### Petroglyph Operating Company June/July 2009 Monthly Report

Covering the period of 6/15/09 through 7/19/09

Prepared for Colorado Oil and Gas Conservation Commission

July 24, 2009

Prepared by

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## Petroglyph Operating Company, Inc. Monthly Report – June/July 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 (June 14) through July 19, 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 seven and a half months beginning on December 8<sup>th</sup>. 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 7.17 MCFD on July 12, 2009. The Kittleson well was not being pumped from June 20 through 30<sup>th</sup> due to equipment issues. These issues have been repaired and the Kittleson well is being pumped. Gas flows have increased slightly after restart of the pumping from 6.21 MCFD. Initially when the pumps were restarted, gas flow was measured at 9.74 MCFD, but the gas flow showed a steady decline for the first week after restart and has remained fairly steady at 7.15 to 7.25 MCFD since July 8<sup>th</sup>. Recovery 3 gas flows were measured at approximately 0.75 MCFD at the start of mitigation and increased to approximately 1 MCFD and remained around 1 until late February and then began a slow and steady decline to approximately 0.36 to 0.4 MCFD and have remained fairly steady within that range since on June 6, 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 July 12, 2009 were 0.0009 MCFD. The average pumping rate for Recovery 1 has been 18.8 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 has not been pumped since early April 2009.

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 1.1 to 6.5 gpm. The two wells on the Rohr property (Injection 04 and 05) have accepted the most water. Injection 08 Haeffner has not accepted water very well. All of the approximately 5.4 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 gains or losses and the difference is most likely a result of limitations in calibration of the instrument readings.

Petroglyph installed a monitoring well, POCI 55, to monitor potential changes in the well water levels or presence of methane gas as a result of the remedial system pumping. Petroglyph also has an extensive monitoring program for domestic water wells surrounding the remediation system for changes in both water levels and in gas detected at the wellhead. In addition, Petroglyph monitors several of their production wells for changes in water level. All of these results are discussed in subsequent sections of this report. None of the monitoring has ever shown results that can be directly attributable to the remediation system pumping.

#### 2.0 Phase II Remediation System

Petroglyph submitted the Phase II Methane Remediation System Class V Underground Injection Control (UIC) permit application to Region 8 of the EPA on January 7, 2009. The draft permit has been issued for public comment and a public meeting has been scheduled for August 10<sup>th</sup> to be held in Walsenburg. 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 3 gas samples for gas isotope analysis during the reporting period (Smith, Cordova and Gonzales). In addition, Petroglyph collected 12 water samples for analysis (Bergman, Masters, Barrett, Hopke, Dee/Searle, Rohr, Bruington, Kerman, Goodwin, English, Fitzner, and Conley). Results received for samples since the last reporting period are included on the data disk and include gas analyses for Eddleman, Bruington, the BLM well and Haupt #1 and water analyses for Barrett, Burge, Conley, Goodwin, Haynes, Hopke, Masters, McPherson, and Wolahan. The results for all dissolved methane sampling collected to date, including the most recent sample results, are shown in Table 2 with those results received since the last reporting period highlighted in yellow.

#### Methane Source Investigation

Petroglyph continues to evaluate the source of methane both in the domestic wells in the vicinity of the production wells and closer to the outcrop. Monitoring of the BLM well continues and the well continues to show levels of methane gas in handheld measurements at the wellhead. The Haupt #1 well drilled closer to the outcrop also continues to be monitored with levels of methane gas measured at the wellhead. Both results are included in Table 3. Any additional information on the ongoing investigation will be included in the monthly reports and/or in separate reporting as the data is collected and evaluated.

#### 4.0 Monitoring

#### Down-hole Pressure and Fluid Level Monitoring

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 located in the Silver Spurs Ranch Subdivision. The Garza-Vela well in City Ranch is also typically monitored; however the pressure transducer in the Garza-Vela well failed and has not yet been replaced so no data is included during this reporting period for that well. 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.

POCI 55 showed a slight increase from approximately 58.1 to approximately 58.2 psi during the first part of the reporting period and then a larger increase to above 59 psi during the period of time that the Kittleson recovery well was not pumping (June 20-30, 2009). The pressure began to slowly decline after the Kittleson well was restarted, but as of the end of the reporting period were 58.975 psi and had not yet returned to the levels prior to the Kittleson shutdown. During the reporting period, water samples were collected from the Barrett, Bergmann, and Bruington with associated drawdown to collect water samples. The Barrett well was experiencing a slight increase in water levels until the well was pumped and a water sample was collected on June 24<sup>th</sup>. Since that time the water levels have not yet fully recovered to pre-sampling levels. The Bergman pressures were relatively consistent with slight variations both up and down until the well was pumped. Since that time the water levels have not yet fully recovered to presampling levels. The Bruington well continues to show an upward pressure and water levels even with the pumping and collection of a water sample. The Meyer water well showed a drop in March of 2009 and has not yet recovered to levels prior to the drop. The water level during this reporting period showed a very slight overall decline. The Coleman well showed a slight overall increase in pressure while the Evendon well pressures continue with a slight overall decline in pressures.

#### **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.

Attachment 3 includes graphs representing gas flow measurements from Bruington, Coleman, Angely, Bounds and Smith. Measurements for the Coleman well since the last reported measurements included three pumping periods with a maximum flow rate ranging from 42 to 47 MCFD and durations of gas flow ranging from 10 to 30 minutes.

The Bruington, Angely and Smith wells are not showing any gas. The Bounds well had one measurement during the reporting period at 0.528 MCFD. None of the wells appear to be showing any negative response attributable to the remediation system pumping.

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 and Rohr 04-14 wells because the power in the well is off and waiting some repair work to the downhole sensors. 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. No new wells were added during the reporting period.

Table 3 shows all of the wells that have been sampled, the sampling start date, the date of the last sample, the number of samples since the last reporting period and a description of the sampling results and any changes from the previous reporting period. A column that discusses the historical readings for each site has been added to the table.

Of the 88 wells, 9 were not sampled during this reporting period. Sampling may vary during any one reporting period due to a variety of reasons. During this reporting period 28 wells were sampled once, 19 wells were sampled twice, 31 wells were sampled three times and 1 well was sampled four times.

As shown on Table 3, the comparison of monitoring results for the 79 wells previously sampled showed that overall gas levels at 53 wells had no change from the previous monitoring period measurements. Of those 53 wells with no changes, 52 wells had no detectable methane. Changes in % LEL, % by volume CH4, and % volume O<sub>2</sub> were

evaluated to determine if the area around the wellheads was showing an indication of increasing or decreasing methane gas content. Of the remaining 26 wells, 20 showed increases in methane, with 8 of those only slight increases and 6 showed decreases with 4 of those well showing a slight decrease.

Historically, 40 of the 88 wells that are monitored have never shown any detectable methane and 19 wells have shown only low to no detectable levels of methane or show only very infrequent methane readings. 10 wells showed high or variable levels of methane when first sampled and over time dropped to no detectable methane or infrequent readings of detectable methane. Nine wells show consistent higher levels of methane. Six wells show widely variable results with large changes from 0 to higher levels at each reading and no discernable trends. One well shows increasing levels of methane. Three wells have limited sampling.

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

#### Within 1 Mile of Remediation System

#### Current

- Gas near 26 wellheads monitored
- 2 wellheads not sampled during this reporting period
- 2 wellheads were not sampled
- 14 wellheads showed no change and no detectable methane gas with 1 wellhead showing no change and detectable methane levels
- 7 wellheads showed increased methane with 4 of those only a slight increase
- 2 wellheads showed slightly decreased methane levels

#### Historic

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

#### River Ridge Ranch Subdivision and Vicinity Outside of One Mile Current

- Gas near 23 wellheads monitored
- 6 wellheads not sampled during this reporting period
- 16 wellheads showed no change and no detectable methane gas
- 1 wellhead showed slightly decreased methane levels

#### Historic

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

#### **City Ranch and Other Properties**

#### Current

- Gas near 14 wellheads monitored
- 10 wellheads showed no change and no detectable methane gas
- 3 wellheads showed an increase with 2 wellheads only a slight increase in methane gas
- 1 wellhead showed slightly decreased levels of methane gas

#### Historic

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

#### **Silver Spurs Ranch**

#### Current

- Gas near 24 wellheads monitored
- 1 wellhead was not sampled during the reporting period
- 11 wellheads showed no change and no detectable methane
- 10 wellheads showed increased methane with 2 wellheads showing only slight increases
- 2 wellheads showed decreased levels of methane gas with 1 wellhead showing only a slight decrease

#### Historic

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

#### **Black Hawk Ranch**

- Gas near 1 well monitored with no change and no detectable methane
- No methane has ever been detected at this wellhead

Table 4 shows the current monitoring schedule including which wells are monitored biweekly and which wells are monitored monthly or at a different frequency. The schedule has been updated to include the most recently approved monitoring schedule which eliminated all weekly monitoring in accordance with the approval of the COGCC. Attachment 5 includes charts of gas monitoring of eighteen wells near the mitigation system. The wells being monitored have not indicated a direct response to the remediation pumping and injection. During this period, the changes include that the Masters #2 wellhead showed measurable methane readings in the last measurement, as did the Smith wellhead, both of which had not had measurable methane for a period of time (Smith since late 2008 and Masters #2 since late 2007. The Masters #2 well produced measurable methane after pumping to collect a water sample. This response will require further study and will be discussed in a separate report of the water quality results as discussed above. The Hopke wellhead continues to show a decline in CH4 % by volume although the LEL remains at >100%. Other readings have remained consistent with previous measurements.

#### Hand Held Measurements

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

#### 5.0 Mitigation

#### Methane Alarms

Petroglyph's contractor installed a methane monitor and alarm, SMC Model 2001, in the home of Tom Gonzales (City Ranch) during the reporting period. There are currently a total of 15 homes with alarm systems provided by Petroglyph. No alarms have ever been triggered by the presence of methane.

#### Water Supply

Petroglyph is currently providing water to 16 homes. Table 6 provides a list of the homes currently receiving water. Water is delivered as needed and can vary from month to month due to residential water use and whether or not the homes are occupied. No new homes were added to the list during this reporting period.

#### Public Outreach

Craig Saldin attended River Ridge Board of Manager's Meetings on July 18, 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.

- A public meeting on the Phase II UIC permit will be held August 10 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

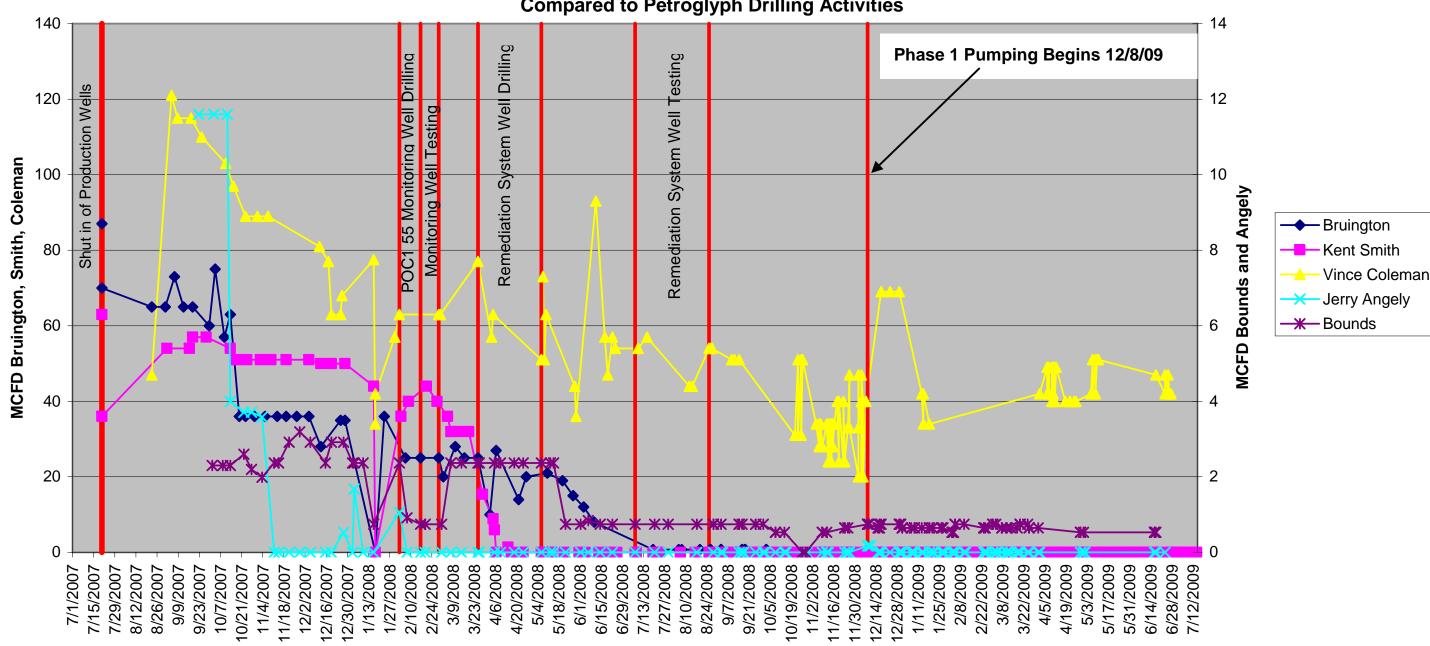


Table 1: Recovery and Injection Rates associated with Phase 1 MIMMP (as of 6/1/0/.09)

				(45 01 0/	1707.03)	T	
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	1.1	305,400	
Injection 02 Gonzales	600	575	362	12/10/2008	1.2	289,000	
Injection 03 Benevides	725	629	454	12/10/2008	1.1	294,000	
Injection 04 Rohr	675	667	455	12/9/2008	5.5	1,463,000	
Injection 05 Rohr	750	735	458	12/10/2008	6.5	1,703,000	
Injection 06 Masters	725	695	438	12/10/2008	4.5	1,179,000	
Injection 07 Walden	750	713	457	12/10/2008	1.1	240,000	
Injection 08 Haeffner	650	713	365	12/10/2008	see note	2,420	Well does not accept water very well. Inject approx. 150 gallons every two weeks.
			Pump Depth		Average Pump Rate (gpm)		
Recovery 1 Kittleson	715	705	686	12/8/2008	18.8	5,168,000	
Recovery 3 PEI	625	591	575	12/8/2008	1 (see note)	273,000	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 has not been injected. Last pump date 4/8/09

	Table 2: Sa	ampling of [	Dissolved Gas	ses in Wate	r Wells
	Well	Sample Date	Analyte	Results (In ug/I)	Comments
	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
Mitigation	Recovery 1 Kittleson	7/8/08	Ethane	3.0	Grabbed during pump testing
wells	Recovery 1 Kittleson	7/8/08	Methane	4,800	Grabbed during pump testing
Wolle	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	Angely, J	3/26/08	Ethane	35	by COGCC
within 1 mile of	Angely, J	3/26/08	Methane	15,000	by COGCC
Mitigation	Barrett, T	6/24/09	Methane	18,000	
System	Barrett, T	6/24/09	Ethane	11	
	Barrett, T	6/24/09	Ethene	12	
	Burge, K	8/5/08	Methane	3,900	
	Burge, K	12/18/08	Ethane	2.3	
	Burge, K	12/18/08	Methane	3,600	
	Burge, K	6/9/09	Ethane	3	
	Burge, K	6/9/09	Ethene	2.4	
	Burge, K	6/9/09	Methane	3,300	

Table 2: Sa	ampling of [	Dissolved Gas	ses in Wate	r Wells
Well	Sample Date	Analyte	Results (In ug/I)	Comments
Coleman, V	3/1/08	Methane	4,600	filtered via house water filter
Coleman, V	9/23/07	Methane	4,300	filtered via house water filter
Coleman, V	9/23/07	Methane	5,000	raw- not filtered
Coleman, V	3/1/08	Methane	5,100	raw- not filtered
Coleman, V	12/4/08	Ethane	7	raw- not filtered
Coleman, V	12/4/08	Methane	5,900	raw- not filtered
Coleman, V	5/9/09	Ethene	2.4	raw- not filtered
Coleman, V	5/9/09	Ethane	9	raw- not filtered
Coleman, V	5/9/09	Methane	6,100	raw- not filtered
Conley, J	3/24/08	Methane	ND	
Conley, J	12/4/08	Ethane	U	
Conley, J	12/4/08	Methane	1.5	
Conley, J	6/15/09	Ethane	1.6	
Conley, J	6/15/09	Ethene	2.4	
Conley, J	6/15/09	Methane	2.5	
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	
Hopke, B	6/22/09	Methane	4,200	
Hopke, B	6/22/09	Ethane	7.2	
Hopke, B	6/22/09	Ethene	2.4	
Hoppe, C	10/23/08	Ethane	ND	
Hoppe, C	10/23/08	Methane	19	
Houghtling, J	2/25/08	Methane	9.2	
Kerman, T	3/1/08	Methane	170	
Kerman, T	12/4/08	Ethane	U	
Kerman, T	12/4/08	Methane	1.1	
Masters, T	6/29/09	Ethane	10	
Masters, T	6/29/09	Ethene	2.4	
Masters, T	6/29/09	Methane Methane	14,000	
McPherson P	3/29/08	Methane	54 U	
McPherson, P	12/4/08	Ethane	_	
McPherson, P	12/4/08	Methane	950	
McPherson, P	6/3/09	Ethane	16 24	
McPherson, P	6/3/09	Ethene	24	

	Table 2:	Sampling of I	Dissolved Ga	ses in Wate	r Wells
	Well	Sample Date	Analyte	Results (In ug/I)	Comments
	McPherson, P	6/3/09	Methane	1,700	
	Searle, S	3/14/08	Methane	7.5	
	Searle, S	12/8/08	Ethane	U	
	Searle, S	12/8/08	Methane	5.8	
	Campbell, J	2/23/09	Ethane	0.6	
	Campbell, J	2/23/09	Methane	110	
	Goodwin, R	3/14/08	Methane	240	
	Goodwin, R	12/15/08	Ethane	U	
	Goodwin, R	12/15/08	Methane	U	
	Goodwin, R	6/29/09	Ethane	1.6	
	Goodwin, R	6/29/09	Ethene	2.4	
Wells on	Goodwin, R	6/29/09	Methane	5.2	
RRR ex	Rhoads, K	2/23/09	Methane	21	
near	Roloff, B	8/5/08	Methane	3,800	
Mitigation	Speh, D	10/8/08	Methane	7,200	
System	Wolahan	3/10/08	Methane	75	
	Wolahan, E	12/4/08	Ethane	U	
	Wolahan, E	12/4/08	Methane	210	
	Wolahan, E	6/4/09	Methane	24	
	Wolahan, E	6/4/09	Ethene	2.4	
	Wolahan, E	6/4/09	Ethane	1.6	
	Meyer, J	4/29/09	Ethane	ND	
	Meyer, J	4/29/09	Methane	19,000	
	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	
Wells on	Fitzner, P	12/1/08	Methane	4,600	
Silver Spurs	Geisklbrecht, G	9/30/08	Methane	ND	
Ranch	Haynes, E	6/4/09	Methane	0.8	
unless	Haynes, E	6/4/09	Ethane	1.6	
noted	Haynes, E	6/4/09	Ethene	2.4	
	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 Vater Well Measurements for the Period of June 14 to July 19	. 2009
Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
					or of Special Interest	
238689	Angely	7/5/07	6/23/09	6/23/09	Methane detected at levels >100 % LEL and above 10% CH4 by volume until approximately 4/9/08, then began dropping and reached approximately 0 by 5/28/08. Have remained at or near 0 except for jump in 12/10/08 and 3/18/09 readings.	No change from previous measurements with 0 %LEL and CH4 % volume, O2% volume at 20.9 and no detected H2S or CO. (This well is sampled by COGCC or their contractor.)
257994	Barrett	7/12/07	7/13/09	6/17/09, 6/24/09, 7/13/09	Methane detected at levels >100 % LEL and above 10% CH4 by volume until approximately 9/4/07, then began dropping through 3/25/09 and have remained at or near 0 since that time.	<ul> <li>% LEL increased from 44 to 88</li> <li>CH4% volume increased from 2.2 to 4.4</li> <li>O2% volume increased from 20.8 to 20.9</li> <li>CO and H2S remained unchanged at 0 ppm</li> </ul>
244403	Bergman	7/6/07	7/13/09	6/17/09, 6/29/09, 7/13/09	The methane has been variable with higher and lower values until 11/28/07 and then mostly levels at >100 %LEL and greater than 10% CH4 by volume.	<ul> <li>% LEL remained unchanged at &gt;100 with a low of 35 on 6/29</li> <li>CH4% volume decreased from 35 to 15 with a low reading of 1.75 on 6/29</li> <li>O2% volume increased from 11.4 to 17.2 with a high of 20.9 on 6/29</li> <li>CO and H2S remained unchanged at 0 ppm</li> </ul>
181278	Bounds	7/12/07	6/23/09	6/23/09	Readings from this wellhead have been consistently at or above 100 %LEL with levels of CH4% by volume near 100. This wellhead has also shown fairly consistent low levels of H2S until 6/25/08 with variable levels after that time.	No change from previous measurements with 100 %LEL, 97 % CH4 by volume and no detectable O2, CO or H2S. (This well is sampled by COGCC or their contractor.)
169043	Burge	3/20/09	7/13/09	6/18/09, 7/7/09, 7/13/09	Methane detected at levels >100 % LEL and above 10% CH4 by volume until approximately 1/17/08, then began dropping through 3/14/08 and have remained at or near 0 since that time except for a single high reading on 7/2/08.	<ul> <li>% LEL and CH4 % by volume remained unchanged at 0</li> <li>O2% volume decreased from 20.9 to 17.8 in last reading</li> <li>CO and H2S remained unchanged at 0 ppm</li> <li>The cistern was not sampled during this reporting period.</li> </ul>
267694	Coleman	7/5/07	7/13/09	6/17/09, 6/26/09, 7/13/09	Methane detected at wellhead at levels >100 % LEL and above 5% CH4 by volume until approximately 8/15/07, then began dropping with no methane detected since 10/30/07. Most recent reading showed a detectable level of methane. Well vent has shown more variable and generally higher readings than the wellhead.	At the wellhead no change from previous measurements for 6/17/ and 6/26 readings with 0% LEL and CH4, O2% volume at 20.9 and no detectable CO and H2S. The 7/13/ readings showed and increase to >100 %LEL, 5% by volume CH4 and a decrease in O2% to 20.2 with no detectable CO or H2S. At the well vent (which was not measured on 7/13/):  • % LEL increased from 0 to 13  • CH4% volume increased from 0 to 0.65  • O2% volume decreased from 20.9 to 20.8  • CO and H2S remained unchanged at 0 ppm
235516	Colorado Switzer	7/12/07	7/2/09	6/15/09, 6/26/09, 7/2/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
255929	Conley	7/11/07	6/15/09	6/15/09	No methane has ever been detected at this wellhead.	No change from previous measurements with no detectable methane and O2% volume at 20.9; CO and H2S at 0 ppm. Sampling also attempted on 7/2/09, but gate was locked so there was no access to the wellhead.
260097	Dee	7/5/07	6/30/09	6/30/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
252931	Derowitsch	7/6/07	7/13/09	6/17/09, 7/2/09, 7/13/09	Methane detected at wellhead at levels approximately 100 % LEL and mostly above 5% CH4 by volume until approximately 9/4/07, then methane levels dropped to 0 and has remained at 0 since that time.  Both the well vent and cistern have historically shown very low to 0 levels of methane.	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	6/26/09	6/26/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% at 20.9 and no Co or H2S.

				V	Table 3 Vater Well Measurements for the Period of June 14 to July 19	, 2009
Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
16861-F	Golden Cycle Land	7/12/07	7/13/09	6/17/09, 6/26/09, 7/2/09, 7/13/09	Readings initially showed methane at 100% LEL and greater than 20% by volume CH4, but dropped to 0 by 9/24/07 and remained at 0 (with two readings above 0 on 11/16/07 and 4/23/08) until 10/20/08. Starting 10/20/08 methane was once again detected at higher values along with CO at high levels and showings of H2S.	<ul> <li>%LEL remained at unchanged at &gt;100</li> <li>CH4% volume increased from 55 to 69 with a high of 82 during the period</li> <li>O2% volume remained at 0 with a high of 8.1 during the period</li> <li>CO increased slightly 88 ppm 177 ppm to 178 ppm with a high of 236 ppm during the period</li> <li>H2S increased from 6.5 to 16 ppm</li> </ul>
253317	Gonzalez	7/12/07	6/11/09	None	No methane has ever been detected at this wellhead.	Not sampled during this reporting period.
256504	Hopke	7/5/07	7/13/09	6/17/09, 6/26/09, 7/13/09	Readings consistently measure methane at >100% LEL and at values of CH4% by volume fairly consistently above 20. The well has shown an overall slow decline in CH4 % by volume over time. H2S also has shown a decline over time such that most recent readings have been at or slightly above 0. No methane has ever been detected at the cistern.	At the wellhead:  • % LEL remained unchanged at >100  • CH4% volume decreased slightly from 23 to 19  • O2% volume increased slightly from 13.3 to 15.5  • CO and H2S remained unchanged at 0 ppm At the cistern: no changes from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
236272	Houghtling	7/6/07	7/13/09	6/17/09, 7/13/09	Methane levels at this wellhead have been consistently >100% LEL with CH4% by volume fairly consistently above 20 with some lower values (but not 0).  No methane has ever been detected at the cistern.	At the wellhead:  • % LEL remained unchanged at >100  • CH4% volume increased from 65 to 97  • O2% volume increased slightly from 0 to 1.8  • CO and H2S remained at 0 ppm No measurement was taken at the cistern.
35292	Kerman/Hanson	7/6/07	7/13/09	6/17/09, 7/8/09, 7/13/09	Values at this wellhead have been at or near 0 with two readings of >100% LEL and greater than 5% by volume CH\$ on 12/2/08 and 12/22/08.  No methane has ever been detected at the cistern.	At the wellhead:  • % LEL increased slightly from 0 to 0.3  • CH4% volume increased slightly from 0 to 0.02  • O2% volume decreased slightly from 20.9 to 20.7  • CO remained unchanged at 0 ppm  • H2S increased from 0 to 4.5 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	7/13/09	6/17/09, 6/26/09, 7/13/09	Readings from this well are somewhat variable with mostly 0 to low levels of methane and higher readings of >100% LEL and 5% or greater by volume CH4 from 1/14/09 to 1/26/09 and 5/1/09 to 5/5/09.	<ul> <li>% LEL remained at 0 with a high reading of 17 on 6/26</li> <li>CH4% volume remained at 0 with a high reading of 0.85 on 6/26</li> <li>O2% volume increased from 0 to 20.9</li> <li>CO decreased from 120 ppm to 0</li> <li>H2S decreased from 5 to 0 ppm</li> </ul>
222539	Lively	7/6/07	6/11/09	None	No methane has ever been detected at this wellhead.	Not sampled during this reporting period.
16861-F	Masters #1	8/13/07	7/13/09	6/17/09, 6/26/09, 7/13/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
257113	Masters #2	7/6/07	7/13/09	6/17/09, 6/25/09, 7/13/09	Methane is typically not detected at this wellhead. For the period from 9/24/07 through 10/30/07 low values of methane were detected with 10 % or less LEL and 1 % by volume or less CH4. The 7/13/09 reading also detected methane at higher levels.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm in first two readings. The 7/13/09 readings showed an increase;  • % LEL increased from 0 to 21  • CH4% volume increased from 0 to 1.05  • O2% remained at 20.9  • CO increased from 0 to 120 ppm  • H2S increased from 0 to 9 ppm
271136	May	7/12/07	7/2/09	7/2/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.

				v	Table 3 /ater Well Measurements for the Period of June 14 to July 19	, 2009
Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
84108-A	McPherson	7/6/07	7/13/09	6/17/09, 7/13/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
84106	Rohr	7/06/07	7/7/09	6/17/09, 7/2/09, 7/7/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
123144	Searle	7/11/07	7/2/09	6/15/09, 7/2/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
239657	Smith	7/5/07	7/13/09	6/17/09, 7/13/09 (Well vent and cistern not measured 7/13/09)	Detectable methane in early readings with % LEL at 100 or greater and % by volume of CH4 at up to 100. Began showing some variability in readings on 9/9/07 eventually decreasing until levels at 0 beginning 5/5/08. Three readings since that time on 5/21/08, 10/27/08 and 7/13/09 have shown >100% LEL and CH4 % by volume at or above 5.	At the well head:  • % LEL increased from 0 to >100  • CH4% volume increased from 0 to 8  • O2% volume decreased from 20.9 to 18  • CO and H2S remained at 0 ppm  At the well vent:  • % LEL decreased from >100 to 25  • CH4% volume decreased from 30 to 1.25  • O2% volume increased from 13.4 to 18.3  • CO and H2S remained at 0 ppm  At the cistern all values remained unchanged with 0 %LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
	BLM 15-12	6/1/09	7/15/09	7/15/09	Only two readings from this wellhead and both have shown similar levels of methane.	<ul> <li>% LEL remained at &gt;100</li> <li>CH4% volume increased from 73 to 89</li> <li>O2% volume decreased slightly from 4.6 to 4.4</li> <li>CO and H2S remained at 0 ppm</li> </ul>
Wells With	in or in Close Pro	ximity to Rive	er Ridge Ra	nch Subdivision		· · · · · · · · · · · · · · · · · · ·
249362	Andexler	9/9/07	7/2/09	6/10/09, 7/2/09	Only one reading on 3/25/09 has ever shown methane. This reading was 2% LEL and 0.10 % by volume CH4.	No change from previous measurements with no detectable methane, O2% at 20.9 and no measurable CO or H2S.
215706	Brice	7/12/07	7/2/09	7/2/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
248680	Campbell	8/14/07	6/18/09	6/18/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
270552	Chaves	9/9/07	7/13/09	7/13/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
20783	Goemmer Cattle	7/12/07	7/2/09	7/2/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
258815	Goodwin	7/12/07	7/13/09	6/18/09, 6/29/09, 7/13/09	Readings have shown methane levels at or near 0 with no readings above 0 since 1/26/09.	No change from previous measurements with no detectable methane, O2% at 20.9 (with a reading of 20.7 during the period), no detectable CO or H2S (with an H2S reading of 1 during the period.
	Haynes	5/5/09	6/4/09	None	No methane has ever been detected at this wellhead.	Not sampled during this reporting period.
249181	Hentschel	9/9/07	7/13/09	7/2/09, 7/13/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
259122	Higgins	9/26/07	7/13/09	6/18/09, 7/13/09	No methane has ever been detected at this wellhead	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
269435	Hoppe (formerly Goacher)	7/11/07	7/13/09	6/17/09, 7/13/09	No methane has ever been detected at this wellhead	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
264581	Ireland	7/12/07	7/13/09	6/18/09, 7/2/09, 7/13/09	Typically no methane, but methane has been detected on 12/2/08, 12/22/08, 1/6/09, and 9/24/09 with 100% or greater LEL and 5% by volume CH4.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
	Lang	10/29/07	7/28/08	None	No methane has ever been detected at this wellhead.	Sampling attempted 6/15/09, but gate was locked preventing access.

				v	Table 3  /ater Well Measurements for the Period of June 14 to July 19	). 2009
Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
93386	Lowry	7/12/07	7/2/09	7/2/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.Not sampled during this reporting period.
250369	Martin	7/12/07	6/11/09	None	No methane has ever been detected at this wellhead.	Not sampled during this reporting period.
248862	Meyer	8/14/07	7/13/09	7/13/09	Methane levels generally at >100% LEL and CH4 % by volume of greater than 5. Readings were a bit variable with some lower methane levels until 5/22/08 and then became consistently >100% LEL and CH4% by volume greater than 5.	<ul> <li>% LEL remained unchanged at &gt;100</li> <li>CH4 % volume decreased from 51 to 5</li> <li>O2% volume increased from 10.2 to 14.4</li> <li>CO and H2S remained at 0</li> </ul>
192203	Rankins	7/12/07	4/21/09	None	No methane has ever been detected at this wellhead.	Not sampled during the reporting period.
276994	Rhodes	9/9/08	6/10/09	None	No methane has ever been detected at this wellhead.	Not sampled during the reporting period.
274468	Roloff	9/9/07	4/21/09	None	No methane has ever been detected at this wellhead.	Not sampled during this reporting period.
254577	Ryerson	9/9/07	7/13/09	7/13/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
246775	Sharp	9/9/07	7/13/09	7/2/09, 7/13/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
267695	Speh	9/4/07	7/13/09	6/15/09, 7/13/09	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
230572	Willis	7/11/07	7/7/09	6/18/09, 7/7/09	No methane has ever been detected at this wellhead.	Not sampled during the reporting period.
240947	Wolahan	7/12/07	6/17/09, 7/13/09	7/13/09	No detectable methane except one measurement on 2/9/09 with levels at 5% LEL and 0.25% by volume CH4.	No change from previous measurements at the wellhead and cistern with both showing 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
City Ranch	and Other Proper	rties				
	Andreatta	8/14/07	7/7/09	6/18/09, 7/7/09	No methane has ever been detected at this wellhead.	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.
197472	Williams/Bartlett	8/15/07	7/2/09	7/2/09	No methane has ever been detected at this wellhead.	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.
210526	Bruington	8/7/07	7/14/09	6/15/09, 7/2/09, 7/7/09	Wellhead readings have shown consistent levels of methane at >100% LEL and CH4 % by volume at greater than 50. Some CO and H2S readings in mid to late 2008 but current readings have shown little to no CO and H2S. No methane has ever been detected at the cistern.	At the wellhead:  • % LEL remained unchanged at >100  • CH4% volume increased slightly from 89 to 93  • O2% volume increased slightly from 0 to 0.2  • CO remained unchanged at 0 ppm  • H2S decreased from 2.5 to 0.5  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	7/14/09	6/15/09, 6/30/09, 7/14/09	Initial readings were variable with readings as low as 0 and as high as >100% LEL and greater the 5% CH4 by volume. After 3/14/08 mostly readings at 0 with some readings at levels slightly above 0.	No changes from previous measurements with % LEL and CH4% volume at 0, O2% volume at 20.9 and CO and H2S at 0 ppm
191079	Brian Dale	8/15/07	7/2/09	7/2/09	Variability between 0 and >100% LEL and 5% or greater CH4 by volume until 11/14/08 and since that time no methane has been detected.	No change from previous measurement at Well #1 or Well #2 with 0% LEL, no detectable methane, O2% volume at 20.9, and CO and H2S at 0 ppm.
193092	Degan	8/25/08	7/2/09	6/15/09, 7/2/09	Initial readings were variable between 0 and >100% LEL and 5% by volume CH4. Since 2/17/09 there has been no detectable methane.	No change from previous measurements 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.
	Dernell	8/15/07	7/2/09	7/2/09	No methane has ever been detected at this wellhead.	No changes from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.

				W	Table 3 Vater Well Measurements for the Period of June 14 to July 19	2000
Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
258651	Gonzalez	5/22/08	7/13/09	6/16/09, 7/2/09, 7/13/09	Methane readings were >100% LEL and CH4 % by volume mostly above 20 until 4/9/09 when values began to reduce. Readings since that time have shown % LEL below 50 and CH4 % by volume below 3.  There has been no detectable methane at the cistern.	At the wellhead:  • % LEL 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	7/15/09	6/18/09, 7/15/09	There have only been 3 readings from this wellhead. All readings have shown % LEL at >100 with CH4 % by volume at 5-6 and O2% at less than 5.	Initial reading:  • % LEL at >100  • CH4% volume decreased slightly from 6 to 5  • O2% volume decreased from 4.5 to 0.2  • CO decreased from 4.5 to 0.2 ppm  • H2S remains at 0 ppm with a high of 20 during the period
203536	Hurley	8/2/07	7/13/09	7/13/09	Readings have fairly consistently shown >100% LEL and CH4 % by volume between 10 and 50 with a couple lower readings. H2S has also been measured, but starting around 9/08 values have been reduced to at or near 0 ppm.	At the wellhead:  • % LEL remained 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	7/14/09	6/15/09, 7/2/09, 7/14/09	Readings have shown mostly low values of methane (% LEL less than 20 and CH4 % by volume less than 1) with some 0 values. No detectable methane since 4/22/09.	There was no change at the wellhead, cistern and 2 <sup>nd</sup> wellhead with no detectable methane, 02% volume at 20.9 and CO and H2S at 0 ppm.
193520X	McEntee	8/2/07	7/14/09	6/15/09, 7/2/09, 7/14/09	Initially methane was detected at this wellhead at values of >100% LEL and greater than 10% by volume CH4. Starting 1/28/08 values dropped to at or near 0 with only one higher value on 2/17/09 (>100% LEL and 5% By volume CH4). No values above 0 since 4/22/09.	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	7/2/09	7/2/09	No methane has ever been detected at this wellhead	No change from previous measurements with no detectable methane, O2% at 20.9 and 0 ppm CO and H2S.
248983	Tobyas	8/3/07	7/13/09	6/18/09, 7/2/09, 7/13/09	Historically this wellhead has shown wide variance between o and higher methane values of >100% LEL and greater than 5% by volume CH4 with no discernable long term trends.	<ul> <li>% LEL increased from 0 to &gt;100</li> <li>CH4% volume increased from 0 to 16</li> <li>O2% volume decreased from 20.9 to 16.5</li> <li>CO remained at 0 ppm</li> <li>H2S increased from 0 to 3 ppm</li> </ul>
Silver Spu	<del>`</del>		i e	•		
268180	Billstrand	8/12/08	7/14/09	6/18/09, 7/7/09, 7/14/09	No methane has been detected at this wellhead except for a low reading on 5/6/09 (5% LEL and 0.25% by volume CH4).	No change from previous measurements with no detectable methane, O2% at 20.9 and 0 ppm CO and H2S.
215807	Brown	12/8/08	6/18/09	6/18/09	No methane has ever been detected at this wellhead.	No change from previous measurements with no detectable methane, O2% at 20.9 and 0 ppm CO and H2S.
222294	Cramer	8/3/07	6/18/09	6/18/09	Most methane readings have been at or near 0 with higher readings on 5/22/08 and 3/26/09 at >100% LEL and 5% by volume CH4.	At the wellhead:  • % LEL increased from 0 to 13  • CH4% volume increased from 0 to 0.65  • O2% volume decreased from 20.9 to 0  • CO increased from 0 ppm to 59 ppm0  • H2S increased from 0 ppm to 4.5 ppm The cistern was not measured during this reporting period.

				V	Table 3 Vater Well Measurements for the Period of June 14 to July 19	2000
Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
192509	Eddleman, Paul	1/17/08	7/14/09	6/18/09, 7/7/09, 7/14/09	Readings mostly above >100% LEL and 5% by volume CH\$ until 9/23/08 and then levels dropped to mostly 0 until 1/26/09. Since 1/26/09 readings have shown wide variability between low to 0 methane and >100% LEL and greater than 5% by volume methane. Since 6/9/09 methane levels have been consistently higher.	<ul> <li>% LEL remained unchanged at &gt;100</li> <li>CH4% volume decreased from 15 to 10</li> <li>O2% volume remained at 0</li> <li>CO went from 0 to 59 and ended at 13 ppm</li> <li>H2S went from 1.5 to 3 ppm</li> </ul>
226536	Eddleman, Todd	1/17/08	7/14/07	6/18/09, 7/7/09, 7/14/09	Methane readings have been widely variable from 0 to >100% LEL and 5% by volume CH4.	<ul> <li>% LEL increased from 0 to 19</li> <li>CH4% volume increased from 0 to 0.95</li> <li>O2% volume decreased from 20.9 to 15.8</li> <li>CO rand H2S remained unchanged at 0 ppm</li> </ul>
221465	Evenden	8/2/07	7/14/09	6/18/09, 7/7/09, 7/14/09	Methane readings have generally been at or near 0 with no detectable methane since 4/23/09 and higher readings on 3/24/08 (>100% LEL and 45% by volume methane) and 1/12/09 (>100% LEL and 5% by volume methane).	No change from previous measurements with no detectable methane, O2% at 20.9 and 0 ppm CO and H2S.
	Fischer	1/26/09	5/27/09	None	Only one reading has ever detected methane; on 2/17/09 methane values were 5% LEL and 0.25% by volume CH4.	Not sampled during this reporting period.
214145A	Fitzner	11/18/08	7/14/09	6/17/09, 7/7/09, 7/14/09	Methane levels have been at 0 except for readings on 12/15/08, 1/26/09, and 3/26/09 when values were >100% LEL and 5% by volume CH4.	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	7/14/09	6/15/09, 7/7/09, 7/14/09	Generally there is 0 to low methane levels except for readings on 3/1/08, 5/22/08, and 6/3/08.	<ul> <li>% LEL went from 0 to 3 ending at 0</li> <li>CH4% volume went from 0 to 0.15 ending at 0</li> <li>O2% volume went from 20.9 to 12.5 ending at 20.9</li> <li>CO and H2Sremained unchanged at 0 ppm</li> </ul>
196372	Geiselbrecht	8/12/08	7/7/09	6/18/09, 7/7/09	No methane has ever been detected at this wellhead.	No changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
246350	Gumpert	7/29/08	7/14/09	6/18/09, 7/7/09, 7/14/09	Methane readings have been widely variable with most readings either 0 or >100% LEL and 5% by volume CH4.	<ul> <li>% LEL increased from 0 to &gt;100</li> <li>CH4% volume increased from 0 to 10</li> <li>O2% volume decreased from 20.9 to 0</li> <li>CO and H2S remained unchanged at 0 ppm</li> </ul>
196371	Lyon	8/15/07	6/18/09	6/18/09	Most methane readings have been at or near 0 with higher values of >100% LEL and 5% by volume CH4 on 5/22/08 and 4/22/09.	<ul> <li>% LEL increased from 0 to &gt;100</li> <li>CH4% volume increased from 0 to 5</li> <li>O2% volume decreased from 20.9 to 8.2</li> <li>CO and H2S remained unchanged at 0 ppm</li> </ul>
271524-A	Modlish	1/30/08	7/7/09	6/18/09, 7/7/09	Most methane readings have been at or near 0 with higher values of >100% LEL and 5% by volume CH4 on 10/21/08 and 5/20/09.	<ul> <li>% LEL went from 0 to 37 and ended at 4</li> <li>CH4% volume went from 0 to 1.85 and ended at 0.2</li> <li>O2% volume went from 20.9 to 9.1 and ended at 6.2</li> <li>CO and H2S remain unchanged at 0 ppm</li> </ul>
28093MH	Morine	9/10/08	6/18/09	6/18/09	Only on reading above 0 has been detected at this wellhead. This reading occurred 1/12/09 and showed 5% LEL and 0.25% by volume CH4.	No change from previous measurements with 0 % LEL and CH4 % volume, O2% volume at 20.9 and CO and H2S at 0 ppm
35227MH	Morris	10/8/08	6/18/09	6/18/09	Only three readings have occurred at this well with one showing no methane and the other two at 43-44%LEL and 2.15-2.20% CH4 by volume.	<ul> <li>% LEL slightly increased from 43 to 44</li> <li>CH4% volume increased slightly from 2.15 to 2.20</li> <li>O2% volume decreased from 13.7 to 8.7</li> <li>CO decreased slightly from 61 to 59 ppm</li> <li>H2S decreased slightly from 5 to 4.5</li> </ul>
190327	Palmer	8/12/08	7/7/09	6/18/09, 7/7/09	No methane has ever been detected at this wellhead.	No changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.

				V	Table 3 Vater Well Measurements for the Period of June 14 to July 19	. 2009
Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History	If sampled, comparison of results from this period to last period
197128	Roberts	4/08/08	7/14/09	6/18/09, 7/7/09, 7/14/09	Methane readings have historically been widely variable from 0 to >100% LEL and 5% by volume CH4.	<ul> <li>% LEL went from 0 to 70 and ended the period at 22</li> <li>CH4% volume went from 0 to 3.5 and ended the period at 1.1</li> <li>O2% volume went from 20.9 to 11.1 and ended the period at 17.1</li> <li>CO remained unchanged at 0 ppm</li> <li>H2S increased from 0 to 3 ppm</li> </ul>
271748	Sample	3/10/08	7/14/09	6/18/09, 7/7/09, 7/14/09	Most of the readings from this wellhead have been at or near 0 detectable methane with higher readings on 5/22/08, 6/3/08, and 5/20/09 of >100% LEL and 5% by volume CH4.	<ul> <li>% LEL increased from 0 to 74</li> <li>CH4% volume increased from 0 to 3.70</li> <li>O2% volume decreased from 20.9 to 7.7</li> <li>CO went from 0 ppm to 4 ppm</li> <li>H2S went from 0 ppm to 3 ppm</li> </ul>
192144	Snow	8/2/07	6/18/09	6/18/09	No measurable methane until 10/4/07, then widely variable levels ranging from 0 to >100% LEL and 5% by volume CH4 with no discernable trends.	<ul> <li>% LEL increased from 0 to 25</li> <li>CH4% volume increased from 0 to 1.25</li> <li>O2% volume decreased from 20.9 to 5</li> <li>CO and H2S remain unchanged at 0 ppm</li> </ul>
213070	Stephens	8/12/08	7/7/09	6/18/09, 7/7/09	No methane has ever been detected at this wellhead.	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	7/14/09	6/18/09, 7/7/09, 7/14/09	Methane levels have been showing an overall increase since the start of monitoring with levels general very low at the start of monitoring in early 2009 and increasing to present, although not a consistent increase.  No methane has ever been detected at the cistern.	At the wellhead:  • % LEL changed from 58 to >100 to 23 and ended the period at 74  • CH4% volume changed from 2.9 to 13 to 1.15 and ended the period at 3.7  • O2% volume changed from 15.4 to 8.7 to 18.8 ending at 17.7  • CO remained at 0 ppm  • H2S went from 0 to 2 ppm  The cistern was not measured during this reporting period.
234836	White, Jim	1/4/08	7/14/09	6/18/09, 7/7/09, 7/14/09	Methane levels have been widely variable between no detectable methane and methane levels at >100% LEL and 5% by volume CH4 with no discernable trends. No methane has ever been detected at the cistern.	At the wellhead:  • % LEL decreased from >100 to 1  • CH4% volume decreased from 5 to 0.05  • O2% volume increased from 0 to 20.9  • CO remained unchanged at 0 ppm  • H2S increased from 1.5 to 3 ppm  The cistern was not measured during this reporting period.
219376	White, Orlie	8/2/07	6/18/09	6/18/09	Methane values historically at low to 0 with %LEL above 100 and CH4 % by volume at 5 to 10 on 5/22/08 and from 9/10/08 to 10/29/08.	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	7/7/09	7/7/09	No methane has ever been detected at this wellhead.	No changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
Black Haw	k Ranch					
218719	Goza	1/14/09	7/14/09	6/18/09, 7/14/09	No methane has ever been detected at this wellhead.	No changes from previous measurement with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.

## Table 4 Methane Readings Schedule (12 June 2009)

(12 June 2009)							
<u>Landowner</u>	Subdivision	Water Level	Cistern	<u>Bi-</u> Monthly	Monthly	Quarterly	Weekly
Monitoring Within 1 Mile Rad	ius or of Special Interes	st					
Kathy Dee	River Ridge				Х		
R. Gonzalez	River Ridge				Х		
McPherson	River Ridge			Х			
Rohr	River Ridge					Х	
Houghtling	River Ridge		Х	Х			
Kent Smith	River Ridge		Х	Х			
Bergman	River Ridge			Х			
Lively	River Ridge					Х	
Kerman	River Ridge		Х	Х			
Conley	River Ridge				Х		
Searle	River Ridge				Х		
Derowitsch	River Ridge		Х	Х			
Colorado-Switzer	River Ridge				Х		
English	River Ridge		Х		Х		
Golden Cycle Land (Goemmer)	River Ridge			X			
Burge	La Veta Pines			Х			
Barrett	River Ridge			Х			
Hopke	River Ridge		Х	Х			
Masters #1	River Ridge			Х			
Masters #2	River Ridge	Х		Х			
Coleman	River Ridge			Х			
BLM 15-12	La Veta Pines				Х		
Lively 10-02	River Ridge			Х			

## Table 4 Methane Readings Schedule (12 June 2009)

	(12 Julie 2009)						
<u>Landowner</u>	Subdivision	Water Level	Cistern	<u>Bi-</u> Monthly	<u>Monthly</u>	Quarterly	Weekly
River Ridge Ranch							
Wolahan	River Ridge		Х	Х			
Martin	River Ridge				Х		
Speh	River Ridge			Х			
Lang	River Ridge		Х			Χ	
Roloff	River Ridge	X			Х		
Hoppe (Goacher)	River Ridge			Х			
May	River Ridge				Х		
Brice	River Ridge				Х		
Goodwin	River Ridge		Х	Х			
Ireland	River Ridge			Х			
Andexler	River Ridge		Х		Х		
Sharp	River Ridge		Х	Х			
Ryerson	River Ridge	X		Х			
Meyers	River Ridge			Х			
Chaves	River Ridge	X		Х			
Hentschel	River Ridge			Х			
Rankins	River Ridge					Χ	
Lowry	River Ridge					Χ	
Goemmer Cattle	River Ridge					Χ	
Higgins	River Ridge	X		Х			
Campbell	River Ridge				Х		
Rhodes	River Ridge				Х		•
City Ranch							
T. Gonzalez	City Ranch		Х	Х			
Hurley	City Ranch	Х	Х	Х			

## Table 4 Methane Readings Schedule (12 June 2009)

(12 Julie 2003)							
Landowner	Subdivision	Water Level	Cistern	<u>Bi-</u> Monthly	Monthly	Quarterly	Weekly
Tobyas	City Ranch			Х			
Dale	City Ranch				Х		
McEntee	City Ranch				Х		
Johnson	City Ranch		Х		Х		
Cordova	City Ranch			Х			
Dernell	City Ranch				Х		
Schaefer	City Ranch					Χ	
Bruington	City Ranch		Χ	Χ			
Bartlett	City Ranch					Χ	
HAUPT #1	City Ranch				Х		
Deagan	City Ranch					Х	
Bear Creek/Silver Spurs							
Andreatta/Carsella	Bear Creek				Х		
Orlie White	Silver Spurs	X			Х		
Evendon	Silver Spurs				Х		
Roberts	Silver Spurs				Х		
Snow	Silver Spurs	X			Х		
Cramer	Silver Spurs	X	Х		Х		
Lyon	Silver Spurs				Х		
Jim White	Silver Spurs		Х		Х		
Garza-Vela	Silver Spurs				Х		
Modlish	Silver Spurs				Х		
Todd Eddleman	Silver Spurs				Х		
Paul Eddleman	Silver Spurs				Х		
Sample	Silver Spurs		X		Х		
Billstrand	Silver Spurs				Х		

Table 4 Methane Readings Schedule (12 June 2009)							
<u>Landowner</u>	<u>Subdivision</u>	<u>Water</u> <u>Level</u>	<u>Cistern</u>	<u>Bi-</u> Monthly	<u>Monthly</u>	Quarterly	<u>Weekly</u>
Waltz	Silver Spurs				Χ		
Stephens	Silver Spurs				Χ		
Palmer (G/S)	Silver Spurs				Х		
Geoselbrecht	Silver Spurs				Χ		
Morine	Silver Spurs				Х		
Morris	Silver Spurs				Х		
Brown	Silver Spurs	X			Х		
Fitzner	Silver Spurs				Х		
Fischer	Silver Spurs					Х	
Stetler	Silver Spurs		Х		Х		
Black Hawk Ranch							
Goza	Black Hawk				Х		

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

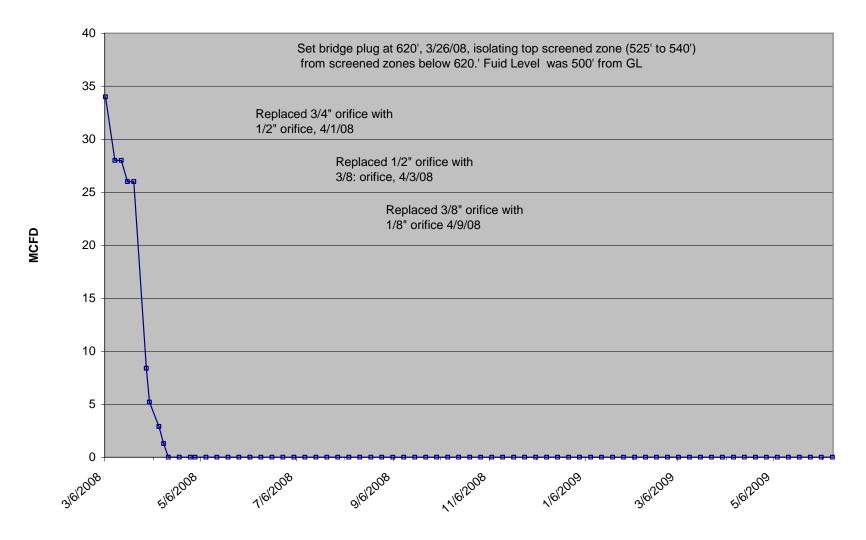
Table 5 Residences Receiving Water				
Jerry Angely	Has received water provided by PEI			
Kent Smith	Has received water provided by PEI			
Alan Cramer	Has received water provided by PEI			
Tom Gonzales	Has received water provided by PEI			
Spencer/Carol Snow	Has received water provided by PEI			
Bruington	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.

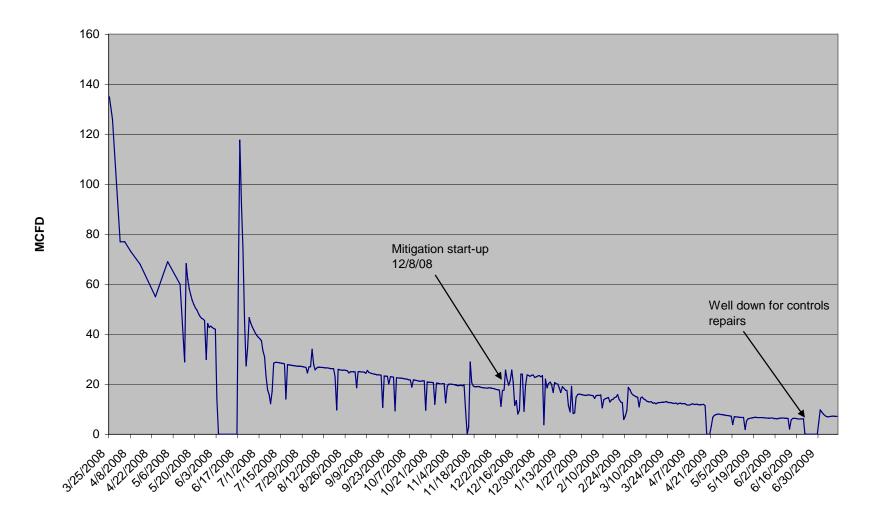
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## Attachment 1 Gas Flow in Monitoring Well POCI 55, Recovery 1 Kittleson, Recovery 3 PEI and Recovery 4 Barrett

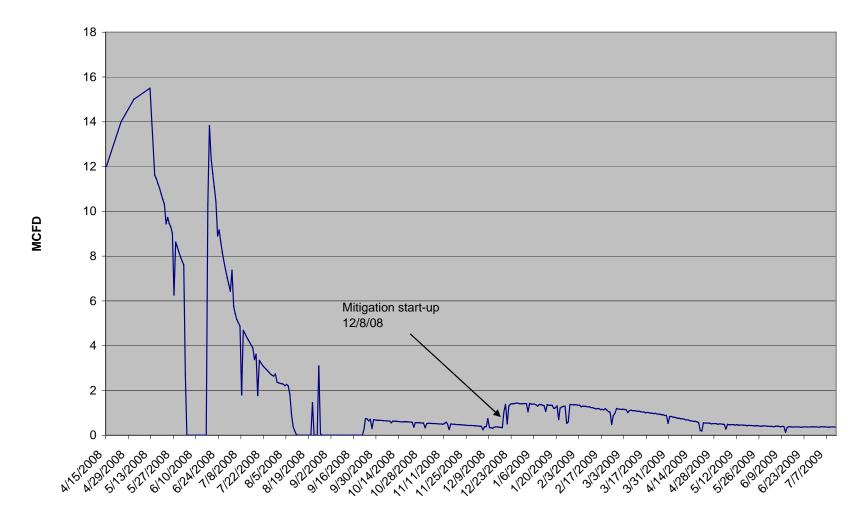
#### POCI 55 MW Gas Flow from 3/6/08 to 6/12/09



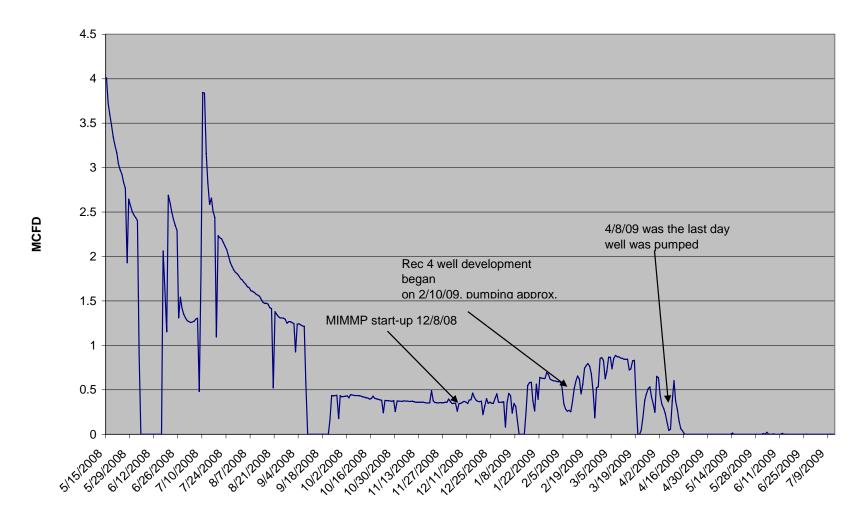
### Recovery 1 Kittleson Gas Flow from 3/25/08 to 7/12/09



### Recovery 3 PEI Gas Flow from 4/15/08 to 7/12/09



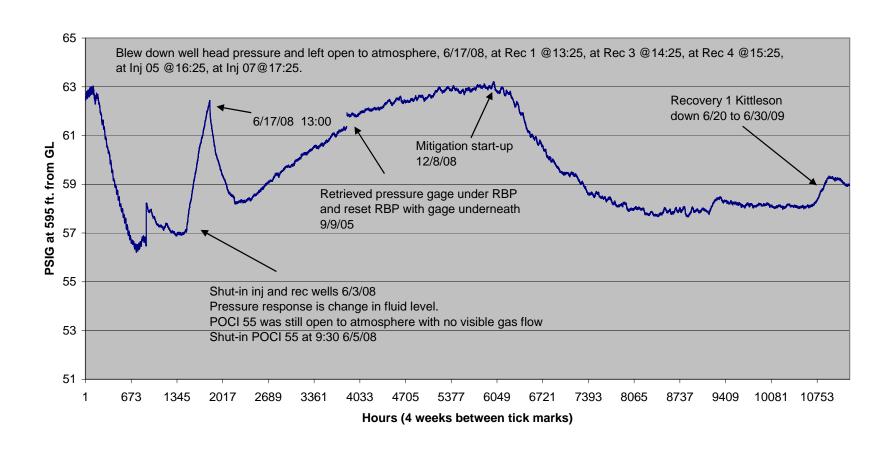
### Recovery 4 Barrett Gas Flow from 5/15/08 to 7/12/09



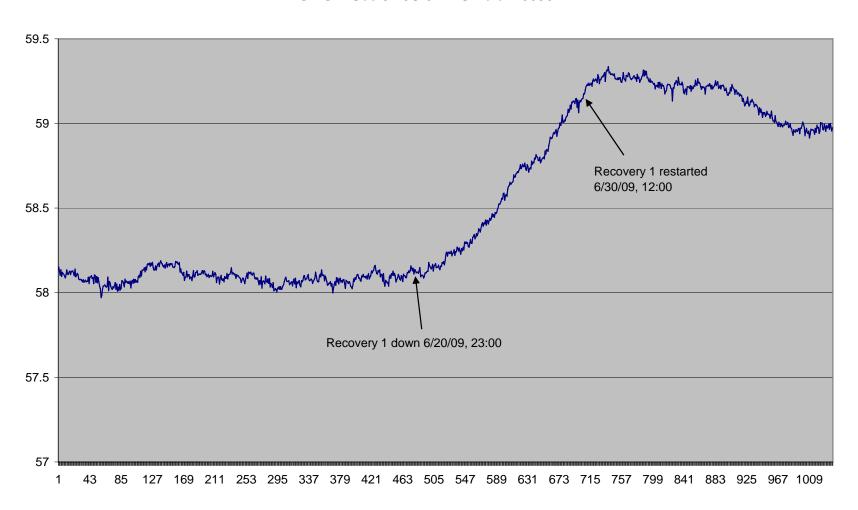
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Attachment 2
Graphs of Pressure and Fluid Level Data From
POCI 55, Barrett, Bergman, Bruington, Coleman, Evendon, Garza-Vela and Meyer

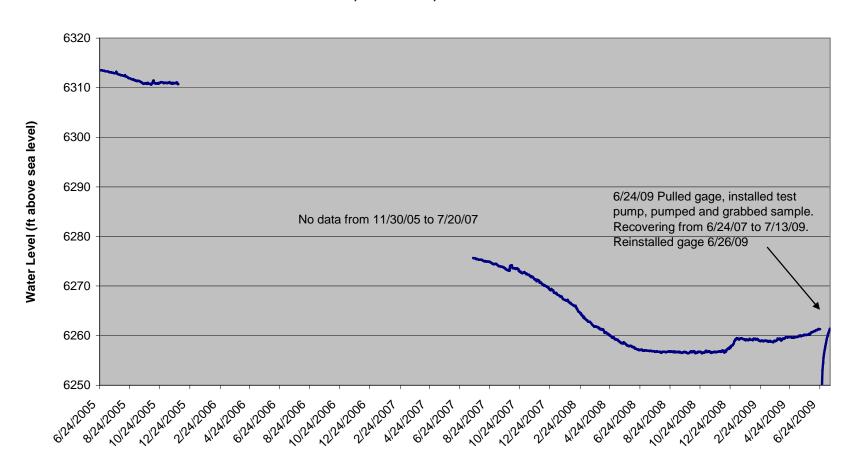
# POCI 55 Monitor Well from 4/2/08 to 7/14/09 Permit # 275819 Lot 55 RRR SE SW Sec 3 29S 67W GL elev. 6690'



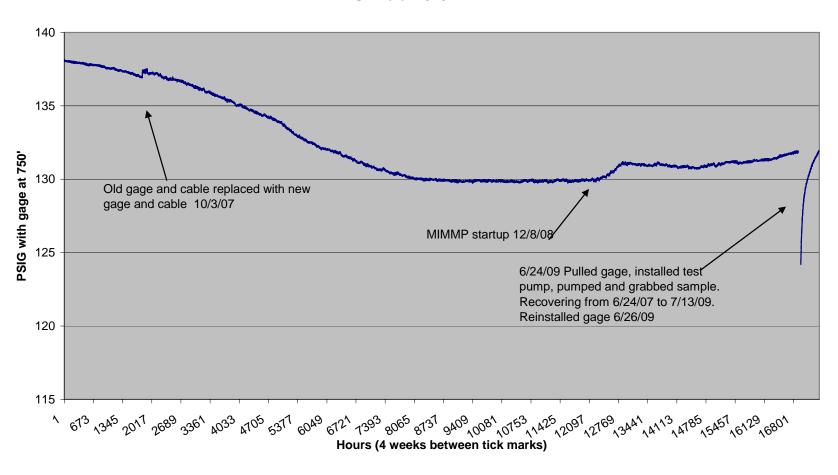
#### POCI 55 Monitor Well from 6/1/09 to 7/14/09 Permit # 275819 Lot 55 RRR SE SW Sec 3 29S 67W GL elev. 6690'



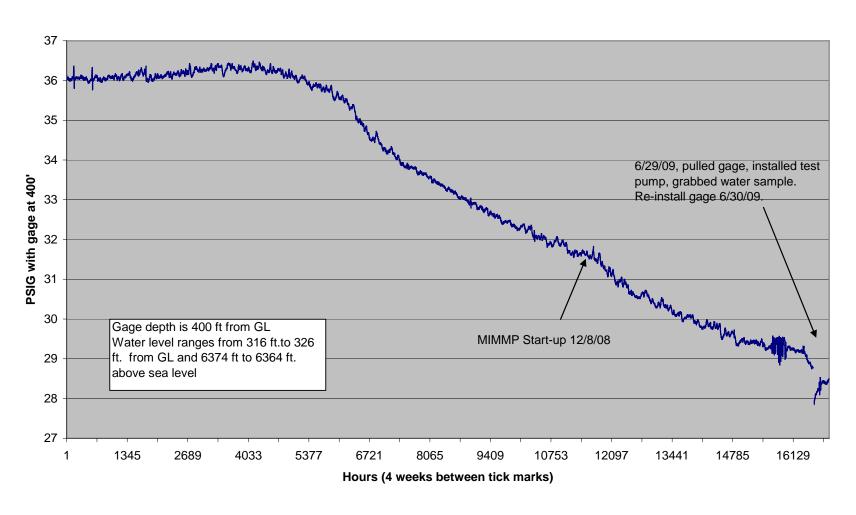
Barrett WW
Water Level from 6/24/05 to 7/14/09
Permit # 257994
Lot 57 RRR
NW, SE Sec 3, T29S R67W



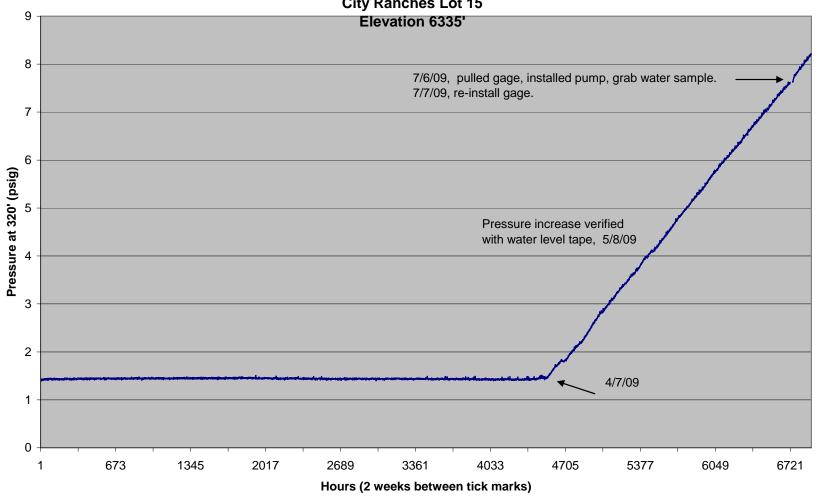
# Barrett WW from 7/20/07 to 7/14/09 Permit # 257994 Lot 57 RRR NW, SE Sec 3, T29S R67W G.L. elev. 6707'



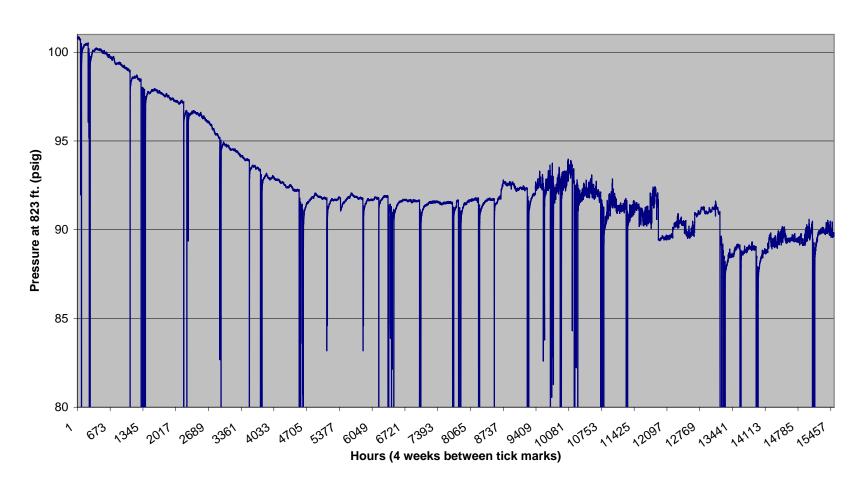
#### Bergman WW pressure data from 8/9/07 to 7/14/09 Permit # 24403, SW NW Sec 3 29S 67W Lot 48 RRR



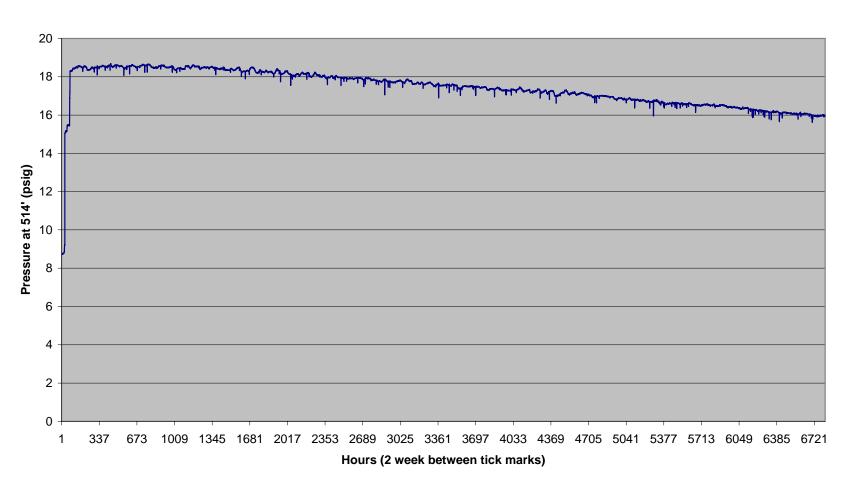
#### Pressure at 320' from 9/29/08 to 7/14/09 Bruington WW, Permit # 210526 City Ranches Lot 15



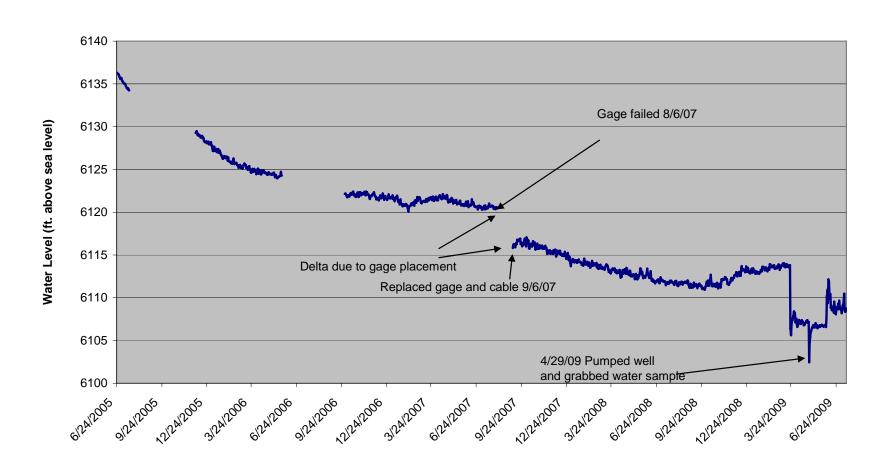
## Coleman WW Pressure Data from 10/31/07 to 7/14/09 Permit # 267964 NE SW Sec 10 29S 67W Lot 70 RRR G.L. elev. 6848'



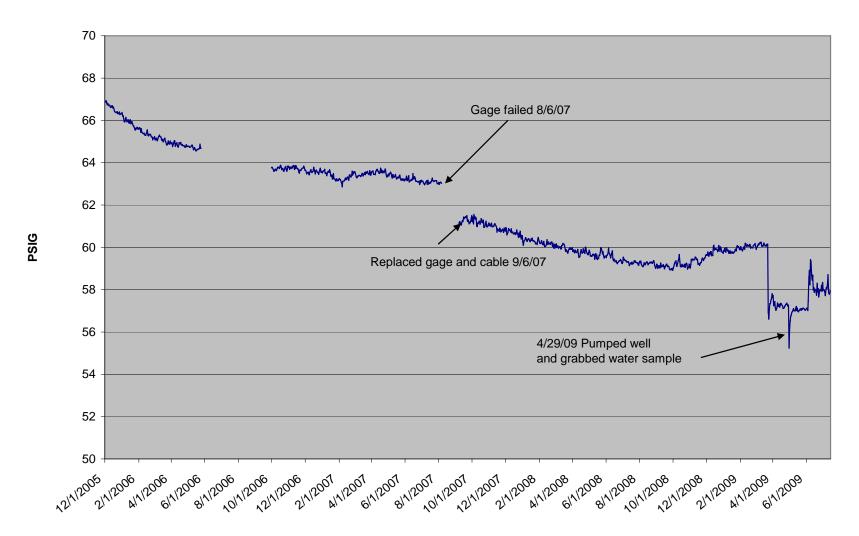
#### Pressure at 595' from 10/3/08 to 7/14/09 Evenden WW, Permit # 221465 Lot 117 Silver Spurs Ranch Elevation 6712'



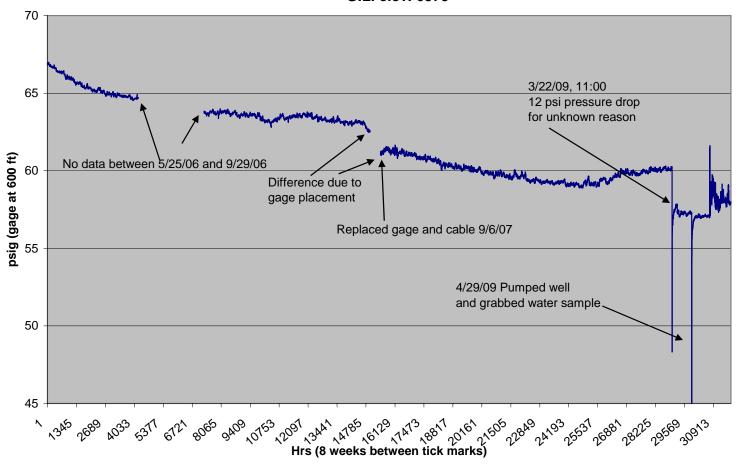
## Meyer WW Water Level from 6/24/05 to 7/14/09 Permit # 248862 Lot 120 RRR SW, NE Sec 30 T28S R66W



#### Meyers WW BHP from 12/1/05 to 7/14/09



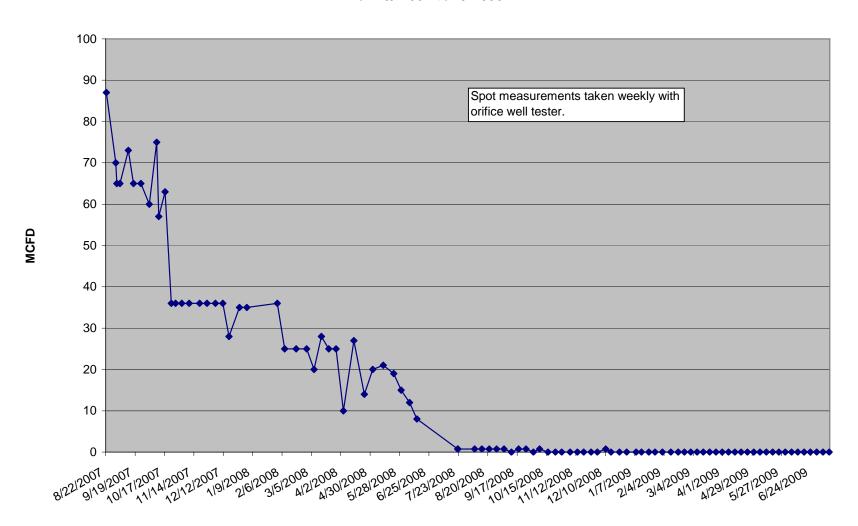
Meyers WW 11/30/05 to 6/11/09 Permit # 248862 Lot 120 RRR SW, NE Sec 30 T28S R66W G.L. elev. 6575'



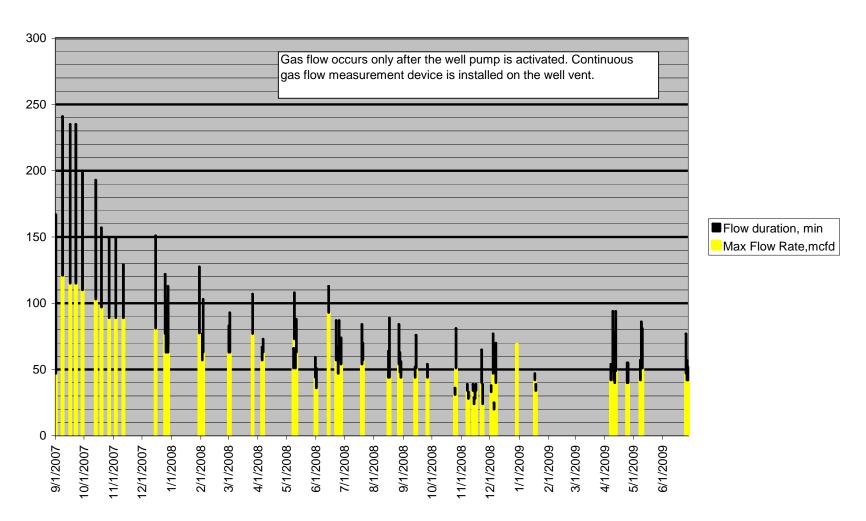
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Attachment 3
Gas Flow Measurements at Bruington, Coleman, Angely, Bounds, and Smith

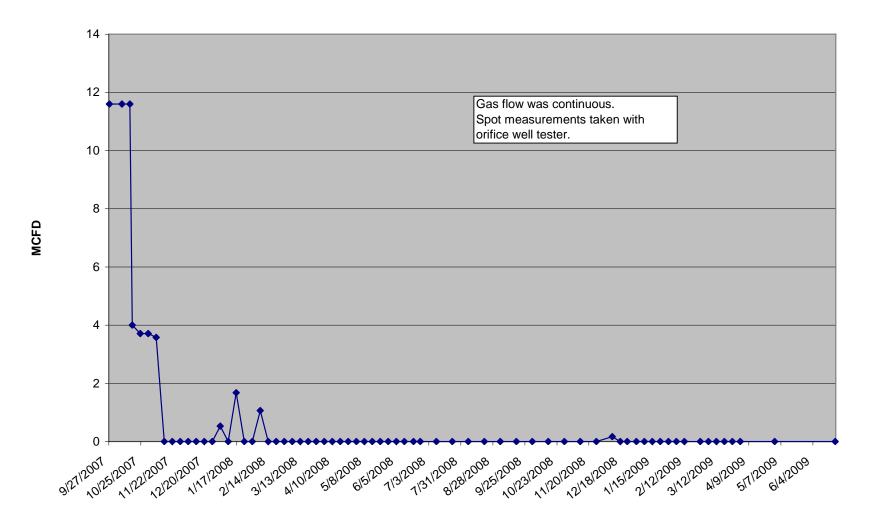
## Bruington WW # 210526 Measured Gas Flow from 8/22/07 to 7/11/09



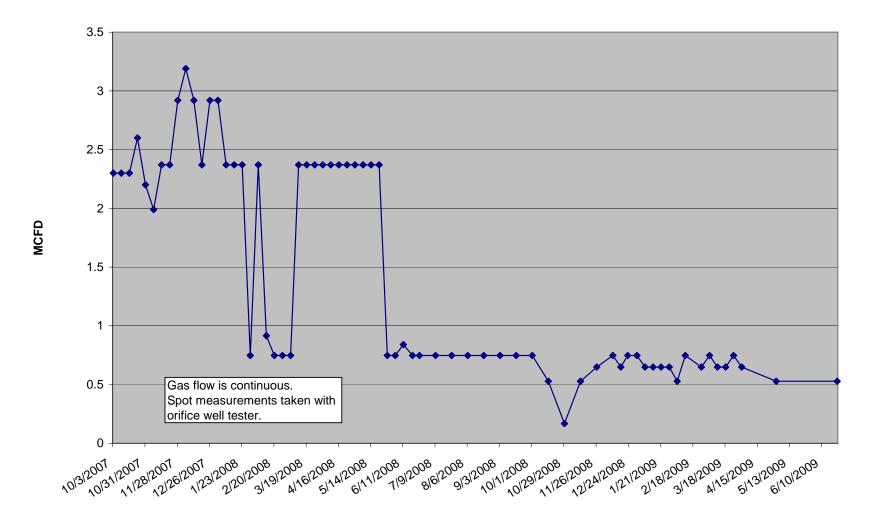
## Coleman WW #267294 Measured Gas Flow from 9/1/07 to 6/27/09



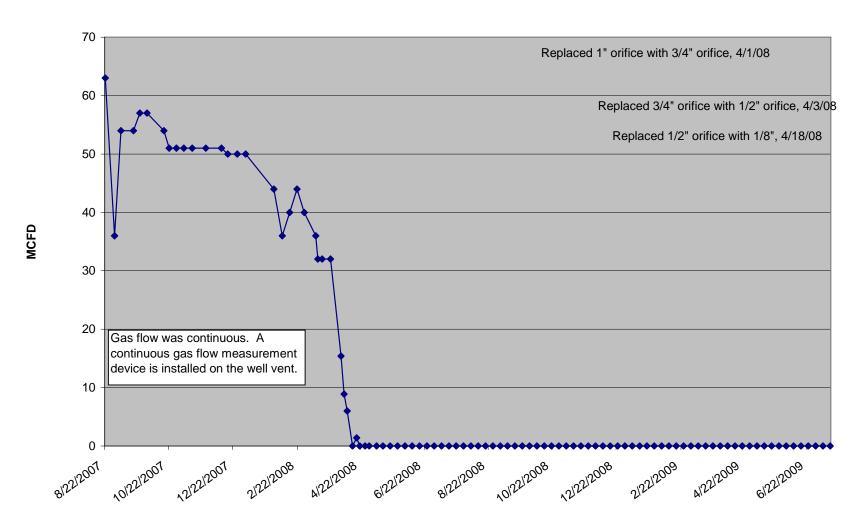
## Angely WW # 238689 Measured Gas Flow from 9/27/07 to 6/23/09



## Bounds WW #181278 Measured Gas Flow from 10/3/07 to 6/23/09



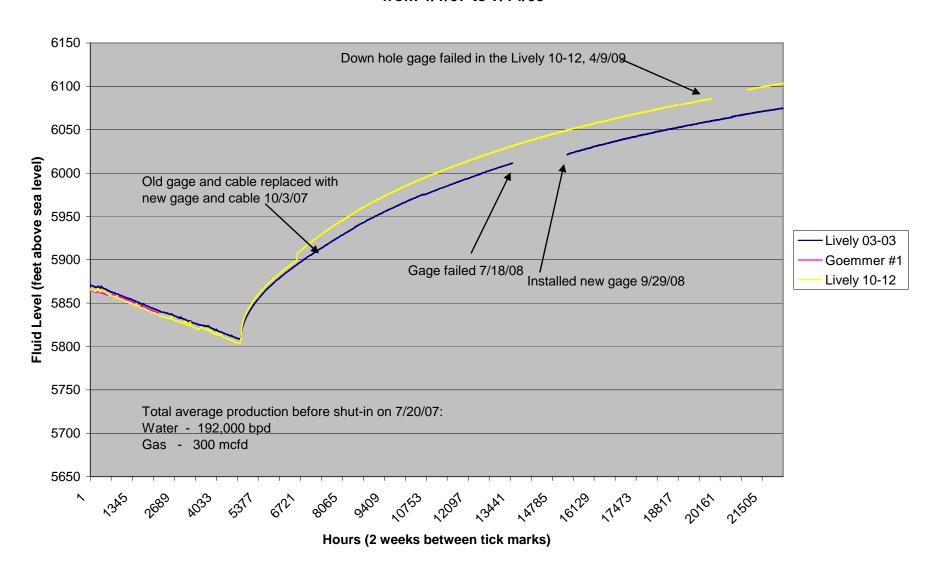
## Smith WW # 239657 Measured Gas Flow from 8/22/07 to 7/14/09



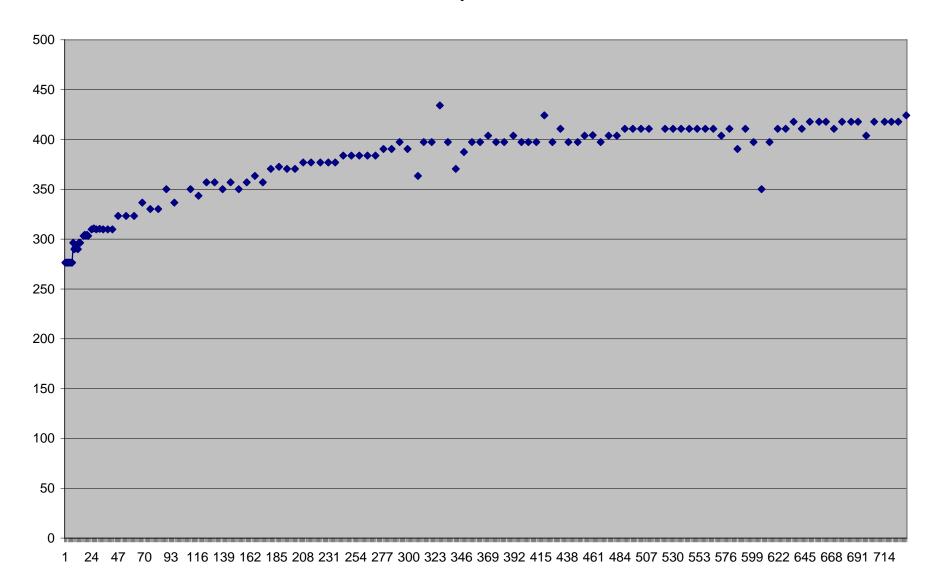
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Attachment 4
Fluid Levels in Petroglyph Production Wells
(Results in psia, unless stated otherwise)

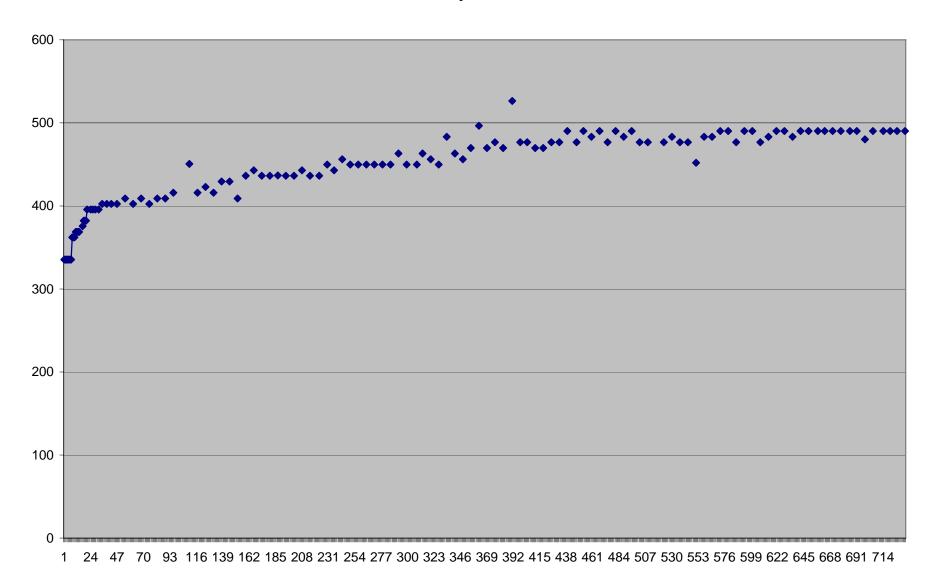
## Monitor Well Fluid Levels PBU from 1/1/07 to 7/14/09



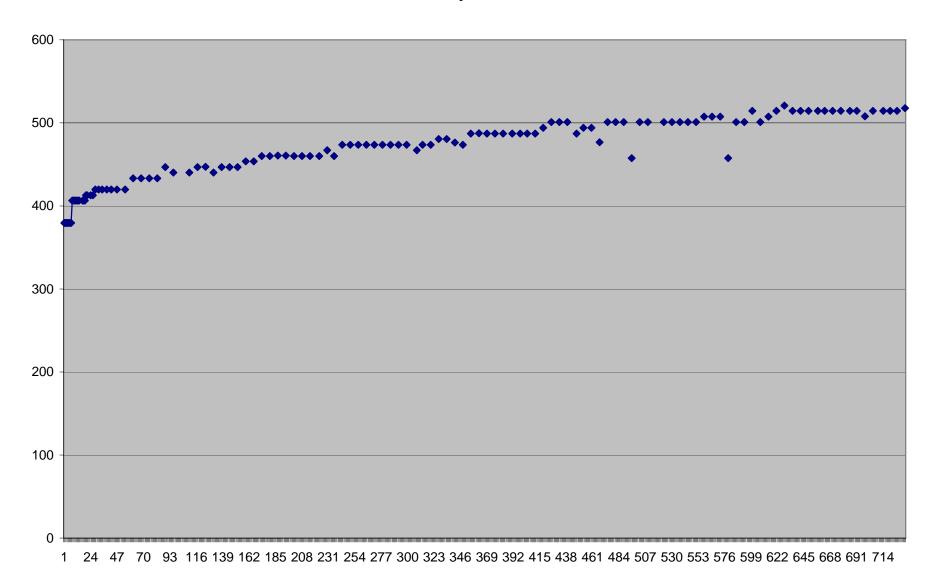
**Lively 02-02** 



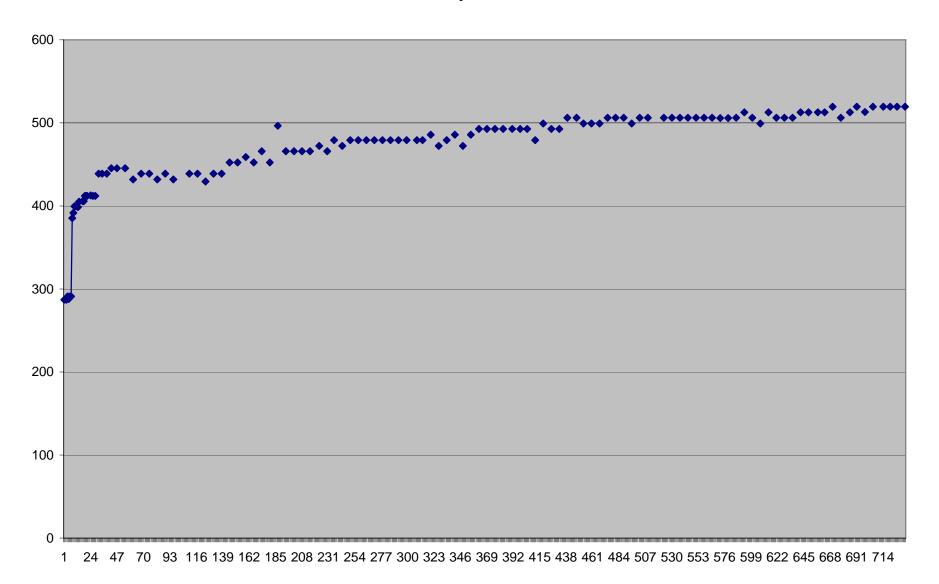
**Lively 02-12** 



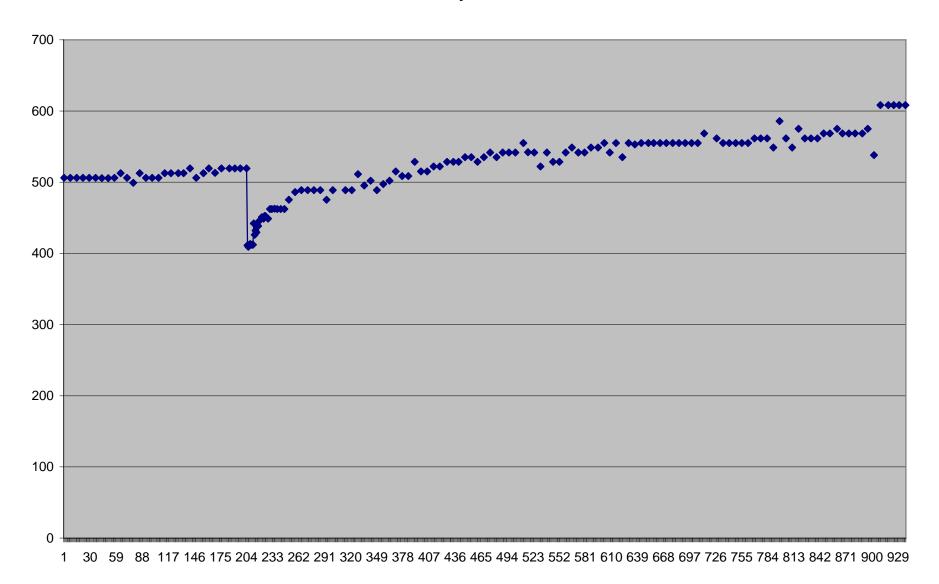
**Lively 03-01** 



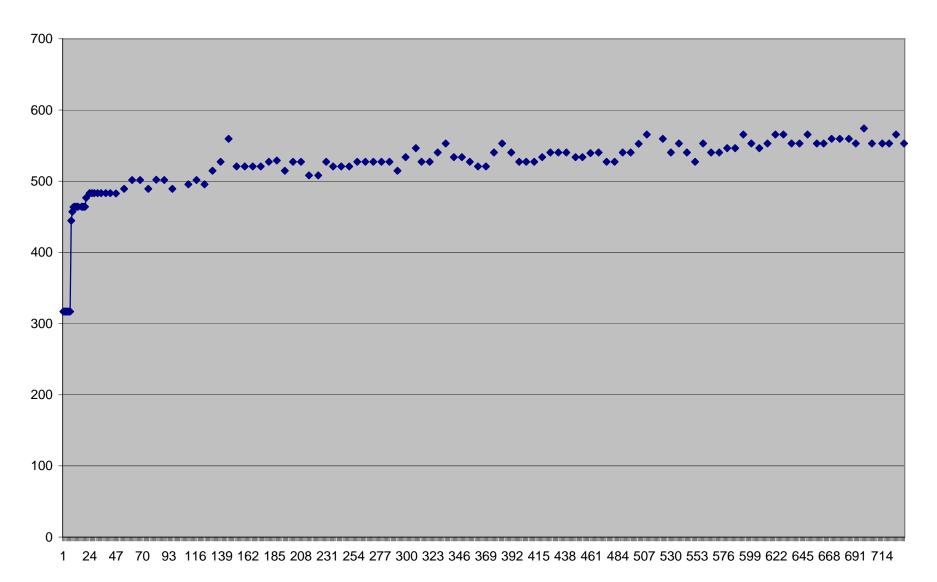
**Lively 03-10** 



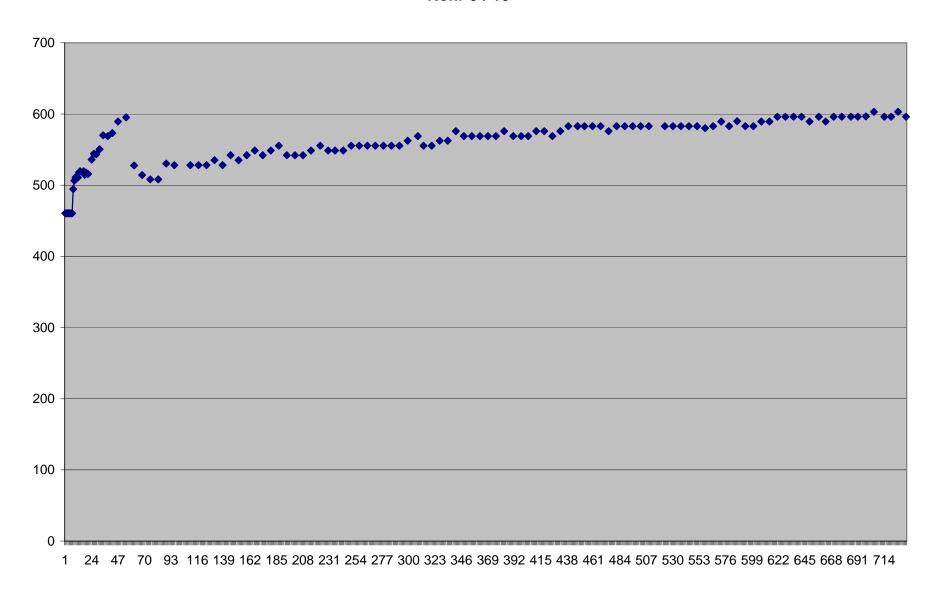
**Lively 03-12** 



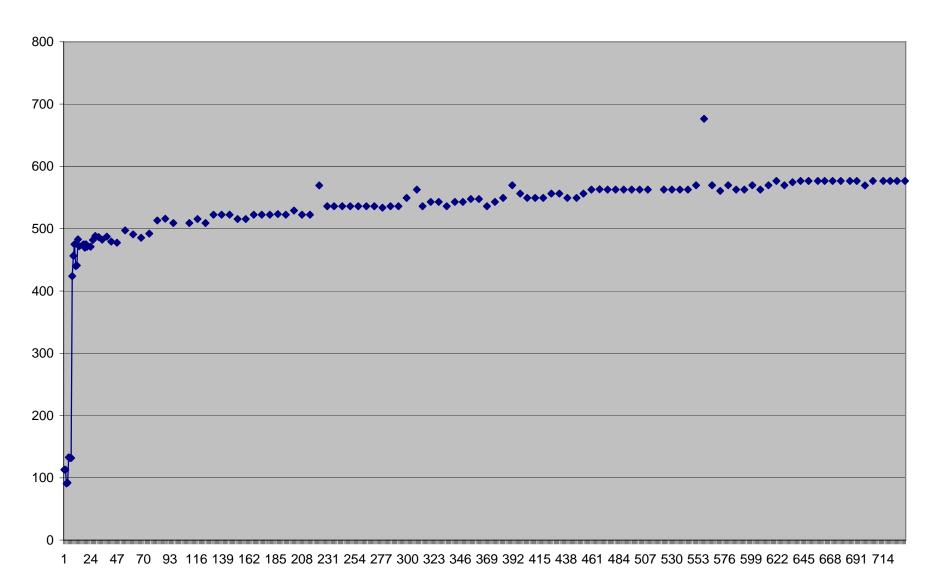
**Lively 10-04** 



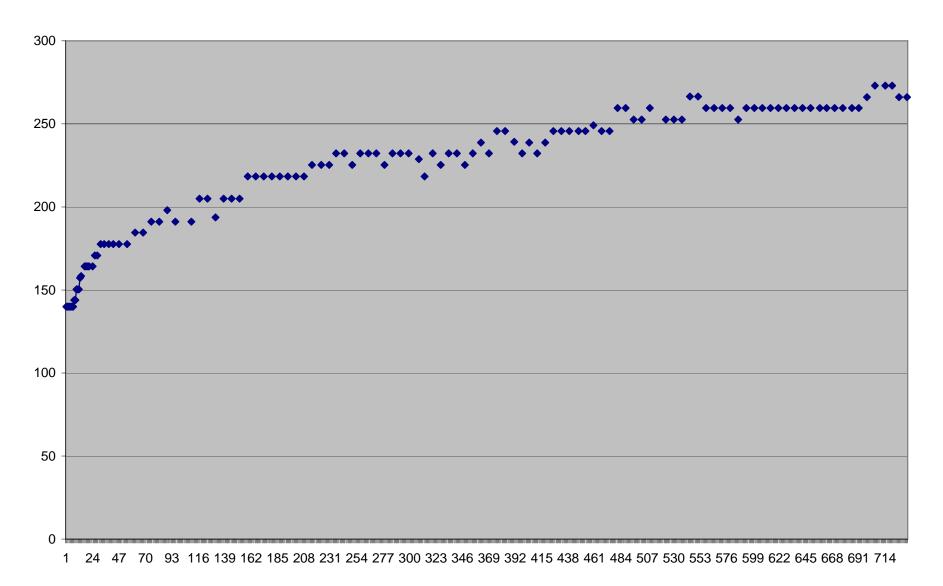
Rohr 04-10



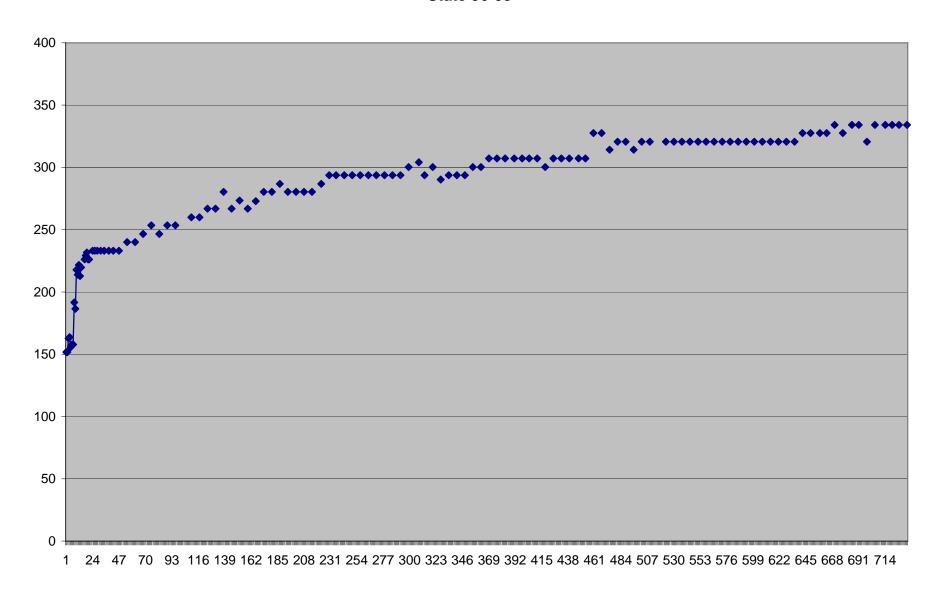
Rohr 09-10



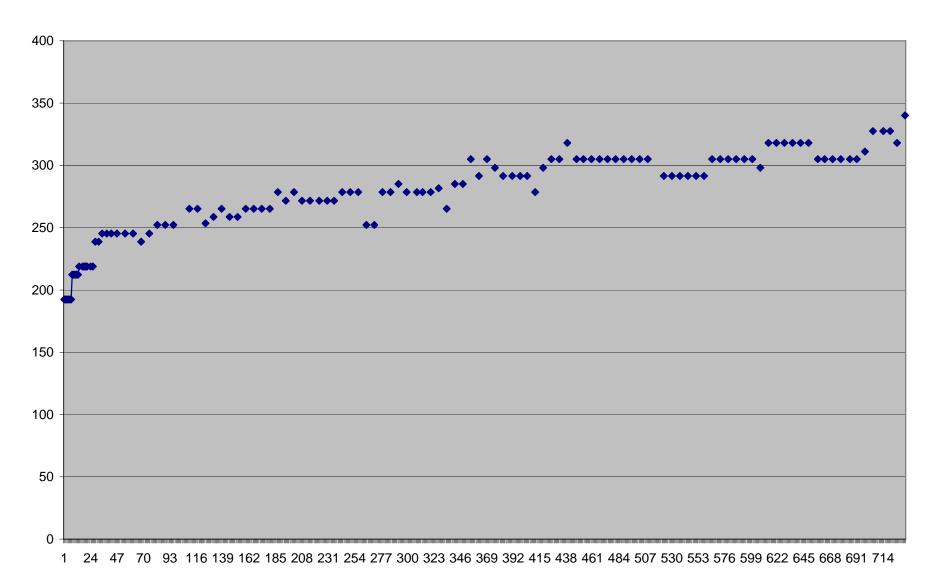
State 36-02



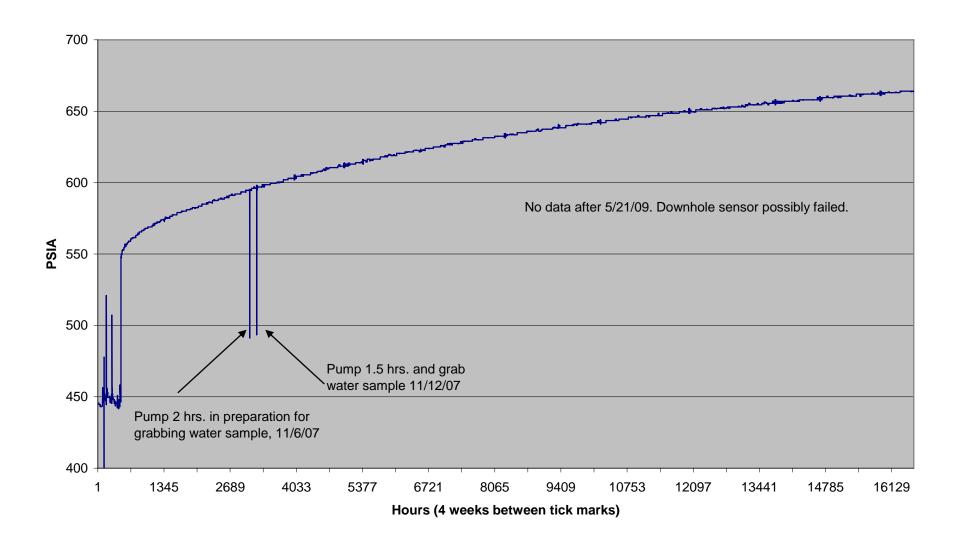
**State 36-05** 



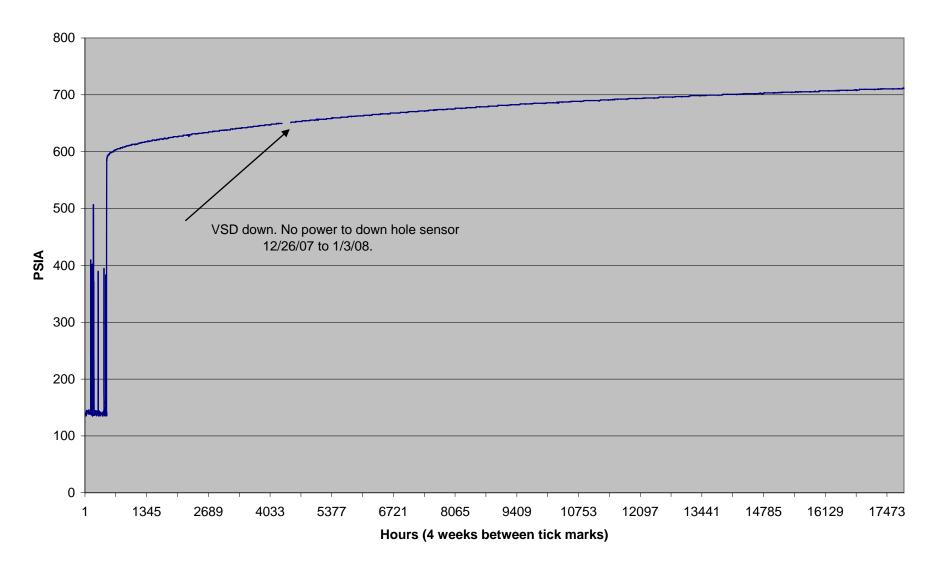
State 36-11



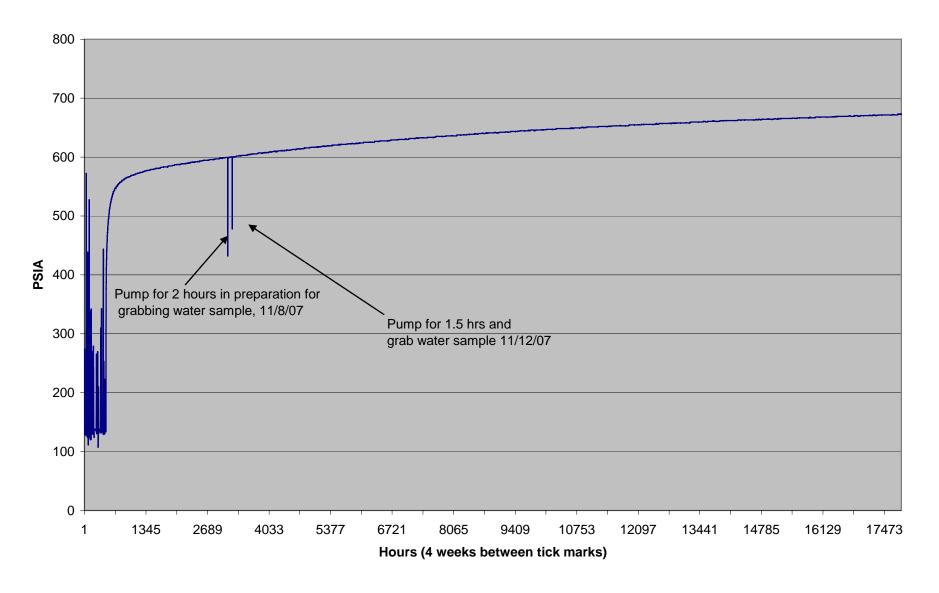
Rohr 04-14 PBU from 7/1/07 to 5/21/09



Rohr 08-01 PBU from 7/1/07 to 7/13/09



#### Rohr 09-04 PBU data (psia) 7/1/07 to 7/13/09



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

