Petroglyph Operating Company February 2010 Monthly Report

Covering the period of 2/24/2010 through 3/26/2010

Prepared for Colorado Oil and Gas Conservation Commission

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Prepared by

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Petroglyph Operating Company, Inc. Monthly Report – March 2010

Petroglyph Operating Company, Inc. (Petroglyph) is submitting this monthly report for the activities that have occurred at their Little Creek Field in the Raton Basin from the end of the last reporting period through March 26, 2010. Along with this monthly report, Petroglyph is submitting an electronic copy of all data including Microsoft Excel spreadsheets from which the attached summaries and graphs were created.

1.0 Phase I Remediation System

The Phase I remediation system associated with the Methane Investigation, Monitoring and Mitigation Program (MIMMP) has been operational for approximately fourteen months beginning on December 8, 2008. The system was started with pumping from Recovery 1 Kittleson and Recovery 3 PEI. Recovery 1 gas production has dropped from approximately 25.7 MCFD at the start of mitigation to approximately 4.5 MCFD through most of this reporting period.

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 2009 and then began a slow and steady decline. During this reporting period the gas flows remained within approximately 0.15 to 0.17 MCFD except for a drop to approximately 0.08 on February 22nd. Recovery 4 has shown the most variability ranging between 0.9 MCFD and 0 until mid April 2009 when the readings were consistently under 0.001 MCFD. Readings at Recovery 4 showed an increase beginning in late July/early August 2009 and have been a bit variable since that time. During this reporting period the start of the period and a low of 0.10 MCFD, ending the period at 0.16 MCFD. Gas flows at Recovery 5 showed a fairly steady decrease throughout the period starting at approximately 11 MCFD and ending the period at approximately 8.9 MCFD.

The average pumping rate for Recovery 1 was 19.0 gpm during the reporting period. The average pumping rate at Recovery 3 has been 4 gpm intermittently (or averaging about 1 gpm over a day's time) (Table 1). Recovery 4 is not functioning properly as explained in previous monthly reports and has not been pumped since early April 2009. Recovery 5 pumped at an average of 6.4 gpm.

Gas flow in POCI 55 monitoring well and the Recovery wells is shown graphically in Attachment 1. The POCI 55 well has not shown any gas flows since April 2008 shortly after passive venting of mitigation wells began.

Injection started in Injection 01 and 04 on December 9, 2008 and Injection 02, 03, 05, 06 and 07 on December 10, 2008 (Table 1). Injection rates vary for the individual injection wells and range from 1.4 to 8.9 during this reporting period with several wells showing an increase in injection rates and several wells showing a decrease in injection rates. 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 14 million gallons of water that have been recovered have been re-injected following methane off gassing. The Injection 07 Walden has not been used for injection since March 4th due to plugged tubing. The existing steel tubing will be replaced with PVC tubing in the future depending on delivery of tubing supplies and weather conditions.

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

2.0 Phase II Remediation System

Petroglyph submitted the Phase II Methane Remediation System Class V Underground Injection Control (UIC) permit application to Region 8 of the EPA on January 7, 2009. The draft permit has been issued for public comment and a public meeting was held in Walsenburg on August 10th. The EPA is working on responding to public comments received during the public comment period. The completion of the EPA responses is expected to be in near future with issuance of the permit to follow. A Colorado Division of Water Resources application for the Phase II system was submitted on February 18, 2009 and additional information to support that application is being prepared for submittal.

The COGCC has approved Petroglyph's request to move to Phase II contingent upon receipt of other required permits from the EPA and Division of Water Resources.

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. During this reporting period Petroglyph and their consultant met with COGCC staff to present an update to the geologic and flow modeling based on actual data from the remediation system. The geologic model was created with PETREL software using actual data from well logs completed during drilling of the remediation wells. Modeling of flow of gas and water used Computer Modeling Group Ltd.'s IMEX software. The modeling verified that the remediation system is reducing and containing the methane as projected during initial modeling and planning for the remediation system location.

Gas Isotope, Dissolved Methane and Water Quality Sampling

The attached data disk includes the results from gas analyses received during this reporting period for three samples (Injection 5 Rohr, Recovery 1 Kittleson and Recovery 3 PEI). The results for all dissolved methane sampling available to date, including the

most recent sample results, are shown in Table 2 with those results received since the last reporting period highlighted in yellow.

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. Handheld monitoring of the BLM wellhead continues to show levels of methane that exceed 100% LEL and 70% CH4 by volume and little to no O2%. The Haupt #1 well drilled closer to the outcrop and handheld measurements around this well have historically shown >100% lower explosive limit, 3 to 11% CH₄ by volume and low O_2 % volume. The measurements at this well since November 2009 have shown wide swings between >100 % LEL and 5% by volume CH4 and low to no detectable methane. Any additional information on the ongoing investigation will be included in the monthly reports and/or in separate reporting as the data is collected and evaluated.

4.0 Monitoring

Down-hole Pressure and Fluid Level Monitoring

Private Wells

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

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

Water level elevations in the POCI 55 well remained at approximately 6229 feet through the monitoring period. Barrett pressure showed a slight increase resulting in an increase in water levels of approximately one foot from 6266 to 6267 feet from the beginning to the end of the reporting period. Bergman pressure and associated water levels increased from 6355 to 6358 feet at the end of the available data. A gage was replaced during the period and the last reading before the gag e was broken was 6355. When the gage was replaced the first reading was 6357.

The Bruington well continues to show an upward trend in water levels with a rise of approximately 4 feet during the reporting period from 6071 to 6075 feet. Coleman remained at approximately the same pressure and water level during the reporting period with a water level elevation of approximately 6232 feet. Garza Vela also remained approximately the same at pressure and associated water level elevation of 6294 feet from the beginning to the end of the reporting period. The Meyer well water elevations

also remained at essentially the same elevation at 6111 feet during the reporting period. The Evenden transducer has not been working since January 9^{th} and will be repaired or replaced. No data is available for Evenden during this reporting period and the graph that is included is the last available for this well.

Petroglyph Production Wells

Fifteen Petroglyph production wells are currently monitored for fluid level and casing pressure: Lively 02-02, Lively 02-12, Lively 03-01, Lively 03-10, Lively 03-12, Lively 10-04, Rohr 04-10, Rohr 04-14, Rohr 08-01, Rohr 09-04, Rohr 09-05, Rohr 09-10, State 36-02, State 36-05, State 36-11. Two monitoring wells are also monitored continuously for water levels (Lively 03-03, and Lively 10-12). The monitoring occurs in the formation into which the wells are completed, the Vermejo/Trinidad Formation. Changes in fluid levels in Petroglyph's production wells are shown graphically in Attachment 3.

Since Petroglyph is no longer pumping these wells to draw down water levels, pressure is equalizing within the Vermejo coals. Consequently, water levels have risen in all wells as would be expected, although the rate of rise is leveling off. Eight of the wells show little to no overall water level elevation change throughout the period including, Lively 02-12, Lively 03-01, Lively 03-10, Lively 03-12, Rohr 10-04, Rohr 09-10, and State 36-05 and State 36-11. Six wells (Lively 03-03, Lively 10-12, Rohr 04-14, Rohr 08-01, Rohr 09-04 and Rohr 09-05) showed water level elevation rises of three feet or less. The remaining three wells showed a bit more variation in water levels through the period. The Lively 02-02 and Rohr 04-10 showed a jump at the end of the period; 16 feet for both wells. The State 36-02 which had increased in water level from 6085 at the beginning of the last period to 6116 at the end of the period, dropped to 6101 at the end of this reporting period.

Comparison of Production Well and Private Well Data

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

Gas Flow Monitoring In Domestic Wells

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

Attachment 5 includes graphs representing gas flow measurements from Bruington, Coleman, Angely, Bounds and Smith. The Bruington and Smith wells are not showing any gas. Note that Bruington has not been monitored since September 17th. The water level recovery of the Bruington well precludes any gas flow. Gas flow reporting will resume when gas flows resume. Gas concentrations at the wellhead are still monitored monthly and reported. The Coleman well only shows gas when the well is initially pumped. The well was not pumped during the reporting period and no gas flows are included for this reporting period. The most recent graph for this well is included in Attachment 5. The Bounds well is showing 0.175 MCFD which indicates a slight increase in gas flow after decreases occurred in the January and early February readings.

A drop in gas flow in the domestic wells appears to have occurred in correlation with the drilling of remediation system wells and venting of gas through these wells. This would indicate that the remediation system has been correctly located to remediate the area of largest gas concentration in the domestic wells.

Bi-Weekly and Monthly Water Well Monitoring

Petroglyph has monitored for methane gas levels near 86 wellheads in the vicinity of the site. Measurements are taken near the wellhead, at the well vent and in some cases are also taken at the cistern or a second wellhead. No new wellheads were added during the reporting period.

Table 3 shows all of the wellheads that are currently being sampled, the sampling start date, the date of the last sample, the number of samples since the last reporting period and a description of the sampling results and any changes from the previous reporting period. A column that discusses the historical readings for each site is included on the table.

Of the 86 wellheads, 14 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 55 wellheads were sampled once and 17 wellheads were sampled twice.

As shown on Table 3, the comparison of monitoring results for the 72 wellheads sampled during this period with previous results showed that overall gas levels at 44 wellheads had no change from the previous monitoring period measurements and no detectable methane. Changes in % LEL, % by volume CH4, and % volume O_2 were evaluated to determine if the area around the wellheads was showing an indication of increasing or decreasing methane gas content. Of the remaining 28 wellheads, 21 showed decreases in methane with 4 of those showing decreases showing only a slight decrease. Of the 21 wellheads showing a decrease in methane levels, 14 decreased to no detectable methane. 7 wellheads showed increases with 5 of those wellheads showing a slight increase and the remainder showing moderate to material increases. In the 7 wellheads showing an increase in methane levels, 4 went from no detectable methane in the previous reporting period to detectable methane in this reporting period. It should be noted that all of the wells with detectable methane have shown methane in past measurements. Those wells which show material increases or decreases in this reporting period are those wells which

have historically shown wide swings in methane levels from measurement to measurement. The data as presented do not represent significant changes in any well based on review of current and past measurements.

Petroglyph compared those wells showing detectable methane or changes in methane monitored during the reporting period with wells known to have been drilled into the coals within the Raton or Vermejo Formations and lying within 1-1.25 miles of the outcrop. Of the 14 wellheads reading detectable methane, 6 are known to have been drilled into the Raton/Vermejo Formations or deeper based on well depths in well logs available from the State Engineer. Of the remaining 8 wells, well drilling and completion information has not yet been researched for 3 wells and the remaining 5 wells are drilled into the Poison Canyon all located within or in close proximity to the remediation system.

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

Within 1 Mile of Remediation System

- Gas near 25 wellheads routinely monitored
- 5 wellheads were not sampled during this reporting period
- 13 wellheads showed no change and no detectable methane gas
- 4 wellheads showed decreased methane with 2 wellheads showing only a slight decrease and 2 wellheads showing a material decrease; one of the decreasing wellheads decreased to no detectable levels of methane
- 3 wellheads showed increased methane levels with 1 wellhead showing only a slight increase and 1 wellhead going from no detectable methane to detectable methane
- Of the 6 wellheads showing detectable methane 5 wells are completed in the Poison Canyon Formation and completion information for 1 well is not known.

River Ridge Ranch Subdivision and Vicinity Outside of One Mile

- Gas near 21 wellheads routinely monitored
- 6 wellheads not sampled during this reporting period
- 13 wellheads showed no change and no detectable methane gas
- 2 wellheads showed a slight decrease in methane levels, 1 of these decreasing to no detectable levels of methane
- The 1 wellhead showing detectable methane is known to be drilled into the Raton/Vermejo

City Ranch and Other Properties

- Gas near 15 wellheads routinely monitored
- 1 wellhead was not sampled during the reporting period
- 7 wellheads showed no change and no detectable methane gas
- 1 wellhead showed a slight increase in methane levels going from no detectable methane to low levels of methane

- 6 wellheads showed decreases in methane levels with 1 wellhead showing only a slight decrease and 3 wellheads decreasing to no detectable methane
- Of the 4 wellheads showing detectable methane, 3 are known to be drilled into the Raton/Vermejo. Completion information for the other well is not known. All wells lie close to the outcrop of the Raton/Vermejo or mined areas (within 1 to 1.5 miles).

Silver Spurs Ranch

- Gas near 24 wellheads routinely monitored
- 2 wellheads were not sampled during the reporting period
- 11 wellheads showed no change and no detectable methane
- 9 wellheads showed a decrease in methane levels with all 9 decreasing to no detectable methane levels
- 2 wellheads showed a slight increase in methane levels with 1 wellhead going from no detectable methane to low level detectable methane
- Of the 2 wellheads showing detectable methane, both are drilled into the Raton/Vermejo and these wells lie within 1.25 miles of the outcrop.

Black Hawk Ranch

• The domestic well which is monitored at Black Hawk Ranch (Goza) showed a slight increase from no detectable methane to low levels of detectable methane

Table 4 shows the current monitoring schedule including which wells are monitored biweekly and which wells are monitored monthly or at a different frequency.

Attachment 6 includes charts of gas monitoring of eighteen wells near the mitigation system. The wells being monitored have not indicated a direct response to the remediation pumping and injection. Of the wellhead charts included in Attachment 6 only those for Barrett, Bergman, Golden Cycle Land, Goodwin, Houghtling, and Hopke showed any changes in recent readings. Other wellhead readings have remained consistent with previous measurements. Barrett and Bergman showed recent increases in both CH4 % volume and % LEL. Goodwin showed decreases in both % LEL and CH4 % volume down to no detectable methane. Hopke, Houghtling and Golden Cycle showed decreases in CH4 % volume.

Hand Held Measurements

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

5.0 Mitigation

Methane Alarms

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

Water Supply

Petroglyph is currently providing water to 16 homes. Table 5 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 of Petroglyph attended a River Ridge Ranch Board of Managers Meeting and Annual Property Owners Meeting on March 20th. At that meeting Craig provided an update of Petroglyph's activities to the property owners. No additional public outreach activities occurred during the reporting period.

Health and Safety/Emergency Planning

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

6.0 Schedule

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

- Continued pumping and injection of the Phase I system with ongoing monitoring to evaluate the response in surrounding wells.
- EPA continued review of Phase II UIC Permit. There is a 30 day waiting period prior to the permit becoming effective.
- Routine bi-weekly and monthly sampling will continue with new sampling sites added as needed. Sampling will be adjusted based on the monitoring results in accordance with the Petroglyph Monitoring and Response Plan submitted to the COGCC on April 7, 2008 and the subsequent approved reduction letter dated January 27, 2009 and approved February 10, 2009.
- Hand held seep monitoring will continue as needed.

	Table 1: Recovery and Injection Rates associated with Phase I MIMMP (as of 3/23/2010)								
Well Number	Total Depth (ft)	PBTD	Injection Tubing Depth	Start-up Date	Average Injection Rate (gpm)	Water Totals (gal)		Notes	
Injection 01 Pascual	600	526	458	12/9/2008	1.4	720,000			
Injection 02 Gonzales	600	575	362	12/10/2008	1.4	712,000		Increased average injection rate from 1.2 to 1.4 gpm during reporting period.	
Injection 03 Benevides	725	629	454	12/10/2008	1.4	736,000			
Injection 04 Rohr	675	667	455	12/9/2008	7.4	3,586,000		Increased average injection rate from 7.1 to 7.4 gpm during reporting period	
Injection 05 Rohr	750	735	458	12/10/2008	8.9	4,406,000		Increased average injection rate from 8.5 to 8.9 gpm during reporting period.	
Injection 06 Masters	725	695	438	12/10/2008	6.4	3,212,000		Decreased average injection rate from 6.7 to 6.4 gpm during reporting period.	
Injection 07 Walden	750	713	457	12/10/2008	1.6	618,000		Increased average injection rate from 1.5 to 1.6 gpm during reporting period.	
Injection 08 Haeffner	650	713	365	12/10/2008	see note	3,767		Well does not accept water very well. Inject approx. 150 gallons once every two weeks.	
			Pump Depth		Average Pump Rate (gpm)		Gas Totals (mcf) ¹		
Recovery 1 Kittleson	715	705	686	12/8/2008	19.00	12,085,000	9,872	Average Pumping rate decreased from 19.2 to 19.0 during reporting period.	
Recovery 3 PEI	625	591	575	12/8/2008	1 (see note)	624,000	770	Intermittent pumping at 4 gpm. Rate over 24 hrs is approx 1 gpm	
Recovery 4 Barrett	500	484	463	2/10/2009	(see note)	3,600	330	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	
Recovery 5 Masters	847	847	822	12/24/2009	6.4	743,000	856	Average pumping rate decreased from 6.7 to 6.4 gpm during reporting period.	

¹ Gas totals are as of March 14, 2010.

		sults receive	Dissolved Gase	ry 22, 2010)	
	Well	Sample Date	Analyte	Results (In ug/I)	Comments
Vitigation	Injection 03 Benavides	7/17/08	Ethane	4.9	Grabbed during pump testing
wells	Injection 03 Benavides	7/17/08	Methane	280	Grabbed during pump testing
	Injection 04 Rohr	7/22/08	Ethane	2.3	Grabbed during pump testing
	Injection 04 Rohr	7/22/08	Methane	4,500	Grabbed during pump testing
	Injection 05 Rohr	7/28/08	Ethane	3.0	Grabbed during pump testing
	Injection 05 Rohr	7/28/08	Methane	3,100	Grabbed during pump testing
	Injection 05 Rohr	3/9/09	Ethane	11	Injection Water
	Injection 05 Rohr	3/9/09	Methane	5,200	Injection Water
	Injection 05 Rohr	7/30/09	Ethane	4.4	Injection Water
	Injection 05 Rohr	7/30/09	Ethene	ND	Injection Water
	Injection 05 Rohr	7/30/09	Methane	2400	Injection Water
	Injection 05 Rohr	9/01/09	Ethane	4.7	Injection Water
	Injection 05 Rohr	9/01/09	Ethene	ND	Injection Water
	Injection 05 Rohr	9/01/09	Methane	2700	Injection Water
	Injection 05 Rohr	10/2/09	Methane	7800	Injection Water
	Injection 05 Rohr	11/5/09	Ethane	6.7	Injection Water
	Injection 05 Rohr	11/5/09	Ethene	ND	Injection Water
	Injection 05 Rohr	11/5/09	Methane33	2400	Injection Water
	Injection 05 Rohr	12/1/09	Ethane	7.1	Injection Water
	Injection 05 Rohr	12/1/09	Ethene	ND	Injection Water
	Injection 05 Rohr	12/1/09	Methane	2400	Injection Water
	Injection 05 Rohr	2/1/10	Ethane	7	Injection Water
	Injection 05 Rohr	2/1/10	Ethene	ND	Injection Water
	Injection 05 Rohr	2/1/10	Methane	3,000	Injection Water
	Injection 05 Rohr	3/2/10	Ethane	8.2	Injection Water
	Injection 05 Rohr	3/2/10	Ethene	ND	Injection Water
	Injection 05 Rohr	3/2/10	Methane	3,700	Injection Water
	Injection 06 Masters	7/15/08	Ethane	3.9	Grabbed during pump testing
	Injection 06 Masters	7/15/08	Methane	6,300	Grabbed during pump testing
	Injection 07 Walden	7/29/08	Ethane	12	Grabbed during pump testing
	Injection 07 Walden	7/29/08	Methane	12,000	Grabbed during pump testing
	Injection 02 Gonzales	8/20/08	Ethane	2.7	Grabbed during pump testing
	Injection 02 Gonzales	8/20/08	Methane	4.2	Grabbed during pump testing
	Recovery 1 Kittleson	7/8/08	Ethane	3.0	Grabbed during pump testing
	Recovery 1 Kittleson	7/8/08	Methane	4,800	Grabbed during pump testing
	Recovery 1 Kittleson	8/4/08	Ethane	6.8	Grabbed during pump testing
	Recovery 1 Kittleson	8/4/08	Methane	6,800	Grabbed during pump testing
	Recovery 1 Kittleson	1/15/09	Ethane	2.5	IP 12/8/08
	Recovery 1 Kittleson	1/15/09	Methane	2,000	IP 12/8/08
	Recovery 1 Kittleson	7/21/09	Ethane	ND	
	Recovery 1 Kittleson	7/21/09	Ethene	ND	
	Recovery 1 Kittleson	7/21/09	Methane	2700	ļ
	Recovery 1 Kittleson	7/30/09	Ethane	3.7	

Table 2: Sampling of Dissolved Gases in Water Wells (results received as of February 22, 2010)							
	Sample		Results				
Well	Date	Analyte	(In ug/I)	Comments			
Recovery 1 Kittleson	7/30/09	Ethene	ND 1100				
Recovery 1 Kittleson	7/30/09	Methane	4100				
Recovery 1 Kittleson	9/01/09	Ethane	7.3				
Recovery 1 Kittleson	9/01/09	Ethene	ND				
Recovery 1 Kittleson	9/01/09	Methane	8600				
Recovery 1 Kittleson	10/2/09	Methane	9500				
Recovery 1 Kittleson	11/5/09	Ethane	7.3 ND				
Recovery 1 Kittleson	11/5/09	Ethene	1				
Recovery 1 Kittleson	11/5/09	Methane	7900				
Recovery 1 Kittleson	12/1/09	Ethane	7.5				
Recovery 1 Kittleson	12/1/09	Ethene	ND				
Recovery 1 Kittleson	12/1/09	Methane	8100				
Recovery 1 Kittleson	2/1/10 2/1/10	Ethane Ethene	10 ND				
Recovery 1 Kittleson Recovery 1 Kittleson			-				
Recovery 1 Kittleson	2/1/10 3/2/10	Methane Ethane	9900 7.4				
Recovery 1 Kittleson	3/2/10	Ethene	ND				
Recovery 1 Kittleson	3/2/10	Methane	7,500				
Recovery 2 Reiss	4/4/08	Ethane	7,500 ND	Water while drilling			
Recovery 2 Reiss	4/4/08	Methane	ND	Water while drilling			
Recovery 3 PEI	8/25/08	Ethane	13	Grabbed during pump testing			
Recovery 3 PEI	8/25/08	Methane	9,600	Grabbed during pump testing			
Recovery 3 PEI	1/16/09	Ethane	15	IP 12/8/08			
Recovery 3 PEI	1/16/09	Methane	13,000	IP 12/8/08			
Recovery 3 PEI	7/21/09	Ethane	15	11 12/0/00			
Recovery 3 PEI	7/21/09	Ethene	2.4				
Recovery 3 PEI	7/21/09	Methane	13000				
Recovery 3 PEI	7/30/09	Ethane	15				
Recovery 3 PEI	7/30/09	Ethene	ND				
Recovery 3 PEI	7/30/09	Methane	17000				
Recovery 3 PEI	9/01/09	Ethane	22				
Recovery 3 PEI	9/01/09	Ethene	ND				
Recovery 3 PEI	9/01/09	Methane	26000				
Recovery 3 PEI	10/2/09	Methane	29000				
Recovery 3 PEI	11/5/09	Ethane	21				
Recovery 3 PEI	11/5/09	Ethene	ND				
Recovery 3 PEI	11/5/09	Methane	24000				
Recovery 3 PEI	11/12/09	Ethane	22				
Recovery 3 PEI	11/12/09	Ethene	ND				
Recovery 3 PEI	11/12/09	Methane	24000				
Recovery 3 PEI	12/1/09	Ethane	20				
Recovery 3 PEI	12/1/09	Ethene	ND				
Recovery 3 PEI	12/1/09	Methane	25000				
Recovery 3 PEI	2/1/10	Ethane	26				

			Dissolved Gased as of Februar		Wells
	Well	Sample Date	Analyte	Results (In ug/I)	Comments
	Recovery 3 PEI	2/1/10	Ethene	ND	
	Recovery 3 PEI	2/1/10	Methane	29000	
	Recovery 3 PEI	3/2/10	Ethane	ND	
	Recovery 3 PEI	3/2/10	Ethene	ND	
	Recovery 3 PEI	3/2/10	Methane	25,000	
	Recovery 4 Barrett	7/10/08	Ethane	5	Grabbed during pump testing
	Recovery 4 Barrett	7/10/08	Methane	3,500	Grabbed during pump testing
	Recovery 4 Barrett	3/12/09	Ethane	12	IP 2/10/09
	Recovery 4 Barrett	3/12/09	Ethene	48	IP 2/10/09
	Recovery 4 Barrett	3/12/09	Methane	8,600	IP 2/10/09
	POCI 55	8/19/09	Methane	7800	Pre Phase II
POCI 55	POCI 55	8/19/09	Ethene	ND	Pre Phase
	POCI 55	8/19/09	Ethane	11	Pre Phase
Wells	Angely, J	3/26/08	Ethane	35	by COGCC
within 1	Angely, J	3/26/08	Methane	15,000	by COGCC
mile of	Barrett, T	6/24/09	Methane	18,000	
Vitigation	Barrett, T	6/24/09	Ethane	11	
System	Barrett, T	6/24/09	Ethene	12	
	Bergman	6/29/09	Ethane	ND	Grabbed during pump testing
	Bergman	6/29/09	Ethene	ND	Grabbed during pump testing
	Bergman	6/29/09	Methane	2,300	Grabbed during pump testing
	Burge, K	8/5/08	Methane	3,900	
	Burge, K	12/18/08	Ethane	2.3	
	Burge, K	12/18/08	Methane	3,600	
	Burge, K	6/9/09	Ethane	3	
	Burge, K	6/9/09	Ethene	2.4	
	Burge, K	6/9/09	Methane	3,300	
	Coleman, V	3/1/08	Methane	4,600	filtered via house water filter
	Coleman, V	9/23/07	Methane	4,300	filtered via house water filter
	Coleman, V	9/23/07	Methane	5,000	raw- not filtered
	Coleman, V	3/1/08	Methane	5,100	raw- not filtered
	Coleman, V	12/4/08	Ethane	7	raw- not filtered
	Coleman, V	12/4/08	Methane	5,900	raw- not filtered
	Coleman, V	5/9/09	Ethene	2.4	raw- not filtered
	Coleman, V	5/9/09	Ethane	9	raw- not filtered
	Coleman, V	5/9/09	Methane	6,100	raw- not filtered
	Conley, J	3/24/08	Methane	ND	
	Conley, J	12/4/08	Ethane	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	2.4	
	Dee	6/30/09	Ethane	ND	Grabbed during pump testing
	Dee	6/30/09	Ethene	ND	Grabbed during pump testing

		Dissolved Gas d as of Februa		Vells
Well	Sample Date	Analyte	Results (In ug/I)	Comments
Dee	6/30/09	Methane	5.7	Grabbed during pump testing
Deroswitch, D	3/1/08	Methane	4,000	
Deroswitch, D	1/15/09	Ethane	4.1	
Deroswitch, D	1/15/09	Methane	2,200	
English, B	3/14/08	Methane	ND	
English, B	12/8/08	Ethane	U	
English, B	12/8/08	Methane	U	
English, B	7/8/09	Ethane	ND	
English, B	7/8/09	Ethene	ND	
English, B	7/8/09	Methane	ND	
Hopke, B	2/25/08	Methane	5,900	
Hopke, B	3/26/08	Ethane	11	by COGCC
Hopke, B	3/26/08	Methane	3,000	by COGCC
Hopke, B	12/31/08	Ethane	U	
Hopke, B	12/31/08	Methane	660	
Hopke, B	6/22/09	Methane	4,200	
Hopke, B	6/22/09	Ethane	7.2	
Hopke, B	6/22/09	Ethene	2.4	
Hoppe, C	10/23/08	Ethane	ND	
Hoppe, C	10/23/08	Methane	19	
Houghtling, J	2/25/08	Methane	9.2	
Kerman, T	3/1/08	Methane	170	
Kerman, T	12/4/08	Ethane	U	
Kerman, T	12/4/08	Methane	1.1	
Kerman, T	7/8/09	Ethane	ND	
Kerman, T	7/8/09	Ethene	ND	
Kerman, T	7/8/09	Methane	ND	
Kerman, T WW	11/30/09	Methane	U	
Kerman, T WW	11/30/09	Ethane	U	Grabbed from hydrant before
Kerman, T WW	11/30/09	Methane	0.78	CISCETT
Kerman, T House	11/30/09	Ethane	ND	
Kerman, T House	11/30/09	Ethene	ND	Grabbed from house after cistern
Kerman, T House	11/30/09	Methane	ND	
Masters, T	6/29/09	Ethane	10	
Masters, T	6/29/09	Ethene	2.4	
Masters, T	6/29/09	Methane	14,000	
McPherson	3/29/08	Methane	54	
McPherson, P	12/4/08	Ethane	U	
McPherson, P	12/4/08	Methane	950	
McPherson, P	6/3/09	Ethane	16	
McPherson, P	6/3/09	Ethene	24	
McPherson, P	6/3/09	Methane	1,700	
Rohr, W	7/6/09	Ethane	ND	Grabbed during pump testing
Rohr, W	7/6/09	Ethene	ND	Grabbed during pump testing

	Table 2: Sampling of Dissolved Gases in Water Wells(results received as of February 22, 2010)							
	Well	Sample	Analyte	Results (In ug/I)	Comments			
	Rohr, W	7/6/09	Methane	800	Grabbed during pump testing			
	Searle, S	3/14/08	Methane	7.5				
	Searle, S	12/8/08	Ethane	U				
	Searle, S	12/8/08	Methane	5.8				
	Campbell, J	2/23/09	Ethane	0.6				
	Campbell, J	2/23/09	Methane	110				
	Goodwin, R	3/14/08	Methane	240				
	Goodwin, R	12/15/08	Ethane	U				
	Goodwin, R	12/15/08	Methane	U				
	Goodwin, R	6/29/09	Ethane	1.6				
	Goodwin, R	6/29/09	Ethene	2.4				
	Goodwin, R	6/29/09	Methane	5.2				
	Goodwin, R WW	11/30/08	Ethane	U	Graphed from hydrant before			
	Goodwin, R WW	11/30/08	Ethene	U	Grabbed from hydrant before cistern			
Wells on	Goodwin, R WW	11/30/08	Methane	U				
RRR ex	Goodwin, R Cistern	11/30/09	Ethane	U	-			
near	Goodwin, R Cistern	11/30/09	Ethene	U	Grabbed from cistern			
Mitigation	Goodwin, R Cistern	11/30/09	Methane	U				
System	Rhoads, K	2/23/09	Methane	21				
	Roloff, B	8/5/08	Methane	3,800				
	Speh, D	10/8/08	Methane	7,200				
	Wolahan	3/10/08	Methane	75				
	Wolahan, E	12/4/08	Ethane	U				
	Wolahan, E	12/4/08	Methane	210				
	Wolahan, E	6/4/09	Methane	24				
	Wolahan, E	6/4/09	Ethene	2.4				
	Wolahan, E	6/4/09	Ethane	1.6				
	Meyer, J	4/29/09	Ethane	ND				
Malla	Meyer, J	4/29/09	Methane	19,000				
Wells on Silver	Goza, C	1/15/09	Ethane	1.4	Blackhawk Ranch			
Silver	Goza, C	1/15/09	Methane	580	Blackhawk Ranch			
Ranch	Gumpert, K	8/5/08	Methane	1,700				
unless	Sample, Mitch	3/10/08	Methane	19,000				
noted	Sample, Mitch WW Sample, Mitch WW	11/30/09	Ethane	U	Crabbad before sisters			
	Sample, Mitch WW	11/30/09	Ethene	U 10.000	Grabbed before cistern			
		11/30/09	Methane	48,000				
	Sample, Mitch Cistern Sample, Mitch Cistern	11/30/09	Ethane	23	Grabbed from cistern			
	Sample, Mitch Cistern	11/30/09	Ethene	U 15.000				
	,	11/30/09	Methane	15,000				
	Stephens, K	9/30/08	Methane	ND				
	Evenden, V	9/30/08	Methane	20,000				
	Evenden, V	8/26/09	Ethane	2.5				
	Evenden, V	8/26/09	Ethene	2.4				
	Evenden, V	8/26/09	Methane	7,700				

			Dissolved Gas d as of Februa		Vells
	Well	Sample Date	Analyte	Results (In ug/I)	Comments
	Evenden, V	10/7/09	Ethane	ND	
	Evenden, V	10/7/09	Ethene	ND	
	Evenden, V	10/7/09	Methane	22,000	
	Fitzner, P	12/1/08	Methane	4,600	
	Fitzner, P WW	11/30/09	Ethane	U	
	Fitzner, P WW	11/30/09	Ethene	U	Grabbed from hydrant before cistern
	Fitzner, P WW	11/30/09	Methane	2,100	CISIEITI
	Fitzner, P Cistern	11/30/09	Ethane	U	
	Fitzner, P Cistern	11/30/09	Ethene	U	Grabbed from cistern
	Fitzner, P Cistern	11/30/09	Methane	2,000	
	Geisklbrecht, G	9/30/08	Methane	ND	
	Geisklbrecht	1/27/10	Ethane	ND	
	Geisklbrecht	1/27/10	Ethene	ND	Grabbed at water hydrant
	Geisklbrecht	1/27/10	Methane	ND	
	Haynes, E	6/4/09	Methane	0.8	
	Haynes, E	6/4/09	Ethane	1.6	
	Haynes, E	6/4/09	Ethene	2.4	
	Morine, J	1/15/09	Methane	14	
	Palmer (GIS)	10/1/08	Methane	ND	
	Palmer (GIS)	1/27/10	Ethane	ND	
	Palmer (GIS)	1/27/10	Ethene	ND	Grabbed at water hydrant
	Palmer (GIS)	1/27/10	Methane	ND	
	Stetler	3/20/09	Methane	20,000	
	Stetler	3/20/09	Ethane	50	
	Stetler, J WW	11/30/09	Ethane	100	
	Stetler, J WW	11/30/09	Ethene	U	Grabbed before cistern
	Stetler, J WW	11/30/09	Methane	38,000	
	Stetler, J Cistern	11/30/09	Ethane	U	
	Stetler, J Cistern	11/30/09	Ethene	U	Grabbed from cistern
	Stetler, J Cistern	11/30/09	Methane	22,000	
	Modlish	3/20/09	Methane	0.33	
	Modlish	3/20/09	Ethane	ND	
	Billstrand	7/31/09	Ethane	ND	
	Billstrand	7/31/09	Ethene	ND	
	Billstrand	7/31/09	Methane	0.42	
	Bruington	7/6/09	Ethane	12	Grabbed during pump testing
	Bruington	7/6/09	Ethene	2.4	Grabbed during pump testing
	Bruington	7/6/09	Methane	7,900	Grabbed during pump testing
	Eddleman, P	8/28/09	Ethane	ND	
	Eddleman, P	8/28/09	Ethene	ND	
	Eddleman, P	8/28/09	Methane	29,000	
	Eddleman, P WW	11/30/09	Ethane	U	Grabbed before cistern
	Eddleman, P WW	11/30/09	Ethene	U	1
L					1

	Table 2: Sampling of Dissolved Gases in Water Wells(results received as of February 22, 2010)							
	Well	Sample Date	Analyte	Results (In ug/I)	Comments			
	Eddleman, P WW	11/30/09	Methane	45,000				
	Eddleman, P WWIIA	11/30/09	Ethane	U	Filled 100 gallon stock tank and			
	Eddleman, P WWIIA	11/30/09	Ethene	U	agitated with small submersible			
	Eddleman, PWWIIA	11/30/09	Methane	2,100	pump for 2.5 hrs then grabbed sample			
	Wyland, R	9/8/09	Ethane	ND				
	Wyland, R	9/8/09	Ethene	ND				
	Wyland, R	9/8/09	Methane	3				
	Schafer, R	10/2/09	Methane	21	City Ranch			
	Rohr 04-14	11/11/07	Methane	10,070	CBM water			
	Rohr 09-04	11/11/07	Methane	6,350	CBM water			
	Rohr 09-04	9/17/09	Ethane	3.6	CBM water pre-phase II			
	Rohr 09-04	9/17/09	Ethene	ND	CBM water pre-phase II			
	Rohr 09-04	9/17/09	Methane	7300	CBM water pre-phase II			
Other	Rohr 09-10	9/17/09	Ethane	2.1	CBM water pre-phase II			
	Rohr 09-10	9/17/09	Ethene	ND	CBM water pre-phase II			
	Rohr 09-10	9/17/09	Methane	5900	CBM water pre-phase II			
	Rohr 04-10	9/17/09	Ethane	2.3	CBM water pre-phase II			
	Rohr 04-10	9/17/09	Ethene	ND	CBM water pre-phase II			
	Rohr 04-10	9/17/09	Methane	6400	CBM water pre-phase II			

Shading indicates sampling added since last reporting period.

					Table 3 Water Well Measurements for the March 2010 Monthly Report	ort
Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History (Last Updated with March 2010 Monthly Report)	If sampled, comparison of results from this period to last period
					r of Special Interest	
238689	Angely	7/5/07	2/24/10	2/24/10	Methane detected at levels >100 % LEL and above 10% CH4 by volume until approximately 4/9/08, then began dropping and reached approximately 0 by 5/28/08. Have remained at or near 0 except for jump in December 2008, March 2009 and November 2009 readings.	 Methane levels decreased to no detectable methane in well during this reporting period: % LEL decreased from 1 to 0 CH4% volume decreased from 0.05 to 0 O2% volume remained unchanged at 20.9 CO decreased from 6 to 0 ppm H2S remained unchanged at 0 ppm
257994	Barrett	7/12/07	3/16/10	3/2/10 and 3/16/10	Methane detected at levels >100 % LEL and above 10% CH4 by volume. Levels have dropped since March 2009 but remain above 0 except for an occasional 0 reading. Occasionally (October 6, 2009 and March 16, 2010) higher levels of methane are observed.	 % LEL decreased from 96 to 42 and then increased to >100 by end of period CH4% volume decreased 4.8 to 2.1 and then increased to 7.00 O2% increased from 20.2 to 20.8 and then decreased to 19.1 CO and H2S remained unchanged at 0 ppm
244403	Bergman	7/6/07	3/15/10	3/3/10 and 3/15/10	The methane has been variable with higher and lower values until 11/28/07 and then mostly levels at >100 %LEL and greater than 10% CH4 by volume until September 2009 when levels began to show wider variances in %LEL and CH4 of between >100 and 13.00 and as low as 0 in February 2010.	 % LEL increased from 0 to >100 CH4% volume increased from 0 to 13.00 O2% volume decreased from 20.9 to 17.6 CO and H2S remained unchanged at 0 ppm with a light H2S odor noted on 3/3/10
181278	Bounds	7/12/07	2/3/10	2/3/10	Readings from this wellhead have been consistently at or above 100 %LEL with levels of CH4% by volume near 100. This wellhead has also shown fairly consistent low levels of H2S until 6/25/08 when H2S readings became more variable with less H2S present in general.	 % LEL remained unchanged at 100 CH4% volume decreased from 100 to 74 O2% volume increased from 0 to 5.4 CO decreased from 16 to 6 ppm H2S decreased from 0.5 to 0 ppm
169043	Burge	3/20/09	2/17/10	None	Methane detected at levels >100 % LEL and above 10% CH4 by volume until approximately 1/17/08, then began dropping through 3/14/08 and have remained at or near 0 since that time except for a single high reading on 7/2/08 and detectable methane on 10/1 and 10/6/09.	Reading attempted 3/17/10 but site was too muddy and landowner requested that site not be accessed when muddy.
267694	Coleman	7/5/07	3/17/10	3/2/10 and 3/17/10	Methane detected at wellhead at levels >100 % LEL and above 5% CH4 by volume until approximately 8/15/07, then began dropping with no methane detected since 10/30/07. Well vent has shown more variable and generally higher readings than the wellhead.	 At the wellhead no change from previous measurements, with 0% LEL and CH4, O2% volume at 20.9 and no detectable CO and H2S. At the well vent: % LEL decreased from 6 to 0 CH4% volume decreased from 0.3 to 0 O2% volume remained the same at 20.9 CO and H2S remained unchanged at 0 ppm
235516	Colorado Switzer	7/12/07	3/15/10	3/3/10 and 3/15/10	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
255929	Conley	7/11/07	2/19/10	None	No methane has ever been detected at this wellhead.	Reading attempted 3/15.10 but gate was locked.
260097	Dee	7/5/07	3/15/10	3/15/10	No methane has ever been detected at this wellhead. A potentially erroneous reading of 5%LEL occurred on 7/30/09 with no detectable methane.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.

					Table 3 Water Well Measurements for the March 2010 Monthly Repo	rt
Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History (Last Updated with March 2010 Monthly Report)	If sampled, comparison of results from this period to last period
252931	Derowitsch	7/6/07	3/15/10	3/2/10 and 3/15/10	Methane detected at wellhead at levels approximately 100 % LEL and mostly above 5% CH4 by volume until approximately 9/4/07, then methane levels dropped to 0 and has remained at or near 0 since that time. Both the well vent and cistern have historically shown very low to 0 levels of methane. Late September to December 2009 readings at the well vent indicated levels of methane although the wellhead and cistern showed no detectable methane during that time period.	At the wellhead, well vent and cistern no change from last measurement of previous period with 0% LEL, no detectable methane; O2% volume at 20.9 and CO and H2S at 0 ppm.
235515	English	8/16/07	8/24/09	None	No methane has ever been detected at this wellhead.	Reading was attempted 3/15/10 but the gate has been locked.
16861-F	Golden Cycle Land	7/12/07	3/15/10	3/3/10 and 3/15/10	Readings initially showed methane at 100% LEL and greater than 20% by volume CH4, but dropped to 0 by 9/24/07 and remained at 0 (with two readings above 0 on 11/16/07 and 4/23/08) until 10/20/08. Starting 10/20/08 methane was once again detected at higher values along with CO at high levels and showings of H2S.	 %LEL remained unchanged at >100 CH4% volume decreased from 40 to 33 O2% increased from 0 to 3 CO increased from 0 to 77 and ended at 58 H2S decreased from 63 to 5 ppm
253317	Gonzalez	7/12/07	3/15/10	3/15/10	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% at 20.9 and no CO or H2S.
256504	Hopke	7/5/07	3/15/10	3/2/10 and 3/15/10	Readings consistently measure methane at >100% LEL and at values of CH4% by volume fairly consistently above 20 until late 2009 when levels dropped to between 10 and 20. The well has shown an overall slow decline in CH4 % by volume over time. H2S also has shown a decline over time such that most recent readings have been at or slightly above 0. No methane has ever been detected at the cistern.	At the wellhead: • % LEL remained unchanged at >100 • CH4% volume decreased from 18 to 16 • O2% volume increased from 15.7 to 17 • CO remained unchanged at 0 ppm H2S increased from 0 to 1.5 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	3/15/10	3/3/10 and 3/15/10	Methane levels at this wellhead have been consistently >100% LEL with CH4% by volume fairly consistently above 20 with an occasional lower values (but not 0). No methane has ever been detected at the cistern.	At the wellhead: • % LEL increased from 70 to >100 • CH4% volume increased 3.5 to 31 with a high of 97 during the period • O2% decreased from 19 to 0 and ended at 13.5 • CO and H2S remained unchanged at 0 ppm • H2S decreased from 2.5 ppm to 0 ppm 2/1/10 At the cistern: no changes from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.
35292	Kerman/Hanson	7/6/07	3/15/10	3/3/10 and 3/15/10	Values at this wellhead have been at or near 0 with two readings of >100% LEL and greater than 5% by volume CH4 on 12/2/08 and 12/22/08 and detectable methane readings in July, August and December 2009. No methane has ever been detected at the cistern.	No change from previous measurements at the wellhead and cistern with 0% LEL, no detectable methane, O2% at 20.9 and no CO or H2S.
	Lively 10-02	12/22/2008	3/15/10	3/3/10 and 3/15/10	Readings from this well started with mostly 0 to low levels of methane but have been moving upward with late 2009 readings showing detectable levels more consistently with some readings as high as >100 % LEL. CH4% volume remains below 5%. Some non detectable readings still also occur with early 2010 showing lower overall readings and many non detect readings.	No change from last measurement with 0% LEL, no detectable methane, O2% at 20.9 and no CO2 or H2S.
222539	Lively	7/6/07	3/15/10	3/15/10	No methane has ever been detected at this wellhead.	No change from previous measurements with 0% LEL, no detectable methane, O2% volume at 20.9 and CO and H2S at 0 ppm.

					Table 3 Water Well Measurements for the March 2010 Monthly Repo	rt
Permit Number	Name	Start Date Sample Last M Rep		Samples Since Last Monthly Report	History (Last Updated with March 2010 Monthly Report)	If sampled, comparison o
16861-F	Masters #1	8/13/07	3/16/10	3/2/10 and 3/16/10	No methane has ever been detected at this wellhead.	No change from previous measu methane, O2% volume at 20.9 a
271136	Мау	7/12/07	3/17/10	3/17/10	No methane has ever been detected at this wellhead.	No change from previous measu methane, O2% volume at 20.9 a
84108-A	McPherson	7/6/07	3/15/10	3/15/10	No methane has ever been detected at this wellhead.	No change from previous measu methane, O2% volume at 20.9 a
84106	Rohr	7/06/07	2/2/10	None	No methane has ever been detected at this wellhead.	Not sampled during the reporting
123144	Searle	7/11/07	3/15/10	3/15/10	No methane has ever been detected at this wellhead.	No change from previous measumethane, O2% volume at 20.9 a
239657	Smith	7/5/07	3/15/10	3/3/10 and 3/15/10	Detectable methane in early readings with % LEL at 100 or greater and % by volume of CH4 at up to 100. Began showing some variability in readings on 9/9/07 eventually decreasing until levels at 0 beginning 5/5/08. Three readings since that time on 5/21/08, 10/27/08 and 7/13/09 have shown >100% LEL and CH4 % by volume at or above 5. October 2009 reading showed low levels (18% LEL and 0.9% CH4 by volume).	At the well head no change from detectable methane, O2% volum At the well vent: • % LEL increased from 46 to > • CH4% volume increased from • O2% volume decreased from • CO increased from 0 to 9 ppn • H2S decreased from 5 to 0pp At the cistern all values remaine methane, O2% volume at 20.9 a
	BLM 15-12	6/1/09	2/17/10	None	Detectable methane with >100% LEL and CH4 % volume of greater than 70 and limited O2% volume.	Sampling attempted 3/17/10 but
Wells With	in or in Close Proxi	mity to River	Ridge Ranc	h Subdivision	+ •	
249362	Andexler	9/9/07	3/17/10	3/17/10	Several readings (3/25/09, 7/30/09 and October 2009) have shown less the 0.25% CH4 methane, otherwise no detectable methane.	The wellhead and cistern showe with 0% LEL, no detectable meth volume increased from 17.8 to 2
215706	Brice	7/12/07	3/17/10	3/17/10	No methane has ever been detected at this wellhead.	No change from previous measumethane, O2% volume at 20.9 a
248680	Campbell	8/14/07	3/17/10	3/17/10	No methane has ever been detected at this wellhead.	No change from previous measu and H2S at 0 ppm. O2% volume
20783	Goemmer Cattle	7/12/07	2/19/10	None	No methane has ever been detected at this wellhead.	Not sampled during this reportin
258815	Goodwin	7/12/07	3/17/10	3/17/10	Readings have shown methane levels at or near 0 with no readings above 0 from late January 2009 through October 2009. November 2009 through February showed 2010 showed low levels of methane.	 % LEL decreased from 5 to 0 CH4% decreased from 0,25 t O2% remained unchanged at CO and H2S remained at 0 p
249181	Hentschel	9/9/07	3/17/10	3/17/10	No methane has ever been detected at this wellhead.	No change from previous measu methane, O2% volume at 20.9 a
259122	Higgins	9/26/07	3/17/10	3/4/10 and 3/17/10	No methane has ever been detected at this wellhead	No change from previous measu methane, O2% volume at 20.9 a
269435	Hoppe (formerly Goacher)	7/11/07	3/17/10	3/17/10	No methane has ever been detected at this wellhead	No change from previous measu methane, O2% volume at 20.9 a
264581	Ireland	7/12/07	3/17/10	3/17/10	Typically no methane, but methane has been detected on 12/2/08, 12/22/08, and 1/6/09 with 100% or greater LEL and 5% by volume CH4.	No change from previous measu methane, O2% volume at 20.9 a
	Lang	10/29/07	7/28/08	None	No methane has ever been detected at this wellhead.	Reading attempted 3/15/10 but g
93386	Lowry	7/12/07	2/19/10	None	No methane has ever been detected at this wellhead.	Not sampled during this reportin
250369	Martin	7/12/07	2/16/10	None	No methane has ever been detected at this wellhead.	Sampling attempted 3/15/10 but

surements with 0% LEL, no detectable and CO and H2S at 0 ppm.

asurements with 0% LEL, no detectable

and CO and H2S at 0 ppm.

surements with 0% LEL, no detectable

and CO and H2S at 0 ppm.

ing period.

asurements with 0% LEL, no detectable and CO and H2S at 0 ppm.

om previous measurements with 0% LEL, no ume at 20.9 and CO and H2S at 0 ppm.

o >100

om 2.3 to 31 and ended the period at 5.0 m 20 to 6.8 and ended the period at 9.6 pm

, ppm with a light odor noted at 3/3 reading ned unchanged with 0 %LEL, no detectable and CO and H2S at 0 ppm.

ut too muddy to allow access.

wed no change from previous measurements ethane and CO and H2S at 0 ppm . O2% 0 20.9.

surements with 0% LEL, no detectable and CO and H2S at 0 ppm.

surements with 0% LEL, no detectable methane ne decreased very slightly from 20.9 to 20.8.

ing period.

0

5 to 0

at 20.9

ppm

surements with 0% LEL, no detectable and CO and H2S at 0 ppm.

surements with 0% LEL, no detectable

and CO and H2S at 0 ppm.

surements with 0% LEL, no detectable

and CO and H2S at 0 ppm.

surements with 0% LEL, no detectable and CO and H2S at 0 ppm.

It gate was locked preventing access.

ting period.

ut gate was locked with no access.

					Table 3 Water Well Measurements for the March 2010 Monthly Repo	rt
Permit Number	•		Last Sample	Samples Since Last Monthly Report	History (Last Updated with March 2010 Monthly Report)	If sampled, comparison o
248862	Meyer	8/14/07	3/17/10	3/4/10 and 3/17/10	Methane levels generally at >100% LEL and CH4 % by volume of greater than 5. Readings were a bit variable with some lower methane levels until 5/22/08 and then became consistently >100% LEL and CH4% by volume greater than 5.	 % LEL decreased from >10 CH4 % volume decreased f O2% volume increased from CO decreased from 1 ppm H2S increased from 0 to 1 ppm
192203	Rankins	7/12/07	2/16/10	None	No methane has ever been detected at this wellhead.	Not sampled during this reportir
276994	Rhodes	9/9/08	2/19/10	None	Slight LEL (5%) reported 7/30/09, but no methane detected. No methane has been detected previously or since at this wellhead.	Sampling attempted 3/15/10 bu
274468	Roloff	9/9/07	3/15/10	3/15/10	No methane had ever been detected at this wellhead except for low levels detected in the 8/25/09 measurement.	No change from previous meas methane, O2% volume at 20.9 a
254577	Ryerson	9/9/07	3/17/10	3/17/10	No methane has ever been detected at this wellhead.	No change from previous meas methane, O2% volume at 20.9 a
246775	Sharp	9/9/07	3/17/10	3/17 /10	No methane has ever been detected at this wellhead.	No change from previous meas methane, O2% volume at 20.9 a
267695	Speh	9/4/07	3/15/10	3/15/10	No methane has ever been detected at this wellhead.	No change from previous meas methane, O2% volume at 20.9 a
230572	Willis	7/11/07	3/17/10	3/17/10	No methane has ever been detected at this wellhead.	No change from previous meas methane, O2% volume at 20.9 a
240947	Wolahan	7/12/07	3/15/10	3/15/10	No detectable methane except 5/21/08, 1/27/09 and 2/9/09 with levels at 5% LEL and 0.25% by volume CH4.	No change from previous meas showing 0% LEL, no detectable H2S at 0 ppm.
City Ranch	and Other Propertie	es	ļ	1	•	
	Andreatta/Carsella	8/14/07	3/17/10	3/17/10	No methane has ever been detected at this wellhead.	No change from previous meas methane, O2% volume at 20.9 a
197472	Bartlett	8/15/07	2/15/10	None	No methane has ever been detected at this wellhead.	Not sampled during this reportir
210526	Bruington	8/7/07	3/16/10	3/3/10 and 3/16/10	From start of reading to November 2009 wellhead readings have shown consistent levels of methane at >100% LEL and CH4 % by volume at greater than 50. Since November 2009 overall %LEL and CH4% volume have decreased. With no detectable methane in March 16, 2010 reading. Some CO and H2S readings in mid to late 2008 but current readings have shown little to no CO and H2S. No methane has ever been detected at the cistern.	At the wellhead: • % LEL decreased from >100 • CH4% volume decreased from • O2% volume increased from • CO remained unchanged at 0 • H2S increased to 2.5 to 3 and There were no changes at the of LEL, no detectable methane, Official sectors of the sectors
220100	Cordova	10/30/07	3/16/10	3/3/10 and 3/16/10	Initial readings were variable with readings as low as 0 and as high as >100% LEL and greater the 5% CH4 by volume. After 3/14/08 mostly readings at 0 with some readings at levels slightly above 0. Since March 2009 no detectable methane.	No changes from previous mea O2% volume at 20.9 and CO ar
191079	Brian Dale	8/15/07	3/17/10	3/17/10	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 meas no detectable methane, O2% vo
193092	Degan	8/25/08	3/17/10	3/17/10	Initial readings were variable between 0 and >100% LEL and 5% by volume CH4. From 2/17/09 to March 2010 there was no detectable methane.	 % LEL increased from 0 to 5 CH4% volume increased from O2% volume decreased from CO and H2S remain unchanged
	Dernell	8/15/07	3/16/10	3/16/10	No methane has ever been detected at this wellhead.	No change from previous meas methane, O2% volume at 20.9

100 to 78

I from 5 to 4 with a high reading of 17

om 16.3 to 17.1

m to 0

ppm

ting period.

out gate was locked with no access..

asurements with 0% LEL, no detectable 9 and CO and H2S at 0 ppm.

asurements with 0% LEL, no detectable

9 and CO and H2S at 0 ppm.

asurements with 0% LEL, no detectable

9 and CO and H2S at 0 ppm.

asurements with 0% LEL, no detectable

9 and CO and H2S at 0 ppm.

asurements with 0% LEL, no detectable

9 and CO and H2S at 0 ppm.

asurements at the wellhead and cistern with both ble methane, O2% volume at 20.9 and CO and

asurements with 0% LEL, no detectable 9 and CO and H2S at 0 ppm.

ting period.

00 to 0

from 31 to 0

om 11 to 20.9

at 0.

and ended the period at 0.

e cistern from previous measurement with 0% O2% volume at 20.9 and CO and H2S at 0 ppm.

easurements with % LEL and CH4% volume at 0, and H2S at 0 ppm

asurement at wellhead or Well #2 with 0% LEL, volume at 20.9, and CO and H2S at 0 ppm.

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rom 0 to 0.25 om 20.9 to 20.7

anged at 0.

asurements with 0% LEL, no detectable 9 and CO and H2S at 0 ppm.

					Table 3 Water Well Measurements for the March 2010 Monthly Repo	rt
Permit Number	Name	Sampling Start Date	Last Sample	Samples Since Last Monthly Report	History (Last Updated with March 2010 Monthly Report)	If sampled, comparison c
258651	Gonzalez	5/22/08	3/17/10	3/4/10 and 3/17/10	Methane readings were >100% LEL and CH4 % by volume mostly above 20. From 4/9/09 to 7/13/09 values were reduced with % LEL below 50 and CH4 % by volume below 3. From 7/30/09 reading to present values are varuable with >100 for one or more readings and then reduced to as low as 0 for one or more readings. There has been no detectable methane at the cistern.	 At the wellhead: % LEL decreased from 30 to CH4% volume decreased from O2% volume increased from CO and H2S remained at 0 p reading. At the cistern: no changes from detectable methane, O2% volume
	Haupt #1	6/1/09	3/17/10	3/17/10	Until December 2009 all readings but one have shown % LEL at >100 with CH4 % by volume at 11 or less. Beginning with December 2009 reading there have been several large variations in readings ranging from >100 to 0 %LEL and 5 to 0 %CH4 by volume.	 % LEL decreased from >100 CH4% volume decreased fro O2% volume decreased from CO remained at 0 ppm H2S decreased from 1 to 0 p
203536	Hurley	8/2/07	3/17/10	3/17/10	Readings have fairly consistently shown >100% LEL and CH4 % by volume between 10 and 50 with several much lower readings, most recently in July and October 2009 and March 2010. H2S has also been measured, but starting around 9/08 values have been reduced to at or near 0 ppm.	 % LEL decreased from >100 CH4% volume decreased fro O2% volume increased from CO and H2S remained unchased
205195	Johnson	8/15/07	3/17/10	3/17/10	Readings have shown mostly low values of methane (% LEL less than 20 and CH4 % by volume less than 1) with 0 values. The number of non detectable methane reading has shown a general increase since late 2008.	At wellhead, cistern and 2 nd wel with 0 % LEL, no detectable me and H2S.
193520X	McEntee	8/2/07	2/15/10	2/15/10	Initially methane was detected at this wellhead at values of >100% LEL and greater than 10% by volume CH4. Starting 1/28/08 values dropped to at or near 0 with only one higher value on 2/17/09 (>100% LEL and 5% By volume CH4). Mostly no detectable methane since that time with two low level detections; one on 4/22/09 and one on 10/20/09.	At the wellhead and east wellhe measurement with 0% LEL, no CO and H2S at 0 ppm.
191345	Pennington	8/7/09	3/17/10	3/17/10	Four readings have occurred at this well; showing detectable methane at levels of >100% LEL and CH4% by volume at 15 or less except for 10/20/09 reading which showed lower methane levels (25% LEL and 1.25% CH4 by volume)	Changes from last reading on 1 • % LEL decreased from 25 to • CH4% volume decreased fro • O2% volume increased from CO and H2S remained unchange
121013	Schafer	8/15/07	3/16/10	3/16/10	No methane has ever been detected at this wellhead	No change from previous mease 20.9 and 0 ppm CO and H2S.
248983	Tobyas	8/3/07	3/17/10	3/17/10	Historically this wellhead has shown wide variance between 0 and higher methane values of >100% LEL and greater than 5% by volume CH4 with no discernable long term trends.	 % LEL decreased from >100 CH4% volume decreased from O2% volume decreased from CO increased from 0 to 1 ppr H2S remained at 0 ppm Reading attempted 3/2/10 but w
Silver Spu			1			
268180	Billstrand	8/12/08	3/16/10	3/16/10	No methane has been detected at this wellhead except for low readings on 5/6/09 and 1/10/10.	No change from previous readir detectable methane and 0 ppm and H2S decreased from 0.5 to
215807	Brown	12/8/08	3/16/10	3/16/10	No methane has ever been detected at this wellhead.	No change from previous readir 20.9 and CO and H2S at 0 ppm

to 4 from 1.5 to 0.2 om 20 to 20.8 0 ppm with a slight H2S odor noted in 3/4/10

m previous measurement with 0% LEL, no lume at 20.9 and CO and H2S at 0 ppm. 00 to 12 from 5 to 1

om 18.3 to 10.7

ppm

00 to 0 from 23 to 0 om 11.4 to 20.8 changed at 0 ppm

vellhead no change from previous measurement methane, O2% volume at 20.9 and 0 ppm CO

head there were no changes from previous of detectable methane, O2% volume at 20.9 and

n 10/20/09: to 0 from 1.25 to 0 om 20 to 20.9 anged at 0 ppm asurements with no detectable methane, O2% at

00 to 94 from 5.00 to 4.70 om 18 to 15.3 opm

was too muddy to allow access.

ding for %LEL, CH4% volume, and CO with no m CO. O2% volume increased from 18.8 to 20.9 to 0 ppm.

ding with no detectable methane, O2% volume at m.

					Table 3 Water Well Measurements for the March 2010 Monthly Repo	rt
Permit Number			Last Sample	Samples Since Last Monthly Report	History (Last Updated with March 2010 Monthly Report)	If sampled, comparison c
222294	Cramer	8/3/07	3/16/10	3/16/10	Most methane readings have been at or near 0 with periodic higher readings.	At the wellhead: • % LEL decreased from 12 to • CH4% volume decreased from • O2% volume increased from • CO decreased from 64 to 0 p • H2S decreased from 1.5 to 0 No change from previous measure methane; O2% at 20.9 and 0 pp
192509	Eddleman, Paul	1/17/08	3/16/10	3/16/10	Readings mostly above >100% LEL and 5% by volume CH4 until 9/23/08 and then levels dropped to mostly 0 until 1/26/09. Since 1/26/09 readings have shown wide variability between low to 0 methane and >100% LEL and greater than 5% by volume methane. Since 6/9/09 methane levels have been more consistently higher.	 % LEL decreased from 12 to CH4% decreased from 0.6 to O2% volume increased from CO decreased from 16 to 0 p H2S decreased from 4 to 0 p
226536	Eddleman, Todd	1/17/08	3/15/10	3/15/10	Methane readings have been widely variable from 0 to >100% LEL and 5% by volume CH4.	No change from previous readin 20.9 and CO and H2S at 0 ppm
221465	Evenden	8/2/07	3/15/10	3/15/10	Methane readings have generally been at or near 0 with no detectable methane since 3/24/09 and one higher reading on 1/12/09 (>100% LEL and 5% by volume methane).	 % LEL increased from 6 to 8 CH4% increased from 0.30 to O2% volume increased from CO and H2S remained at 0 p
	Fischer	1/26/09	3/16/10	3/16/10	Only two readings have detected low levels of methane (2/17/09 and 2/18/10), other readings have not detected methane.	 % LEL decreased from 5 to 0 CH4% decreased from 0.25 t O2% volume remained at 20. CO and H2S remained at 0
214145A	Fitzner	11/18/08	3/15/10	3/15/10	Methane levels have been generally at 0 but occasionally shows wide swings to >100 % LEL and 5 % CH4 by volume.	At the wellhead: • % LEL decreased from 33 to • CH4% decreased from 1.65 t • O2% increased from 0 to 20.4 • CO remained the same at 0 • H2S decreased from 3 to 0 p At cistern no detectable methan at 0 ppm.
31935	Garza-Vela	1/30/08	3/15/10	3/15/10	Generally there is 0 to low methane levels except for an occasional low level reading.	No change from previous measu O2% volume at 20.9 and CO an
196372	Geiselbrecht	8/12/08	3/16/10	3/16/10	No methane has ever been detected at this wellhead.	No change from previous measu O2% volume at 20.9 and CO an
246350	Gumpert	7/29/08	3/16/10	3/16/10	Methane readings have been widely variable with most readings either 0 or >100% LEL and 5% by volume CH4.	 % LEL decreased from 5 to 0 CH4% decreased from 0.25 O2% volume remained at 20. CO and H2S remained at 0 p
196371	Lyon	8/15/07	3/16/10	3/16/10	Between 2007 and mid-2009 most methane readings have been at or near 0 with higher values of >100% LEL and 5% by volume CH4 on 5/22/08 and 4/22/09. Beginning in June of 2009 methane has been more regularly detected.	 % LEL decreased from 18 to CH4% volume decreased fro O2% volume increased from CO and H2S remained unchar

to 0 from 0.6 to 0 om 5.5 to 20.9 0 ppm 0 ppm asurements at the cistern with no detectable ppm CO and H2S. to 0 to 0 om 0.2 to 20.9 ppm ppm ding with no detectable methane, O2% volume at m. 8 to 0.40 om 15.7 to 20.7 ppm 0 5 to 0 20.9 0 ppm to 0 5 to 0 20.9 0 ppm ane with O2% volume at 20.9 and CO and H2S asurements with 0 % LEL and CH4 % volume, and H2S at 0 ppm. asurements with 0 % LEL and CH4 % volume, and H2S at 0 ppm 0 25 to 0 20.9) ppm to 0 from 0.9 to 0 om 4.6 to 20.9 hanged at 0 ppm

					Table 3 Water Well Measurements for the March 2010 Monthly Repo	rt
Permit Number			Last Sample	Samples Since Last Monthly Report	History (Last Updated with March 2010 Monthly Report)	If sampled, comparison c
271524-A	Modlish	1/30/08	3/15/10	3/15/10	Most methane readings have been at or near 0 with higher values of >100% LEL and 5% by volume CH4 on 10/21/08 and 5/20/09.	 % LEL increased from 0 to 5 CH4% volume increased from O2% volume remained unchated CO and H2S remained unchated
28093MH	Morine	9/10/08	3/16/10	3/16/10	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 mease O2% volume at 20.9 and CO an
35227MH	Morris	10/8/08	2/17/10	None	Methane readings swing widely between 0 and 100 % LEL and 0.00 and 5.00 % CH\$ by volume.	Not sampled during this reportin
190327	Palmer	8/12/08	3/16/10	3/16/10	No methane was ever been detected at this wellhead until low levels were detected in 10/19/09 and 11/6/09 readings and again on 1/19/2010.	No change from last reading wit and Co and H2S at 0 ppm.
197128	Roberts	4/08/08	3/16/10	3/16/10	Methane readings have historically been widely variable from 0 to >100% LEL and 5% by volume CH4.	 % LEL decreased from 40 to CH4% volume decreased fro O2% volume increased from CO and H2S remained unchased
271748	Sample	3/10/08	2/17/10	None	Until July 2009 most of the readings from this wellhead have been no or low levels of detectable methane with higher readings on 5/22/08, 6/3/08, and 5/20/09. More consistent methane readings have occurred beginning in July 2009.	Not sampled during this reportin
192144	Snow	8/2/07	3/16/10	3/16/10	No measurable methane until 10/4/07, then widely variable levels ranging from 0 to >100% LEL and 5% by volume CH4 with no discernable trends.	 % LEL decreased from 25 to CH4% volume decreased fro O2% volume increased from CO remained unchanged at H2S decreased from 1.5 to 0
213070	Stephens	8/12/08	3/16/10	3/16/10	No methane had ever been detected at this wellhead except for low levels detected on 10/19/09.	 % LEL and CH4% volumes r O2% volume increased from CO remained unchanged at (H2S decreased from 3 to 0 p
261753	Wahl	8/5/09	23/16/10	3/16/10	No methane has ever been detected at this wellhead.	No changes from previous meas methane, O2% volume at 20.9 a
234839	Waltz	8/12/08	3/16/10	3/16/10	No methane has ever been detected at this wellhead.	No changes from previous meas methane, O2% volume at 20.9 a
234836	White, Jim	1/4/08	3/16/10	3/16/10	Methane levels have been widely variable between no detectable methane and methane levels at >100% LEL and 5% by volume CH4 with no discernable trends. No methane has ever been detected at the cistern.	No change from last reading at methane, O2% volume at 20.9 a
219376	White, Orlie	8/2/07	3/16/10	3/16/10	Methane values historically at low to 0 with higher values on 5/22/08 and from 9/10/08 to 10/29/08. Four detectable methane readings in 2009; on 3/26, 9/29, 10/19 and 12/17. In 2010 detectable methane appears to be increasing.	 % LEL increased from 0 to 5 CH4% volume increased from O2% volume decreased from CO and H2S remained unchased
Black Haw	k Ranch					
218719	Goza	1/14/09	3/17/10	3/17/10	No methane has ever been detected at this wellhead except for 1/19/10 and 3/1710 readings.	 % LEL increased from 0 to CH4% volume increased from O2% volume decreased from CO and H2S remained unch

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- om 0 to 0.25 hanged at 20.9 changed at 0 ppm
- asurements with 0 % LEL and CH4 % volume, and H2S at 0 ppm

ting period.

with no detectable methane, O2% volume at 20.9

to 0 from 2 to 0 om 9.8 to 20.9 hanged at 0 ppm ting period.

- to 0 from 1.25 to 0
- om 6.8 to 20.9
- 0 ppm
- o 0 ppm
- remained unchanged at 0 om 4.8 to 20.9
- t 0 ppm
- ppm
- easurement with 0% LEL, no detectable 9 and CO and H2S at 0 ppm. easurement with 0% LEL, no detectable
- and CO and H2S at 0 ppm.
- at wellhead and cistern with no detectable and CO and H2S at 0 ppm.

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om 0 to 0.25 om 20.9 to 20.5 changed at 0 ppm

to 6

from 0 to 0.25 rom 20.9 to 19.4 nchanged at 0 ppm

	Methan	Table 4 e Reading (5 March 20	s Schedu	le			
Landowner	Subdivision	<u>Water</u> Level	<u>Cistern</u>	<u>Bi-</u> Monthly	<u>Monthly</u>	Quarterly	Weekly
Monitoring Within 1 Mile Radi	us or of Special Interes	t					
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			
Coleman	River Ridge			Х			
BLM 15-12	La Veta Pines				Х		
Lively 10-02	River Ridge			Х			

	Table 4 Methane Readings Schedule (5 March 2010)						
Landowner	<u>Subdivision</u>	<u>Water</u> Level	<u>Cistern</u>	<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			Х	
Roloff	River Ridge	Х			Х		
Hoppe (Goacher)	River Ridge				Х		
Мау	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	Х			Х		
Meyers	River Ridge			Х			
Hentschel	River Ridge				Х		
Rankins	River Ridge					Х	
Lowry	River Ridge					Х	
Goemmer Cattle	River Ridge					Х	
Higgins	River Ridge	Х			Х		
Campbell	River Ridge				Х		
Rhodes	River Ridge				Х		
City Ranch							
T. Gonzalez	City Ranch	Х	Х	Х			
Hurley	City Ranch	Х	Х		Х		
Tobyas	City Ranch			Х			

	Methan	Table 4 ne Reading (5 March 20	s Schedul	e			
Landowner	Subdivision	<u>Water</u> Level	Cistern	<u>Bi-</u> Monthly	Monthly	Quarterly	Weekly
Dale	City Ranch				X		
McEntee	City Ranch				Х		
Johnson	City Ranch		Х		Х		
Cordova	City Ranch			Х			
Dernell	City Ranch				Х		
Schaefer	City Ranch					Х	
Bruington	City Ranch		Х	Х			
Bartlett	City Ranch					Х	
Pennington – Birkman	City Ranch				Х		
HAUPT #1	City Ranch				Х		
Deagan	City Ranch					Х	
Bear Creek/Silver Spurs							
Andreatta/Carsella	Bear Creek				Х		
Orlie White	Silver Spurs	Х			Х		
Evenden	Silver Spurs				Х		
Roberts	Silver Spurs				Х		
Snow	Silver Spurs	Х			Х		
Cramer	Silver Spurs	Х	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		Х		Х		
Billstrand	Silver Spurs				Х		

	Methan	Table 4 e Reading: (5 March 20	s Schedul	e			
Landowner	Subdivision	<u>Water</u> Level	<u>Cistern</u>	<u>Bi-</u> Monthly	<u>Monthly</u>	Quarterly	Weekly
Waltz	Silver Spurs				Х		
Stephens	Silver Spurs				Х		
Palmer (G/S)	Silver Spurs				Х		
Geoselbrecht	Silver Spurs				Х		
Morine	Silver Spurs				Х		
Morris	Silver Spurs					Х	
Brown	Silver Spurs	Х			Х		
Fitzner	Silver Spurs				Х		
Fischer	Silver Spurs					Х	
Wahl	Silver Spurs				Х		
Black Hawk Ranch							
Goza	Black Hawk				Х		

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

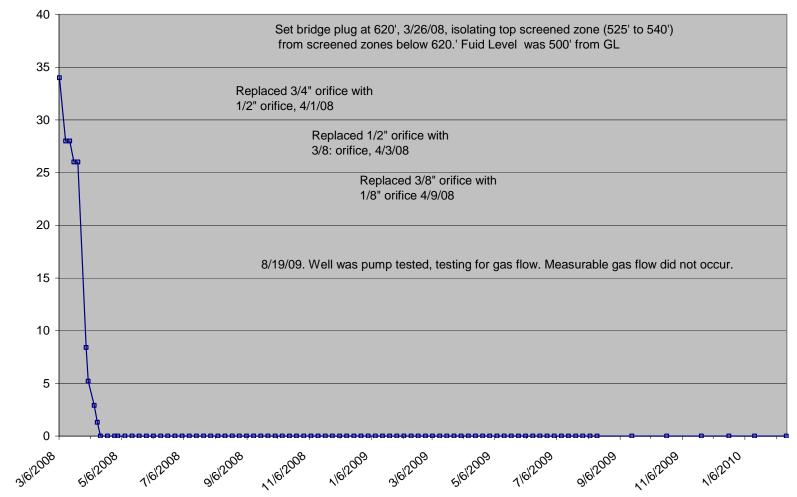
	Table 5 Residences Receiving Water					
Jerry Angely	Has received water provided by PEI					
Kent Smith	Has received water provided by PEI					
Alan Cramer	Has received water provided by PEI					
Tom Gonzales	Has received water provided by PEI					
Spencer/Carol Snow	Has received water provided by PEI					
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	Has received water provided by PEI					
Bounds	To date has not received water provided by PEI					
Houghtling	Added to the list in January 2010					

No new residences have been added during this reporting period.

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

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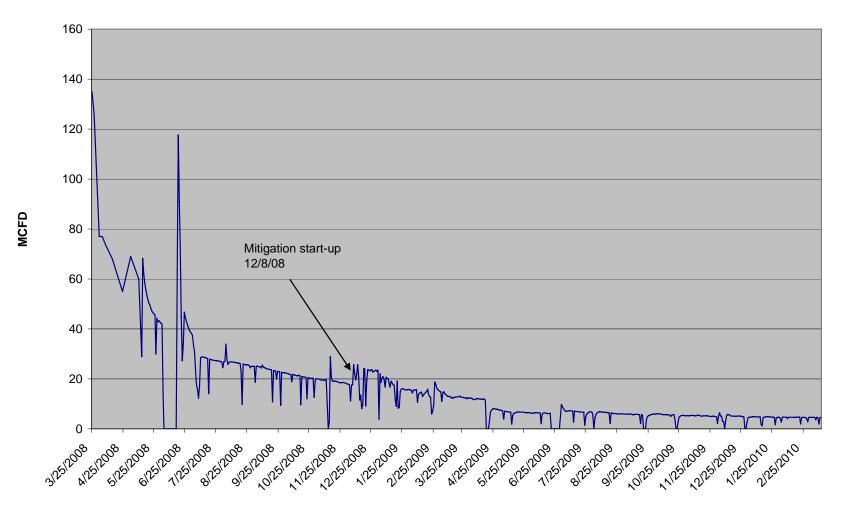
POCI 55 MW Gas Flow from 3/6/08 to 2/15/10



MCFD

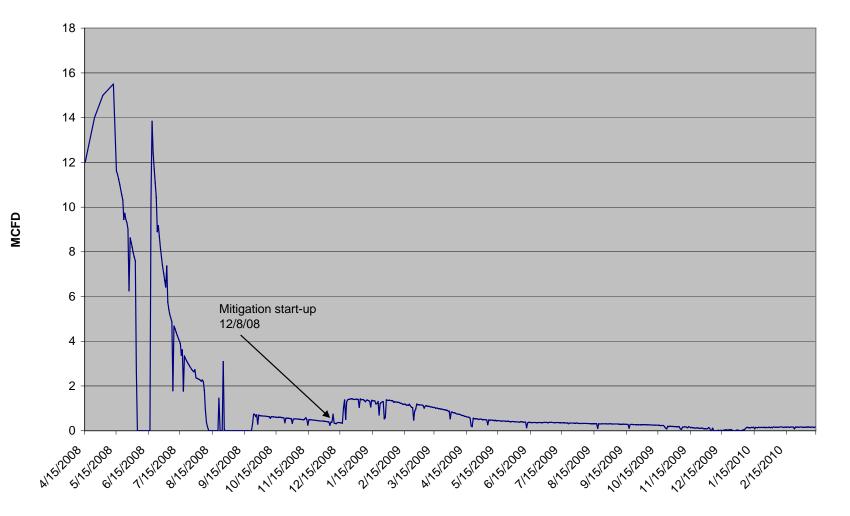
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Recovery 1 Kittleson Gas Flow from 3/25/08 to 3/14/10

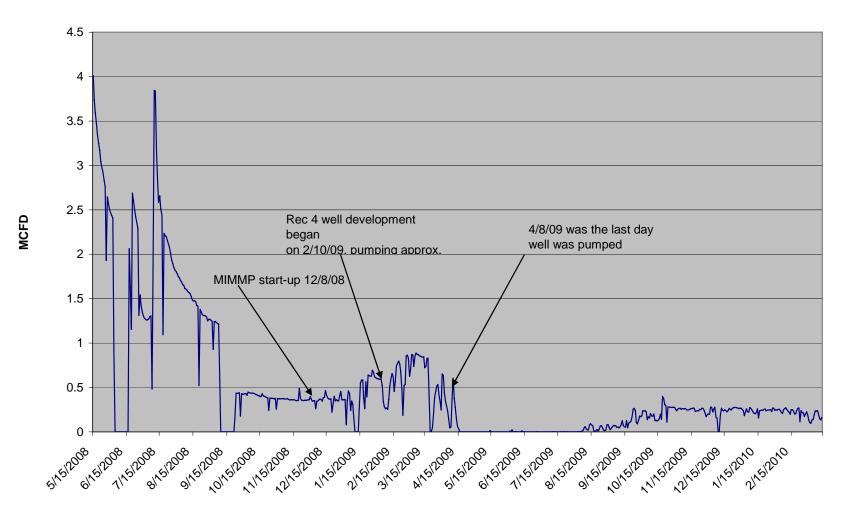


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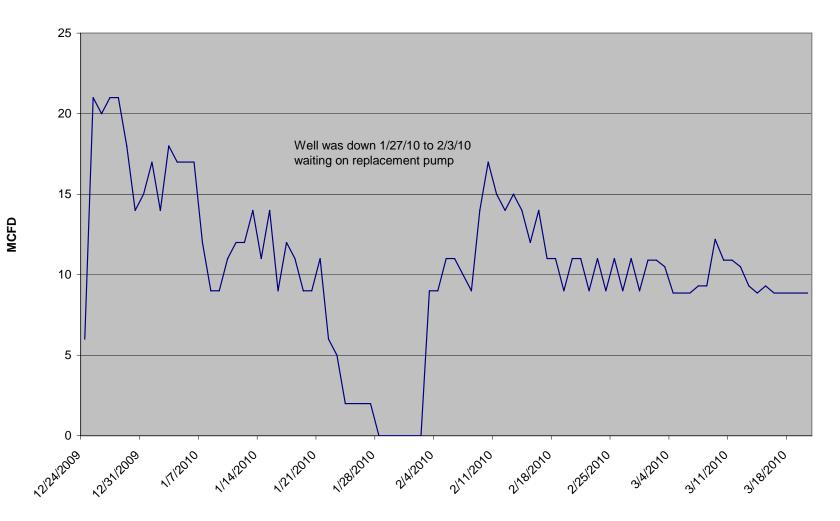
Recovery 3 PEI Gas Flow from 4/15/08 to 3/14/10



Recovery 4 Barrett Gas Flow from 5/15/08 to 3/14/10

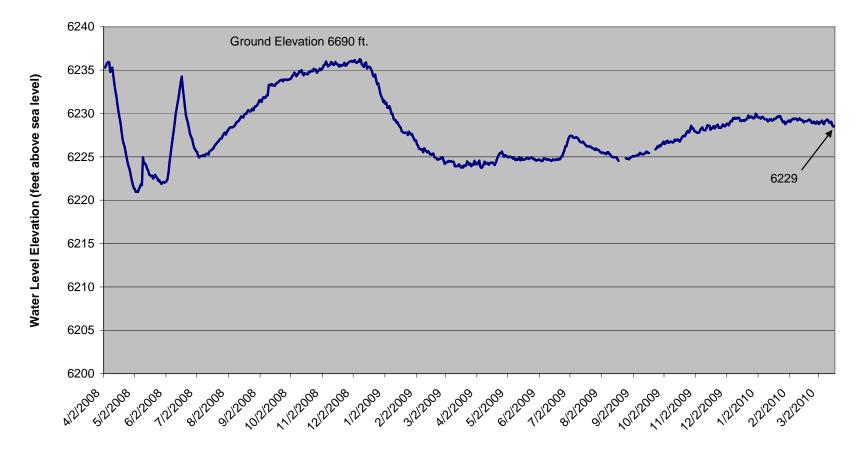


Recovery 5 Masters Gas Flow (Masters WW 257113) from 12/24/09 to 3/20/10

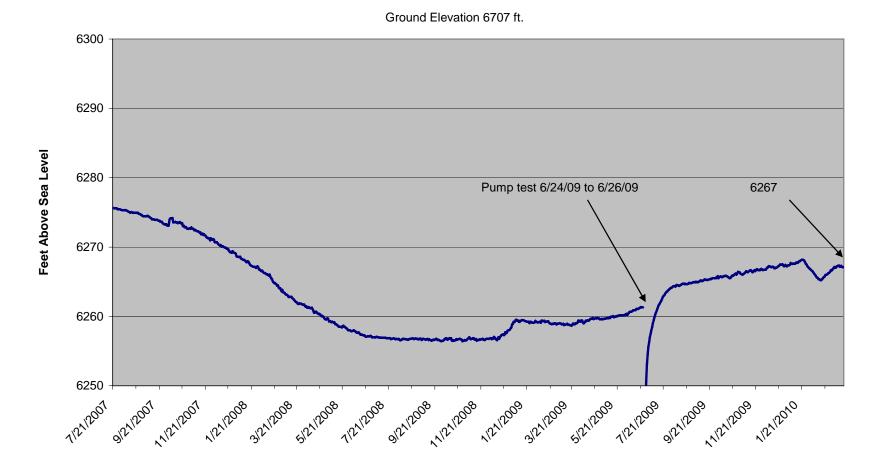


Attachment 2 Graphs of Pressure and Fluid Level Data From POCI 55, Barrett, Bergman, Bruington, Coleman, Evenden, Garza-Vela and Meyer

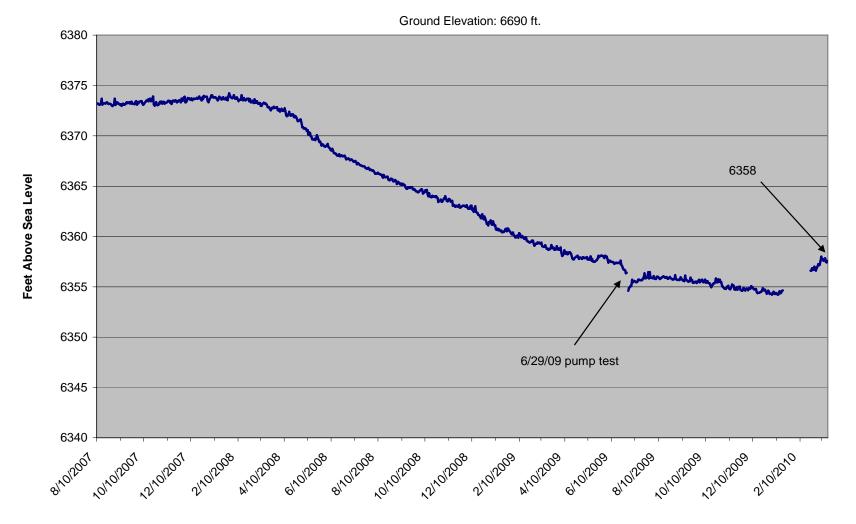
POCI 55 Monitor Well, Static Water Level Elevation from 4/2/08 to 3/17/10 Permit # 275819 Lot 55 RRR, SE SW Sec 3 29S 67W, GL elev. 6690'



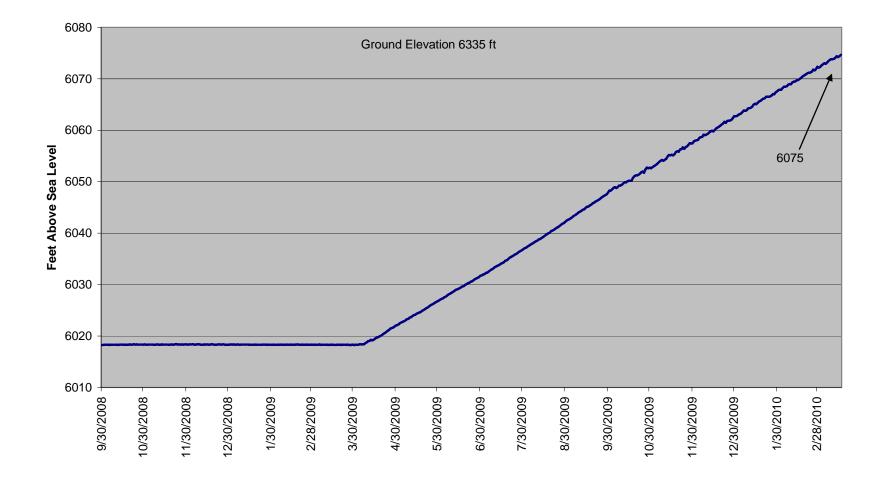
Barrett WW Static Water Level from 7/21/07 to 3/17/10 Permit # 257994 Lot 57 RRR



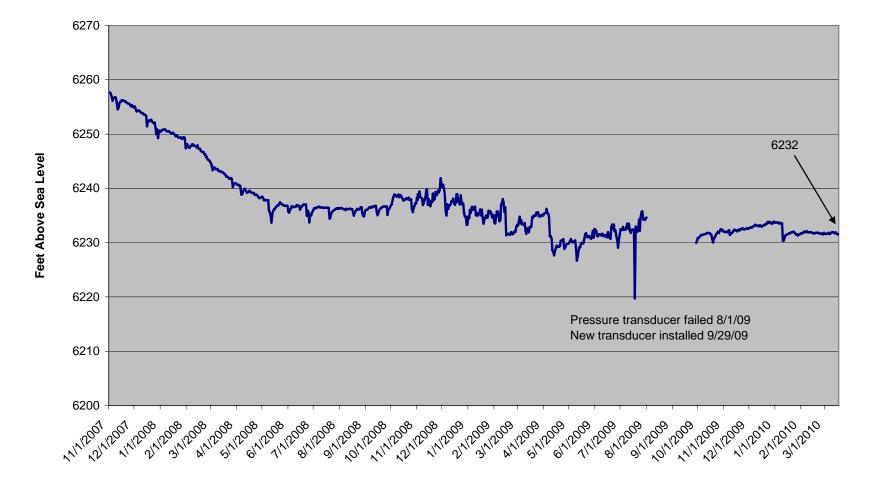
Bergman WW, Static Water Level from 8/10/07 to 3/17/10 Permit # 244403, Lot 48 RRR



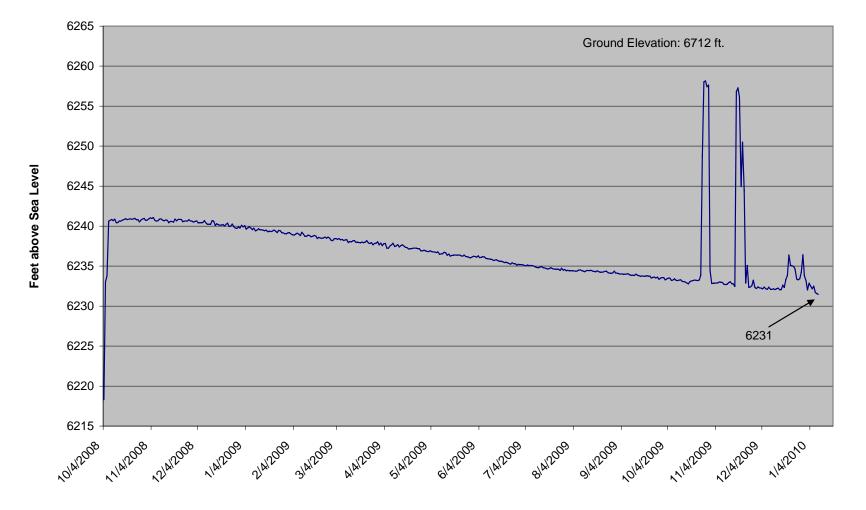
Bruington WW, Permit # 210526, City Ranches Lot 15 Static Water Level from 9/30/08 to 3/17/10



Coleman WW, Water Level from 11/1/07 to 3/17/10 Permit # 267694 Lot 70 RRR G.L. elev. 6848'

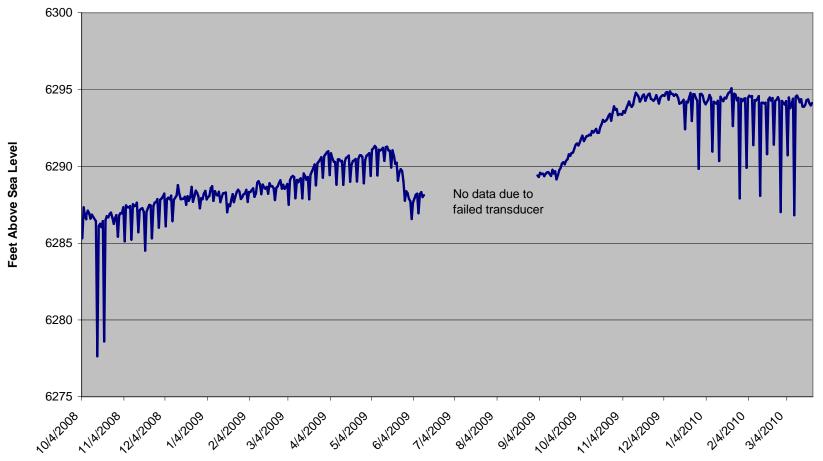


Evenden WW Permit # 221465 Static Water Level from 10/3/08 to 1/9/10



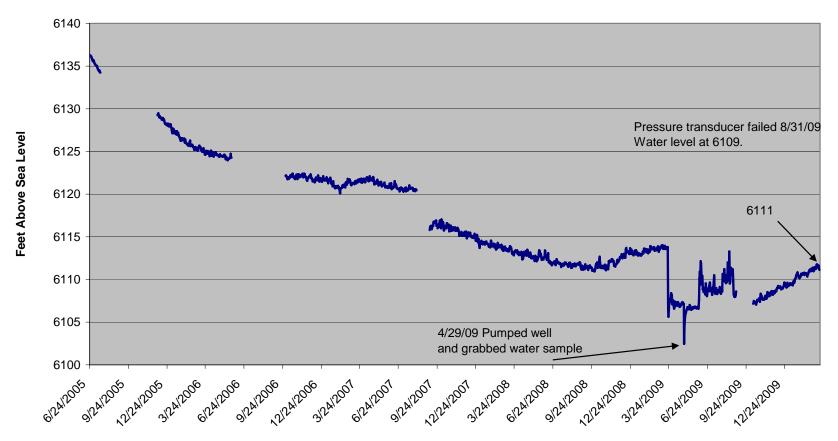
Garza WW, Water Level from 10/3/08 to 3/22/10 Permit # 206886, Lot 60 Silver Spurs Ranch





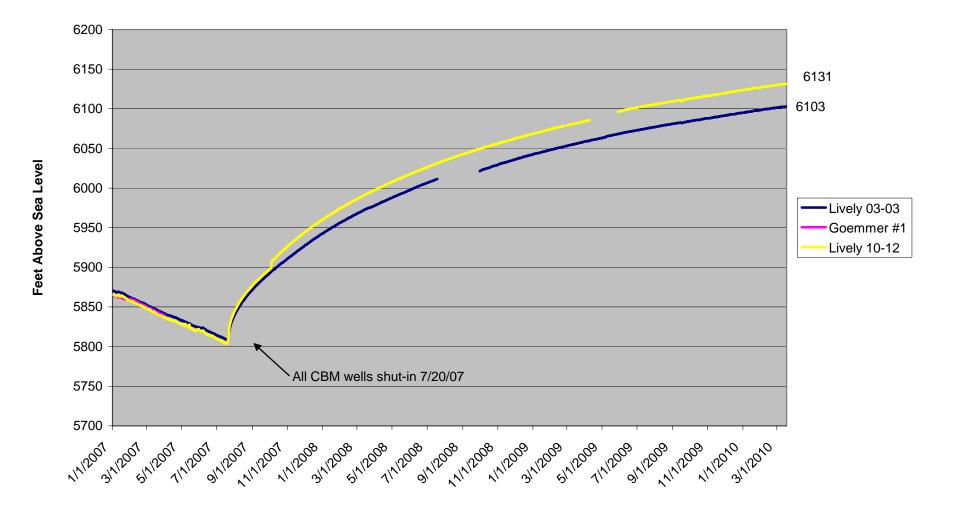
Meyer WW Permit # 248862 Static Water Level from 6/24/05 to 3/17/10

Ground Elevation: 6575 ft.

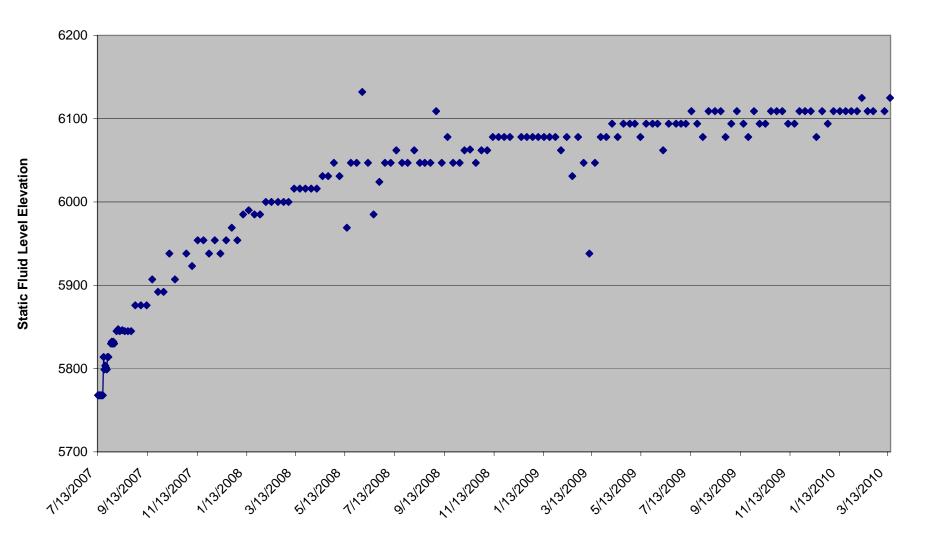


Attachment 3 Fluid Levels in Petroglyph Production Wells

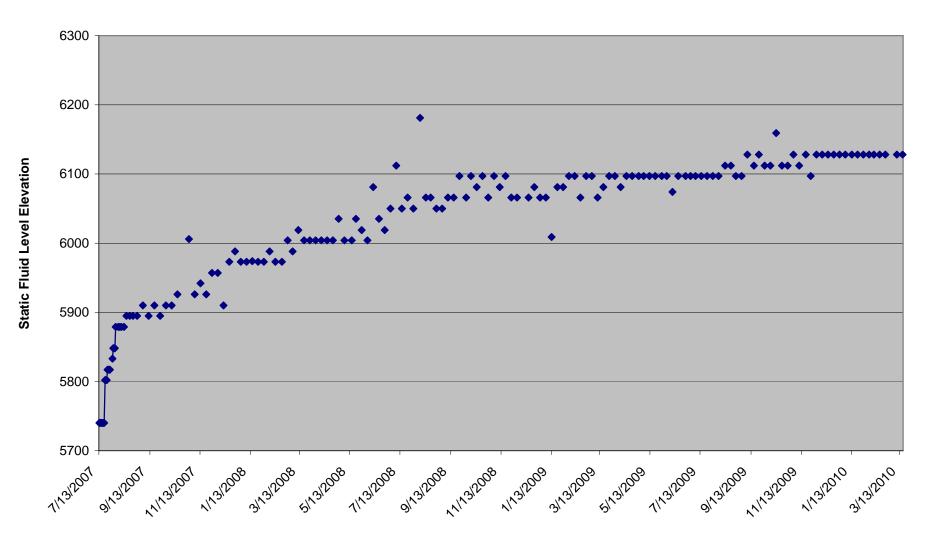
Vermejo/Trinidad Monitor Wells Static Water Level from 1/1/07 to 3/17/10



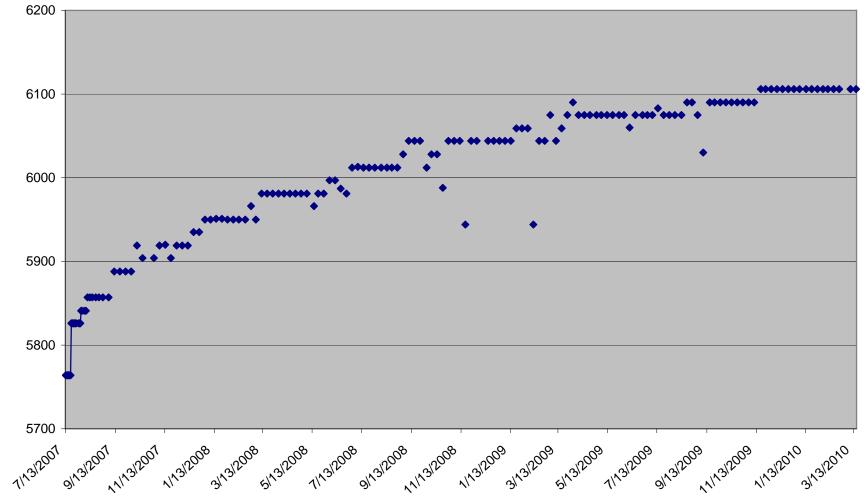
Lively 02-02 7/13/07 thru 3/16/10 Wells shut down 7/20/07



Lively 02-12 7/13/07 thru 3/16/10 Wells shut down 7/20/07

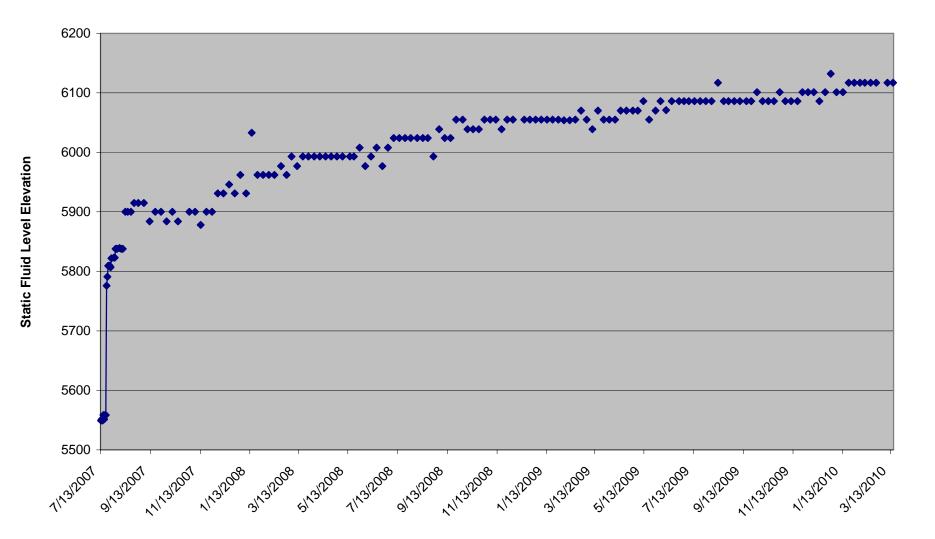


Lively 03-01 7/13/07 thru 3/16/10 Wells shut down 7/20/07

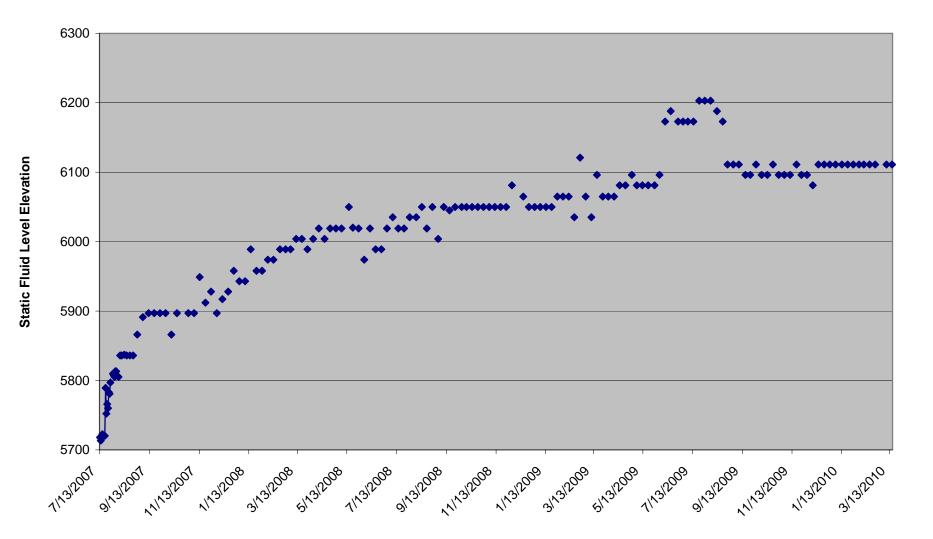


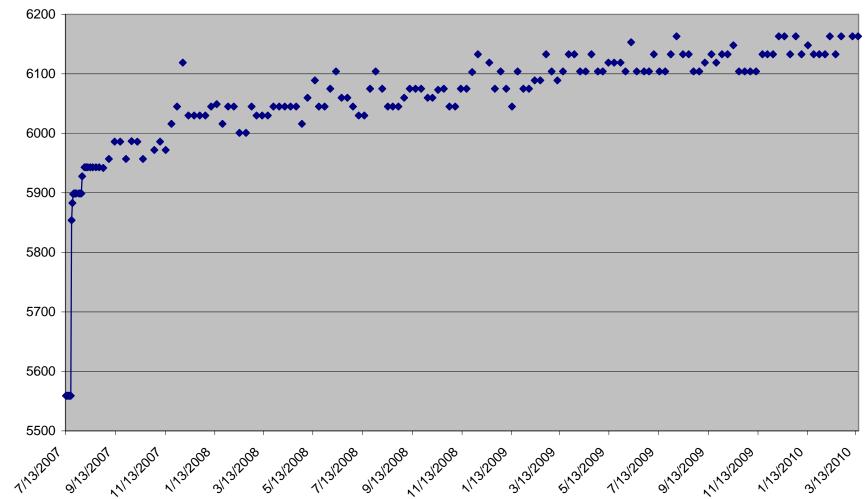
Static Fluid Level Elevation

Lively 03-10 7/13/07 thru 3/16/10 Wells shut down 7/20/07



Lively 03-12 7/13/07 thru 3/16/10 Wells shut down 7/20/07

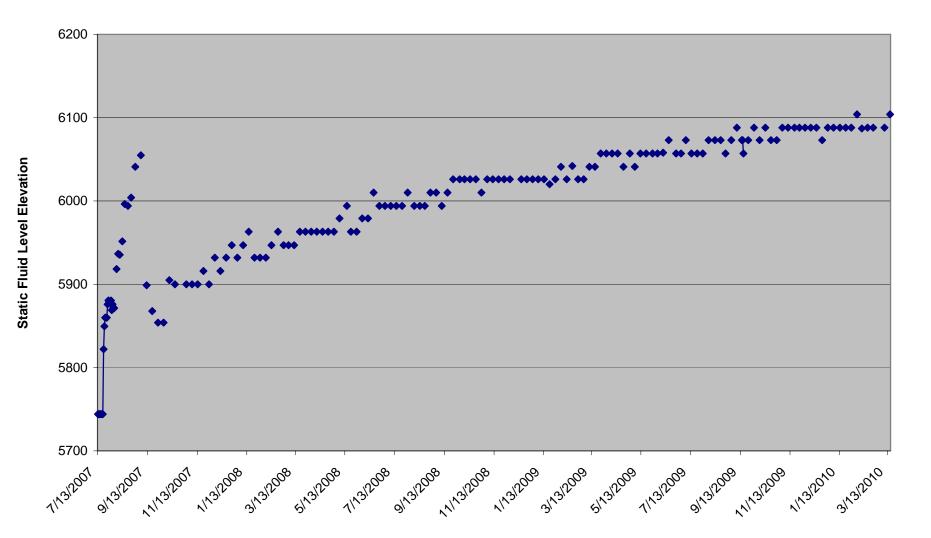




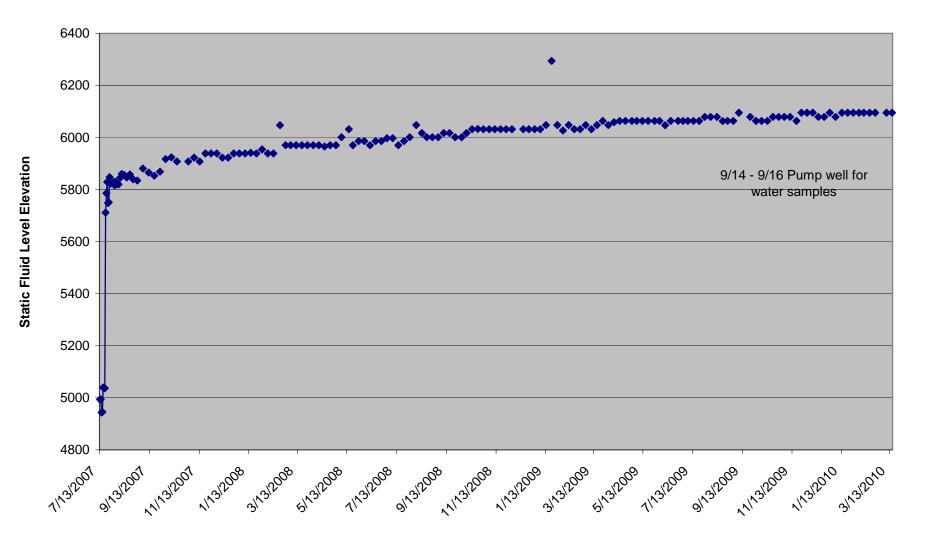
Lively 10-04 7/13/07 thru 3/16/10 Wells shut down 7/20/07

Static Fluid Level Elevation

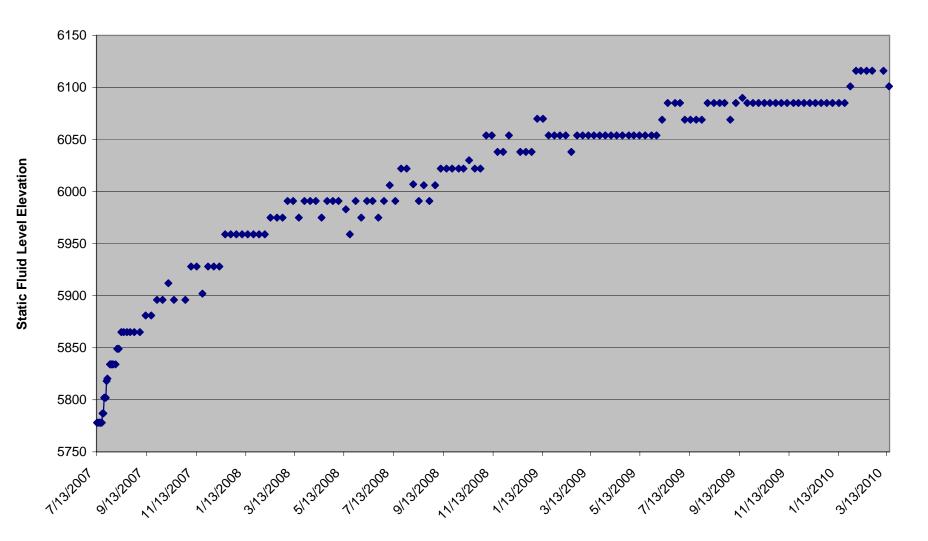
Rohr 04-10 7/13/07 thru 3/16/10 Wells shut down 7/20/07



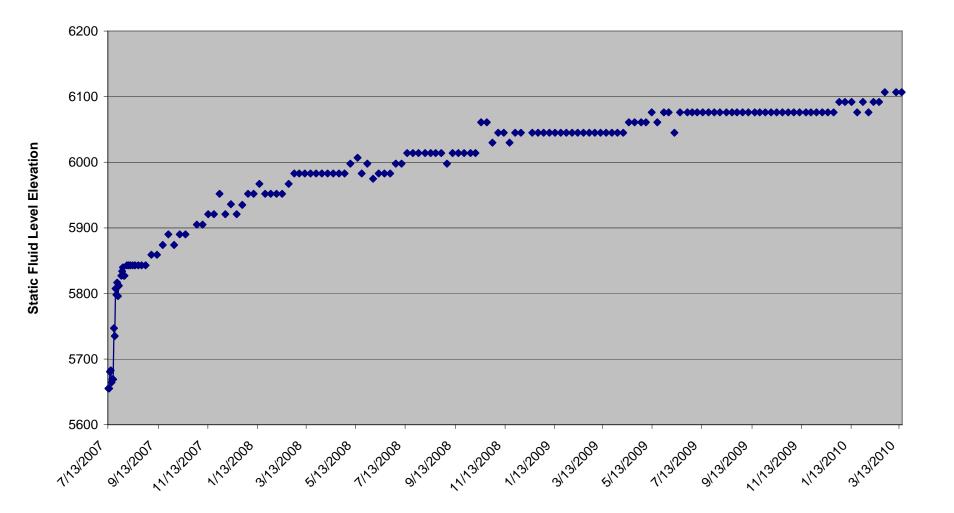
Rohr 09-10 7/13/07 thru 3/16/10 Wells shut down 7/20/07



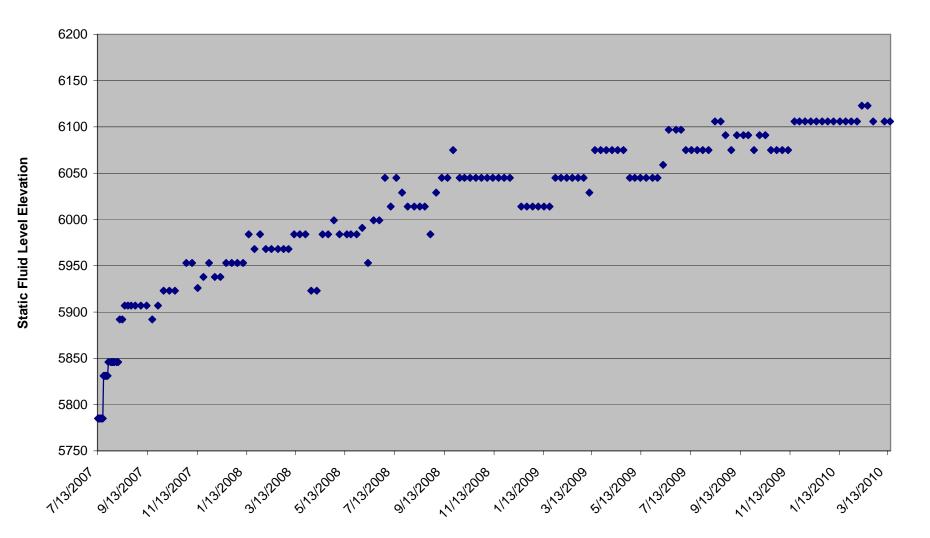
State 36-02 7/13/07 thru 3/16/10 Wells shut down 7/20/07



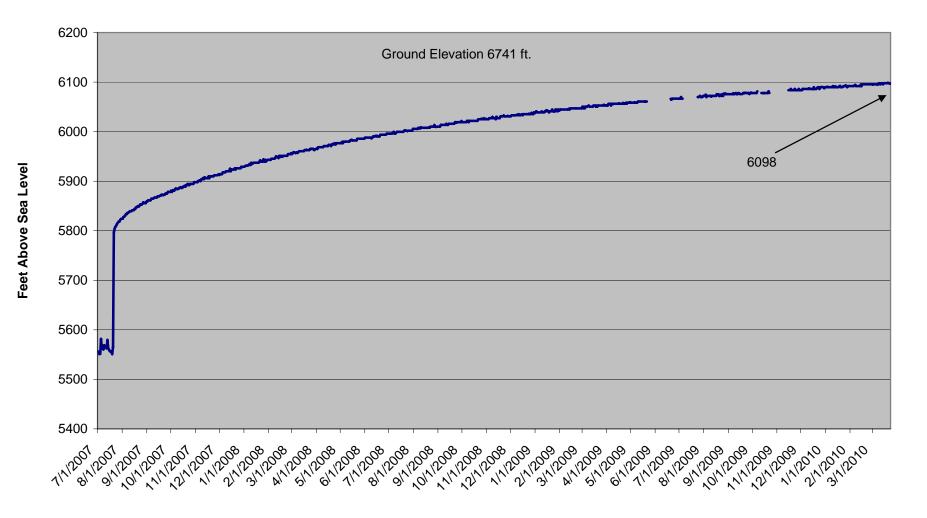
State 36-05 7/13/07 thru 3/16/10 Wells shut down 7/20/07



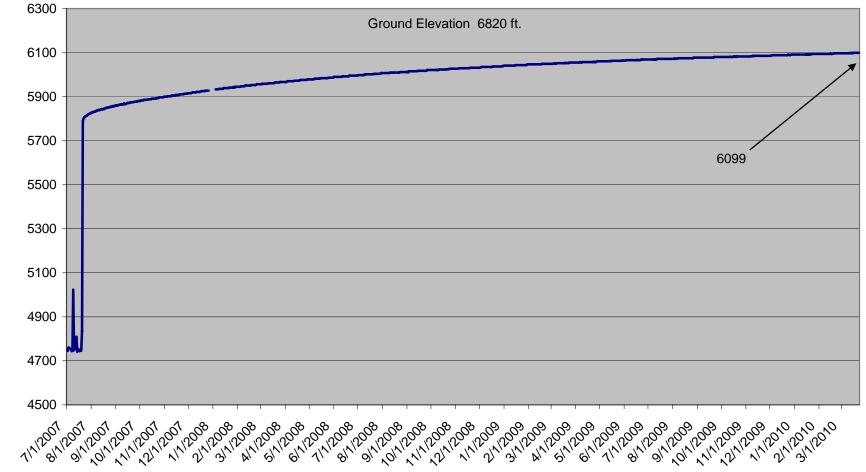
State 36-11 7/13/07 thru 3/16/10 Wells shut down 7/20/07



Rohr 04-14 CBM Well Static Water Level from 7/1/07 to 3/23/10 Well shut-in 7/20/07

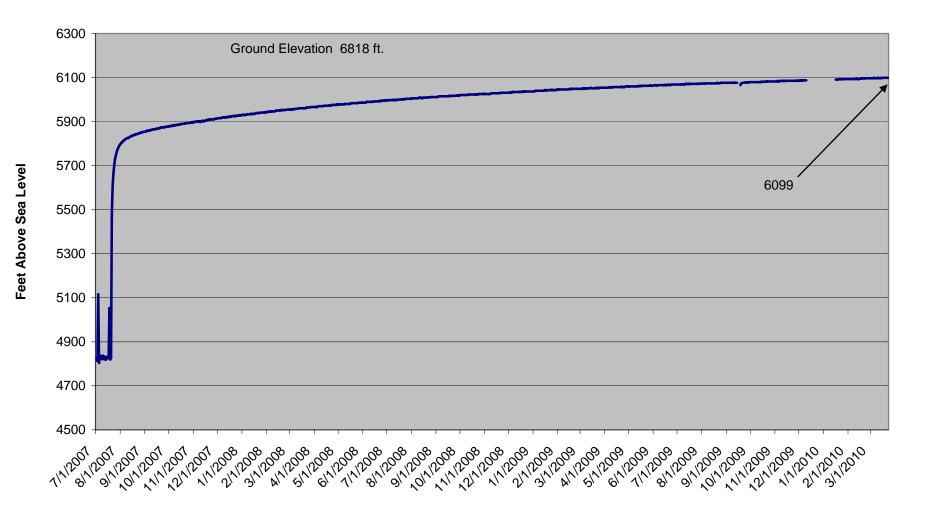


Rohr 08-01 CBM Well Static Water Level from 7/1/07 to 3/23/10 Well shut-in 7/20/07

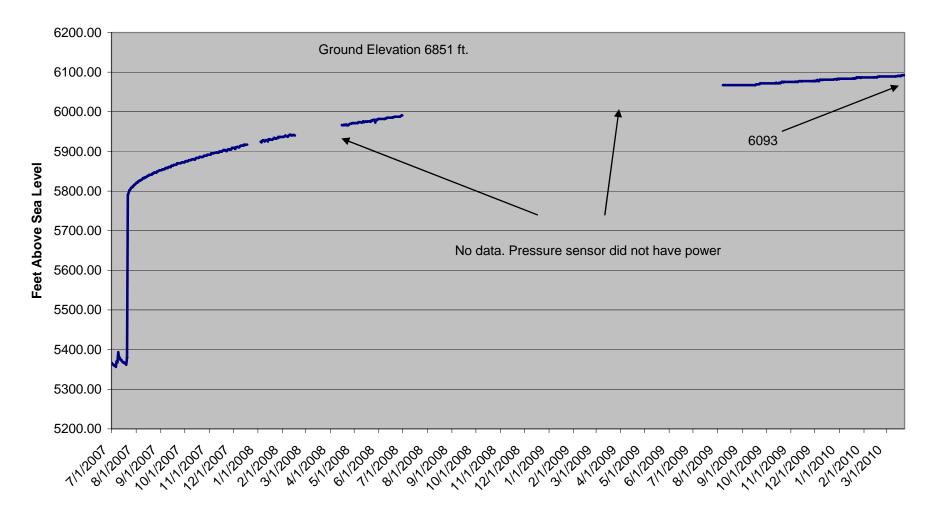


Feet Above Sea Level

Rohr 09-04 CBM Well Static Water Level from 7/1/07 to 3/23/10 Well shut-in 7/20/07

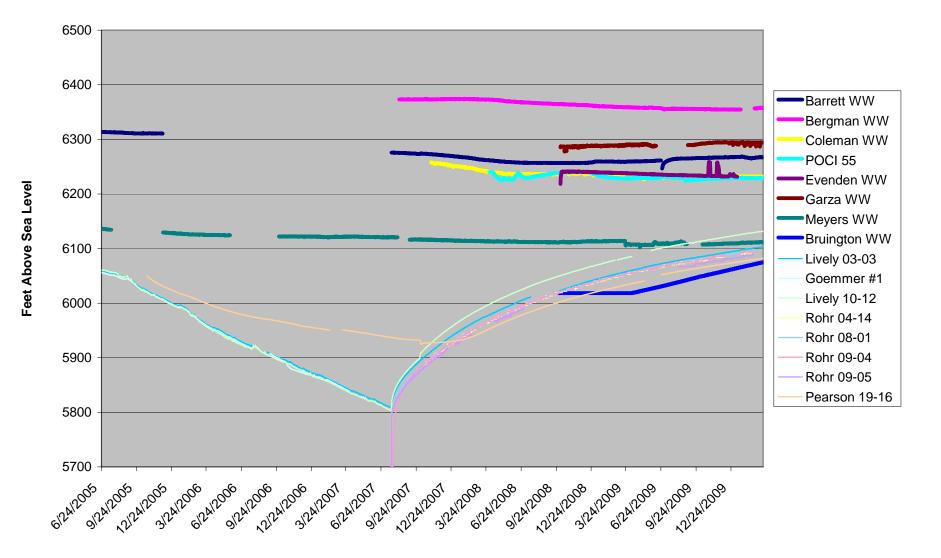


Rohr 09-05 CBM Well Static Water Level from 7/1/07 to 3/23/10 Well shut-in 7/20/07

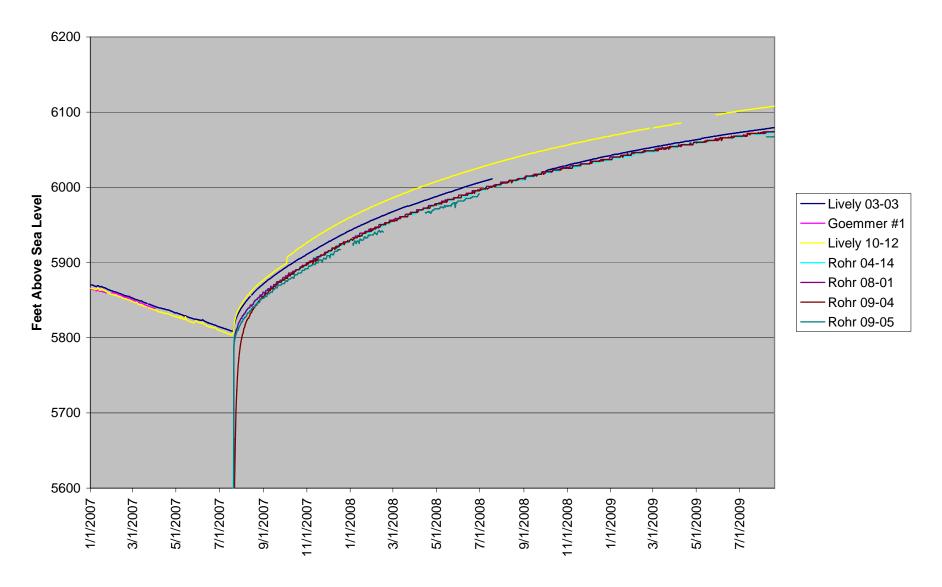


Attachment 4 Comparison of Fluid Levels in Production Wells and Private Wells

CBM and Domestic WW, Water Levels from 6/24/05 to 3/17/10



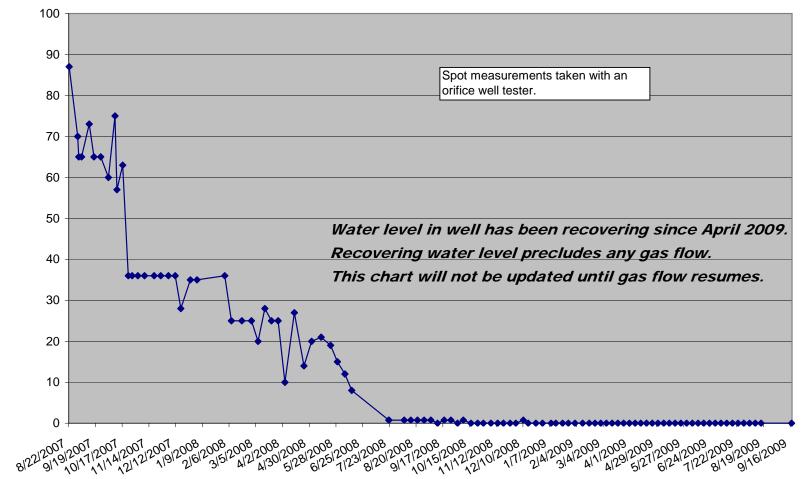
CBM Monitor Wells Water Level



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

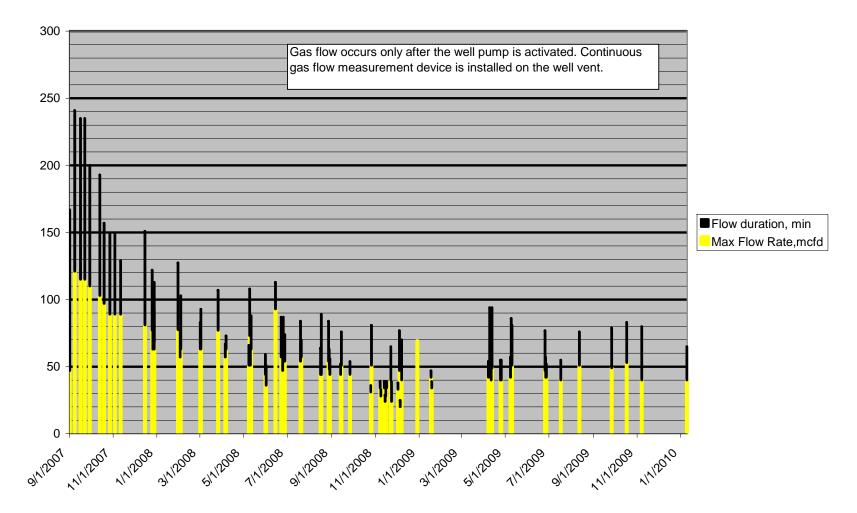
Attachment 5 Gas Flow Measurements at Bruington, Coleman, Angely, Bounds, and Smith

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

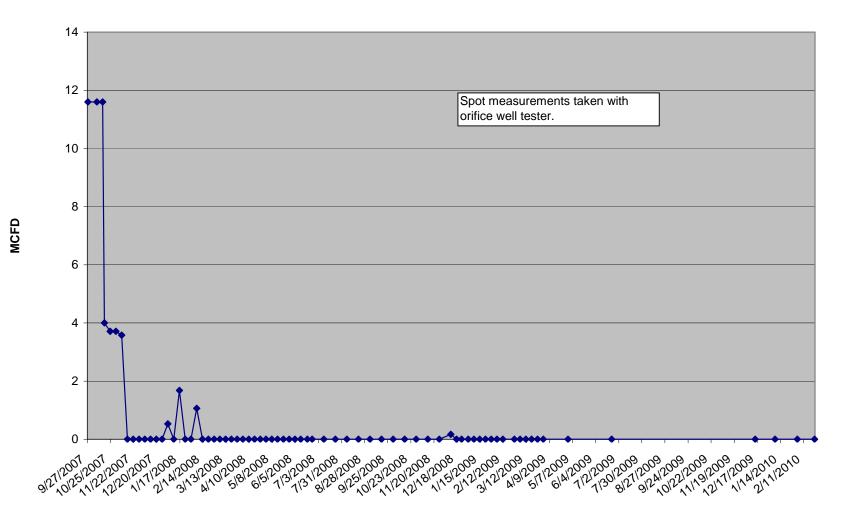


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Coleman WW #267294 Measured Gas Flow from 9/1/07 to 1/9/10

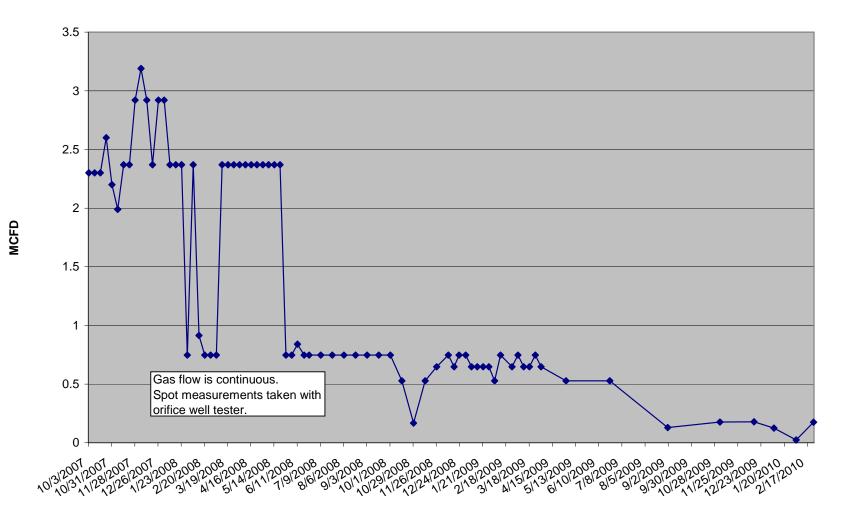


Angely WW # 238689 Measured Gas Flow from 9/27/07 to 2/24/10



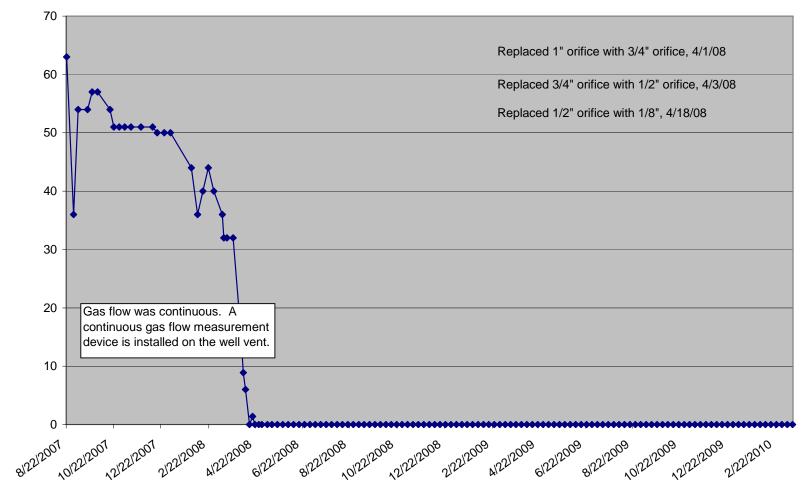
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Bounds WW #181278 Measured Gas Flow from 10/3/07 to 2/24/10



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Smith WW # 239657 Measured Gas Flow from 8/22/07 to 3/16/10



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

