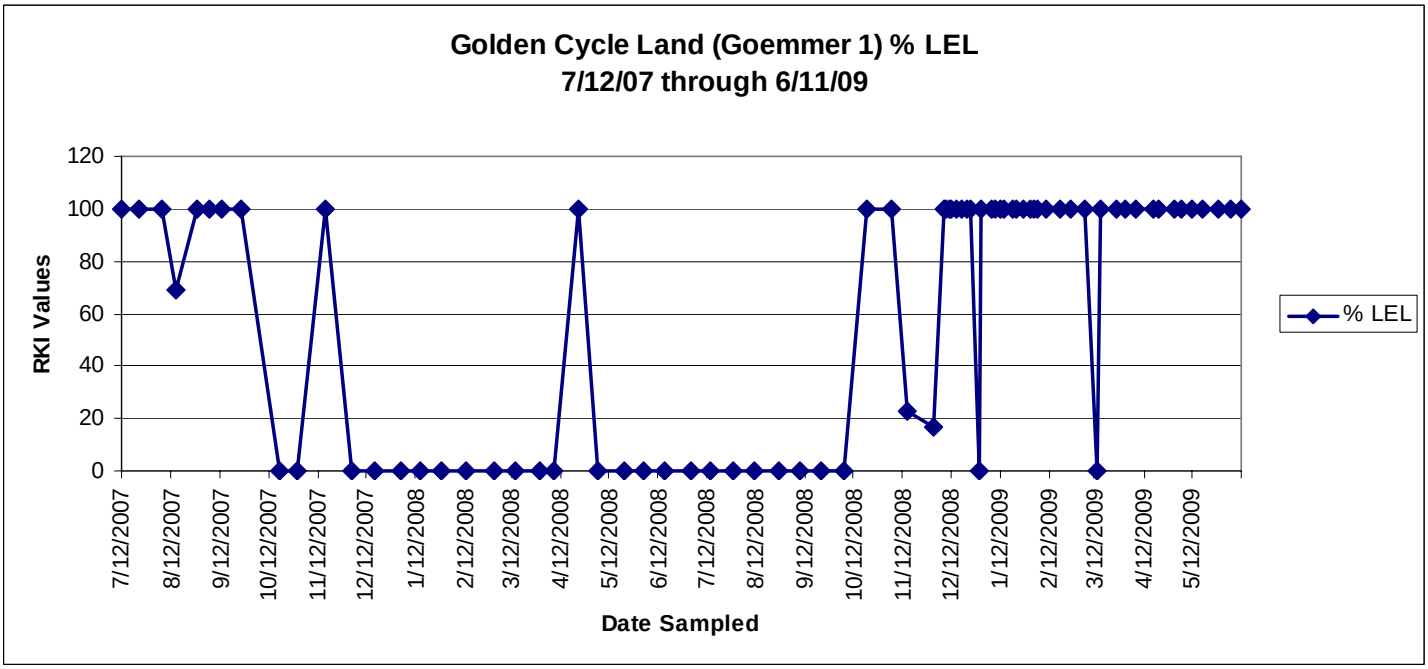

Masters # 2% LEL
River Ridge Ranch Lot 69
7/6/09 through 6/11/09
RKI Values
Date Sampled
% LEL

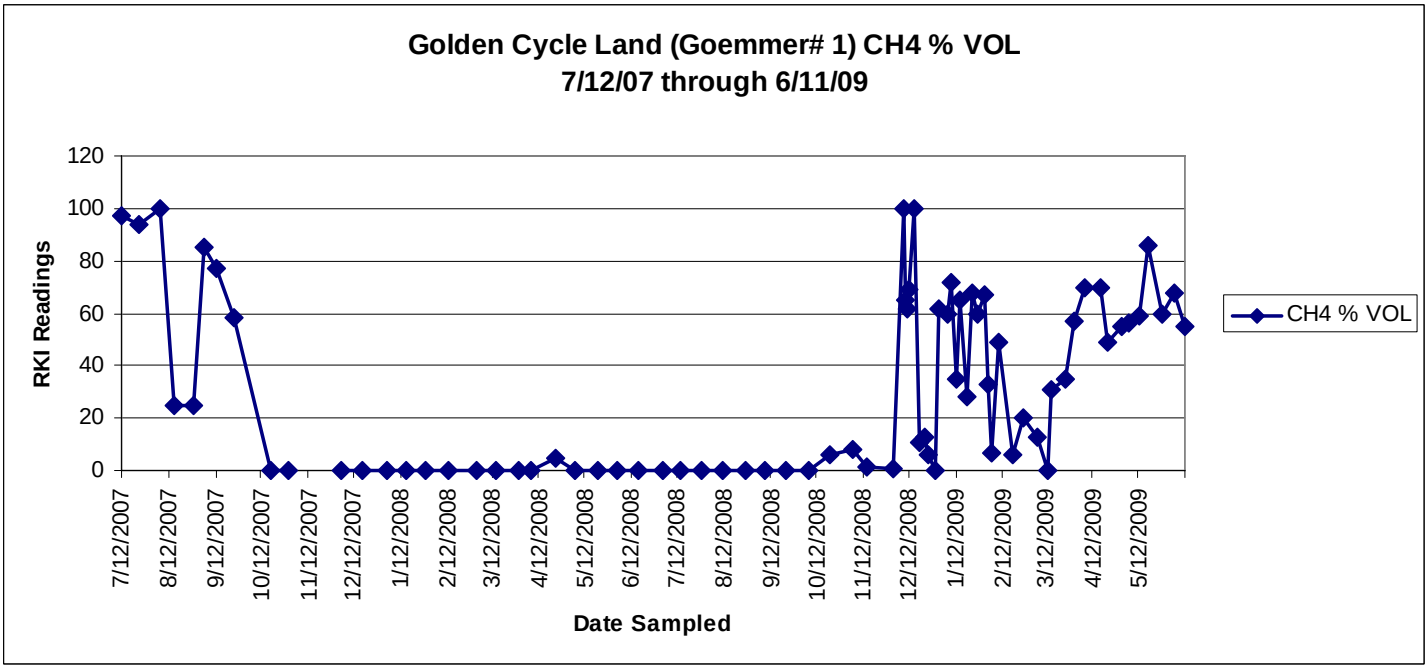

Masters #2 Water Level
River Ridge Ranch Lot 69
11/18/08 through 6/11/09
Date Sampled
Level
Water Level (ft)

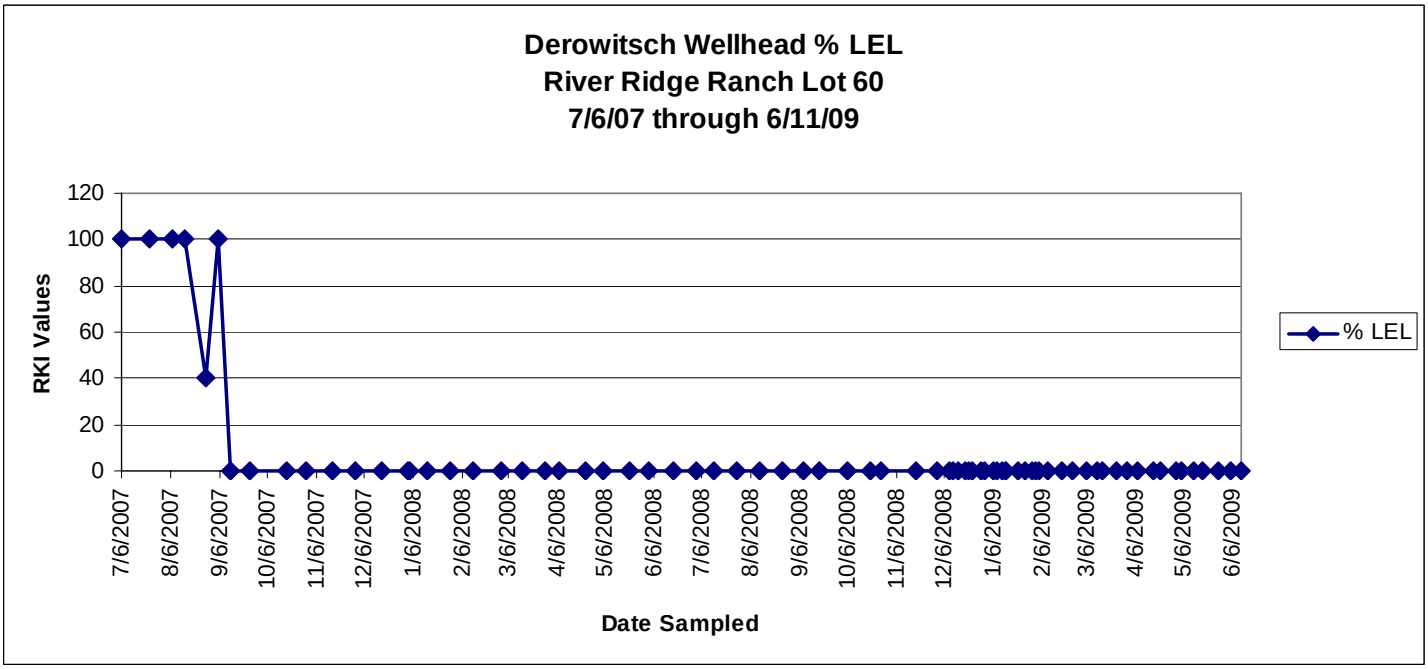

Masters # 2 CH4 % VOL
River Ridge Ranch Lot 69
7/6/09 through 6/11/09
RKI Values
Date Sampled
CH4 % VOL

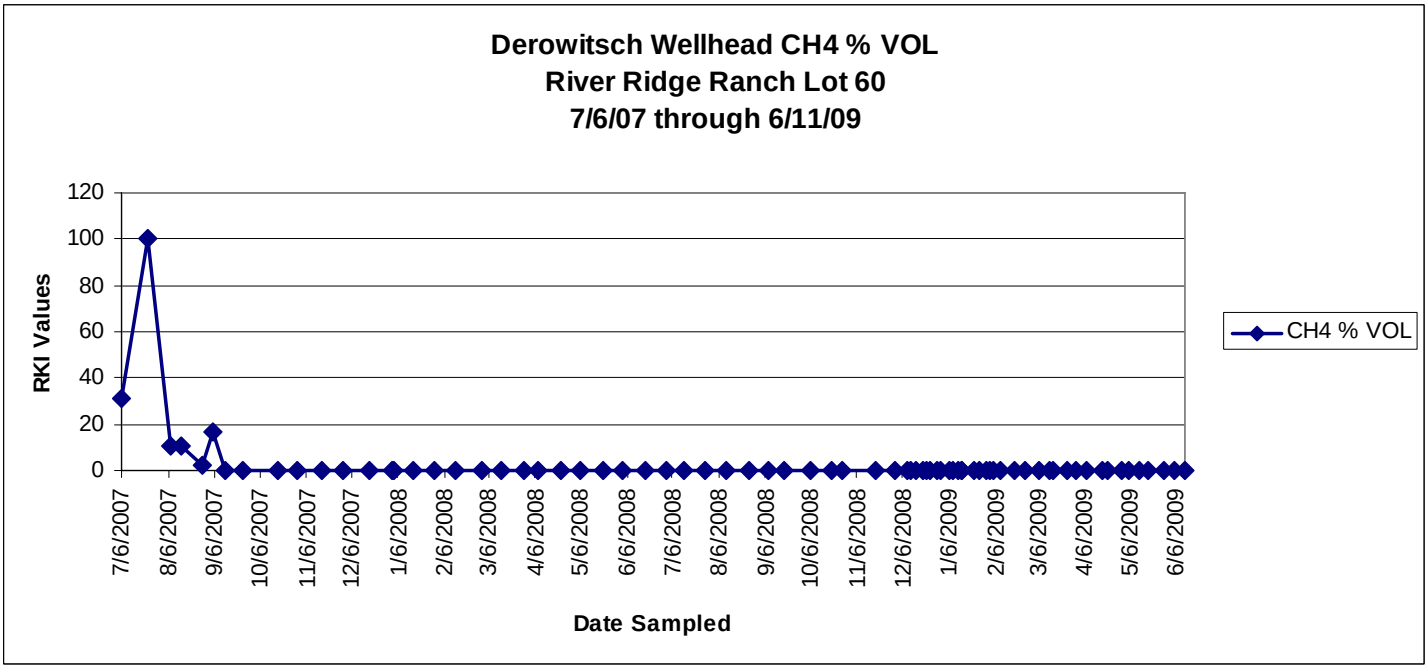

Lively 10-02 % LEL
12/22/08 through 6/11/09
RKI Values
120
100
80
60
40
20
0
12/22/2008
12/29/2008
1/5/2009
1/12/2009
1/19/2009
1/26/2009
2/2/2009
2/9/2009
2/16/2009
2/23/2009
3/2/2009
3/9/2009
3/16/2009
3/23/2009
3/30/2009
4/6/2009
4/13/2009
4/20/2009
4/27/2009
5/4/2009
5/11/2009
5/18/2009
5/25/2009
6/1/2009
6/8/2009
Date Sampled
% LEL

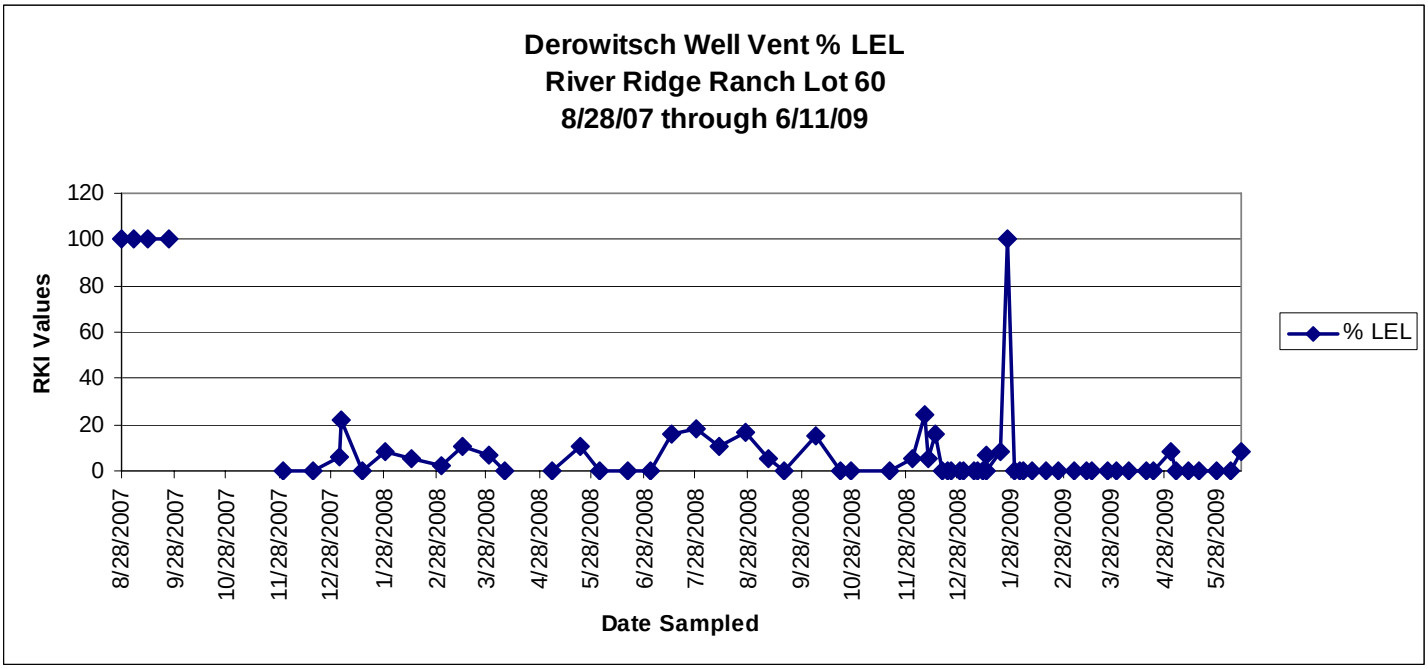

Lively 10-02 % Vol CH4
12/22/08 through 6/11/09
RKI Values
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
12/22/2008
12/29/2008
1/5/2009
1/12/2009
1/19/2009
1/26/2009
2/2/2009
2/9/2009
2/16/2009
2/23/2009
3/2/2009
3/9/2009
3/16/2009
3/23/2009
3/30/2009
4/6/2009
4/13/2009
4/20/2009
4/27/2009
5/4/2009
5/11/2009
5/18/2009
5/25/2009
6/1/2009
6/8/2009
Date Sampled
CH4 % VOL

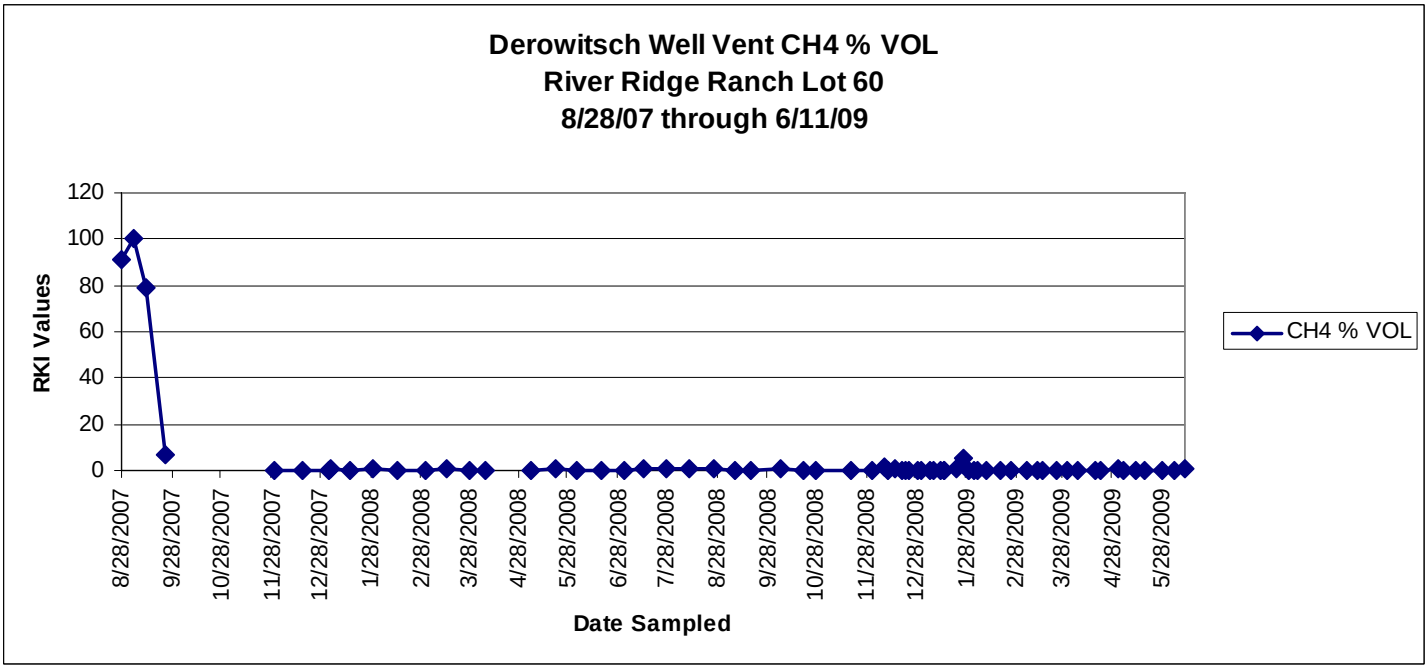

Golden Cycle Land (Goemmer 1) % LEL
7/12/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
Date Sampled
% LEL

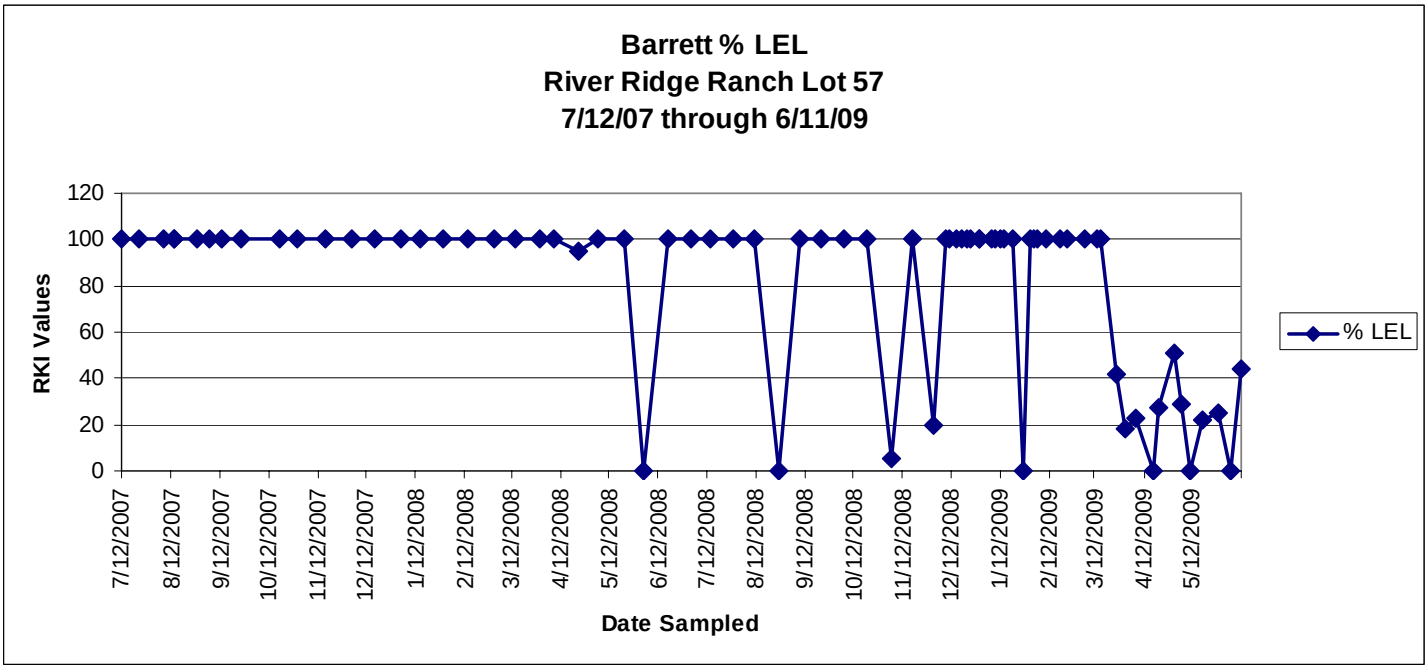

Golden Cycle Land (Goemmer# 1) CH4 % VOL
7/12/07 through 6/11/09
RKI Readings
120
100
80
60
40
20
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
Date Sampled
CH4 % VOL

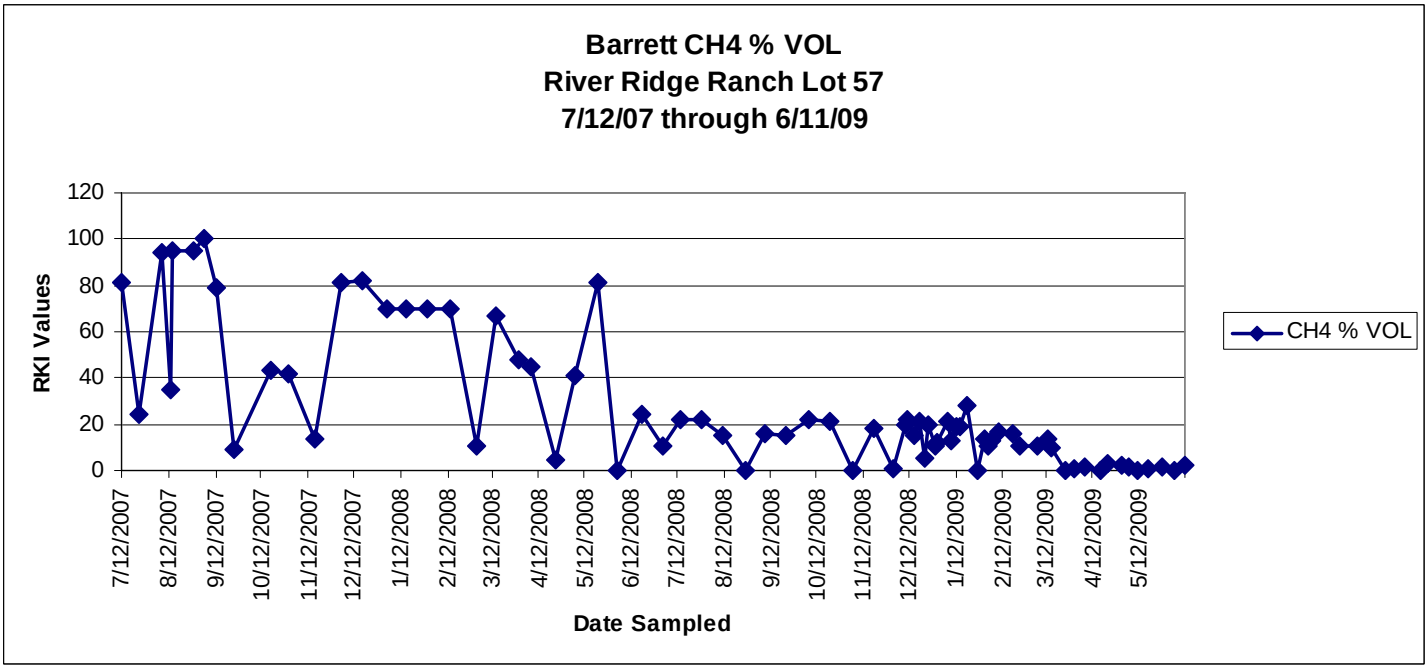

Derowitsch Wellhead % LEL
River Ridge Ranch Lot 60
7/6/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
7/6/2007
8/6/2007
9/6/2007
10/6/2007
11/6/2007
12/6/2007
1/6/2008
2/6/2008
3/6/2008
4/6/2008
5/6/2008
6/6/2008
7/6/2008
8/6/2008
9/6/2008
10/6/2008
11/6/2008
12/6/2008
1/6/2009
2/6/2009
3/6/2009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

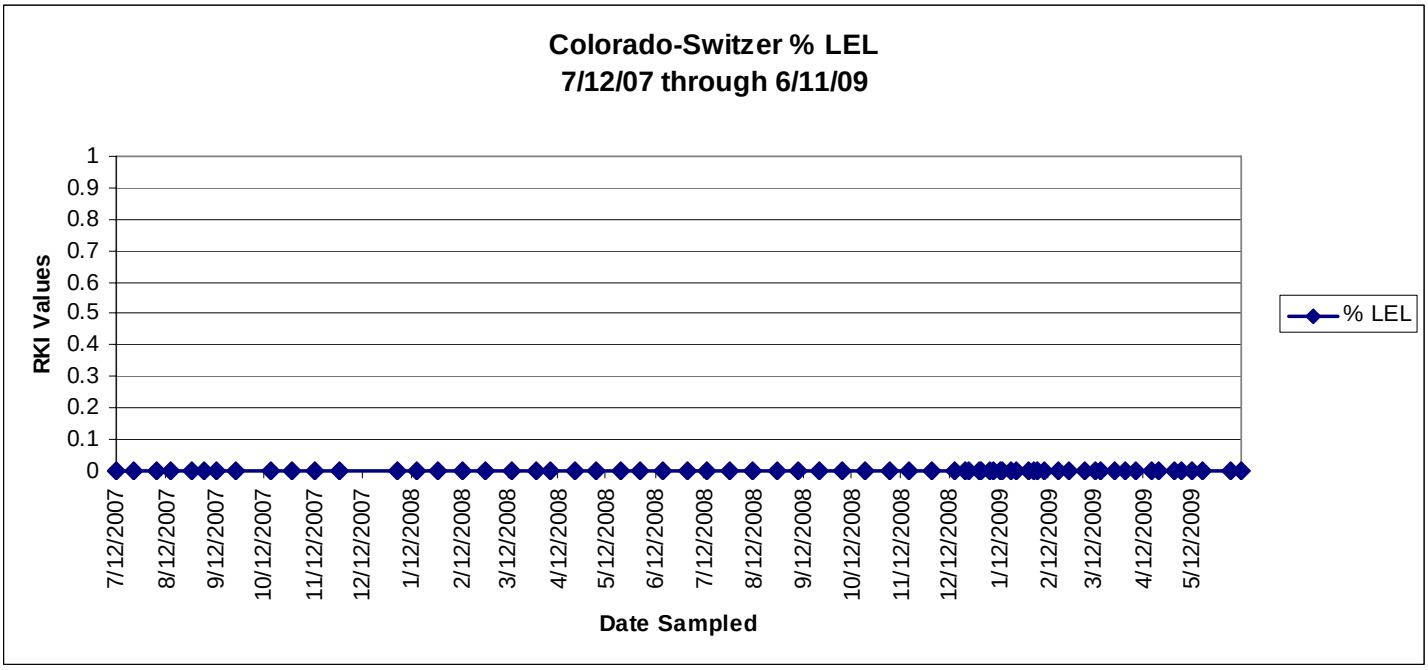

Derowitsch Wellhead CH4 % VOL
River Ridge Ranch Lot 60
7/6/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
7/6/2007
8/6/2007
9/6/2007
10/6/2007
11/6/2007
12/6/2007
1/6/2008
2/6/2008
3/6/2008
4/6/2008
5/6/2008
6/6/2008
7/6/2008
8/6/2008
9/6/2008
10/6/2008
11/6/2008
12/6/2008
1/6/2009
2/6/2009
3/6/2009
4/6/2009
5/6/2009
6/6/2009
Date Sampled
CH4 % VOL

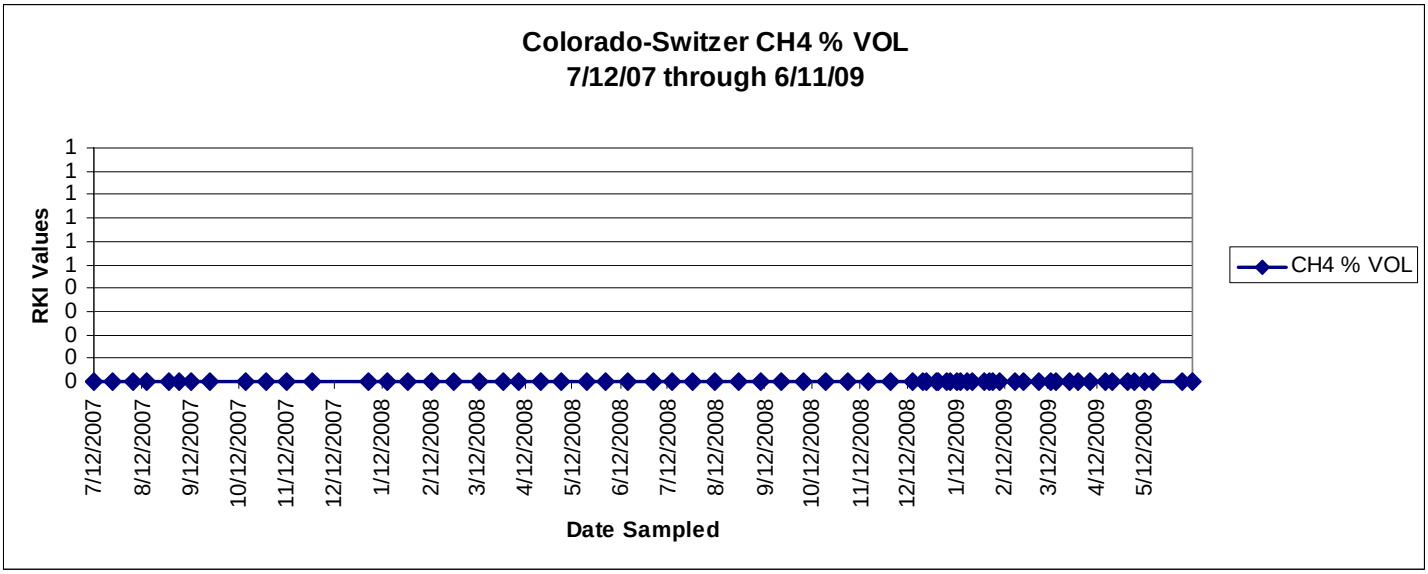

Derowitsch Well Vent % LEL
River Ridge Ranch Lot 60
8/28/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
8/28/2007
9/28/2007
10/28/2007
11/28/2007
12/28/2007
1/28/2008
2/28/2008
3/28/2008
4/28/2008
5/28/2008
6/28/2008
7/28/2008
8/28/2008
9/28/2008
10/28/2008
11/28/2008
12/28/2008
1/28/2009
2/28/2009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

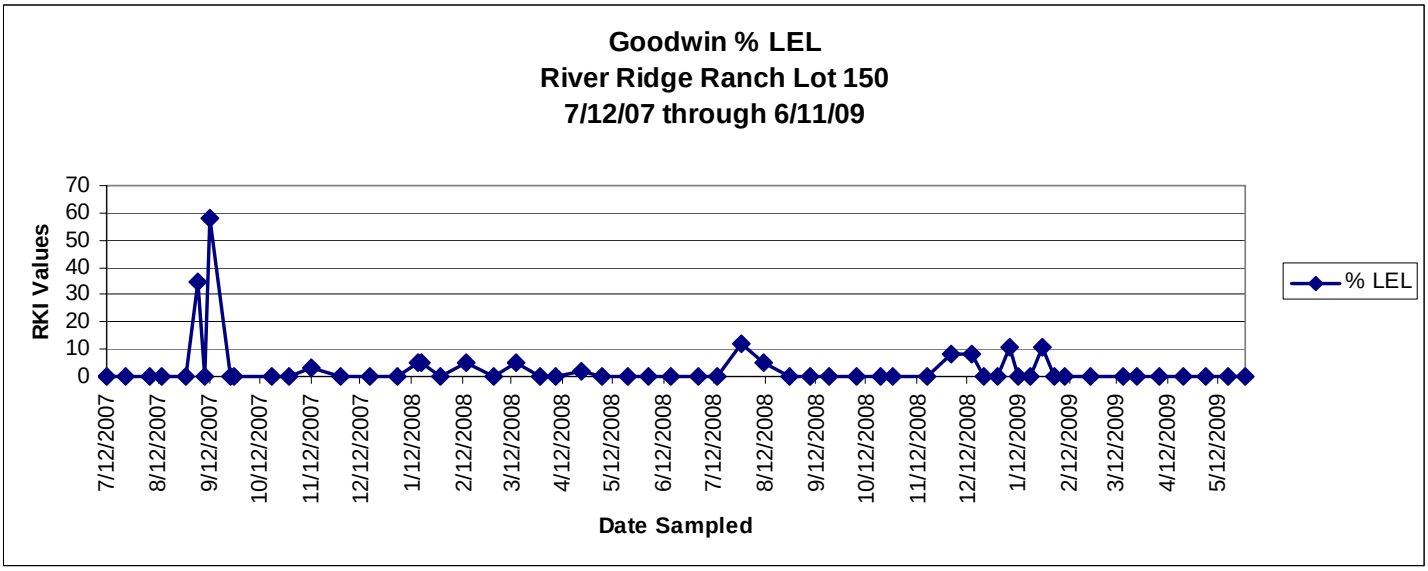

Derowitsch Well Vent CH4 % VOL
River Ridge Ranch Lot 60
8/28/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
8/28/2007
9/28/2007
10/28/2007
11/28/2007
12/28/2007
1/28/2008
2/28/2008
3/28/2008
4/28/2008
5/28/2008
6/28/2008
7/28/2008
8/28/2008
9/28/2008
10/28/2008
11/28/2008
12/28/2008
1/28/2009
2/28/2009
3/28/2009
4/28/2009
5/28/2009
Date Sampled
CH4 % VOL

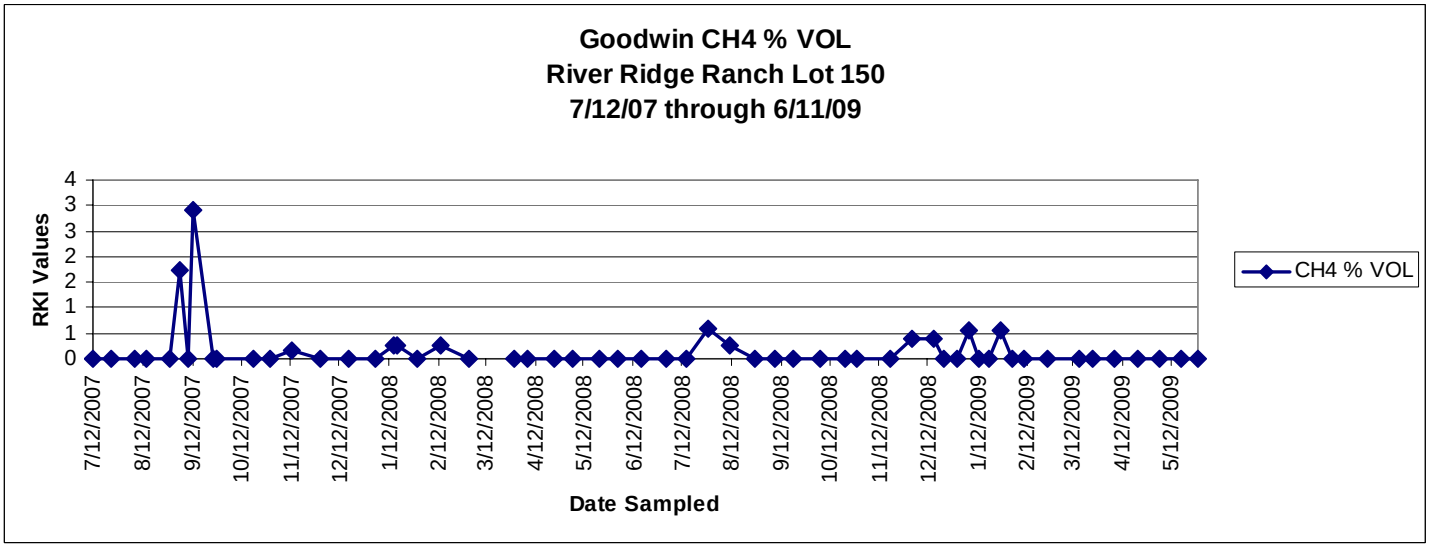

Barrett % LEL
River Ridge Ranch Lot 57
7/12/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
Date Sampled
% LEL

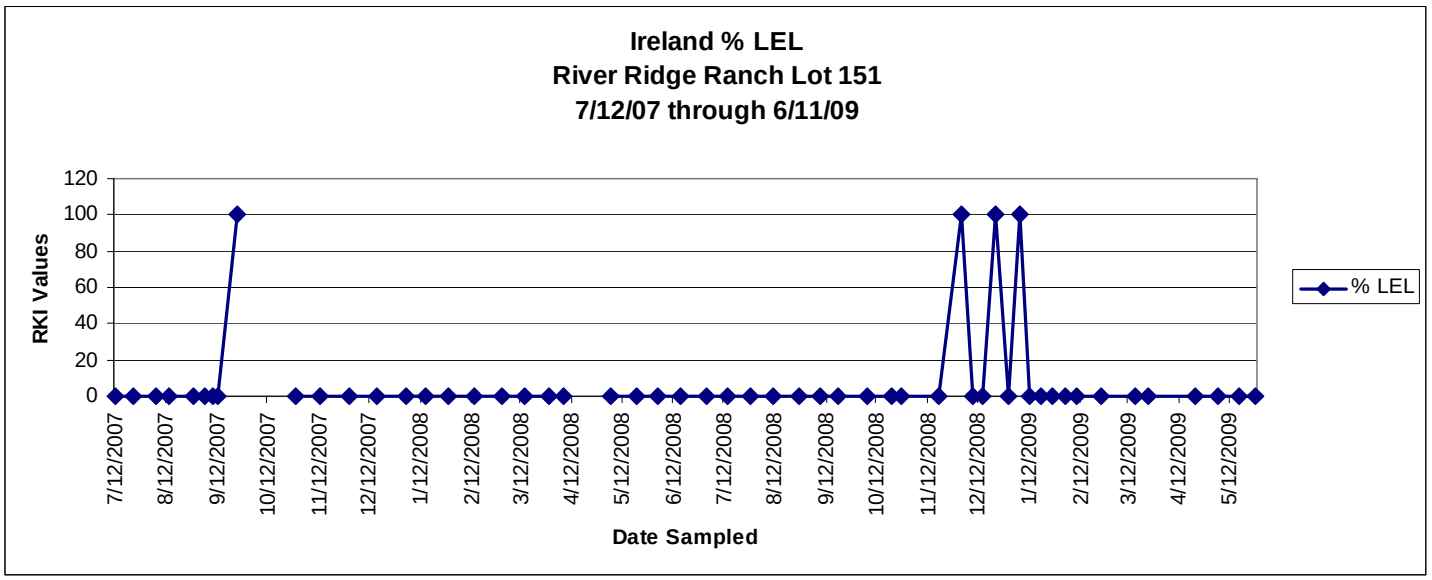

Barrett CH4 % VOL
River Ridge Ranch Lot 57
7/12/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
Date Sampled
CH4 % VOL

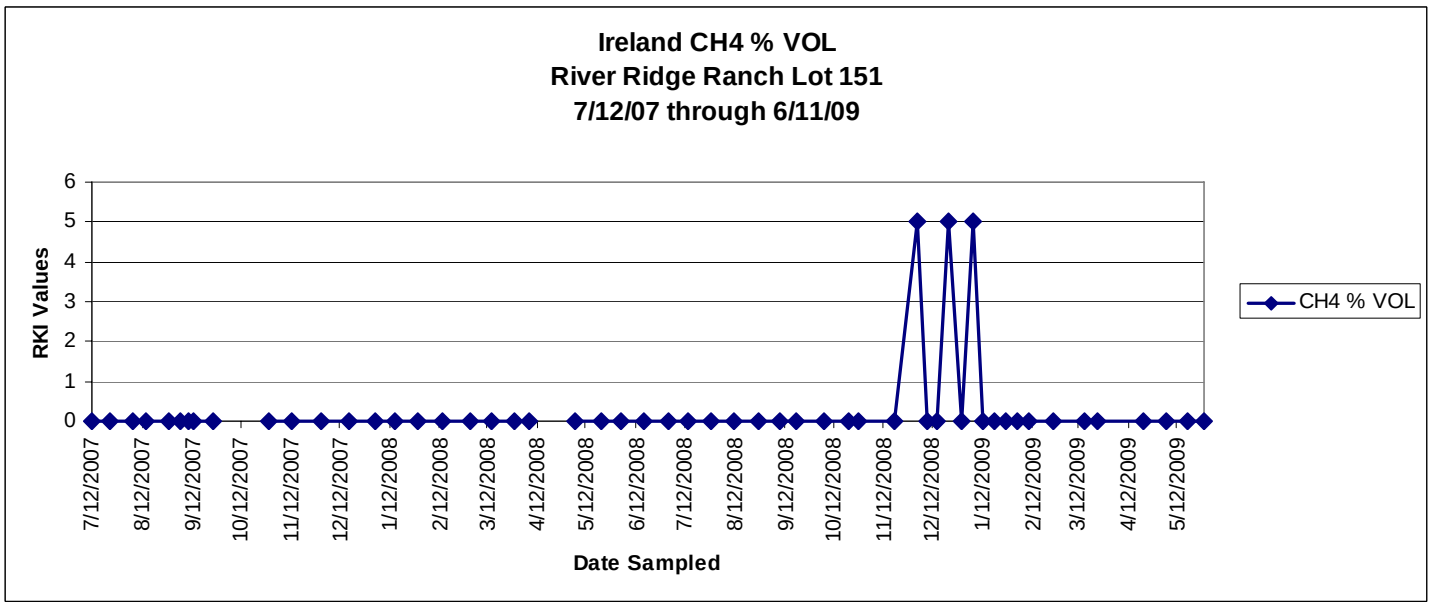

Colorado-Switzer % LEL
7/12/07 through 6/11/09
RKI Values
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
Date Sampled
% LEL

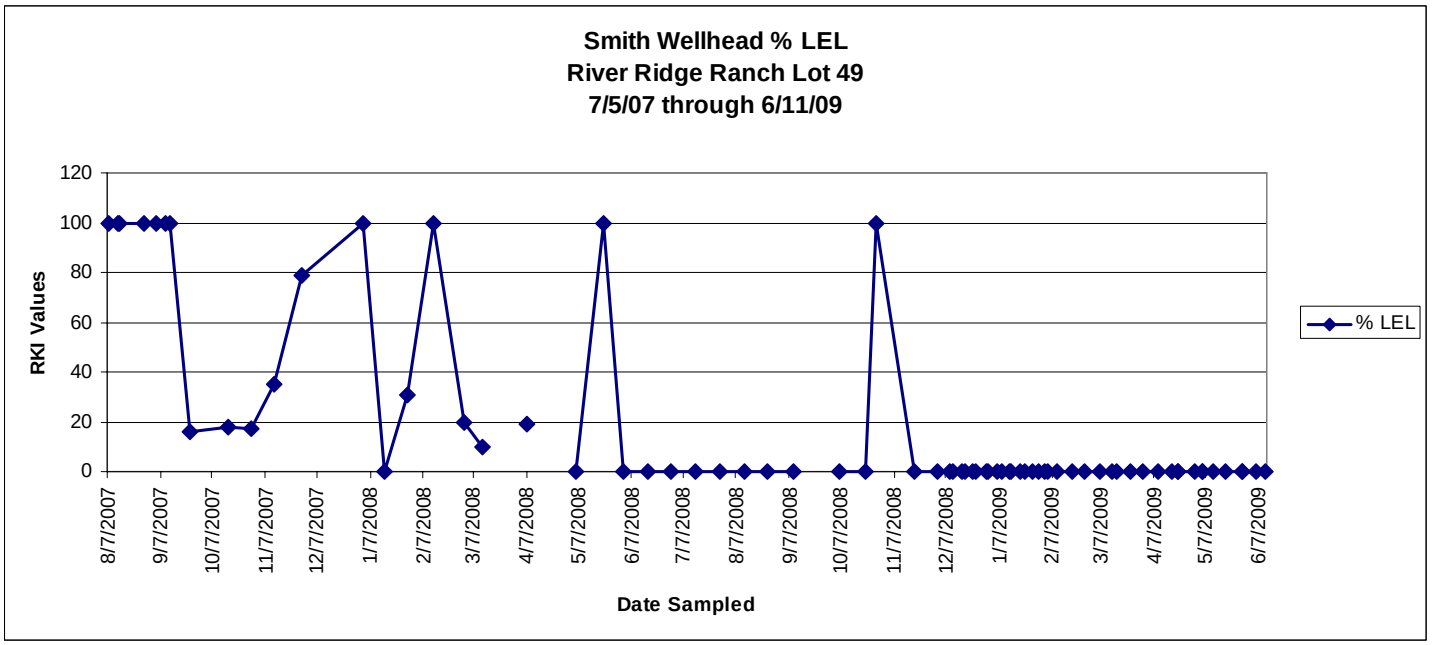

Colorado-Switzer CH4 % VOL
7/12/07 through 6/11/09
RKI Values
1
1
1
1
1
1
0
0
0
0
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009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

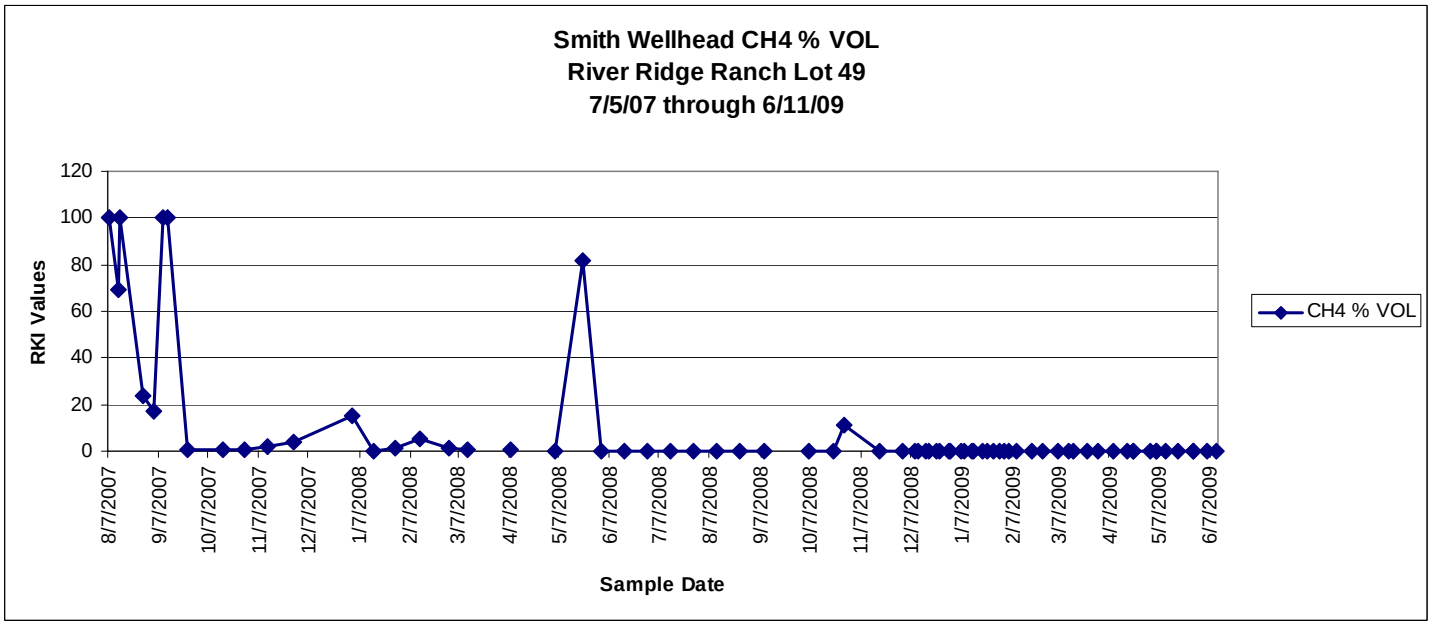

Goodwin % LEL
River Ridge Ranch Lot 150
7/12/07 through 6/11/09
RKI Values
70
60
50
40
30
20
10
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
Date Sampled
% LEL

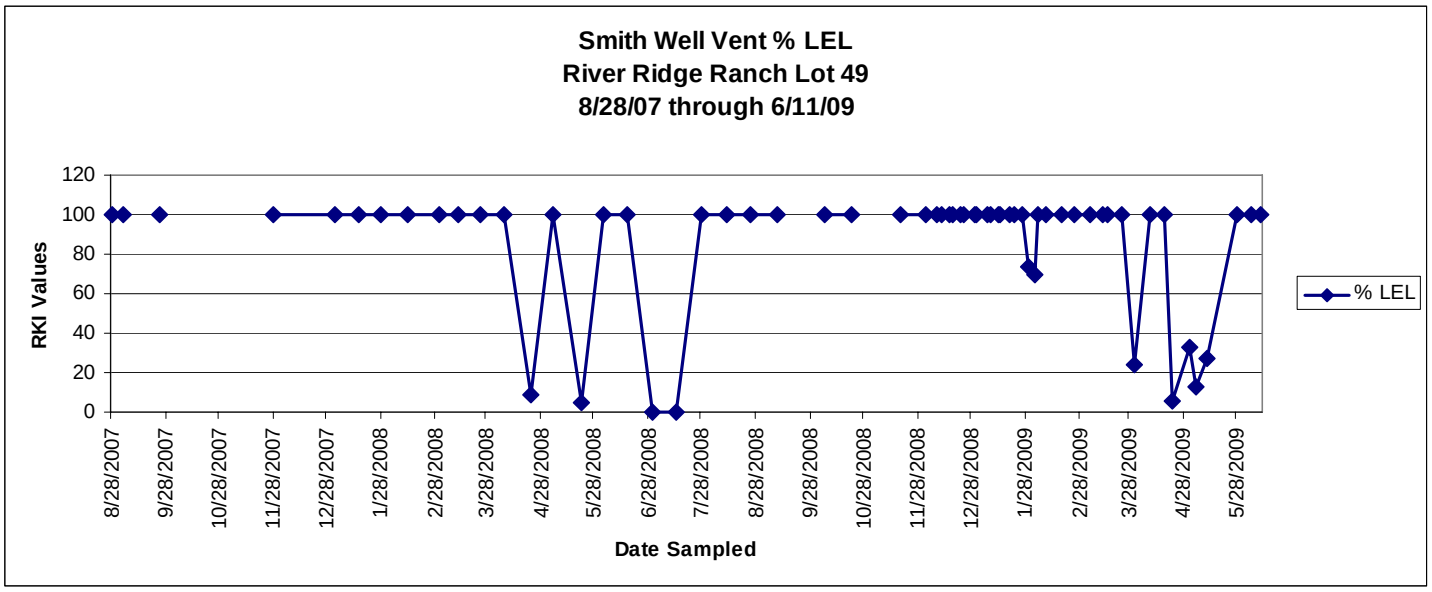

Goodwin CH4 % VOL
River Ridge Ranch Lot 150
7/12/07 through 6/11/09
RKI Values
4
3
3
2
2
1
1
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009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

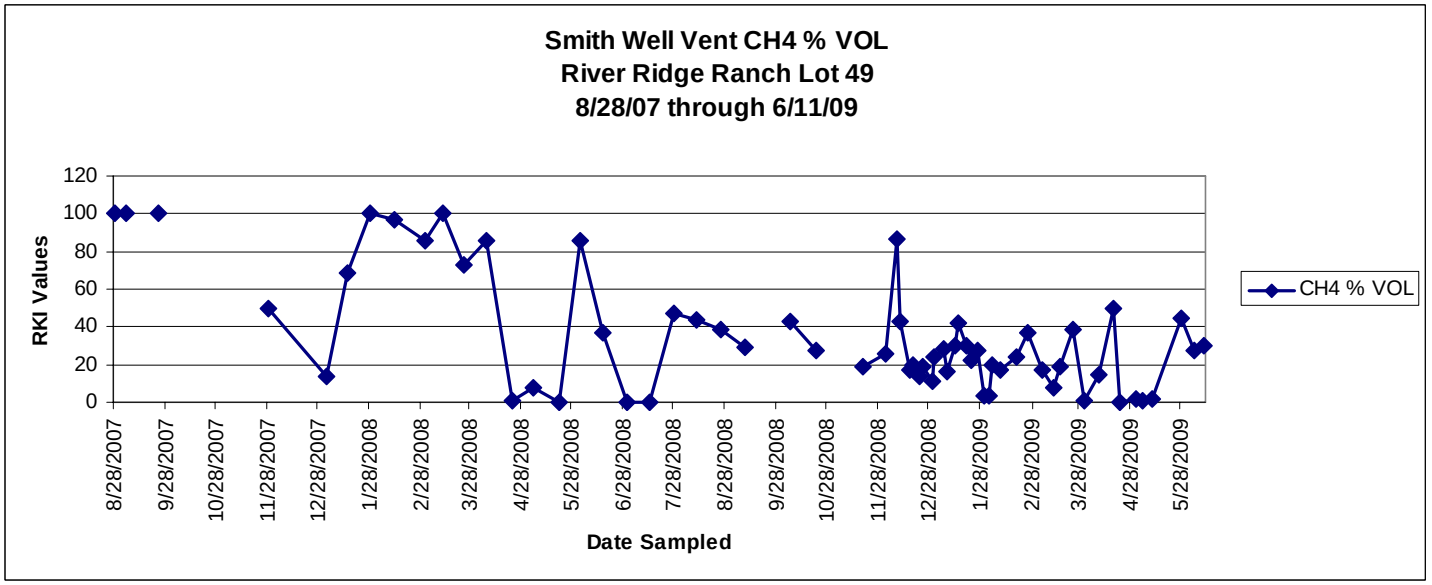

Ireland % LEL
River Ridge Ranch Lot 151
7/12/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009
4/12/2009
5/12/2009
Date Sampled
% LEL

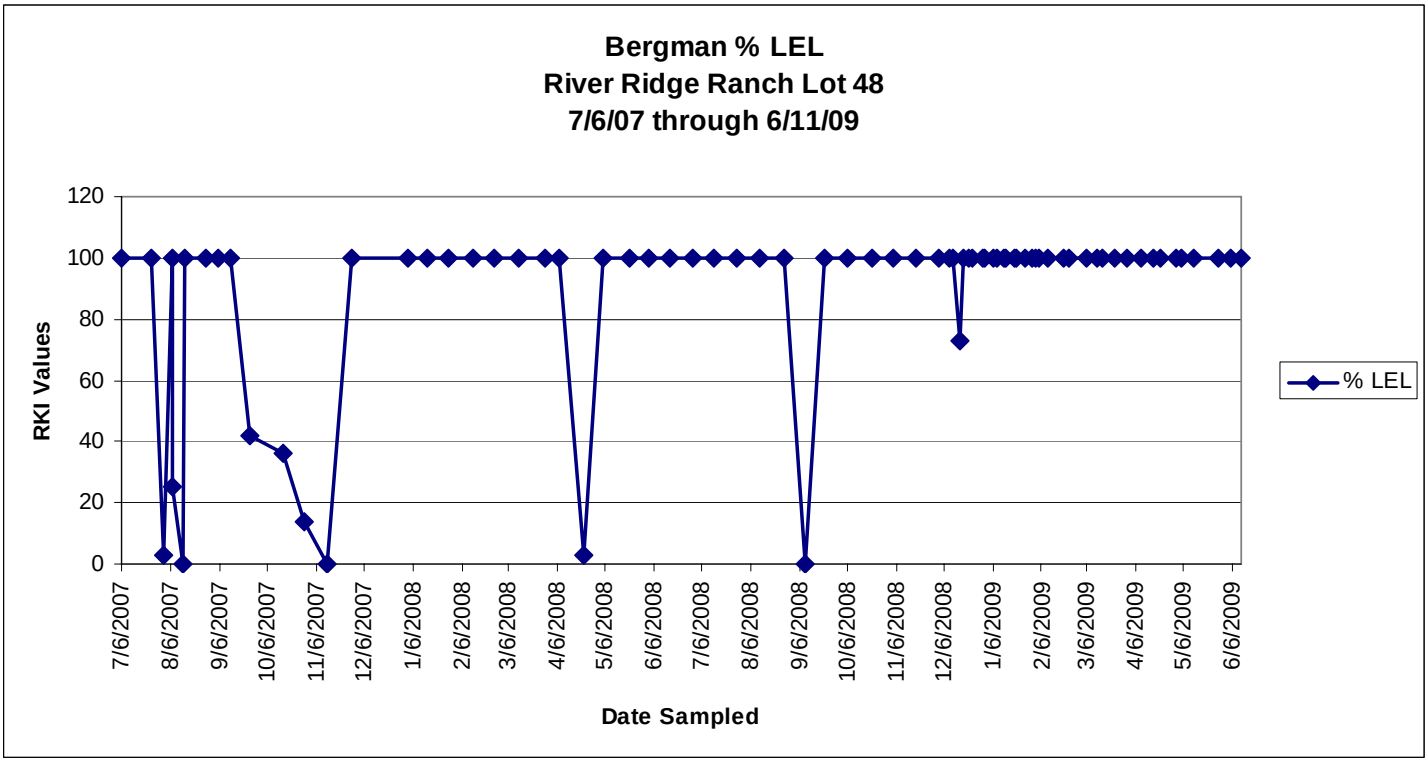

Ireland CH4 % VOL
River Ridge Ranch Lot 151
7/12/07 through 6/11/09
RKI Values
6
5
4
3
2
1
0
7/12/2007
8/12/2007
9/12/2007
10/12/2007
11/12/2007
12/12/2007
1/12/2008
2/12/2008
3/12/2008
4/12/2008
5/12/2008
6/12/2008
7/12/2008
8/12/2008
9/12/2008
10/12/2008
11/12/2008
12/12/2008
1/12/2009
2/12/2009
3/12/2009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

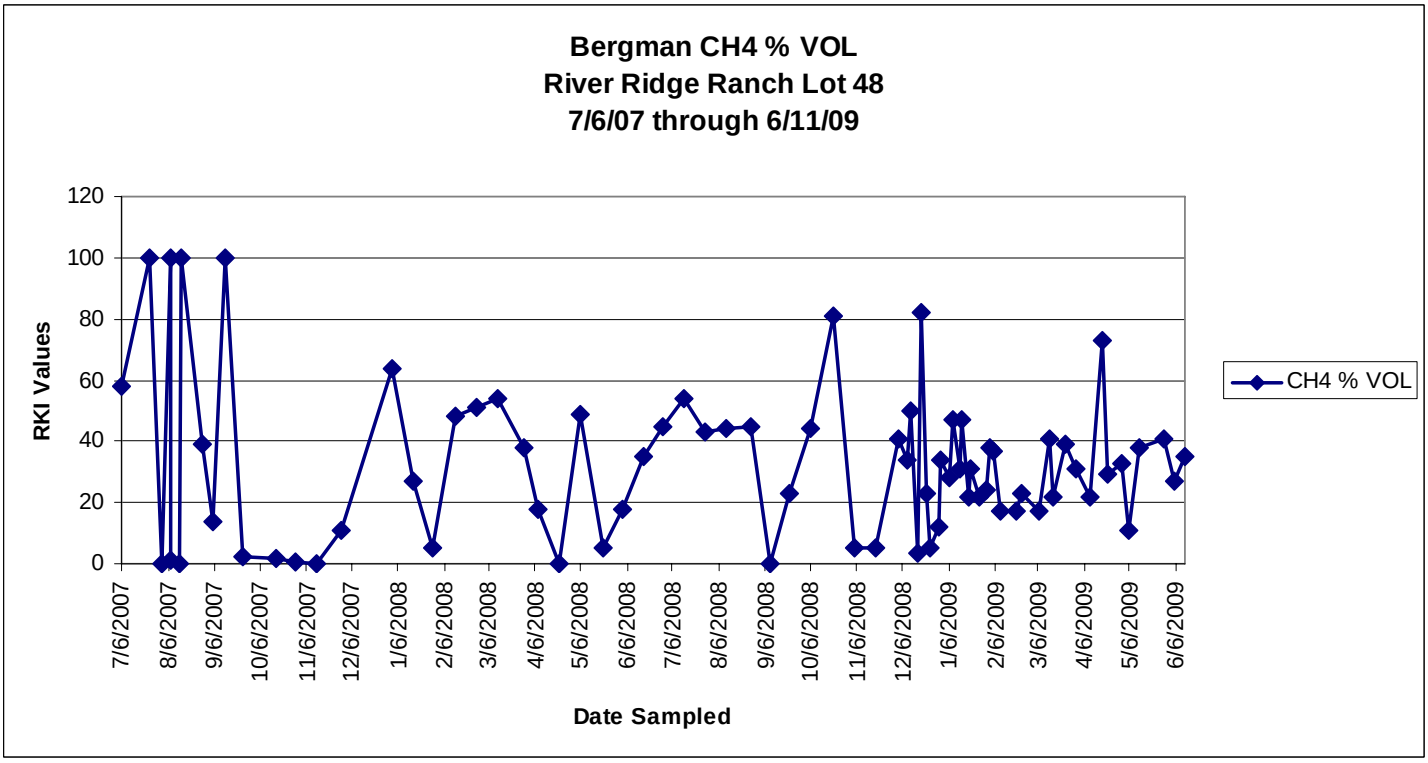

Smith Wellhead % LEL
River Ridge Ranch Lot 49
7/5/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
8/7/2007
9/7/2007
10/7/2007
11/7/2007
12/7/2007
1/7/2008
2/7/2008
3/7/2008
4/7/2008
5/7/2008
6/7/2008
7/7/2008
8/7/2008
9/7/2008
10/7/2008
11/7/2008
12/7/2008
1/7/2009
2/7/2009
3/7/2009
4/7/2009
5/7/2009
6/7/2009
Date Sampled
% LEL

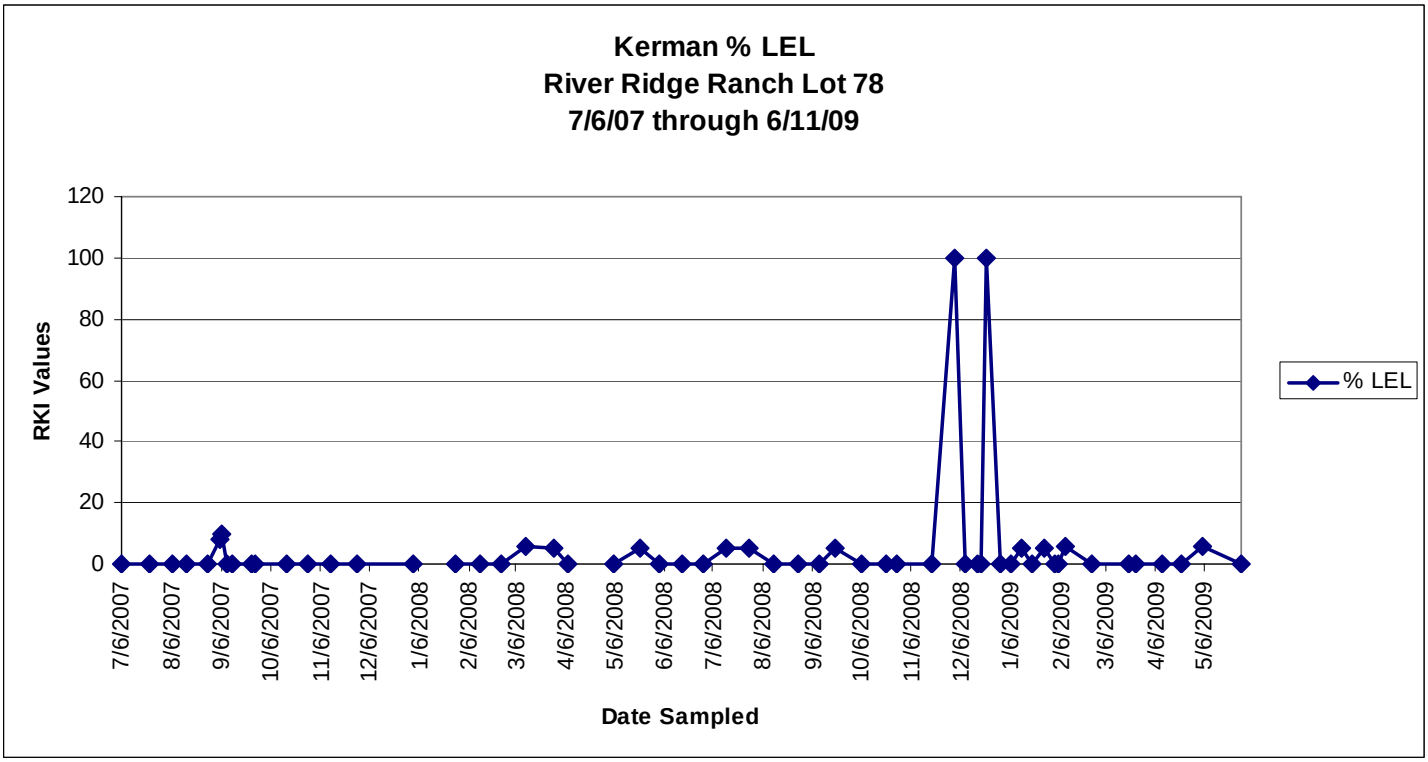

Smith Wellhead CH4 % VOL
River Ridge Ranch Lot 49
7/5/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
8/7/2007
9/7/2007
10/7/2007
11/7/2007
12/7/2007
1/7/2008
2/7/2008
3/7/2008
4/7/2008
5/7/2008
6/7/2008
7/7/2008
8/7/2008
9/7/2008
10/7/2008
11/7/2008
12/7/2008
1/7/2009
2/7/2009
3/7/2009
4/7/2009
5/7/2009
6/7/2009
Sample Date
CH4 % VOL

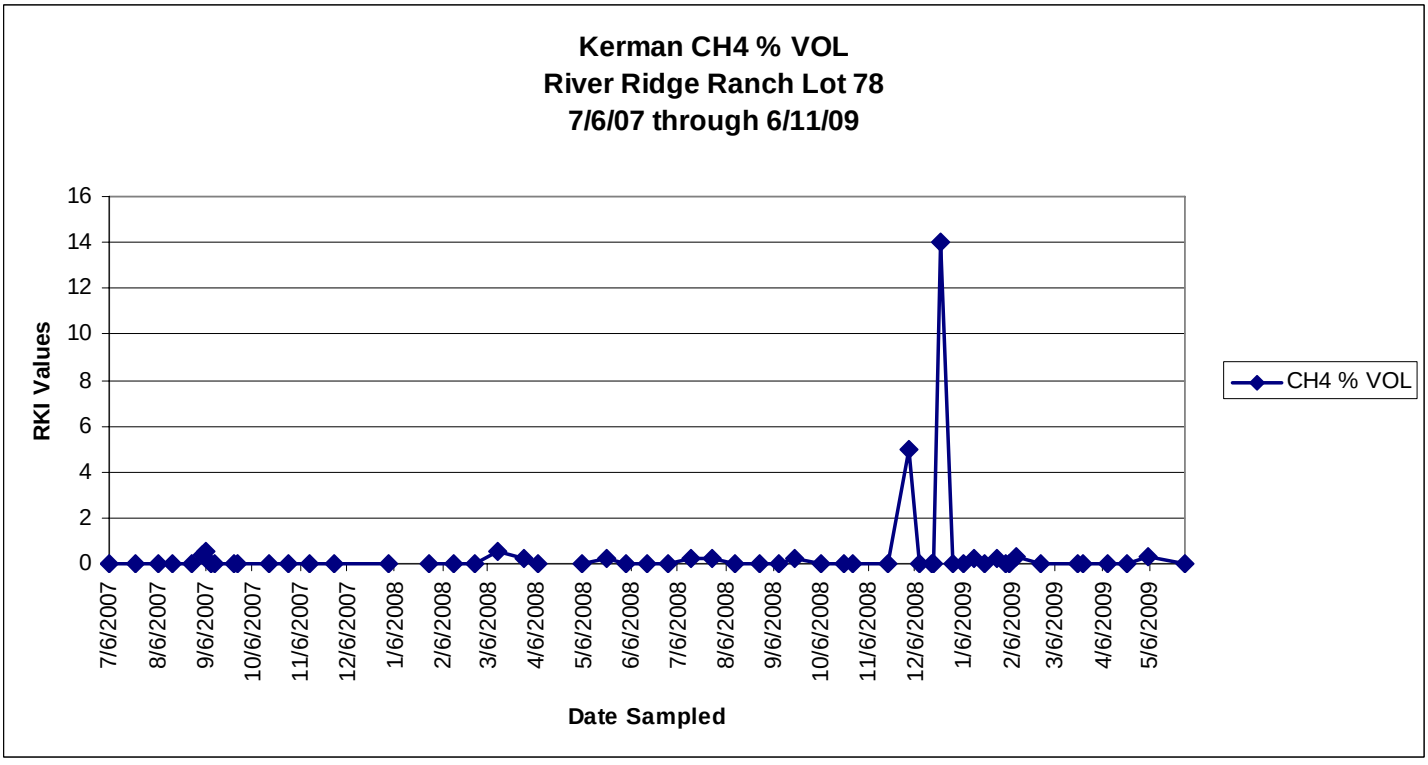

Smith Well Vent % LEL
River Ridge Ranch Lot 49
8/28/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
8/28/2007
9/28/2007
10/28/2007
11/28/2007
12/28/2007
1/28/2008
2/28/2008
3/28/2008
4/28/2008
5/28/2008
6/28/2008
7/28/2008
8/28/2008
9/28/2008
10/28/2008
11/28/2008
12/28/2008
1/28/2009
2/28/2009
3/28/2009
4/28/2009
5/28/2009
Date Sampled
% LEL

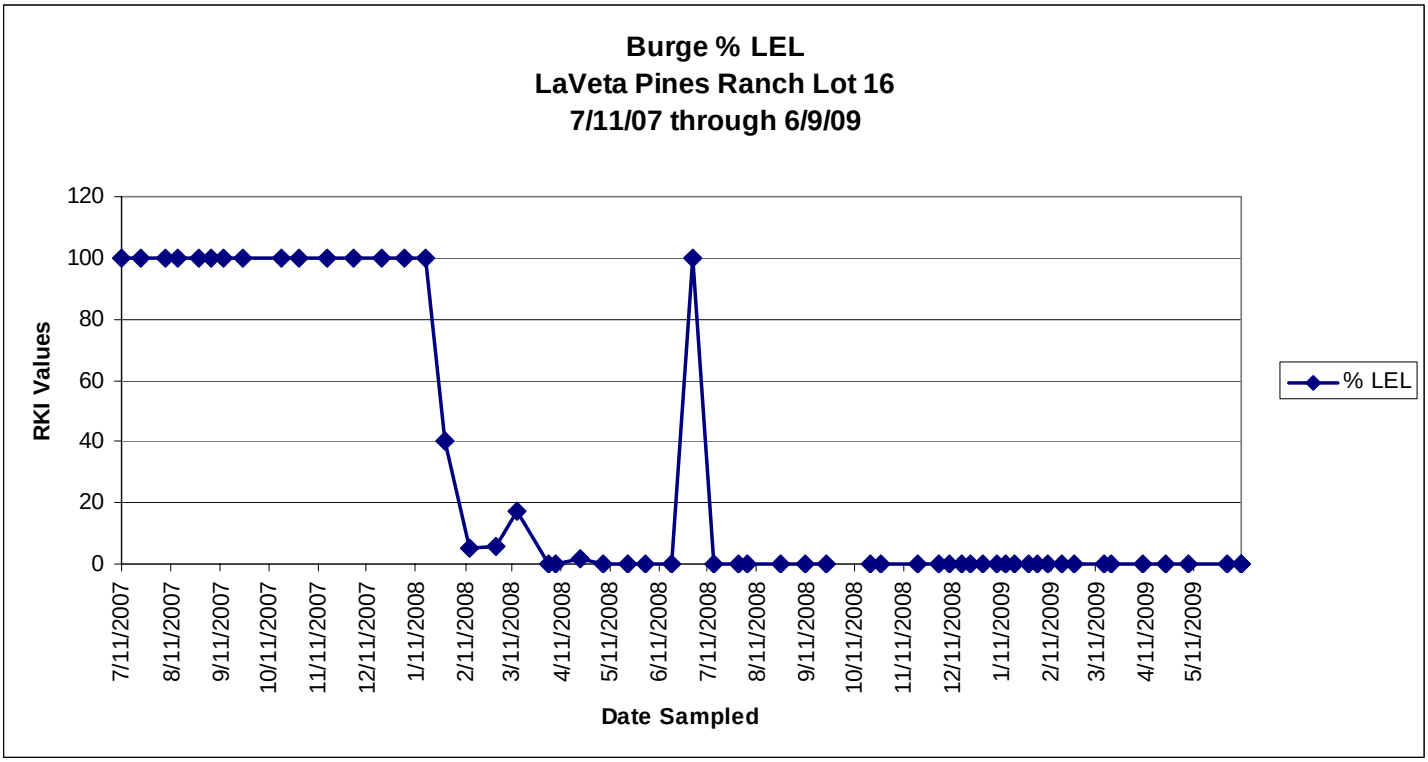

Smith Well Vent CH4 % VOL
River Ridge Ranch Lot 49
8/28/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
8/28/2007
9/28/2007
10/28/2007
11/28/2007
12/28/2007
1/28/2008
2/28/2008
3/28/2008
4/28/2008
5/28/2008
6/28/2008
7/28/2008
8/28/2008
9/28/2008
10/28/2008
11/28/2008
12/28/2008
1/28/2009
2/28/2009
3/28/2009
4/28/2009
5/28/2009
Date Sampled
CH4 % VOL

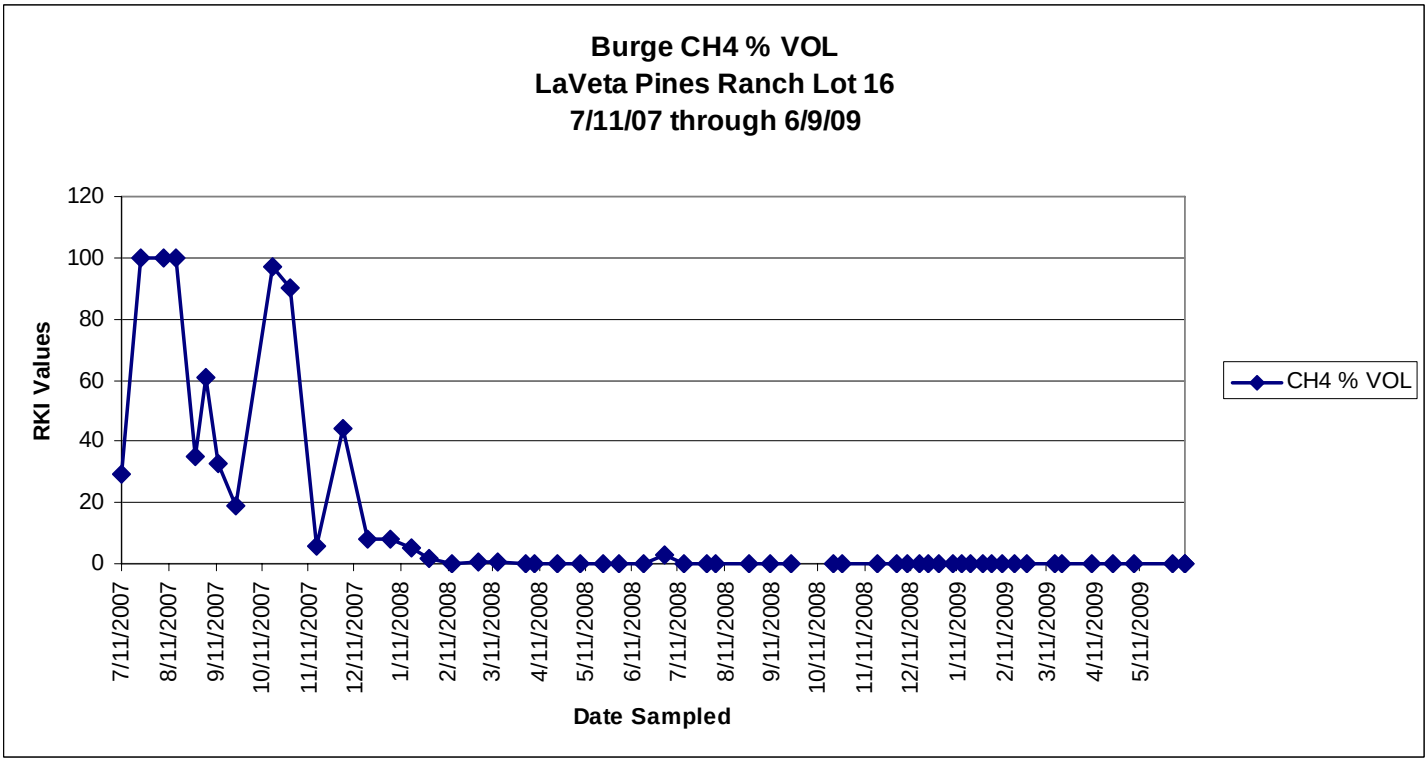

Bergman % LEL
River Ridge Ranch Lot 48
7/6/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
7/6/2007
8/6/2007
9/6/2007
10/6/2007
11/6/2007
12/6/2007
1/6/2008
2/6/2008
3/6/2008
4/6/2008
5/6/2008
6/6/2008
7/6/2008
8/6/2008
9/6/2008
10/6/2008
11/6/2008
12/6/2008
1/6/2009
2/6/2009
3/6/2009
4/6/2009
5/6/2009
6/6/2009
Date Sampled
% LEL

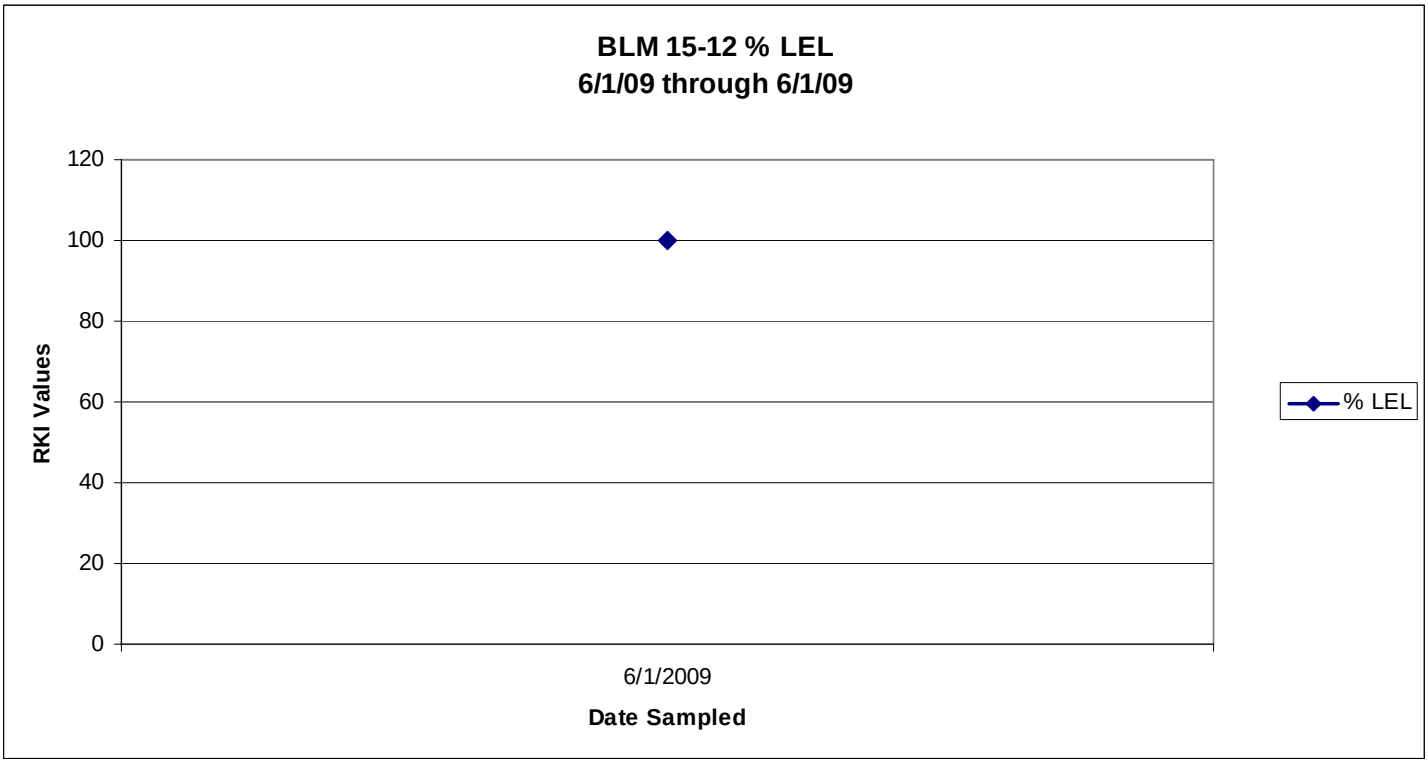

Bergman CH4 % VOL
River Ridge Ranch Lot 48
7/6/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
7/6/2007
8/6/2007
9/6/2007
10/6/2007
11/6/2007
12/6/2007
1/6/2008
2/6/2008
3/6/2008
4/6/2008
5/6/2008
6/6/2008
7/6/2008
8/6/2008
9/6/2008
10/6/2008
11/6/2008
12/6/2008
1/6/2009
2/6/2009
3/6/2009
4/6/2009
5/6/2009
6/6/2009
Date Sampled
CH4 % VOL

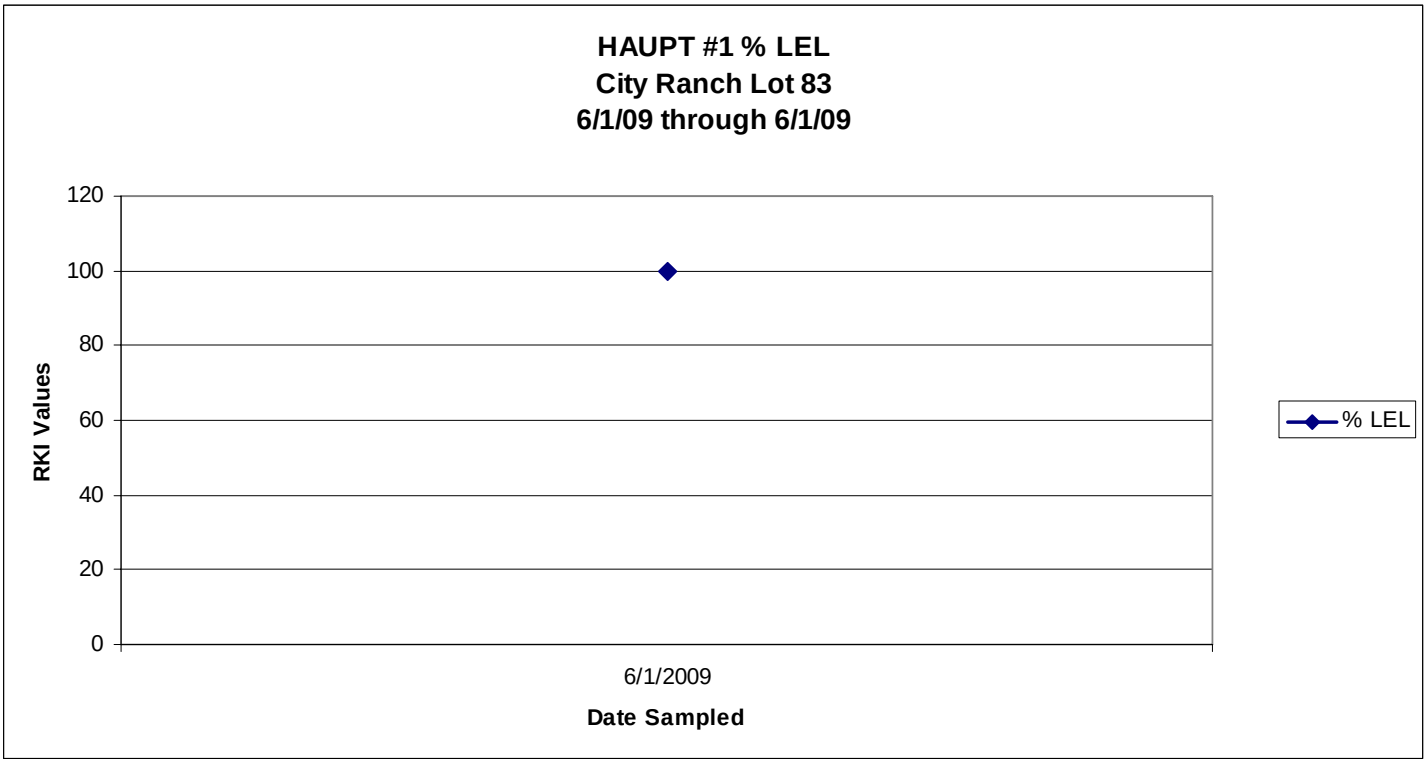

Kerman % LEL
River Ridge Ranch Lot 78
7/6/07 through 6/11/09
RKI Values
120
100
80
60
40
20
0
7/6/2007
8/6/2007
9/6/2007
10/6/2007
11/6/2007
12/6/2007
1/6/2008
2/6/2008
3/6/2008
4/6/2008
5/6/2008
6/6/2008
7/6/2008
8/6/2008
9/6/2008
10/6/2008
11/6/2008
12/6/2008
1/6/2009
2/6/2009
3/6/2009
4/6/2009
5/6/2009
Date Sampled
% LEL

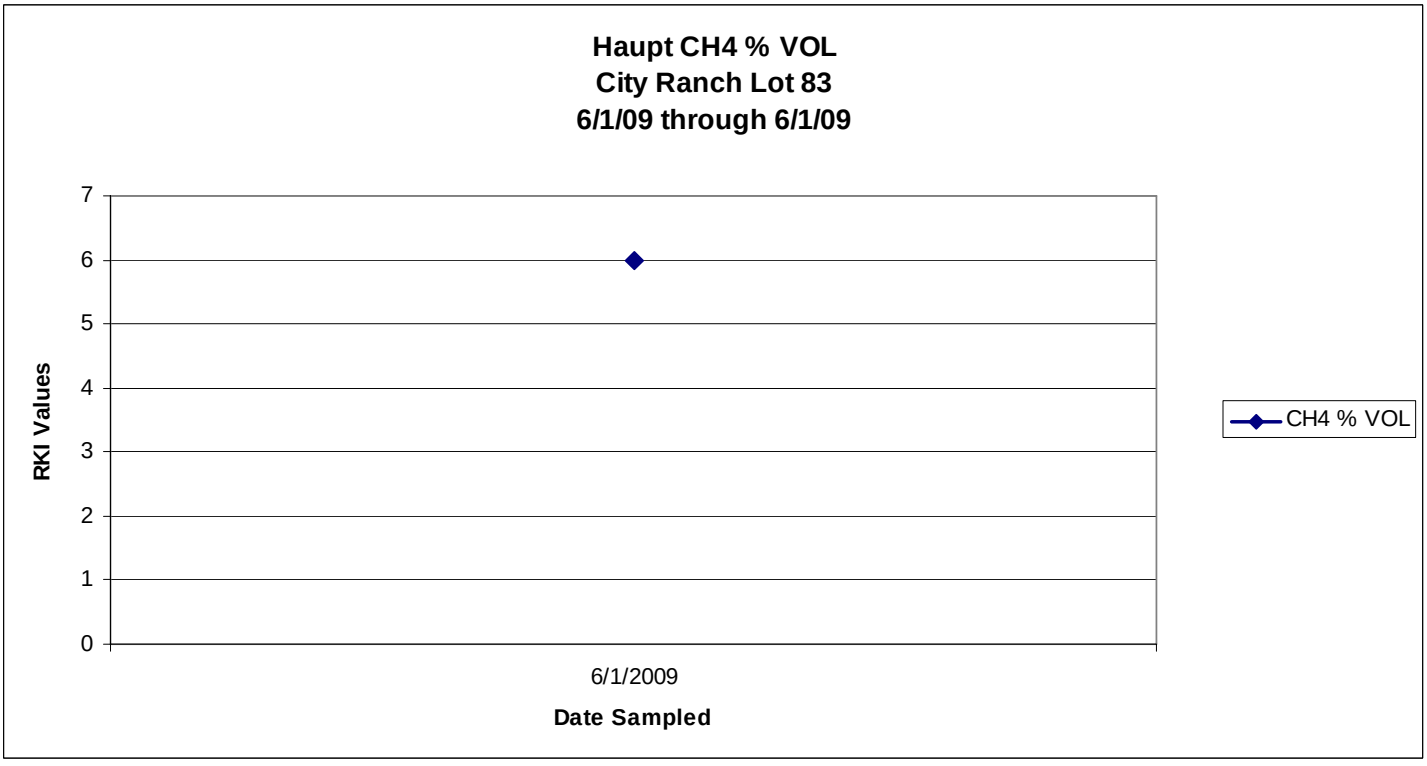

Kerman CH4 % VOL
River Ridge Ranch Lot 78
7/6/07 through 6/11/09
RKI Values
16
14
12
10
8
6
4
2
0
7/6/2007
8/6/2007
9/6/2007
10/6/2007
11/6/2007
12/6/2007
1/6/2008
2/6/2008
3/6/2008
4/6/2008
5/6/2008
6/6/2008
7/6/2008
8/6/2008
9/6/2008
10/6/2008
11/6/2008
12/6/2008
1/6/2009
2/6/2009
3/6/2009
4/6/2009
5/6/2009
Date Sampled
CH4 % VOL


Burge % LEL
LaVeta Pines Ranch Lot 16
7/11/07 through 6/9/09
RKI Values
120
100
80
60
40
20
0
7/11/2007
8/11/2007
9/11/2007
10/11/2007
11/11/2007
12/11/2007
1/11/2008
2/11/2008
3/11/2008
4/11/2008
5/11/2008
6/11/2008
7/11/2008
8/11/2008
9/11/2008
10/11/2008
11/11/2008
12/11/2008
1/11/2009
2/11/2009
3/11/2009
4/11/2009
5/11/2009
Date Sampled
% LEL


Burge CH4 % VOL
LaVeta Pines Ranch Lot 16
7/11/07 through 6/9/09
RKI Values
120
100
80
60
40
20
0
7/11/2007
8/11/2007
9/11/2007
10/11/2007
11/11/2007
12/11/2007
1/11/2008
2/11/2008
3/11/2008
4/11/2008
5/11/2008
6/11/2008
7/11/2008
8/11/2008
9/11/2008
10/11/2008
11/11/2008
12/11/2008
1/11/2009
2/11/2009
3/11/2009
4/11/2009
5/11/2009
Date Sampled
CH4 % VOL


BLM 15-12 % LEL
6/1/09 through 6/1/09
120
100
80
60
40
20
0
RKI Values
6/1/2009
Date Sampled
% LEL


HAUPT #1 % LEL
City Ranch Lot 83
6/1/09 through 6/1/09
120
100
80
60
40
20
0
RKI Values
6/1/2009
Date Sampled
% LEL


Haupt CH4 % VOL
City Ranch Lot 83
6/1/09 through 6/1/09
7
6
5
4
3
2
1
0
RKI Values
6/1/2009
Date Sampled
CH4 % VOL