

**Pennsylvania Marcellus Shale Survey**

**Final Frequency Report**

**525 Completed Surveys**

**Fielding Dates: October 6 –November 2011**

**Margin of Error = +/- 5.5% at 95% Level of Confidence**

**AAPOR RR1 – Response Rate = 34%**

**15 Callback Attempts**

**Data Weighted by Age, Race, Educational Attainment, Gender and  
Region**

Q1: Thank you. In which of the following categories does your current age fall? (READ LIST)

1. 18 to 34.....20%
2. 35 to 49.....28%
3. 50 to 64.....27%
4. 65 and older.....25%

Q2: How closely have you been following the debate around the issue of natural gas drilling in the Marcellus Shale in Pennsylvania? Would you say you have been following this issue very closely, somewhat closely, not too closely or not at all?

1. Very Closely.....12%
2. Somewhat Closely.....36%
3. No too Closely.....26%
4. Not at all.....25%
5. Not Sure (Vol).....1%

Q3: In general do you feel that drilling for natural gas in the state has SO FAR provided more benefits or problems for the citizens of Pennsylvania?

1. More benefits.....41%
2. More problems.....33%
3. About equal (Vol).....26%

Q4: In general do you feel that drilling for natural gas in the state WILL provide more benefits or problems in the FUTURE for the citizens of Pennsylvania?

1. More benefits.....50%
2. More problems.....32%
3. About equal (Vo).....17%

Q5: Do you approve or disprove of the way that Pennsylvania Governor Tom Corbett has handled the issue of natural gas drilling in the state?

1. Approve.....21%
2. Disapprove.....39%
3. Not Sure (Vol).....40%

Q6: In the last year there has been considerable debate regarding the possible taxation of natural gas extraction in Pennsylvania. Do you feel that firms extracting natural gas in Pennsylvania should pay a tax on the natural gas that is drilled for in the state or not?

1. Should pay tax.....72%
2. Should not pay taxed (Skip to Q8).....19%
3. Not sure (Skip to Q9)..... 9%

Q7: What is the primary reason why you believe that natural gas drilling in Pennsylvania should be taxed? (OPEN ENDED)

1. Government source of revenue.....33%
2. Businesses are making a profit.....15%
3. Pay for environmental problems in future...12%
4. Everyone/everything else is taxed.....12%
5. State's natural resource.....10%
6. Taxed in other states.....2%
7. No reason.....6%
8. Other.....9%

Q8: What is the primary reason why you believe that natural gas drilling in Pennsylvania should NOT be taxed? (OPEN ENDED)

1. Against taxes politically.....29%
2. Keep energy prices down.....15%
3. Natural resource.....13%
4. Loss of Jobs.....8%
5. Other Not Sure.....36%

Q9: Next I will read you a list of possible areas where money raised from a tax on the extraction of natural gas in Pennsylvania may be directed. For each possible use of money raised from a tax on natural gas that I mention please indicate if that use makes you more likely to support a natural gas tax, less likely to support a natural gas tax or has no effect on your support for a tax on natural gas. First, if the money from a tax on natural gas was used to help repair and protect Pennsylvania's environment would it make you more likely, less likely or have no effect on your support for a natural gas tax.

- 1. More Likely to Support.....66%
- 2. Less Likely to Support.....7%
- 3. No Effect on Support.....22%
- 4. Not Sure (VOL).....4%

Q10: Next, if the money from a tax on natural gas was used to help repair roads and bridges in Pennsylvania would it make you more likely, less likely or have no effect on your support for a natural gas tax.

- 1. More Likely to Support.....70%
- 2. Less Likely to Support.....10%
- 3. No Effect on Support.....19%
- 4. Not Sure (VOL).....1%

Q11: If the money from a tax on natural gas was used to help develop renewable energy sources would it make you more likely, less likely or have no effect on your support for a natural gas tax.

- 1. More Likely to Support.....62%
- 2. Less Likely to Support.....14%
- 3. No Effect on Support.....22%
- 4. Not Sure (VOL).....2%

Q12: If the money from a tax on natural gas was used to help balance the state budget in Pennsylvania would it make you more likely, less likely or have no effect on your support for a natural gas tax.

- 1. More Likely to Support.....45%
- 2. Less Likely to Support.....29%
- 3. No Effect on Support.....23%
- 4. Not Sure (VOL).....2%

Q13: If the money from a tax on natural gas was used to help local governments address problems caused by natural gas drilling would it make you more likely, less likely or have no effect on your support for a natural gas tax.

- 1. More Likely to Support.....59%
- 2. Less Likely to Support.....12%
- 3. No Effect on Support.....24%
- 4. Not Sure (VOL).....5%

Q14: If the money from a tax on natural gas was used to provide a check to every Pennsylvanian would it make you more likely, less likely or have no effect on your support for a natural gas tax.

- 1. More Likely to Support.....38%
- 2. Less Likely to Support.....33%
- 3. No Effect on Support.....28%
- 4. Not Sure (VOL).....3%

Q15: If the money from a tax on natural gas was used to hire more staff in the Pennsylvania Department of Environmental Conservation so that the agency can more closely monitor natural gas drilling would it make you more likely, less likely or have no effect on your support for a natural gas tax.

- 1. More Likely to Support.....49%
- 2. Less Likely to Support.....23%
- 3. No Effect on Support.....23%
- 4. Not Sure (VOL)..... 5%

Q16: Now if the State of Pennsylvania decided to place a tax on the extraction of natural gas in the state, which of the following places would you MOST prefer that the money generated from the tax be directed to. Should the money be used to: (ROTATE OPTIONS)

- 1. Provide a check to every Pennsylvanian .....14%
- 2. Develop renewable energy such as wind and solar power.....15%
- 3. Repair and protect Pennsylvanian’s environment.....14%
- 4. Balance the state budget .....14%
- 5. Help local governments deal with issues caused by natural gas drilling in their area.....12%
- 6. Hire more staff in the Pennsylvania Department of Environmental Conservation so that the agency can more closely monitor natural gas drilling .....14%
- 7. help repair roads and bridges in Pennsylvania ..... 8%
- 8. Not sure (Vol).....9%

Q: 17 One possible use of money generated from a tax on natural gas drilling in Pennsylvania would be to use that money to lower other taxes in the state. Would you strongly support, somewhat support, somewhat oppose, or strongly oppose the creation of a tax on natural gas drilling if the money was used to lower other taxes.

- 1. Strongly support.....40%
- 2. Somewhat support.....32%
- 3. Somewhat oppose.....11%
- 4. Strongly oppose.....10%
- 5. Not sure (Volunteered).....8%

Q18. Now I would like to read you a list of statements regarding natural gas drilling. For each statement that I read please indicate if you strongly agree, somewhat agree, somewhat disagree or strongly disagree with these statements. First, natural gas reserves under Pennsylvania soil are a public resource and should benefit the citizens of the state.

- 1. Strongly Agree.....54%
- 2. Somewhat Agree.....27%
- 3. Somewhat Disagree.....9%
- 4. Strongly Disagree..... 8%
- 5. Not Sure (Vol).....3%

Q19. Natural gas reserves under Pennsylvania soil are a private resource and should benefit private energy developers and land owners.

- 1. Strongly Agree.....13%
- 2. Somewhat Agree.....21%
- 3. Somewhat Disagree.....15%
- 4. Strongly Disagree.....48%
- 5. Not Sure (Vol).....4%

Q20. Tighter regulations on the extraction of natural gas in Pennsylvania will lead drilling firms to leave the state.

- 1. Strongly Agree.....10%
- 2. Somewhat Agree.....20%
- 3. Somewhat Disagree.....24%
- 4. Strongly Disagree.....34%
- 5. Not Sure (Vol).....13%

Q21: Natural gas drilling in Pennsylvania poses a major risk to the state's water resources.

- 1. Strongly Agree.....33%
- 2. Somewhat Agree.....27%
- 3. Somewhat Disagree.....13%
- 4. Strongly Disagree.....15%
- 5. Not Sure (Vol).....12%

Q22: Natural gas drilling companies should not have to disclose the chemicals they inject underground in the drilling process because they contend that those chemicals are a trade secret that belong to them.

- 1. Strongly Agree.....5%
- 2. Somewhat Agree.....7%
- 3. Somewhat Disagree.....10%
- 4. Strongly Disagree.....73%
- 5. Not Sure (Vol).....5%

Q23: Natural gas drilling companies should have to disclose the chemicals they inject underground in the drilling process because of the public's right to know about the health risks posed by these chemicals

- 1. Strongly Agree.....84%
- 2. Somewhat Agree.....7%
- 3. Somewhat Disagree.....3%
- 4. Strongly Disagree.....3%
- 5. Not Sure (Vol).....3%

Q24: A tax on natural gas drillers in Pennsylvania will cause drilling companies to decrease the number of employees that they hire in the state.

- 1. Strongly Agree.....11%
- 2. Somewhat Agree.....22%
- 3. Somewhat Disagree.....23%
- 4. Strongly Disagree.....28%
- 5. Not Sure (Vol).....16%

Q25: Concerns regarding the environmental impacts of natural gas drilling in Pennsylvania are being overstated by the media.

- 1. Strongly Agree.....20%
- 2. Somewhat Agree.....24%
- 3. Somewhat Disagree.....19%
- 4. Strongly Disagree.....22%
- 5. Not Sure (Vol).....15%

Q:26: Concerns regarding the environmental impacts of natural gas drilling in Pennsylvania are being overstated by environmental groups.

- 1. Strongly Agree.....22%
- 2. Somewhat Agree.....26%
- 3. Somewhat Disagree.....16%
- 4. Strongly Disagree.....23%
- 5. Not Sure (Vol).....12%

Q:27: Concerns regarding the environmental impacts of natural gas drilling in Pennsylvania are being overstated by scientists.

- 1. Strongly Agree.....15%
- 2. Somewhat Agree.....19%
- 3. Somewhat Disagree.....17%
- 4. Strongly Disagree.....25%
- 5. Not Sure (Vol).....25%

Q28: Governor Corbett's decisions on taxation of natural gas drilling in Pennsylvania are influenced too much by natural gas companies.

- 1. Strongly Agree.....33%
- 2. Somewhat Agree.....27%
- 3. Somewhat Disagree.....12%
- 4. Strongly Disagree ..... 5%
- 5. Not Sure (Vol).....23%

Q29: Governor Corbett's decisions on regulating natural gas drilling in Pennsylvania are influenced too much by natural gas companies.

- 1. Strongly Agree.....33%
- 2. Somewhat Agree.....27%
- 3. Somewhat Disagree.....10%
- 4. Strongly Disagree.....4%
- 5. Not Sure (Vol).....26%

Q30: Next, I would like to ask you a few questions on the issue of global warming. From what you've read and heard. Is there solid evidence that the average temperature on earth has been getting warmer over the past four decades?

- 1. Yes .....72%
- 2. No (SKIP TO Q32)..... 21%
- 3. Not Sure (SKIP TO Q 33).....6%

Q31: What is the primary factor that has caused you to believe that temperatures on earth are increasing? (OPEN ENDED QUESTION)

- 1. Warmer temps/personal observations.....20%
- 2. Melting glaciers.....19%
- 3. Pollution .....17%
- 4. Scientific research ..... 12%
- 5. Changing weather/ greater storms..... 9%
- 6. Natural patterns.....7%
- 7. Media coverage.....6%
- 8. Not sure/other.....10%

Q32. What is the primary factor that makes you believe that temperatures on earth are not increasing?

- 1. Personal Observations.....35%
- 2. Natural patterns.....31%
- 3. Media has misled..... 8%
- 4. Evidence that disproves.....7%
- 5. Religion.....6%
- 6. Not enough science.....5%
- 7. Not sure other..... 9%

Q33: In general, would you say that the economy in Pennsylvania is getting better or getting worse?

- 1. Getting Better.....20%
- 2. Getting Worse.....57%
- 3. Staying the Same (Volunteered).....19%
- 4. Not Sure (Volunteered).....5%



Q34: Next, I have a few questions regarding your level of concern for a variety of issues. For each issue that I mention, please tell me if you are very concerned, somewhat concerned, not too concerned, or not at all concerned: First, how concerned are you that you will become unemployed in the next year?

- 1. Very Concerned.....13%
- 2. Somewhat Concerned.....13%
- 3. Not Too Concerned.....14%
- 4. Not At All Concerned.....36%
- 5. Not Sure (Volunteered).....1%
- 6. Unemployed/Retired (Volunteered).....24%

Q35: How concerned are you with the safety of drinking water in your community?

- 1. Very Concerned.....27%
- 2. Somewhat Concerned.....25%
- 3. Not Too Concerned.....20%
- 4. Not At All Concerned.....27%
- 5. Not Sure (Volunteered).....1%

Q36: How concerned are you with the air quality in your community?

- 1. Very Concerned.....21%
- 2. Somewhat Concerned.....25%
- 3. Not Too Concerned.....22%
- 4. Not At All Concerned.....33%
- 5. Not Sure (Volunteered).....<1%

Q37: How concerned are you about recent weather changes in your community?

- 1. Very Concerned.....17%
- 2. Somewhat Concerned.....23%
- 3. Not Too Concerned.....25%
- 4. Not At All Concerned.....33%
- 5. Not Sure (Volunteered).....2%

Q38. Finally, I have a few questions about yourself. First, what is your current marital status?

- 1. Single.....17%
- 2. Married.....61%
- 3. Separated.....1%
- 4. Divorced.....9%
- 5. Widowed.....9%
- 6. Partnered.....4%

Q39. What county do you currently reside in? (RECODED INTO CATEGORIES)

- 1. Southwest.....18%
- 2. Southeast.....30%
- 3. Rest of state.....52%

Q40. Which of the following categories best describes your current voting status? Are you registered as a (READ LIST)?

- 1. Democrat .....47%
- 2. Republican.....35%
- 3. Independent.....10%
- 4. Other Party.....2%
- 5. Not registered to vote in Pennsylvania.....7%
- 6. Not Sure (Volunteered).....<1%

Q41. Do you support most of the positions of the Tea Party?

- 1. Yes.....28%
- 2. No.....57%
- 3. Not Sure (Vol).....15%

Q:42. Which of the following best describes your political beliefs? (Read List)

- 1. Very Conservative.....13%
- 2. Somewhat Conservative.....29%
- 3. Moderate.....37%
- 4. Somewhat Liberal.....14%
- 5. Very Liberal.....4%
- 6. Not Sure (VOLUNTEERED).....3%

Q43. What is your highest level of education? Is it (READ LIST)?

1. Less than High School.....5%
2. High School graduate.....30%
3. Some college or technical school .....31%
4. College graduate (4 yr only).....19%
5. Graduate or professional degree..... 12%
6. Not sure (Volunteered).....3%

Q44. Which of the following categories best describes your racial identity? (READ LIST)

1. White/Caucasian.....78%
2. African-American.....10%
3. Hispanic/Latino..... 6%
4. Asian..... 2%
5. Native American.....<1%
6. Mixed race..... 4%

Q45. Which of the following categories best describes your religious affiliation? Are you (READ LIST)?

1. Catholic.....29%
2. Protestant.....38%
3. Jewish.....2%
4. Muslim.....1%
5. Hindu.....<1%
6. Other Religion (Including agnostic).....25%
7. or Atheist .....3%
8. Not Sure (Volunteered)..... 2%

Q46. Which of the following categories best describes your family income? (READ LIST)

1. Under \$20,000.....17%
2. \$20,000-\$40,000.....18%
3. \$40,000-\$60,000.....17%
4. \$60,000-\$80,000.....21%
5. \$80,000-\$100,000.....10%
6. Over \$100,000.....15%
7. Not sure (Volunteered).....2%

Q47. Thank you for your help with the survey. We appreciate your time. (DO NOT ASK!)

1. Male.....49%
2. Female.....51%