

## Email Correspondence Received as of May 24, 2013

Mr. Jurcak, Mr. Stokes and Mr. Quinn –

Last night I went to the Planning and Zoning meeting to listen to and speak about the proposed 11 additional wells that are being considered by the City/County of Broomfield to be allowed to be drilled East of Sheridan and North of 160<sup>th</sup>.

I live in Anthem Highlands, just West of this parcel.

I was disappointed in the 7-0 unanimous vote by the board to pass this on to Council.

I do not want this to occur near our neighborhood. We are a Residential neighborhood and the current Northern Gateway to Broomfield. There is a Charter School that is growing and is just west of this proposed area. The presenters told the board that we could expect 24 x 7 drilling with lights at night for 6 months to complete all of the drilling. They told the board that we could expect 100-200 truck trips Every Day during the drilling period. How many of us have kids who attend Rocky Top Middle School that go down this road every school day?

This parcel is purportedly part of a future plan for development for Broomfield. What damage can we expect to this land from allowing this practice to occur here? The Presenters ( Sovereign Gas) made several references to meeting the guidelines for Clean Air and Water as they are required to by the Federal Government. This is a class half-truth as the Natural Gas industry was exempted from the Safe Drinking Water Act in 2005. They are also exempted from disclosing the chemicals they use in their process. Scientists have identified Benzene, Toluene, ethylbenzene and xylene at other Fracking sites.

There were several people from our neighborhood there last night and I would expect many more than that at the Council Meeting when this comes up.

Please do not approve this development. Broomfield deserves better.

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I am writing to tell you that I oppose the Fracking that is being proposed near the Anthem community in Broomfield on 160th and Sheridan Parkway. I am an Anthem Resident and I also have two children attending Prospect Ridge Academy which is very close to the proposed site. Allowing this will bring down the property values in our community, at the same time causing families like mine to feel forced to move because of the health risks. We bought a house in this beautiful Broomfield neighborhood to raise our family. Our two children go to school in the neighborhood, have friends in the neighborhood, and are involved in competitive sports in the city of Broomfield. It breaks my heart to think of having to sell our beautiful home and move away from a community we love, all because the state and city allowed big industry to drill in our backyard and ruin the environment which we cherish. Fracking needs to stop all together in Broomfield. This will ruin the city! Any financial gains the city reaps today from the oil company by allowing this to happen will only be spent later on clean up and health problems of citizens. There is a 66% failure rate on these wells. Human error, faulty parts, failing cement, all happen and cause leaks and pollution. I urge you to listen to the people on this. We will not sit by and just let this occur. Thank you for your time.

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I am a Broomfield resident who is very concerned about the threat posed to my health, safety and property values by oil & gas development within our city limits and particularly so close to a growing school. I am writing to ask you to please create a red zone map so that we, the citizens, have an understanding of where fracking can occur within our city limits. I am also writing to ask that you place a City Charter Amendment that asserts the rights of our community to say "No" to this toxic industrial activity on this November's ballot so that the citizens of Broomfield can vote on this important issue. Thank you for your time and consideration.

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Please take a look at what is going on around our state. Broomfield is next. We do not want this in our community and we are organizing against it. We have had over 100 likes, mostly local, on our Facebook page "Don't Frack Broomfield" in 24 hours. Turns out, people don't like being fracked.

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Mayor Quinn,

I am a Broomfield resident who is very concerned about the threat posed to my health, safety and property values by oil & gas development within our city limits. I am calling to ask that you implement an immediate emergency moratorium to new drilling permits in Broomfield until an independent community impact study can be conducted, and the health effects and safety of the process on our community can be verified. Thank you.

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**Subject: Re: Fwd: Proposed Oil Drilling (Fracking) East of Sheridan and North of 160th Avenue**

Dear Mr. Quinn, discussing the matter after the city council meeting is pointless. It will be too late by that time. You need to listen to the people now, before you and the city council make a decision to let big oil drill in our neighborhood based either on your lack of research on the matter, or your unwillingness to stand up to the state and defend your town. You don't think the general public knows that state officials are paid big bucks by the oil companies? We know. We also know they have called residents in our neighborhood offering households \$2000. Blood money is what it is. I hope you and the city council do your research on the effects of fracking on living beings, and make the choice that many other towns are making.....protect your town and it's residents.

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In early 2011, the New York Times ran a 3 part investigative series on their multi-month investigation of radiation in wastewater. They reviewed thousands of internal documents from the Environmental Protection Agency (EPA) that revealed that fracking wastewater contains radioactivity and other toxic materials at levels that are frequently geometrically higher than the level that federal regulators say is safe for wastewater treatment plants to handle. EPA and industry researchers say that the biggest danger of radioactive wastewater is its potential to contaminate drinking water and enter the food chain through

fish or farming. Many federal studies show that once radium enters a person's body, by eating, drinking or breathing, it can cause cancer, asthma and a plethora of other health problems.

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Dear Broomfield City Council –

I am writing to please consider to ban ALL fracking in Broomfield. I do not want any FRACKING in Broomfield because of high risk of chemical exposure and it will have impact on my children's health as well as myself. It is too close to my home, schools, park, lakes, and community.

Below is a fact that was provided by the Colorado Study.

"People living within a half-mile of oil- and gas-well fracking operations were exposed to air pollutants five times above a federal hazard standard, according to a new Colorado study."

See below - Univ. of Denver Hickenlooper/Boulder County Commissioner debate video  
[http://www.denverpost.com/breakingnews/ci\\_22914312/boulder-commissioner-debating-governor-fracking?source=rss](http://www.denverpost.com/breakingnews/ci_22914312/boulder-commissioner-debating-governor-fracking?source=rss)

You as the council member have the power to ban Fracking.

Thank you!

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Dear Broomfield City Council,

I'm a resident of Longmont, and participated extensively in the petitioning and campaigning for our successful city wide ban on fracking. Governor Hickenlooper is quickly losing a large chunk and perhaps the majority of his voting base because he isn't supporting voters' wishes. Times are changing. Citizens of this state and states across the nation are realizing the dangers of the oil drilling industry. This isn't just about fracking, this is about drilling, drilling in and near our cities and our residential communities in the outskirts of these towns. These highly industrial practices have no business so close to residential and urban areas. Your townspeople have and deserve the right to a vote. They have the right to choose and control the kind of industry in and surrounding their city. They also deserve the right to thorough environmental impact studies. Times are changing. There is no room for fear and hesitation. Collectively, as Coloradans, we need new ideas, new solutions for energy, and we need to put our health

and our beautiful, wonderful state FIRST. The oil industry is attempting to go out with a big bang. They want to leach as much of our resources as they can, as fast as they can, so they can make as much money as they can, without any consideration of the consequences. That industry is NOT going to sustain forever. It can't, it's impossible. The resources are finite, and the damage being done to obtain them is permanent. Money isn't worth the sacrifice and deep down I believe that each and every one of you knows this. Whether you choose to live in denial, to only think of your own immediate and selfish rewards is up to you, but the vote should be up to your citizens.

I thank you for your time and consideration, and I hope that you will all find it within yourselves to do what is right and honorable.

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Dear City Councilwoman Derda,

My family just moved to Broomfield a few months ago. I was recently informed that oil companies are set to start drilling/fracking a few blocks away from my home! I have started doing a lot of research and am very upset by what I am finding. I urge you to please issue an emergency moratorium until independent studies can be done to ensure the health and safety of our community. We would not have moved here if we had known about this!

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Dear City Council Members,

You have a responsibility to protect the people of Broomfield, the people of Colorado, and the people of the United States. If you don't have the meddle to do this, then step down from your office, plain and simple.

The people of the United States are being challenged in ways that they haven't been for decades. Get ready for tougher times ahead as our forefathers did who died for freedom and for a way of life that did not include conceding to corporations and corrupt government.

Join forces with the other cities across our nation and place an all out ban on fracking. They cannot take everyone down if we join forces and are willing to fight for our freedom and fight for our lands.

Colorado is a home rule state. Stand behind it and stand your ground!  
The people are behind you. Do this in the for every American who has sacrificed for our freedom.

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Additional Comments: Is it true that Broomfield is considering fracking within it's boundaries? If so, please be aware that this concerned citizen thinks that that is an extremely unhealthy idea.

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I am a Broomfield resident in Anthem Highlands who is very concerned about the threat posed to my health, safety, and property values by oil and gas development within our city limits, specifically near our neighborhood and the Prospect Ridge Academy.

I am writing to ask that you implement an immediate emergency moratorium to new drilling permits in Broomfield until an independent community impact study can be conducted, and the long-term health effects and safety of the process on our community can be verified.

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As you continue to do your research and gain facts here are a couple of links to websites that might be helpful:

1. [http://www.denverpost.com/breakingnews/ci\\_22914312/boulder-commissioner-debating-governor-fracking?source=rss](http://www.denverpost.com/breakingnews/ci_22914312/boulder-commissioner-debating-governor-fracking?source=rss) (several related links/articles available within)

2. <http://ecowatch.com/2013/industry-insider-to-fracking-opponent/>

3. And a picture of the proposed fracking sites that would impact Broomfield and neighboring communities, centered just north of NW Parkway and east of Sheridan, south of Hwy 7 and west of I-25.

4. Finally, a Facebook page "Don't Frack Broomfield" has surfaced that is gaining in popularity every day. You might want to check it out as well.

Please keep me informed on your findings and position on this with the City Council.

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I want a time out on Fracking in Broomfield.  
Do not approve any more permits.

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Dear Council Members of Broomfield-

As a registered Republican, I am drafting this note to request a moratorium on drilling in Broomfield with the preferred course of action to be no further fracking in city/county limits than what is in place today. The environmental impact on fracking has been well documented by various studies and reports. These activities have no place in such proximity to neighborhoods and schools due to the various chemicals involved and human exposure. The science is out there and should not be ignored.

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My family wants a time-out on fracking in Broomfield. Please do not approve any more permits.

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Dear Mayor Quinn,

In your philosophy statement about local government you said, "Leadership begins with listening." Please read our heartfelt concerns before this becomes not only our problem but the whole Anthem community.

My family just moved to Anthem Highlands two weeks ago and just became aware of the proposal for fracking across from Prospect Ridge Academy. (Only the nearby abandoned wells were disclosed) Needless to say, we are feeling like we made the wrong choice. We moved to Broomfield based on its reputation of being a great place to raise our family. Broomfield has stable property values and people keep moving here to partake in the outdoor lifestyle and other Broomfield amenities. Anthem is a wonderful, family friendly neighborhood and we believe it's the perfect place for us.

Our first priority is our kids, a three year old and one year old, and we want to keep them healthy and safe. We live too close for comfort from the proposed fracking site and we want to protect not only our own children, but the children that attend Prospect Ridge Academy. We've read numerous articles and reports documenting detrimental effects to the environment including both the air and water supply from fracking.

With all the controversy surrounding fracking, why take a chance? Once fracking begins and all that toxic sludge is pumped into the ground, you can't take it back.

Please do not trust the safety of our community to a corporation whose only interest is profits. Don't allow the opportunity for 84,000 gallons of contaminated waste to rain down on a school and a community, like the spill that happened 4 miles north of Windsor on February 14, 2013. Please don't put all those children and families in danger.

Beyond the toxic chemicals, the community will be further impacted by the 24-hour drilling operations which include a tremendous increase in truck and construction traffic. In addition to all the trucks, for construction and gas removal, Sovereign plans to truck all their water and waste. A single fracking well will use millions of gallons of water. The adjoining roadway system is not built to withstand that volume or type of traffic. Many people use the surrounding roads for recreation, running, walking, and biking. Just one more reason why a fracking operation here is a bad idea.

Please protect our community and Broomfield property values. Please do the right thing and put a moratorium in place just like Longmont, Ft. Collins, Colorado Springs, Erie, and Boulder County have done.

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Dear Broomfield City Council Members,

I sent you all an email regarding the proposed fracking site near Prospect Ridge but received no responses. I just moved to Anthem and now wish we would have considered another nearby town. The idea of fracking happening so close to a school and homes is very scary! I have two young children and my job is to protect them. Please do the right thing and issue a moratorium, just like many nearby cities have done. Show you care about the health of the citizens of our community, the environment, and our property values. Please take a stand for what is right. Longmont, Boulder County, Colorado Springs, and Ft. Collins have all done this and you can too! If more people knew about this, you would hear even more concerns. The word needs to get out about what is happening in a family friendly city (or so we thought) like Broomfield. We feel deceived and do not want this to happen in our backyard.

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Dear Broomfield City Council,  
I want a time out on fracking in Broomfield. Do not approve any more permits.

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Please do not issue more permits –  
We want a time out from fracking in Broomfield!!

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Dear city council, as a resident of Broomfield I would like you to put a time out on fracking in our town. No more permits. There are too many unanswered questions on health and environmental effects. Thank you.

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Dear Mayor Quinn and Broomfield City Council Members:

I want a time out on fracking in Broomfield until we can understand the health and safety issues surrounding this heavy industrial practice so close to our neighborhoods and schools. Please do not approve any more permits and keep the health and safety of our residents as your number one concern.

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Colorado is a strong “home rule” state. That is, cities and towns with home rule charters have powers superior to the state in matters of local jurisdiction. This straightforward declaration is found in Article 20, Section 6 of the Colorado Constitution. It says in part: “The people of each city or town ... shall always have the power to make, amend, add to or replace” their “charter” ... This ... “shall be its organic law and extend to all its local and municipal matters.” “Such charter ... shall supersede within the territorial limits ... of said city or town any law of the state in conflict therewith.”

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Please do not allow fracking in Broomfield. I am saddened and appalled that it shows that within 1000 feet of our home there is a proposed/existing fracking site. I thought Broomfield cared about families and was working toward being a more green city.

Please do not allow more permits in Broomfield.

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Dear City Council member,

Please place a moratorium on fracking. Timeout on fracking in Broomfield, no more permits!

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Dear Council,

I request that you please consider a timeout on fracking in Broomfield. PLEASE, no more permits!  
Thank you for your hard work,

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To Whom it May Concern:

Please take a pause on fracking in our town. This is a very important issue for our family and we appreciate you taking the time to hear our concern.

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I want a timeout on fracking in Broomfield, no more permits please!

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City Council Members,

I am a Broomfield resident and have been for the past 13 years. I love this small town and care about its future. I have read up on fracking and understand it is a viable energy resource, however, I also see how dangerous it can be. I live here because it is a safe, conscientious community and fracking is not a good fit at this time. Until the dangers have been adequately addressed and a firm guarantee can be made that no houses will accidentally explode and our water table will not be contaminated, until then, I respectfully request that no more fracking permits be issued in the city and county of Broomfield. I would like to reiterate that my research clearly shows that at this time, the risks outweigh the value of fracking and it should be discontinued until this practice is better perfected and safer. It is simply not a good fit for Broomfield!

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Please put in place an immediate moratorium on fracking near schools and homes. This seems a little insane with all the blow back from other cities in the immediate area. Several states have instituted moratoriums until this practice has been studied further and deemed safe. I live in Broomfield and have become very concerned about the health and safety of my family and neighbors.

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To whom it may concern,  
Please consider a moratorium on fracking in Broomfield because of the negative environmental issues.

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Mayor, City Manager, and Council Members:

Since I'm unable to attend the meeting tonight, I'm emailing my plea to you to stop fracking, at least refuse new permits until more is known about the environmental effects of fracking.

Did you know that unusual earthquakes are being reported in many states, believed to be the result of the pressure from pumping millions of gallons of the waste water that fracking produces into deep underground wells? And at a time when our county is planning to build a water reservoir in anticipation of future water shortages, think about how much water is being used for fracking.

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Dear Council,

As a local resident, as a parent, and as a responsible citizen, I oppose very strongly to even a possibility of fracking right here in Broomfield.

It would not only be extremely dangerous for our environment and have far-reaching health-damaging consequences for our city's population, but it will also drive the prices of properties down immediately and cause a mass exit of concerned parents such as myself.

Please do not allow that to happen.

Thank you,

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To Whom It May Concern,

I am a concerned citizen of Broomfield, and a mother of 3 children that attend Prospect Ridge Academy. I would like a timeout on Fracking in Broomfield please!

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Subject: My children are terrified of fracking in Broomfield - please don't make us move

We are ~1000 feet from the proposed fracking wells near Anthem. Our children's school (PRA) is within 900 feet of the proposed wells. My children will spend over 90% of their day within 1000 feet of these wells and we are all very upset.

Our neighbors in Erie have shared the substantial impact on their lives due to Fracking, none of it is positive. The bans on Fracking in Longmont and Fort Collins as well as other States confirm our fears that the experiences in Erie are not unique, nor are they trivial.

We moved to Broomfield because it's a fantastic community to raise a family. If this fracking moves forward that will no longer be true for us and we will be forced to move.

With all of this I am left very confused how our City Council can approve the building of a School & Homes in a location that they would later consider approving fracking. I realize the companies who have purchased the mineral rights have their right to make use of that land but Fracking is clearly not sufficiently safe at this point to be done in such close proximity to families and children. I would expect Broomfield to hold companies to a higher standard and hold on any approvals until safer practices are put in place. I would also expect Broomfield to insist on more distance between this activity and schools / residences.

I want a timeout on fracking in Broomfield, please do not approve more permits for this activity.

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Please stop the permits for cracking in our city.  
Thank you

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Everyone's Bill of Rights

"I have a right to be treated with respect, to have and express my own feelings and opinions, to ask for what I need and want in order to be effective, and set reasonable limits. I have the responsibility to treat others with respect, to listen to the opinion of others, to acknowledge and address the needs of others, and to respect the limits and boundaries of others."

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To: City and County of Broomfield, Colorado

Hydraulically fracturing gas wells injects known carcinogens into the ground and uses millions of gallons of our most precious resource, water. Aside from the potential of ground water contamination, recent studies have shown that air quality around these wells is extremely poor - 5 times the federal limit and puts us at a 66% increased risk of cancer. These wells should not be placed near our schools and homes for the safety and health of our citizens.

Please enact an immediate moratorium on fracking in Broomfield!!

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Subject: I want a timeout on fracking in Broomfield, no more permits!

Please consider placing a moratorium on fracking in Broomfield. Additional study needs to be done to determine the health effects and safety of this process.

I moved to Broomfield several years ago because it offered a great sense of community and a safe place to raise my children. I am not interested in living in a community that does not listen to it's citizens.

Place a timeout on fracking in Broomfield and please do not issue any further permits.

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I'm asking for a moratorium on tracking and to stop allowing permits!

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Please stop the fracking. I believe that the fracking will lower our property values and make Broomfield in general a less desirable area to live in. I am concerned about the potential health risks and any pollution.

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Please do not allow fracking in our beautiful Broomfield neighborhood. Please show you care about the people in our community and the environment. Our health could be at stake and the long term affects on our air and water could be devastating! Other cities have issued moratoriums and we hope you will do the same! Broomfield is a wonderful community, which is why we moved here. Please keep it that way!

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Dear City Council Members,

We are moms. One professional, one stay at home. We are not oil and gas experts, nor are we anti-fracking activists. We are just moms who have become aware of the fact that there will be a fracking well, actually 11 fracking wells drilled near our neighborhood and our children's school. Because we are new to this topic, there was a bit of a learning curve. And because we are dealing with an emerging industry that is hugely profitable and largely unregulated, it was a bit difficult to get unbiased data. To read the anti-fracking sites, one is sent into a complete panic. My child will die if I let them drill near their school!! But if you hear from the oil and gas industry, they tell us that there is virtually no risk at all. So we are left to wonder. And so we read. And read. And read. And at the end of the day, it has become evident to us that there is, in fact, a risk. Our chances of getting cancer are significantly higher living in close proximity to these wells. Our exposure to air pollution and other contaminants puts us at risk for numerous health problems. And that is assuming all goes well with the fracking project. After all, according to the government's website, more than 43% of all well sites have some type of reportable spill. In fact, it appears that there is a reportable "accident" 7 times every 5 days in Colorado alone. Several cities (including some in Colorado) and even some states have put a moratorium on fracking until further research can determine if fracking can be done safely and without creating a hazardous environment. Those cities and states are smart. They are willing to forgo immediate economic benefit to make sure

they are not putting their residents at risk. We need more studies. We need to know definitively if this type of gas extraction will put our children in harms way. Will we look back in 20 years in horror because we sacrificed our innocent children when we didn't fully understand the risks? I think it would be foolish. You are our city leaders, and you should demand to know. We need a plan for Broomfield that ensures economic vitality but not at the risk of our children and families. Please consider a moratorium on fracking immediately. Be smart!

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Subject: Moratorium on fracking in Broomfield

Hello-

I would like to express my concern regarding the issue of hydraulic fracturing in Broomfield. I believe we need a moratorium on the upcoming drilling scheduled for the area North of the Anthem subdivision to generate a more concise conversation from both sides of this issue.

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Dear Council Members,

I strongly urge additional research and study taken on the plans to allow additional permits for fracking activity to be done in the City of Broomfield. As a resident of the nearby Anthem community, these plans have potential drastic impacts on the health of the residents as well as negatively impacting the economic value of millions of dollars invested. If the desire is for the City of Broomfield to be continue its track record of being a "Excellent" place to live and place to raise children, then the City will place a moratorium on expanding fracking activity in the area.

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Subject: Don't Frack Broomfield

Because of the numerous health issues, quality of life, and destruction of property, please don't allow fracking here. Thanks for all your efforts!

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Subject: Emergency Moratorium

Dear Broomfield City Council,

I urge you to set in place an emergency moratorium on all fracking in Broomfield county. Please do not issue any more permits until we can GUARANTEE we are not risking our children's health!! Would you honestly feel safe knowing your children/nieces/nephews/grandchildren were being raised/going to school within close proximity to one of these wells? Can you GUARANTEE Broomfield citizens that their lives, air, and water will be safe during and after the fracking?

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Subject: No more fracking permits

I would like the city council to declare a moratorium on fracking. I know the pat answer the council seems to be giving is, "these permits are handled by the state and there's nothing we can do." Well, that's not good enough. My understanding is that Colorado is a strong "home rule" state. That is, cities and towns with home rule charters have powers superior to the state in matters of local jurisdiction. This straightforward declaration is found in Article 20, Section 6 of the Colorado Constitution. It says in part: "The people of each city or town ... shall always have the power to make, amend, add to or replace" their "charter" ... This ... "shall be its organic law and extend to all its local and municipal matters." "Such charter ... shall supersede within the territorial limits ... of said city or town any law of the state in conflict therewith."

If our city council and our mayor are not strong enough to fight for what the constituents want and don't want in their communities then it's time for us to vote them out and vote someone else in. If you don't stand up for us, we won't be standing up for you.

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I would really like to see fracking set further back from schools and ask for no more permits to be allowed.

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Dear Council Officials,

As a member of the Broomfield community I urge you to consider a ban on fracking in our community. Other city and municipalities such as Longmont and Ft Collins have taken the approach that there is still too much uncertainty around the practice and the impacts to our health, community and natural resources. While the governor feels that the mineral rights should be able to be extracted, that right doesn't allow the mineral rights own to pass the health and other burdens onto those of us that live on or near property where fracking is being proposed.

There are a number of 'experts' who believe this is both safe and yet possess a risk. Many of the experts in favor are within the gas industry who are capitalizing on the efforts. A number of states (Michigan, California, Pennsylvania, New York, etc.) who have banned or are working to ban this process share similar qualities to CO and should be used as models for a practice that can impact the environment.

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Subject: Moratorium on Fracking, Please

I encourage you to stop permitting fracking in Broomfield County. Preliminary information from the EPA has shown that fracking has contaminated water supplies elsewhere (Wyoming) and we can't afford to do the same thing here in Colorado. We have little enough water as it is. Anecdotal evidence indicates that it may also affect the stability of land; it could cause mild earthquakes. Enough problems exist that the practice warrants additional study before permits get issued.

I am a former Broomfield resident and current Adams County resident. What you do in Broomfield affects us all in this area. Please place a moratorium on all fracking in Broomfield fracking. Thank you.

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Subject: FW: Don't Frack Broomfield

Because of the numerous health issues, quality of life, and destruction of property, please don't allow fracking here. Thanks for all your efforts!

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Hello Council Members,

I've been a resident of Broomfield for the last 6 years and also sit on the board of my local Homeowners situation. We moved to this area given the great schools and are happy to say that our daughter will be attending Prospect Ridge Academy for kindergarten in the upcoming school year. We've also recently learned there is a proposed fracking site within near proximity to the school and I'm asking you to consider a moratorium on any new fracking permits until we have better opportunity to study the near and long term impact to our environment. I feel there are enough documented cases of frackwater contamination to warrant a thorough investigation as to how this will impact our community. Obviously there are great financial benefits that come with support for this industry. I simply ask that we not be blinded by the dollar signs alone and make good, clear and rational decisions regarding these opportunities. Thank you.

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Subject: Moratorium on Fracking in Broomfield

Attn: City Council Members:

I would like to graciously request a moratorium on permits granted for allowing fracking in Broomfield. Based on information that I have read, there is a compelling reason to halt fracking (especially within 0.5 miles of neighborhoods and schools) until more information is known regarding the risks. With so much open space in Broomfield, can we not find alternatives that don't pose an immediate (or long-term) health risk to residents? My feeling is that it is better to err on the side of the safety of our residents rather than proceed and 'see what happens'.

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Subject: Don't Frack Broomfield

For the past two weeks I have been on a crash course seeking to understand the health, safety and environmental impacts of fracking. I have been slugging through the Colorado Oil and Gas Conservation Commission (COGCC) website, EPA reports, scientific studies on fracking, newspaper articles, environmental advocacy group data, etc. etc. The key take-away I am coming up with is that there is a tremendous amount of disagreements and controversy. Federal government agencies say there is not enough data collected and analyzed to make an informed decision. New rules are being considered but are not in place. An important EPA study is due out in 2014.

At the same time COGCC is reporting at least one spill or release by the oil and gas industry each day in Colorado. Yet permits continue to be issued for more fracking and drilling.

Several cities -- for example Fort Collins, Longmont, and Colorado Springs have stood up and said "no" to fracking. Similar bans and moratoriums have been established in communities throughout the United States.

I urge our elected officials in Broomfield to do the same. It is common sense that if there is so much debate and conflicting facts about something as vital as the health and safety of our citizens and the protection of our property, then prudent and careful consideration must be given to evaluate the data and make a truly informed and wise decision.

Please do the right thing. Establish a moratorium on fracking in Broomfield to allow adequate time for thorough thought and reasoned discussion. This is just too important of an issue to act on without judicious and sensible consideration.

It's our community, health, our safety, our Broomfield!

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Subject: No fracking!

Please don't give permits for fracking until it is fully investigated and info is distributed to all residents. Broomfield is a wonderful and safe place to live. Please, please don't take that away!

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As a homeowner in the Anthem Highlands neighborhood I would ask the City Council of Broomfield to put in place a moratorium on any new drilling or fracking activities in the City and County of Broomfield.

I am by no means an expert in Fracking or in Oil and Gas extraction technologies, to be honest I haven't paid anything but surficial interest in fracking until I was informed of the work proposed near my home - then I looked into the process - I wasn't comforted by what I found. As with any controversial issue that is debated you don't find clarity at the extreme ends of the issue. But by poking around in the middle, where the discourse is civil and the rhetoric kept to a minimum you can find a lot of very interesting information - both in support of and against the fracking process. After looking into this for only a month I am left with more questions than answers and more concerns then reassurances.

When faced with a situation where the effects of a decision are unclear I think the worst thing you can do is 'move forward and hope for the best'. We need to take the time and do the work – make sure there are no impacts to our health, make sure our water resources are safe and make sure that air we breathe is clean.

There are a number of new studies (public, private, government and industry funded) being undertaken and many reports of the impact of fracking due out in the coming months. I think it only prudent to wait and see what has been discovered and how it will impact our neighborhoods before we decide on allowing these practices to expand, or continue, in our city.

Thank you for your consideration,

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Subject: No Fracking in Broomfield

Dear Council Members,

My name is \_\_\_\_\_ and I am a new resident of the Anthem Highlands subdivision in Broomfield. My family and the moving truck arrives on Friday and we were looking forward to a healthy, happy life in Anthem...until we found out about the proposed fracking sites within 0.5 miles of our home.

In researching the many great communities in the Denver/Boulder area we chose Anthem because of its great family neighborhoods and were also attracted to the proposed mixed use development North Park. Being dubbed as the "Denver Tech Center North" by the developer, we felt this area would have a positive long term effect on our property values in Anthem. Condos, retail, office parks, research centers and more all seemed like a great master plan for North Park. Nowhere could we find any information about proposed fracking wells right in our backyard! If this information had been public we certainly would have not chosen Anthem as our new home!

While researching similar developments in Erie it quickly became apparent that the housing market is struggling there due to the abundance of fracking wells alongside \$400,000 homes. The fracking wells are everywhere, and people relocating to the area are avoiding Erie like the plague, just ask any realtor in the area.

While the health and environmental impacts of fracking may still up for debate, the negative impact on property values is monumental. The Oil/Gas companies are losing the PR battle and homeowners and Cities are feeling the pain with lower tax assessments and dropping property values.

I can't imagine the city of Broomfield would want to take the risk of allowing fracking wells adjacent to one of its crown jewel developments. With too many unknowns about fracking combined with the negative financial impacts we've seen in other communities, Broomfield needs to take a stand and say NO TO FRACKING!

---

Dear Broomfield City Council,

I want a time-out on fracking. Too many health problems, too many spills and mishaps, air and water pollution. Oil and Gas industry is exempt from Clean Water and Clean Air act. Uses millions of gallons of potable water per frack and we're in a drought. Hello! Doesn't that sound dangerous to you as a citizen and council member?

---

Subject: don't frack Broomfield

Please, I want a time out on fracking.  
Please listen to the people of Broomfield, and the surrounding area. We are concerned about our water, air and soil and we are concerned about our kids health and future generations.  
Please do the right thing for our environment.

---

Please adopt a moratorium on fracking permits in Broomfield, CO.

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Subject: Timeout on Fracking in Broomfield

Broomfield City Council,

As concerned citizens, dedicated parents, business owners, and informed voters, we support a timeout on fracking.

We 100% support the community-driven request that you implement an immediate emergency moratorium to new drilling permits in Broomfield, until results of an independent community impact study is completed and the claimed "safety" of fracking can be independently verified.

We also ask that a special section of the website be set up to keep us up to date on where things stand regarding fracking in Broomfield.

Realizing that a complete ban might go against State law, and that safety of citizens may conflict with revenue goals, we urge you to consider legal alternatives such as a moratorium on new permits and also consider creative alternatives or solutions.

---

Dear Councilmen and Councilwomen,

I am writing to you as I am very concerned about allowing any more drilling operations in Broomfield. According to the COGCC Database, there are on average two (2) spills/releases from oil and gas operations in Colorado every day. Many of these are historical releases and are not found until months after the spill has occurred. One in four of these spills impacts Colorado's ground or surface water. In addition, we know that these operations are impacting our air by mixing with other hydrocarbons to form ozone. The Front Range is already in non-attainment for ozone and adding more oil and gas activity will only contribute to our ozone problem.

The awareness of the potential dangers from oil and gas operations is increasing every day. In the long run, if you want to attract people to Broomfield and everything that it has to offer, you will reconsider approving any more oil and gas operations. There is no doubt that there are risks associated with this industry and people are concerned. Personally, I moved out of Erie because of the abundant oil and gas operations. As people start to learn more about the potential dangers and find out that Broomfield has multiple producing wells, it will become another place on the Colorado map marked as damaged goods.

Please make the responsible decision and stand up for your citizens.

---

Dear Council members,

It is very important that the people whose health and lives may be affected by 'fracking' have a voice in whether or not or how this industry enters the economy of the county. They are entities with large amounts of money and influence and therefore 'power' and it is your job to see that those with few funds have equal influence and power in this situation. A moratorium would be advisable until adequate and accurate information is available and all voices - including the vulnerable - are heard.

Thank you for your consideration.

---

Don't frack Broomfield!

"Too often we underestimate the power of a touch, a smile, a kind word, a listening ear or honest complement, or the smallest act of caring, all of which have the potential to turn a life around."

---

Subject: Fracking - City and County Codes

Dear Council,

In advance of the 4/23 vote on Fracking Wells;

I could make tons of health arguments as I have talked to residents in Erie that have had their lives ruined by the fracking and are sick.

I could also tell you personal stories of my family being poisoned by oil companies in Ohio.

But, I am going to stick the what is written in the city/county code:

Geological: There is no way to 100% guarantee that spills won't get into the groundwater or into the community. These chemicals are impossible to 100% contain as has been proven time and time again. Research Parachute, CO for example. There are multiple fracking spills weekly just in Colorado. The other large geological concern is sinkholes. Anthem has had shifting of soil. Once drilling begins, we could have tons of sinkholes, which the oil company will say is not proven to be caused by their drilling. VOTE NO DUE TO GEOLOGICAL CODE unless studies can be shown that show no risk exists.

Visual: These rigs are an eyesore. This is a beautiful community, one where many want to raise a family, ride bikes etc...we don't want to view a rig and wells. Visually, it doesn't fit Broomfield. VOTE NO DUE TO VISUAL CODE

Noise: The noise of the drilling and up to 200 trucks a day pose a major hazard of noise pollution. There are houses nearby where residents will be affected dramatically. Many people are deeply affected by the constant hum of these wells. VOTE NO DUE TO NOISE CODE

Wildlife: The land these proposed wells are on have frequent wildlife. They have to have somewhere to go. Entire livestock has been sickened by fracking in many communities. What do you think it will do to the wildlife Broomfield Residents enjoy. VOTE NO DUE TO WILDLIFE CODE

Overall, you were elected to serve the residents of our community. I believe I have pointed out 4 parts of the CODE that are being violated.

I plan to be at the 4/23 meeting and sincerely hope you VOTE NO. It is what the people want and you represent the people. 4 CODES VIOLATED  
= 4 REASONS TO VOTE NO.

---

Subject: DONT FRACK

I whole heartedly am opposed to the fracking proposal for Broomfield.  
There is NO benefit for anyone who cares about our collective health, future or economy!

Don't let it happen!

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Subject: STOP FRACKING!

Please do not approve any more fracking permits.  
Keep Broomfield safe.

---

Subject: Moratorium on Fracking

Please vote for a moratorium on fracking in Broomfield. Our natural resources are too precious to squander or put in danger!

---

Please take a break from fracking in Broomfield! We are barely starting to understand the environmental and health ramifications of this practice. In a community where outdoor recreation and healthful lifestyles are so important, how can we accept this risk?

---

Subject: DON'T FRACK BROOMFIELD

Please!!!!

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Subject: In support of a fracking moratorium

I'm writing to express my concern over fracking and the various potential hazards it poses. I am 100% against fracking, but at the very least please initiate a moratorium on fracking for the time being. There are a lot of concerned residents who are doing everything in their power to do their due diligence but need additional time to draw accurate conclusions.

---

Please please consider human health over need for more petroleum. Put our \$ and efforts toward alternative green energy sources rather than approving a dangerous Fracking well. There are so many children with health problems from Fracking side effects. Why would you even consider this risk???

---

I want a timeout on fracking in Broomfield. NO MORE PERMITS!

---

Hello,

Please stop fracking in Broomfield. Fracking endangers our community's health and safety as well as the healthy future of our planet!

---

Subject: Don't destroy Broomfield by hydraulic fracturing

Dear Councilpersons:

Bad for business, bad for health, bad for the air and water, bad for our children's future. There are alternatives to dirty fossil fuel, and it behooves us to invest in them. Industrialization of our beautiful and valuable county is NOT where we want to go.

We have options, the support of the people. Listen to the citizens who have their lives invested here - don't sell out to the oil and gas behemoths that would destroy us and not look back.

We are united, we care passionately about this.

Please act on behalf of the people you were elected to represent.

Sincerely,

---

Subject: NO MORE FRACK WELLS IN COLORADO

Water is already a very dangerous subject in Colorado and fracking uses a ridiculous amount of fresh water. Not to mention the numerous other disastrous ways it contributes poorly to the future of our planet and communities. There is plenty of sunshine! Why are your county commissioner meetings not held for the purpose of adding solar to our energy needs?

Thank you, but please do your job and protect the people, not the money of the big oil companies.

---

Subject: My children are terrified of fracking in Broomfield - please don't make us move

We are ~1000 feet from the proposed fracking wells near Anthem. Our children's school (PRA) is within 900 feet of the proposed wells. My children will spend over 90% of their day within 1000 feet of these wells and we are all very upset.

Our neighbors in Erie have shared the substantial impact on their lives due to Fracking, none of it is positive. The bans on Fracking in Longmont and Fort Collins as well as other States confirm our fears that the experiences in Erie are not unique, nor are they trivial.

We moved to Broomfield because it's a fantastic community to raise a family. If this fracking moves forward that will no longer be true for us and we will be forced to move.

With all of this I am left very confused how our City Council can approve the building of a School & Homes in a location that they would later consider approving fracking. I realize the companies who have purchased the mineral rights have their right to make use of that land but Fracking is clearly not sufficiently safe at this point to be done in such close proximity to families and children. I would expect Broomfield to hold companies to a higher standard and hold on any approvals until safer practices are put in place. I would also expect Broomfield to insist on more distance between this activity and schools / residences.

I want a timeout on fracking in Broomfield, please do not approve more permits for this activity.

---

Subject: I want a moratorium on fracking in Broomfield

Hello,  
This message is to let you know that, as a Broomfield resident, I want a moratorium on fracking in Broomfield.

---

Subject: Don't Frack Broomfield

Please! Fracking must be stopped until the real research is done on it's impact on the community. Immediate gain is not worth generations of environmental loss.

---

Greetings,

As a concerned neighbor in Boulder County, I am extremely concerned about the prospect of allowing Fracking to occur in Broomfield. There are several, new, long term, heavily funded health and environmental impact studies being performed by the EPA and other very well respected sources. It would be irresponsible of you to take the lives of your constituents and those of the citizens in neighboring counties at risk, until these studies have been completed. I am asking you to enact an extended moratorium until these studies have been completed, so that you can more accurately assess the impact of Fracking on the Community and Environment.

Thank You, for your time and consideration.

---

Subject: Please put a hold on fracing in Broomfield

To Whom It May Concern,

Please put a hold on additional permits for fracing in Broomfiled. I am a concerned citizen a parent who does not want fracing in areas close to homes and schools. We do not know the consequences of fracing

long term, and until this is understood, please do not allow it in our community. Please don't put our families and children in harms way.

Thank you.

---

To Whom it May Concern,

Please do not allow fracking in Broomfield to continue.

I am respectfully requesting a moratorium on fracking in Broomfield, CO.

Please do not allow more permits in Broomfield.

---

Subject: Please stop fracking in Broomfield

Dear Boomfield Council -

Once upon a time, people moved to Broomfield for its quality of life. Everyday, children played in the parks, breathed clean air, and drank clean water. Life was good. Life was healthy. Then, the fracking wells moved in next door. "It's safe," the industrialists told us. "There are regulations we need to follow. We clean up our spills. Your concerns are understandable but unfounded," they added. Because we believed them, we allowed drilling near our schools and residential areas and aquifers. Because of that, the drilling brought to pollution to our community. The industrialists had a catastrophic well-casing failure. It polluted our water supply. People started to get sick without any good explanations. Tumors started showing up in our children. And people started selling their houses at a loss in order to flee the area. Until finally, the scientific evidence proved that fracking does indeed pollute the environment and our bodies. We declared a moratorium on new fracking wells. But the irreversible damage had been done. And the energy companies had returned a nice profit to their shareholders.

PLEASE don't let this become our story. Fracking components contain chemicals that are known or suspected of being carcinogenic. Accidents happen. Catastrophic well-casing failure can happen at any time. Wells that have been "safely" operated are closed with casings and plugs of uncertain lifespans. And we've learned that even impermeable layers of rock that supposedly separate the fracking chemicals from water supplies can be surprisingly permeable and fractures in the rock and be interlinked in unexpected ways. Even George P Michael, the Texas wildcatter who pioneered the use of fracking, is calling for more transparency and tighter regulation. If he's concerned, should we also be concerned?

Please exercise your authority to protect us and our families.

---

Subject: Please don't put more fracking wells in North Park

Thank you.

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Subject: Moratorium on Fracking Broomfield

Thank you for listening to our concerns last night. We appreciate that we were given an opportunity to express our views and feel confident that you heard us that more assessment is needed before proceeding.

Attached is a map from the COGCC website (with our graphics added) showing the oil and gas drilling creep into Broomfield. We do not want our city to suffer the same fate as the communities around us. It was suggested that we take a tour of Weld County, and a biologist who has become a fracking activist is willing to host you on such a tour so you can see first hand what has happened to the community and farmland and experience the effects of fracking. Regardless of where you stand on this issue, it is a trip worth taking to explore what has been proposed for Broomfield before deciding if this is the right course of action for our community. Please let me know if you are interested.

We also look forward to the receipt of the 'red zone' map early next week as Kevin Standbridge indicated in an email to me yesterday.

---

Mayor and Council Members,

I wanted to thank you for listening to my concerns and those voiced by fellow Broomfield residents regarding fracking last night. I moved to Broomfield because of the excellent quality of life, parks, trails, and open land. I chose the Anthem Highlands neighborhood, in particular, to build my home because it exemplified all of these qualities that Broomfield prides itself. I want to preserve this city and county's reputation of being a desirable place to live, work, and shop.

Please continue to keep the health and well-being of your residents as your number one priority. Educate yourselves on the effects oil and gas drilling has on the health and quality of life of our residents. Do no harm to your constituents, your children, your families. Let's take a time-out on fracking until we can prove it is a safe industry to host. The evidence is just not there and the long-term health effects are completely unknown. Don't make me and, more importantly, my children unwilling participants in this unmonitored science experiment.

Thank you for your service to our city and the residents of Broomfield.

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We are hosting a Risks of Fracking forum on Monday April 15 at 6:30 PM at the Parkside Community Center in Anthem Highlands, and would be honored and delighted if you are able to attend.

Please RSVP as soon as possible as capacity is limited.

Thank you for your attention to our concerns over fracking.

---

Subject: My children are terrified of fracking in Broomfield - please don't make us move

We are ~1000 feet from the proposed fracking wells near Anthem. Our children's school (PRA) is within 900 feet of the proposed wells. My children will spend over 90% of their day within 1000 feet of these wells and we are all very upset.

Our neighbors in Erie have shared the substantial impact on their lives due to Fracking, none of it is positive. The bans on Fracking in Longmont and Fort Collins as well as other States confirm our fears that the experiences in Erie are not unique, nor are they trivial.

We moved to Broomfield because it's a fantastic community to raise a family. If this fracking moves forward that will no longer be true for us and we will be forced to move.

With all of this I am left very confused how our City Council can approve the building of a School & Homes in a location that they would later consider approving fracking. I realize the companies who have purchased the mineral rights have their right to make use of that land but Fracking is clearly not sufficiently safe at this point to be done in such close proximity to families and children. I would expect Broomfield to hold companies to a higher standard and hold on any approvals until safer practices are put in place. I would also expect Broomfield to insist on more distance between this activity and schools / residences.

I want a timeout on fracking in Broomfield, please do not approve more permits for this activity.

---

Subject: Please Place a Moratorium or Ban on Fracking Until Studies Demonstrate Its Safety

Dear Broomfield City Council:

I understand that you are considering the permitting of further hydraulic fracturing in the City of Broomfield. I urge you to either place a moratorium or ban on hydraulic fracturing until comprehensive studies can be completed on whether hydraulic fracturing can be safely accomplished.

There is too much evidence of the poisoning of ground water through this process. The process also uses millions of gallons of scarce water when there are currently drought conditions and water restrictions.

Thank you for your consideration of this request.

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Mr. Mayor and Council Members,

Thank you for taking the time to read this email. I have lived in Broomfield since 2008 and have worked in the oil and gas industry since 1998. The reason I am writing you today is to provide you my view point on oil and gas development in Broomfield. I want to stress a few points of advantage for Broomfield, remind the council that the State of Colorado has a commission responsible for regulating oil and gas rules, and state a few facts about oil and gas development in the year 2013.

Broomfield has a unique advantage of being on the edge of the oil and gas reserves of Colorado. This provides Broomfield with an economic opportunity for tax profit from energy developed it within its border and from people looking to move to a community to live and still be close to working in the oil and gas fields. Myself and other people working in the energy industry choose to live in Broomfield for its location, schools, and stance on taxes. At this time I do not see how Broomfield can turn away from safe development of the natural resources that are in its borders. The average worker in the oil and gas industry makes \$35.15/ Hr (IHS Global Insight). That is 34% higher than wages in the general economy. Also, federal state, and local governments received \$193 Billion dollars in revenue in 2012 from oil and gas development (Pittsburgh-Post Gazette). That revenue funds multiple schools, hospitals, and local projects. Broomfield should embrace the oil and gas industry and the people that work for it, this would only lead to the enhancement of the economy and growth of Broomfield.

As a resident of the State of Colorado I must remind the city council members that oil and gas rules in Colorado are made and governed by the Colorado Oil and Gas Conservation Commission (COGCC). The COGCC is responsible for setting rules, restrictions, safety guidelines, and tracking permits for oil and gas development. The COGCC has recently passed laws on spacing from residences and water sampling testing to further ensure the safety of our communities. I bring this up to also point out that some of our neighboring communities have choose to ignore the COGCC's authority over oil and gas rules and pass hydraulic fracturing moratoriums and bans. These communities are now going to be facing lawsuits from the State of Colorado. As as resident of the State and county of Broomfield, I do not think my tax payer money should be used to go through such a lawsuit. I encourage the council members to research the COGCC's website and rules and contact the COGCC for questions. (<http://cogcc.state.co.us/>)

Lastly, I would just like to point out some of the controls and science that dictate oil and gas development in 2013. As a member of the oil and gas industry and living where oil and gas is developed I believe in the safety measures and science that go into the process. Oil and Gas developments is regulated by multiple agencies : COGCC, OSHA, EPA, and the DOE to name a few. Also, oil and gas companies have internal industry reviews guiding them in safe practices such as the API. One of the biggest concerns citizens have is drinking water. Oil and Gas development sets steel casing and cement across all water zones to protect them. This casing has industry standards and the cement process is rigorously monitored. Also, hydraulic fracturing has existed since 1940 and is not a new process. Hydraulic fracturing is a method of cracking the rock near the wellbore so that oil and gas can flow into the steel and cement lined wellbore. The fluid used is 99.5% composed of water and sand (<http://cogcc.state.co.us/>) All chemicals used in eh hydraulic fracturing of wellbores in Colorado is now open information and can be found at <http://fracfocus.org/>. Oil and Gas professionals in 2013 do not cut corners and take ground water and environmental concerns as major priority, because we live in the communities that the product is developed in. In a perfect world our natural resources would only exist in places where no person lives, but that is not reality. As a society we still depend on the natural resources and we must develop them safely.

Thank you for your time reading this email. I know you are receiving a lot of emails on this topic currently. I hope the council researches the topic and follows the science instead of listening to information that contains emotion from people who have not researched the issue thoroughly. Unfortunately the movement to ban hydraulic fracturing relies on scare tactics and emotion instead of actual science and information. I have faith that the council will do what is right for Broomfield's growth and continued development.

---

Subject: Thank you and Time OUT on Fracking

Dear Mayor and Council Members

Fortunately I was able to watch the video of Tuesday night's meeting, the thoughtful, organized comments of fellow Broomfielders and the subsequent attention and discussion among Council members. I am very appreciative of both.

Taking heed of Councilman McCloskey's suggestion, you probably already received a cc email I sent to Sen Marble and Rep Primavera. I would say that this issue is NOT beyond the scope of the Council to consider. Indeed, 7 pieces of legislation would not be in the forefront of discussion at the State Legislature if it were not for the assertive actions by citizens and local governments like Longmont and Ft. Collins. As a result of the rapid expansion, geographically and numerically, of drilling operations, any community is subject to its effects. Let's learn from our neighbors and counties throughout the state.

Somewhat different from most of the commentors Tuesday night, I don't live near a current or potential drilling site. However, I believe as density of drilling increases, there will be cumulative and far reaching effects, some of which won't be evident for years to come. As one woman noted, the burden of proof regarding longterm safety and health should be placed on well operators and those fracking. "Contaminated water can't be undone."

I'm encouraged in the near universal desire to study the issue further, ensuring equally weighted contributions from the public. I urge you to exercise the power of Home Rule, take a time out on fracking and implement an emergency moratorium.

Thank you for your time.

---

Subject: Fracking in Broomfield

Dear Council members,

Thank you for listening to our concerns and making the time to learn more about this issue. The more I read, the more worried I am about allowing Fracking in Broomfield. I don't want to look back 20 years from now and wish we would have done things differently. Please vote to stop all plans for Fracking in Broomfield.

---

Dear Council Members,

I am very concerned about Fracking in Broomfield. I urge you to issue a moratorium as other states and cities have done until we can all be assured that our children will not be harmed as a side effect of the chemicals.

Thank you,

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Subject: Fracking -- We must send it packing

Broomfield City Council - The energy industry will tell us that Fracking is safe. Many others disagree or at least conclude that we don't know. Let's leave the gambling to Central City, Blackhawk, and Cripple

Creek. You, me, and our friends live, eat, and breath in Broomfield. Let's make the industry that wishes to gamble with our health prove that fracking is safe. It can't. Fracking -- We must send it packing.

---

Subject: My children are terrified of fracking in Broomfield - please don't make us move

We are ~1000 feet from the proposed fracking wells near Anthem. Our children's school (PRA) is within 900 feet of the proposed wells. My children will spend over 90% of their day within 1000 feet of these wells and we are all very upset.

Our neighbors in Erie have shared the substantial impact on their lives due to Fracking, none of it is positive. The bans on Fracking in Longmont and Fort Collins as well as other States confirm our fears that the experiences in Erie are not unique, nor are they trivial.

We moved to Broomfield because it's a fantastic community to raise a family. If this fracking moves forward that will no longer be true for us and we will be forced to move.

With all of this I am left very confused how our City Council can approve the building of a School & Homes in a location that they would later consider approving fracking. I realize the companies who have purchased the mineral rights have their right to make use of that land but Fracking is clearly not sufficiently safe at this point to be done in such close proximity to families and children. I would expect Broomfield to hold companies to a higher standard and hold on any approvals until safer practices are put in place. I would also expect Broomfield to insist on more distance between this activity and schools / residences.

I want a timeout on fracking in Broomfield, please do not approve more permits for this activity.

---

Please do not support fracking as this threatens the longterm health of our citizens.

Thank you,

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Subject: Don't sleep under a dead tree (fracking)

Dear Broomfield City Council -

Any of you who are, or have been, avid campers knows the advice. Don't sleep under a dead tree. If you're looking at statistics, the tree probably won't fall the night you're under it. But if it does, the results will be catastrophic. Now consider a lifetime of nights spent sleeping under dead trees. The probability of having a tree fall on you goes up considerably. The same catastrophic results apply. It only takes one tree.

This is how we need to look at fracking wells placed in residential communities -- probabilities and consequences. Broomfield might gamble and win with its existing wells. Or it might gamble and lose -

suffering catastrophic results. What if our water supply is irreversibly tainted with carcinogenic chemicals? Do we believe the industry can clean it up? What if it's your child or your grandchild or your spouse that comes down with a blood disorder? Will chemotherapy and a bone marrow transplant work? Will a monetary settlement satisfy you?

Benzene is quickly absorbed into the bloodstream and can damage stem cells which, in turn, can lead to the development of potentially fatal blood disorders. It's called Acute Lymphocytic Leukemia (ALL). Today it is well known benzene exposure can cause ALL. ALL is a cancer in the white blood cells that battle infectious agents throughout the body. ALL is not inherited or contagious. Therefore it is likely caused by environmental conditions.

Benzene is a relevant discussion point because fracking fluid has the following substances common to diesel fuel. Not all companies use diesel fuel, but most of the companies surveyed by a 2010 congressional committee admitted that diesel fuel is part of their fracking mixture.

- Benzene
- Ethylbenzene
- Toluene
- Xylene
- Naphthalene
- Polycyclic aromatic hydrocarbons
- Methanol
- Formaldehyde
- Ethylene glycol
- Glycol ethers
- Hydrochloric acid
- Sodium hydroxide

Let's sleep where it's safe - in a community that is no longer drilling fracking wells. If we continue to place fracking wells in Broomfield it's like a lifetime of sleeping under dead trees. It's highly likely that one of them will fall on us. Only it will show up with a name like Acute Lymphocytic Leukemia.

Please support a moratorium.

---

Dear Mayor and Council Members,

I read the below article on the Denver Post yesterday and wanted to share it with you. It was a bit disheartening. While some of the state legislature is trying to work for the people and putting our health as a priority, it is not passing unmodified out of committee. This is why we are relying on you, our neighbors and city representatives, to protect us. At a city level, you can take a time-out on fracking. The oil and gas underground is not going anywhere. Our lives and health are at stake- I am fighting hard for this because I do not want to look back 20 years from now, with illness plaguing my family, and wish I had done more. We just do not know the long-term effects this can have on us and our lives are the most precious thing we have.

Join fellow Colorado municipalities taking a stand for THEIR residents' health and safety. Enact an immediate moratorium on fracking in Broomfield until we can prove there are no long-term health effects on us.

Colorado committee OKs bill for drilling fees; nixes health study

A House committee voted in favor of a bill Thursday night to add fees to oil and gas companies to pay for additional local drill inspectors. But the same committee rejected a bill to study whether Front Range drilling operations can harm human health.

Results were mixed for Democrats seeking to curb energy companies and assure the public that new drilling procedures are safe.

The proposals are the latest push by ruling Democrats to put additional oversight on an industry to which the state legislature has historically deferred. Additional bills to require more financial disclosure by oil and gas regulators, and to dramatically hike daily fines for spills and violations, await votes.

Democrats haven't ruled out a potential bill to give local governments new rights to exceed requirements by state oil and gas regulators. House Democratic Leader Dickie Lee Hullinghorst told reporters Thursday that such a measure could be introduced in the next few days.

Democrats say the bills are the result of local demands for greater oversight. Technological advances have allowed the rise of oil and gas drilling in places that never had it before, prompting worries that drilling in populated areas carries new health risks.

Residents "have a lot of concerns about what the environmental impacts and the human health impacts of this development are going to be," said Democratic Rep. Randy Fischer of Fort Collins, sponsor of the local fee requirement.

The drilling debates threaten to fracture the Democratic majority in the Capitol.

Democratic Gov. John Hickenlooper zealously defends the industry, especially the controversial drilling procedure of hydraulic fracturing, or fracking.

The administration has vowed to sue cities and counties that try to ban the technique, which involves injecting high-pressure mixtures of water, sand or gravel and chemicals to extract oil and gas from rock.

Hickenlooper has been silent on the proposals made by his Democratic counterparts in the legislature, so it's unclear whether he would veto any of the new limits that land on his desk.

Oil and gas lobbyists have pressed hard this session to turn back attempts to limit drilling.

Industry groups have been a constant presence at legislative hearings this year as drilling regulations have been considered.

Some drilling critics have griped that the industry's push shows it's too powerful.

"It appears there are more oil and gas lobbyists in this building than the state has inspectors," said Boulder County drilling regulation volunteer Rod Bruski.

On the other side, industry groups are hoping lawmakers defer to an industry that brings thousands of direct and indirect jobs to Colorado.

---

Hello City Council members, there is much hysteria and propaganda circulating from leftist professional activists about the subject of fracking. They continue to attempt to present myths that have already been debunked several times as facts.

I am a just a concerned citizen from Brromfield, and not part of any organized group. To add some balance to the discussion, and to contribute to your study, I would like to present some impartial information from a study done by the Heritage Foundation. This is very good information and is presented in the form of Myth #1, Myth #2, etc., with explanations as to why the information is false. They also list the extensive state regulations on fracking and discuss its benefits to the economy and local community. Please find the study at this link:

<http://www.heritage.org/research/reports/2012/08/hydraulic-fracturing-critical-for-energy-production-jobs-and-economic-growth>

For convenience, I have attached the study as well in a pdf document.

Also, if you have the time, I would recommend purchasing and viewing the DVD of the documentary fracknation:

<http://fracknation.com/>

The following link is to a short (14:40) YouTube video that contains excerpts from the FrackNation film

<http://www.youtube.com/watch?v=B03IYdHpVAM>

The one salient fact concerning fracking is that there is not one proven case of groundwater contamination caused by this technology. This information comes straight from the EPA. Lisa Jackson, EPA Administrator states this in the following link:

<http://www.youtube.com/watch?v=L4RLzIcoX5c>

I hope that this information helps you to reach the correct decisions.

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Subject: My children are terrified of fracking in Broomfield - please don't make us move

We are ~1000 feet from the proposed fracking wells near Anthem. Our children's school (PRA) is within 900 feet of the proposed wells. My children will spend over 90% of their day within 1000 feet of these wells and we are all very upset.

Our neighbors in Erie have shared the substantial impact on their lives due to Fracking, none of it is positive. The bans on Fracking in Longmont and Fort Collins as well as other States confirm our fears that the experiences in Erie are not unique, nor are they trivial.

We moved to Broomfield because it's a fantastic community to raise a family. If this fracking moves forward that will no longer be true for us and we will be forced to move.

With all of this I am left very confused how our City Council can approve the building of a School & Homes in a location that they would later consider approving fracking. I realize the companies who have purchased the mineral rights have their right to make use of that land but Fracking is clearly not sufficiently safe at this point to be done in such close proximity to families and children. I would expect Broomfield to hold companies to a higher standard and hold on any approvals until safer practices are put in place. I would also expect Broomfield to insist on more distance between this activity and schools / residences.

I want a timeout on fracking in Broomfield, please do not approve more permits for this activity.

---

Dear Council Members,

I am a Broomfield resident who is extremely concerned about the threat posed to my health, safety and property values from fracking in our city. I am requesting that you do not approve any new drilling permits in Broomfield until an independent study can be conducted and the health effects and safety of the

process on our community can be verified. Please listen to the many concerned citizens of the community you represent.

---

To Whom It May Concern:

We write to request a moratorium on fracking in Broomfield. The proposal for the addition of eleven new oil and gas wells are at sites within 0.5 miles of Prospect Ridge Academy School. This poses threats to the health of many people, but especially children's health should be considered, which is invaluable especially comparatively speaking with anything monetary in nature. We want a time out on fracking in Broomfield - no more permits PLEASE!!!! We feel strongly enough about this that if passed, we may be forced to cancel our kids' enrollment in a school we have been very pleased with. This passing will create havoc in many families' lives. Please halt the fracking.

Thank you in advance for your time and consideration.

---

Subject: Don't Frack Broomfield

Councilmembers,

I again extend the invitation to our event tonight at Anthem Highlands that will be an open information 'other perspective' view on hydraulic fracturing. At a similar event held in Lafayette in March, there were 2 city council members present to observe and learn. You really must learn from experts in the field on the other side - much of the content I've seen in your documents does not fully reflect the available information, research and testimony. We are begging you to consider the risks fully.

To that end, there is an event this weekend called "Be Fracksure" held in Longmont.

<http://ourlongmont.org/be-frack-sure/>

This is an incredibly opportunity to educate yourself in a day, close to home. Dr. Tony Ingraffea does not often venture out this way and he is a balanced, educated viewpoint in this debate.

<http://facesenvironment.com/2012/04/26/dr-anthony-ingraffea/>

Please, please take advantage of the opportunities this week that will help you make a better decision about fracking in our community. We continue to ask for a moratorium until further research is conducted and can prove safety. We should not be listening to one-sided arguments from COGCC, COGA or the state of Colorado. They have not proven to be unbiased and able to put people above the industry.

---

Dear Boomfield City Council - I am against fracking near residential communities. Yet, I'd like you to know that I understand the difficulty of your position.

On one hand you have the energy companies telling us that fracking is perfectly safe. It will present evidence supporting its position. And it may leave things unsaid that cast doubt on its position. Such is the nature of persuasion.

On the other hand, you have citizens saying fracking isn't safe, or at least we don't have sufficient evidence to the contrary. It, too, will present evidence supporting its position. It will present evidence on the side of caution.

Ultimately, you are weighing both of these points of view for the health of the community.

Inside each of you, each of us, there are 2 decision making programs -- the logical and the emotional. Both are valid and both have influence in the decisions we make.

You may find that the logical arguments are too difficult to reconcile at this point in time. If this is the case, consider your emotional voice. If it isn't rationally clear that fracking is undeniably safe. What would you want for your family if a new well were planned within 1/2 mile of your home? What would another citizen who is scared for the safety of their children and suspicious of the drilling industry's motives want you to do? Would you want a community governing body to error on the side of caution? Or would you want the body to clear the way for the energy company to drill fracking wells under conditions of uncertainty?

I look at my kids sleeping at night and I think of my role as their protector. I must argue against uncertainty when my kid's health may be in the balance. My decision is easy. At the same time I respect the difficulty of your position. My small piece of unsolicited advice is, "Please don't forget about your emotional voice." I pray that you slow down the development of new fracking wells with an immediate moratorium.

---

Subject: No Fracking in Broomfield

Please, do not allow fracking in Broomfield until the oil and gas companies prove that fracking fluid is safe enough to drink. We can not afford to allow the oil and gas companies to poison us. Please, follow Longmont and Fort Collins and ban fracking in Broomfield.

---

Subject: Don't frack Broomfield

Dear City Council,

Please enact an immediate moratorium on all fracking in Broomfield. It just doesn't make sense to me why a process with so much debate and uncertainty surrounding it. would be allowed in such close proximity to homes and schools.

---

I received an email from the dont frack group urging me to contact the city council. I want to go on record as saying I totally support fracking and believe it is essential to our well being, both from a business perspective, and a clean air perspective.

The brochure from this group is devoid of any science. I checked with the Colordao EPA and there have been no incidences of ground water contamination in Colordado despite the the large amount of fracking that has been done.

Of course everyone knows that the pollution from burning natural gas is about half of the the pollution from other carbon fuels.

And while renewables have their place, the current standard is they still need to be substantially firmed due to their intermittance.

Natural gas in an obvious gift that we would be foolisg to not develop.

The only issue I would encourage you to consider is ensuring that mitigation efforts for heavy traffic and dust control are implemented around the sites.

In case you are wondering, I am not in the energy industry, I work at a local college.

---

Broomfield City Council - Fracking is heavy industry. It doesn't belong near our residences. It doesn't belong near our children's schools. It doesn't belong in Broomfield.

- A CU Heath Services study notes that people living within 1/2 mile of a fracking well have a 66% greater chance of cancer, endocrine disruption, and asthma.
- Fracking is exempt from the Clean Air Act but spews fugitive emissions such as toluene (potential to cause severe neurological harm), benzene (carcinogen), and ethylbenzene (eye and throat irritant) into our air.
- The fracking technology being used in Colorado today has only been used for the past 18 months. IThis drilling method does not have a long record on which to base any claims of long-term safety.
- 7% of fracking wells fail immediately. 60% fail over 30 years. Concrete fails (cracks) all the time.
- Each fracking well uses 5,000,000 gallons of fresh water. It pollutes it all. We're in an arid climate.
- Each fracking well uses 25,000 gallons of chemicals. The manufacturers won't disclose the exact chemicals but they're known to be similar to diesel fuel.
- Each fracking well puts 1,000 heavy tanker trucks on our roads...and that's just for the fresh water delivery. That's 1 well. And there are 17,388 wells in Weld County.

The more I hear about the downsides of fracking the more disgusted and frightened I become. A person could go on and on about risk statistics. The problem is that the numbers and angles soon begin to run together and nothing punches through as a clear message.

Please place an immediate moratorium on new drilling permits. Please exercise our Home Rule rights. Please contact Boulder County to discuss its research and point of view.

Let's put people, the health of our children, the health of our children's children, our air, and our water over shareholder profit. The oil and gas industry doesn't need to drill in our community because the Niobrara gas field is HUGE. It can find all the oil it wants outside of our county limits. But if we don't redirect it now, heavy industry will be in our backyard. We'll have failed to defend our community and our children from the exploitation of oil and gas.

---

Subject: Please vote for a moratorium

I urge you to take the leadership in protecting the health and property values of our great city of Broomfield. Please move forward with the fracking moratorium. Put kids and families first! Sara

---

Subject: New posting regarding HB1275

This was submitted to area newspapers. Please note who testified against new research - CDPHE - one of the groups coming to the Council's study session tomorrow night. State sponsored agencies are supportive of fracking and it is in their interest to downplay the harmful effects, or to delay any research findings, as CDPHE/Hickenlooper have done.

Quote from below: In the meantime, you only have two choices – take your chances and stay in your home as your neighborhood is fracked, or speak with your feet and move.

There is already one house up for sale in our neighborhood due to concerns over fracking. Should this pass, there will be more and we won't be relocating inside of Broomfield.

Please, please take our concerns seriously.

---

Dear Mayor and Council Members,

I wanted to share with you testimony to the COGCC that a woman I know, April Beach, gave earlier this year. (Word Doc attachment) This hit so close to home- not only does she live in neighboring Erie, but I personally know her, as her youngest son and my son go to the same preschool together. I realize that her health issues have not been confirmed as being related to Oil and Gas, but with no studies, no air quality monitoring, and fire departments unequipped to measure emissions seeping into homes there is no way to prove her health issues AREN'T related to the vast amount of Oil and Gas production.

Please think of April and her family's many health issues as you continue to learn about fracking and the effects it can have on our community. Know that she is not the only one experiencing health issues in Erie. I am a mother to 2 children under 5 years old and have serious concerns about how the exponential increase in fracking in Broomfield will affect my family's health. Think of yourselves, your children, your grandchildren- if there is a risk to the health of any PERSON, is it worth it?

Please note that over the course of ten years, a total of 48 wells have been approved and drilled in Broomfield. Now 31 are proposed in the first quarter of 2013? This is a drastic increase and we need to seriously think about how this is going to impact the community. Please enact an immediate moratorium on fracking in Broomfield and do the right thing for my family's health.

Attachment to Houle Email April 16, 2013 10:21 AM (copied from Word Doc):  
*Before I share, it's important to note that I am a Conservative Republican and NOT an environmentalist. I come from a family who owns oil and mineral rights and receives royalty checks. I also have family and friends who work in the industry.*

\*\*\*

*I have three boys. I have lived surrounded by wells for 10 years and within a few hundred yards of what appear to have been open pits for 6. We were never informed of the pits, or of the chemicals in use, dangers of operations, and ongoing possible health implications of the surrounding operations. In our first home, we felt tremors and small earthquakes, in our current home we have many more issues.*

\*\*\*

*We currently live near 5 wellheads, a BTEX burner, 2 separators and 2 Condensate tanks. Beyond this we are surrounded by 34 wells within a ½ mile radius.*

*We have been told to evacuate our home by CDPHE from a possible H2S release. Only to have an investigation team on site days later, when obviously no issues would be found.*

*We have called the fire department multiples times from toxic gasses seeping into our home. Only to have them not equipped with adequate detection monitors for the chemicals of concern. I don't bother calling them anymore because they can't help me.*

*At night, I can look out my son's window and see the flames inside the closest BTEX burner. Loud sounds and burning noises are a common occurrence. Vapors rise from the numerous burners surrounding our home, day and night.*

*\*\*\**

*We have been sick.*

*I have an unexplained lesion in my spinal cord. I had to deal with a spinal tap, regular MRIs and ongoing testing. After we found the lesion, I do not remember 6 months of my life. A precious time when my second baby was less than a year old.*

*In addition, our family deals with many more health issues,  
Not limited to the following:*

*Headaches*

*Severe Migraines*

*Children with gushing bloody noses*

*Confusion*

*Memory loss*

*Hyper tension*

*Hair loss*

*Concentration problems*

*Severely unexplainable autoimmune disorders and allergies for multiple family members.*

*Pains and weakness in our bodies*

*Serious GI issues to the extent of a child needing a colonoscopy, and multiple family members needing endoscopies. All with no findings.*

*Chronic, painful reflux for everyone*

*Complete body itching night and day for months with no explanation and no treatment available*

*Periods of dizziness to the point of not being able to walk or climb stairs in both children and adults*

*My son also developed severe asthma shortly after the BTEX burner was put online next to our house*

*My husband redeveloped his childhood asthma at the same time and*

*I developed new asthma symptoms*

*Chronic sinusitis for one child, which has led to antibiotic resistance and CT scans*

*Sickness, lethargy and abdominal pain that lasted for months after the most recent well was completed by our home, with clear CT scans, blood work and stool samplings*

*Only narcotics could help until the pain went away*

*And many other health concerns...*

*Just when we thought we had seen the worst. My son recently developed a rare neurological disorder.*

*His body began to loose control with ticks and twitches. He has torn all the muscles in his neck and cut his hands from repeatedly gripping so hard. With his hands wrapped, writing at school has become a challenge and playing guitar, his favorite way to self-calm is not always an option. It is unbearable to watch as a parent, let alone live with as a child.*

*He is the bravest person I know. He submitted a testimony to the EPA in 2011, about his concerns regarding the wells. About how he could no longer play in his tree-fort next to the nearby condensate tanks. In addition, a BTEX burner now stands where there used to be a huge beautiful Cottonwood tree and the owls are gone.*

*Though this is right next to our home, I am warned to not walk too close without fire retardant clothing on. But every time I ask, I am told we are safe!*

\*\*\*

*Recently, I requested the Town of Erie and Encana place a VRU on the site by my home. This request was declined because:*

- 1. It was too expensive*
- 2. And because the time of highest production had supposedly ended and the VRU would not help*

*However, according the Production Logs on the COGCC website, for "Vessels Minerals", production has certainly not subsided. In fact, in some instances it appears to have remained steady or increased.*

\*\*\*

*Everything I know, I have been forced to learn on my own. The lack of information and transparency the Industry is entitled to is unacceptable.*

*With all due respect, I also believe the contradicting authority given to the COGCC is unethical and reveals the lack of protection the State of Colorado is providing for my family. You cannot promote the development of OG and also be commissioned to protect my children.*

*I believe you need to act immediately. I also believe the following needs to be done:*

- Comprehensive, health impact studies are conducted*
- Physicians are educated on chemicals in use and how to recognize and treat residents in need*
- First responders are trained and equipped*
- The COGCC has an adequate number of investigators*
- All setback loopholes are closed*
- Full disclosure is required and health investigation requests are mandatory*

*Right now we should also be asking these questions:*

- Why are so many people complaining of health concerns?*
- Why are our first responders not equipped?*
- Why are our procedures for investigating concerns so inadequate?*
- What is not the safe distance for drilling to avoid noise and light, but what is the safe distance to avoid the utilization of the death benefit?*

\*\*\*

*There are a lot of experts in this room. Experts in geology, environmental issues and law. I am an Expert at living next to a well. I would venture to say that there are few people in this room who have logged as many hours as I have, near an active well site. Roughly 96, 360 hours.*

*I want to state some language that it rarely used in this setting but I felt it was important:*

*Jeremiah 9 says:*

*"Let not a wise man speak with pride about his wisdom.*

*Let not the strong man speak with pride about his strength.*

*And let not a rich man speak with pride about his riches.*

*But let him who speaks with pride speak about this, that he understands and knows Me, that I am the Lord who shows loving-kindness and does what is fair and right and good on earth."*

*History is our greatest teacher and history does not lie. What will history say about and the decision you're making? Will you do what is Fair and Right and Good? Will you rise to this occasion? Will you remember me and my kids and what I told you?*

*Tonight when you lay down to sleep and put your kids to bed. I want you to remember me. And what I'll be doing. I'll be holding a 10 year old boy, whose muscles are exhausted from twitching all day, who is likely crying again asking "why me, how did this happen?" I will hold him all night, because even after he falls asleep, his body will still twitch.*

*I believe we have been exposed for too long, unaware. But you can make a difference and assure other families are protected.*

*I understand that no one in this room can say for sure that our health issues are related to OG operations. But I also know, that no one can say for sure, that they are not.*

*Thank you very much for allowing me to speak.*

*\*\*\**

*Stats:*

*From 2002-2005 we lived 759ft from a newly fracked well site, 735ft from an existing well site, 388ft from yet another shut in well, and only 383ft from multiple open evaporation pits.*

*From 2005 to today, we live in the same neighborhood but in a new home. In addition to the sites mentioned above, our current home is 531ft from 5 wells heads, 437 ft from condensate tanks and 333ft from 2 separators and a BTEX burner. The most recent well was fractured and completed in early 2011 and the BTEX Burner and Separators arrived at this time.*

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Broomfield City Council- I am new to the Broomfield area (Anthem Community). I have three young Children that attend a nearby school where Fracking is being discussed. I am in no way an expert on Fracking, but I feel I have done enough research to know that there are plenty of studies done that show that Fracking can be a huge health risk to our community. I understand that this is a very lucrative business, and our State is very conflicted on coming down hard on Fracking due to the money that can be used as revenue. What is the end result? For my neighbors and I, the end result is the health of our kids and others around. Thank you for your time.

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Subject: Moratorium on Fracking

Dear city council members, last night Anthem Highlands and other concerned Broomfield residents had the pleasure of listening to a presentation by a very educated man, Phil Doe. I have attached an article he

wrote which also sites studies that have been done on the detrimental effects of fracking. I hope you will take the time to read it before the study session tonight. Thank you.

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Subject: Implement a moratorium please

Council members,

Last night we held a forum in the blinding snow to which 60+ people showed up. Unfortunately, our main presenters were delayed for over an hour in the snow, but as a testament to their commitment to education, they braved it and were able to speak with Q&A for over an hour (about half of which we video-taped). We will send you the video of their portion of last night's program and will invite them back in the future, when hopefully they won't be taking their lives into their hands to meet with us.

We appreciate the study session tonight and will see you there.

Below is a link to an article written by one of our speakers from last night.

Thank you for listening to us.

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Subject: Fwd: Air emissions near fracking sites may pose health risk, study shows; sites contain hydrocarbons including benzene

Please look at this study as an example of why you should order a moratorium on Broomfield fracking. It is common sense!

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Subject: Air emissions near fracking sites may pose health risk, study shows; sites contain hydrocarbons including benzene

<http://www.sciencedaily.com/releases/2012/03/120319095008.htm>

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Subject: Don't Frack Broomfield

Dear City Council Members,

I'd like to ask you to please place an immediate moratorium on all Fracking in Broomfield AT LEAST until further studies have been done and tighter regulations are in place. It just doesn't make sense why these wells should be allowed SO CLOSE to homes and schools!!

Thank you for your time.

---

Subject: Please—No More Fracking In Our Lovely Community

Dear Broomfield City Council,

I strongly urge you to vote against fracking in the City and County of Broomfield. The risks to our health and to our precious water supply should absolutely be considered above the profits of big business. While it may be reasonable to allow these companies to extract the gas and oil beneath our land, it's possible for them to do it in a safer manner. Let them find another way.

Broomfield is a beautiful and desirable community and fracking will absolutely change that. Property values will decrease because a more informed public doesn't want to live near the health hazards in areas where fracking is permitted. A drive through Weld county and a comparison of property values to Broomfield County, both residential and commercial, will back this up. Revenue gains from permits issued today will greatly impact revenue for residential and commercial development for years to come.

This is a list of chemicals typically used in tracking: <http://fracfocus.org/chemical-use/what-chemicals-are-used>

Do we want to risk these chemical seeping into our water supply?

This article states that over 80 percent of the fluids used in fracking pose a major health risk: [http://mtstandard.com/news/opinion/prof-says-fracking-has-sordid-track-record/article\\_da56c848-9f35-11e2-aab5-001a4bcf887a.html](http://mtstandard.com/news/opinion/prof-says-fracking-has-sordid-track-record/article_da56c848-9f35-11e2-aab5-001a4bcf887a.html)

Your vote in favor of healthy and safety of the residents of Broomfield will be appreciated for generations to come.

Wishing You Beauty and Health in Every Day,

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Subject: Please Don't Frack Broomfield - It is our Home

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Subject: Moratorium

I respectfully request a moratorium on fracking in Broomfield so that we can thoroughly review this issue and determine our stance on the issue. We live within a one mile radius of the proposed fracking site.

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City Councilmembers:

Thank you for your pursuit for fact in this debate on fracking. Tonight's study session was very helpful to all of us. Your great speakers really hit at the core issues. This is a complicated issue with far more questions than answers, and tonight you took a vital step in doing exactly what we asked of you: educating yourselves on the risks and uncertainties that accompany this industrial process being considered in such close proximity to our residences. You engaged the right audience of expertise, listened, and drilled your experts with the tough questions well into the night (yes, drilled well into the night, pun intended). A great effort. Bravo.

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Dear City Council members and Mayor, I attended the city council study session last night. I wanted to thank you for asking the important questions and representing the people of your city. I was impressed with the discussion and the thought that was put into each question. You did a great job bringing the panel back to the point of each question when they struggled with words and strayed from giving a direct answer. It gives me and many others hope that our city council and mayor will do what is best for the people of Broomfield. Thank you for enduring such a long session to better understand the issue. Much appreciated.

---

Dear Broomfield City Council Members,

I want to take a moment to say thank you for taking the time to listen to the Broomfield residences who are very concern about the Fracking issues and hosted the Case Study session last night. I think it is a good start for all of us. I am wondering if it is possible to add another topics for the next Case Study.

- Home Value Impact? Will Fracking implemented nearby homes (350 ft to 500 ft to 1000 ft) hurt the Broomfield homes value? We all know that people will not buy homes in Broomfield that are near Fracking factories. Are there any case studies on this?
  - Home Insurance: Is there any requirement for home owners to increase their Home Insurance if Fracking are posted nearby? Coverage for Broad Risk form or special form insurance excludes the types of property damage associated with the drilling lifecycle such as air pollution, water well contamination and earth movement and other risky commercial activity performed on residential property?
  - Are there any lawsuits on Fracking that we need to aware of?
- Hopefully you all will take these items into considerations for the next case study.
- 

Subject: Scientist concern about Fracking near Prospect Ridge school and Anthem communities

Dear Mayor Quinn and Broomfield council members,

I was recently made aware of the proposed plan to allow 2 hydraulic fracking drilling sites near Prospect Ridge Academy School and the growing communities of Anthem Highlands and Anthem Ranch

I am writing to you both as a resident of Anthem Highland and also as a scientist with close to 20 years of experience in cancer research. I am deeply concern by the close proximity of these proposed drilling sites to an elementary school and to such a high density residential area.

Though the health risk associated with exposure to fracking activities remain unclear and a controversy topic, it is well known and documented that prolong exposure to significant concentration of certain hydrocarbons leads to cancer, autoimmune diseases and other health issues. This is particularly of concern to children, the elderly and people with existing health conditions. These hydrocarbons could be released in significant concentration from fracking operation resulting in significant exposure to the studies of Prospect Ridge Academy School and residents of Anthem Highlands and Ranch.

It may well be that long term scientific studies may find minimal health risk associated exposure to fracking operation. On the other hand, it may not. We do know that close proximity and exposure to certain hydrocarbons will lead to cancer and is a health risk.

Hence, prudence suggests that one take a conservative approach and out of an abundance of caution, minimize exposure to hydrocarbons and keep fracking drilling sites away from schools, playgrounds and residential areas.

An example that I would highlight to you is the circumstances surrounding asbestos and mesothelioma, a form of cancer known to be caused by exposure to asbestos. As you know asbestos was used widely in the latter half of the 20th century. However, the health hazards of asbestos was not known until the last 25 years, after countless people exposed to asbestos developed and died from mesothelioma and other forms of cancer.

Will this also happen with exposure to fracking operation? We don't know but do we want to have the children and residents of Broomfield take that risk? Do you want Broomfield residents be guinea pigs like residents of Weld County?

In closing, I would request that Council consider and take whatever legally appropriate actions to keep fracking drilling sites away from schools, playgrounds and residential neighbors.

Thank you for your consideration.

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Thank you for hosting the study session last night. Those of us who were there learned a lot and appreciated hearing your thoughtful questions. It is obvious that you are attempting to learn as quickly as we are about what is at stake and also, what we are asking for.

Significant questions were raised last night and we look forward to working through them in preparation for the Town Hall meeting.

I'm presenting at a meeting at Anthem Ranch this evening to further develop awareness in the community. I will give them an update on what was discussed last night and will reflect council's consideration of this issue.

Again, thank you for listening.

---

Subject: Request for Moratorium

To Whom It May Concern:

We write to request a moratorium on fracking in Broomfield. The proposal for the addition of eleven new oil and gas wells are at sites within 0.5 miles of Prospect Ridge Academy School. After researching the process of fracking and attending a meeting where testimonials from people who have lived near wells and experts provided detailed information about the health issues caused by fracking, we are even more disturbed that the proposal exists to add wells so close to a school and neighborhood. We hereby request a time out on fracking in Broomfield - no more permits PLEASE!!!! Again, we feel strongly enough about this that if passed, we may be forced to cancel our kids' enrollment in a school we have been very pleased with. This passing will create havoc in many families' lives. Please halt the fracking.

Thank you in advance for your time and consideration.

---

Subject: Ozone levels impact health

Dear Mayor and Council Members,

I wanted to share this article with you regarding Ozone levels and their effects on health. It also states that the higher ozone levels are due to increased gas and oil drilling. I'm not sure that natural gas production can really be touted as clean energy when emissions are creating levels of ozone that cause health problems. Something is not adding up.

[http://trib.com/business/energy/study-sublette-county-ozone-spikes-drove-more-people-to-doctors/article\\_07a1531f-9dfb-5b00-8348-6ac12b97d0ab.html](http://trib.com/business/energy/study-sublette-county-ozone-spikes-drove-more-people-to-doctors/article_07a1531f-9dfb-5b00-8348-6ac12b97d0ab.html)

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Subject: Appeals process for zoning decisions

Hello Dave and Diana,

Can you please send me the appeals process for zoning board decisions? My understanding is that there is a 30 day window and we would like to investigate this option. I was not able to find details on the website after a 15 minute search so hope you will be able to provide this information more quickly.

Thank you,

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What I ultimately want is a resolution to the problem of heavy industry using unsafe practices near schools and homes, anyone's schools and homes, and assurances that my health and safety won't be compromised by remaining in my home in Broomfield. Stricter regulations and stringent enforcement of them are absolutely part of the solution.

An interesting radio interview by the author of a book about Ciba-Geigy's pollution of Tom's River, NJ is linked to below. It is worth listening to as perhaps an interesting parallel to the situation we face in the country today with fracking near communities. Scientists were eventually able to draw a link between the childhood cancers and the air and water pollution faced in Tom's River. I imagine the early evidence was 'inconclusive' as we heard on Tuesday night. The author's closing comments are something like: "I don't care what the companies claim. The questions are: Are the regulations in place and adequate? And, "Are the regulations being enforced vigorously?" In the case of fracking, the regulations are scant and clearly enforcement is an issue with minimal inspectors covering 50k active wells. This doesn't even include inspection of another 50k capped wells.

We are in the process of reviewing details of Boulder's solution and also speaking with Boulder activists who opposed it to get both sides of the story.

It is hard to say whether a permanent moratorium would pass but it has passed elsewhere when the odds were against it. It is an issue that seems to cut across party lines so I think it has a good chance and is worth pursuing to preserve our community.

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I don't know if Hydraulic Fracturing is awesome or awful. I recognize that it's a major source of income and it has kept our gas prices down. I also know that one side of the argument, (Josh Fox) has exploited

and misrepresented the truth to support his agenda and the opposition (Fracknation) downplayed legitimate concerns. It just seems to me that there are a lot of questions about Fracking and to potentially expose children to it when we won't know until it's too late seems awfully foolish. I have a child at PRA, I'm a pretty conservative person and laugh when people talk about evil oil companies. This just seems like there is too much unknown and I hope the proposed wells in the area can be a safe distance (assuming there is something unsafe) away from PRA. I'm sure the schools near the fertilizer plant in West, Texas thought they'd be fine and would have nothing to worry about. The difference here is it won't be one big explosion when everyone is at home, it might be years of exposure. This debate has become incredibly political and the loudest voices opposed have no science background and those for have a strong financial stake in the process. It's hard to find the truth in that mess. Please reconsider drilling near a school when we have so much open land in Colorado.

---

Subject: Do not Frack in Broomfield

To whom it may concern,

My name is \_\_\_\_\_, and I am a concerned mother of five children. I recently found out about the proposed plans to drill near Prospect Ridge Academy, (160th and Sheridan), the wonderful school my children attend. I am deeply concerned about the proximity to my their school (approximately 1/2 mile) as well as to my home (approximately 1 mile away).

At the very least, I am requesting that a moratorium be implemented until the oil and gas companies can prove that our children will not suffer adverse side effects either in the short term or long run.

Thank you in advance for your help in making sure our children stay safe. Please call 303-717-0815 or email tleopold3@gmail.com with any questions and/or to discuss the issue further.

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Subject: Request for Moratorium

To Whom It May Concern:

We write again to request an immediate moratorium on fracking in Broomfield. The proposal for the addition of eleven new oil and gas wells are at sites within 0.5 miles of Prospect Ridge Academy School. After researching the process of fracking and attending a meeting where testimonials from people who have lived near wells and experts provided detailed information about the health issues caused by fracking, we are even more disturbed that the proposal exists to add wells so close to a school and neighborhood. We hereby request a time out on fracking in Broomfield - no more permits PLEASE!!!! Again, we feel strongly enough about this that if passed, we may be forced to cancel our kids' enrollment in a school we have been very pleased with. This passing will create havoc in many families' lives. How can the almighty dollar trump the health and well-being of our children? Please halt the fracking.

Thank you in advance for your time and consideration.

---

Subject: Fracking in Broomfield

Great job, Broomfield. You are potentially impacting the health of hundreds of children at PRA and vista ridge, along with all the neighborhoods. Cracking is NOT safe. The aftermath of drilling could hurt my child. The pollution potential outweighs the money in broomfield's pocket. The taxes here are exorbitantly high already, you get revenue from the mall, the community is growing, yet political gain and greed drive the decision to potentially harm the lives of your constituents. Please don't approve the 11 new wells. I love my son, I love his school, and it seems that Broomfield, again, is anti-community. I can't believe these wells are even a consideration.

---

Subject: Who's trying to frack in our town?

Dear Mayor and City Council,

I attended the town hall on Wednesday in my neighborhood, Anthem. I questioned Sovereign's inspection report record (on the COGCC website for anyone to see).

A recap of their record (you can find the actual record attached):

51% are "unsatisfactory"

24% are "violations"

And only 25% are "Satisfactory"

Let me ask you this: If you did your job unsatisfactorily 75% of the time, would you still have a job?

After telling me they did not believe that record, I showed them the report I printed directly from the COGCC website to prove my facts. They then backtracked saying that they were probably minor infractions. But just what IS a minor infraction when it comes to a heavy industrial activity around our homes, schools, and places of business? Minor violations and excuses aside, this shows a serious inattentiveness and carelessness on their part.

Is this the type of company we want fracking in our neighborhoods?

Please enact an immediate moratorium on fracking in Broomfield and keep our community safe.

SOVEREIGN\_INSPECTIONREPORT-01 - Windows Photo Viewer

File Print E-mail Burn Open

### COGIS - Inspection/Incident Inquiry

You requested : Inspection Information  
 Operator name: Sovereign  
 Maximum records are limited to: 1000

**New Inspection Search Results - 51 record(s) returned.**

Inspection Date	Doc #	Location ID	Insp. API #	Insp. Status	Overall Inspection Status	Overall I.R. Pass/Fail	Overall F.R. Pass/Fail	Violation (Y/N)
02/19/2013	<a href="#">668700465</a>	409423	123-19631	AL	Satisfactory		Pass	N
02/19/2013	<a href="#">668700468</a>	404436	121-10630	DA	Satisfactory		Pass	N
02/06/2013	<a href="#">668700466</a>	377375	001-09398	DA	Satisfactory		Pass	N
02/06/2013	<a href="#">668700467</a>	377387	001-09418	DA	Satisfactory		Pass	N
12/12/2012	<a href="#">600000013</a>	321197	009-06651	TA	Satisfactory	Pass		N
12/12/2012	<a href="#">600000014</a>	320999	009-06146	PR	Unsatisfactory	Pass		N
12/12/2012	<a href="#">600000015</a>	320995	009-06131	PR	Satisfactory	Pass		N
12/12/2012	<a href="#">600000018</a>	321013	009-06192	PR	Unsatisfactory	Pass		N
12/12/2012	<a href="#">600000019</a>	321016	009-06207	PR	Unsatisfactory	Pass		N
11/13/2012	<a href="#">663901946</a>	321190	009-06644	TA	Unsatisfactory	Pass		N
11/13/2012	<a href="#">663901947</a>	320986	009-06098	PR	Unsatisfactory	Pass		N
11/13/2012	<a href="#">663901948</a>	321195	009-06649	PR	Satisfactory	Pass		N
11/13/2012	<a href="#">663901949</a>	321194	008-08648	SI	Violation	Pass		Y
11/13/2012	<a href="#">663901952</a>	321199	009-06653	SI	Unsatisfactory			N
11/13/2012	<a href="#">663901953</a>	321002	009-06159	TA	Unsatisfactory	Fail		N
11/13/2012	<a href="#">663901954</a>	321083	009-06398	TA	Unsatisfactory	Pass		N
11/13/2012	<a href="#">663901955</a>	320987	009-06099	PA	Unsatisfactory		Fail	N

2:43 PM 5/24/2013

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Do not let fracturing for oil occur near PRA or the homes near there. You owe it to your citizens to get the true health and environmental effects. Please do not let the drilling co. go forward with their plans.

---

Subject: Don't Frack Broomfield

I have 2 children attending Prospect Ridge Academy in Broomfield. I recently became aware that fracking plans were in the works within ½ mile from the school. This is extremely disturbing to us. We are a healthy family! We work very hard to go out of our way, and spend extra money to eat NON-GMO and Organic Foods as often as we possibly can. We don't smoke and workout regularly to keep our bodies

clean and strong. I plan on objecting to fracturing whenever possible when it is close to where we live and work and go to school.

So many children would be affected by fracturing so close to the school. I have read studies showing that within 1 mile of the site people and animals are severely affected by the chemicals used in the process. Walking and playing on the grounds nearby and simply breathing the air has adverse affects on living things!

Please don't allow this.

---

Do not let fracturing for oil occur near PRA or the homes near there. You owe it to your citizens to get the true health and environmental effects. Please do not let the drilling co. go forward with their plans.

Dear City Council,

I have 2 children at PRA and I seriously object to fracking as a practice, and certainly cannot understand why it is allowed near populated areas, and children. Schools cannot be located too close to airports and other potential dangers, yet fracking is somehow okay. Probably because it's easier and generates more oil and more money in a faster manner. When are we, as a society, going to use a moral compass that is grounded in reasonable choices? I don't need a whole lot of scientific proof to tell me this is wrong, for the environment and for any living creatures.

I see this issue as part of two bigger issues -- our dependency on oil as a country, and our willingness to "bend the rules" and take risks when money is involved. Changing these thing means pushing back, saying no, and forcing change one region at a time.

I had recently been looking in Anthem and other communities in Broomfield to purchase a home. I now live in Erie and will postpone any plans to move into Broomfield until this issue is resolved.

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Subject: Fracking in Broomfield

I am writing to express my growing concern regarding the movement to frack well's in Broomfield. We live in Wildgrass and two of our three children attend PRA. Based on my recent research I strongly urge the city of Broomfield not to allow any fracking in our neighborhoods. In fact I am shocked that this is even a consideration, and that it has become necessary for the community to have to write letter's to request a moratorium. Please consider not only the negative effect on real estate but also the health and wellness of the children in the Broomfield community.

Thank You

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To whom it may concern,

I am writing this in regards to a major concern regarding the potential fracking that is planned near my children's school, Prospect Ridge Academy. As a taxpayer and resident of Broomfield, I am very concerned about the risks that will be imposed on my children's health if this is allowed. As I am certain that you too are parents, I hope you will make the ethical and moral decision by NOT allowing this to

occur and ensure that the safety and health of all the students and staff of PRA remain the number one priority.

---

Subject: FRACKING IN BROOMFIELD

Dear City Council;

As a resident living near the 31 new wells being proposed, I urge you to please put a moratorium on this immediately. This is too important to rush this through without a through vetting. Thank you.

April 18, 2013

Mayor Patrick Quinn  
14051 Cortez Ct.  
Broomfield, CO 80020

Broomfield City Council  
One DesCombes Drive  
Broomfield, CO 80020

CITY AND COUNTY MANAGER  
BROOMFIELD, COLORADO  
- 2113

Dear Mayor and City Council:

My name is Asher Lee and I am eight years old and live in Broomfield. I have two dogs and I am very worried that they are going to get poisoned by the fracking. Fracking also pollutes the air and it can destroy the environment easily.

Therefore, we should not allow fracking in Broomfield.

Thank you for reading my letter.

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Subject: Air Quality and Fracking

Broomfield City Council - I want to thank you for conducting the study session on natural gas fracking wells on Tuesday, April 16. I left the event believing that the Broomfield City Council wants to do what is right for the citizens of Broomfield. It was reassuring to hear the critical questions that you leveled at the presenters. Mayor Quinn is right, "This is a belt and suspenders issue."

There are a few issues that bother me about the air quality debate:

- There are no EPA ambient air standards to assess risk. Yet we know that benzene, ethylbenzene, toluene, and such airborne pollutants are generally hazards. Studies using tracer technology are planned and funded but we won't have results for several years.
- Gordon Pierce summarily dismissed, with vague justification, what seems to be a legitimate study from Lisa McKenzie at the Colorado School of Public Health. My concern is that pro-drilling opinions will continually poke doubt in the quality of any study as a delay tactic. The tobacco industry used the same tactic.
- Gordon Pierce continued his dismissing attitude in his response to Councilwoman Derda's comment about understanding the health risk of wells placed near schools. He said, and I'm paraphrasing, "It would be too costly and time consuming and I don't see a benefit." This is cold

calculation from someone who is absolutely convinced he is right. Mark Twain said, "It ain't what you don't know that gets you into trouble. It's what you know for sure that just ain't so."

- Sovereign, which presented to the Anthem PCC on the following Wed night, pointed to the fact that there are wells in Boulder County directly to the west of Anthem as evidence that fracking has no impact on air quality. In other words, anecdotal evidence is fine on its side of the argument but scientific evidence is "poor research" on the side of the opposition.

I want to believe that Sovereign is an upstanding industry citizen using good safety practices as we understand them today. The fact remains that there is much we don't know. The fact remains that there are good well builders and bad well builders and we don't know who will next come knocking. The fact remains that we're dealing with heavy industry that employs carcinogenic chemicals in its industrial practices. We don't want this much uncertainty in our neighborhoods.

This is your Broomfield. This is our Broomfield. Please do what you can to keep Broomfield the safe and healthy community our children expect from us.

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Subject: Opposition to Fracking in Broomfield

Dear Sirs and Madams-

I am writing to let you know my extreme opposition to the current fracking plans being proposed within the city and county of Broomfield.

I am a homeowner and parent in the Wildgrass subdivision, and understand there are plans to allow more fracking to begin in the area close to the north, near the Anthem subdivision and surrounding the Prospect Ridge Academy charter school. I know many people and children that will be directly affected by this, not to mention the associated industrial activity and pollution sure to come with it in an area cherished for its views and nature and peaceful living.

I find it alarming that this is even seriously being considered, given the very obvious health risks and well established track record of the oil & gas industry to not prioritize health and safety issues of innocent families before their extraction operations. How does this even make sense anywhere near a future planned large reservoir and right next to large scale residential divisions?

One of the things we liked about Broomfield when we moved here originally was the sound civil planning going on relative to neighboring cities; this issue stands in stark contrast. I almost never get involved in political discussions or actions other than through my votes; however this is concerning enough to me that I would consider relocating my family elsewhere. Going forward, I would actively and vocally oppose any political representative that feels this is an appropriate action for Broomfield to consider. I don't understand how any rational person could conclude this is a good idea after examining even the most basic of facts surrounding the issues of fracking.

In summary, please do not allow any further expansion of fracking operations within Broomfield, and especially not anywhere near where our children live and breathe daily.

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Subject: Request for Moratorium - Broomfield

To Whom It May Concern:

We write again to request an immediate moratorium on fracking in Broomfield. The proposal for the addition of eleven new oil and gas wells are at sites within 0.5 miles of Prospect Ridge Academy School. The more research we conduct and the more informative meetings we attend, the more concerned we are about having the fracking take place so close to our kids' school. We have not seen ANY information or studies to prove that the fracking is NOT harmful to people in the surrounding areas. However, we have seen plenty of proof that it IS very harmful to people's health. This is all very disturbing and has taken a lot of time out of our already busy schedules to educate ourselves with the truth rather than rely on the deception provided by oil and gas companies, but we will continue to fight against this for the sake of our children.

We hereby request a time out on fracking in Broomfield - no more permits PLEASE!!!! Again, we feel strongly enough about this that if passed, we may be forced to cancel our kids' enrollment in a school we have been very pleased with. This passing will create havoc in many families' lives. We never would have enrolled our child in the school had we known this fracking proposal would arise so close to the school.

How can the almighty dollar trump the health and well-being of our children? Please halt the fracking.

Thank you in advance for your time and consideration.

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Subject: Fracking in Broomfield.

I believe that fracking is a very safe operation from the research I've done on it. There doesn't seem to be any hard evidence that ground water has ever been affected by the process in the decades that it has been in use, provided that the bore hole is properly cased and cemented. The company proposing the operations, Sovereign, Has a fantastic safety record, and should be relied on to preform the operations safely, and without any danger to Broomfield residents, or workers employed by them. They certainly don't want to be sued over operations that they know can, and have been done safely. They certainly do not want their great safety record, and their spotless reputation marked by any negligent operations, just to save a few bucks. I feel secure that they will do a great job, and in the process bring the City and County of Broomfield much needed revenue, and jobs.

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Dearest City Council,

I write to you as a father, husband, and homeowner in the Anthem Community. I actually live within the claimed "cancer" zone of the proposed wells by Sovereign. I urge you to consider the facts and not the negative hype and fear being caused by Don't Frack Broomfield. I am in the industry and am active everyday in the drilling and completing of wells. I understand the risks involved more than most people and do not see any reason to prevent any company from protecting their rights to drill in my backyard. I am a husband and father above my career and devotion to the industry and feel completely safe with my children playing and sleeping within 1/2 mile of the proposed wells.

I've been listening to the community and most residence who initially sided with the Fractivist, have since changed their minds. Most, however, don't care enough about the topic to write letters or attend city council meetings. A group of industry professionals that live in the community (including myself), provided a crash course and answered many questions about oil and gas this past weekend. Unfortunately, we had only 13 participants. We are trying to get another meeting scheduled with the neighborhood residents who are associated with Don't Frack Broomfield very soon. The few that were

there, were generally surprised about how safe and regulated our industry is. I believe that a few have changed their position. When we asked why other members of Don't Frack Broomfield, including the most vocal, did not attend, the response was that they didn't feel we could provide an unbiased account of the industry. This is the most absurd comment, I've heard. We are absolutely 100% more biased towards the safety and well being of our families. I feel that this goes to show you that these people are activists and not interested in hearing any other side besides their own.

Please do not let this loud minority prevent a great opportunity to the citizens of Broomfield and Colorado. I've seen first hand, what tax dollars from oil and gas wells can do for a community.

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Subject: Fracking in Broomfield

We would like to see a Moratorium on fracking in Broomfield. As tempting as the financial incentives are for it, we are much concerned about the high use of water, the non-transparency of all of the chemicals used and their effect on our neighborhoods and our children, and by the ugly structures make planted lovely neighborhoods, and our residential roads are being damaged by heavy truck traffic.

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I am writing to express great concern over the potential of fracking in Broomfield in such close proximity to homes and schools.

I am requesting that the City of Broomfield implement a moratorium until the City of Broomfield can prove with clarity and unbiased opinion that our children will not suffer adverse effects from the proposed fracking, particularly in such close proximity to Prospect Ridge Academy School.

Please let me know what I may personally be able to do to help elevate this concern with city staff and what steps I may personally be able to take in assisting city staff in obtaining unbiased opinions.

Thank you for taking time to sincerely address this great concern.

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There is, at the very least, ample reason to be cautious before approving additional permits.

Quoting the below article:

"Researchers say stronger legislation is essential. "It only takes 30 or 40 hours to complete fracking," says Colborn. "But when you open that hole, you can have health problems for the next 30 to 40 years." In 2011, Colborn published a study examining 353 chemicals used in natural gas operations. She found that half can affect the kidneys or the cardiovascular, nervous or immune systems; 37 percent can affect hormones; and 25 percent are carcinogenic. Other research is exploring individual chemicals' effects. An October 2012 study by the D.C. nonprofit Earthworks tied benzene in fracking to headaches, dizziness and eye irritation; perchlorethylene to rashes and trembling; and carbon tetrachlorine to nausea and kidney disease. "Overall, we found a 60 percent correlation between exposure to chemicals and health problems," says co-author Nadia Steinzor.

"Cause and effect are the big questions," says Madelon Finkel, a public health professor at Weill Cornell Medical College in New York City. "The fracking boom is rather recent, but related health conditions can

take years to develop. We need better-designed, more comprehensive studies to assess long-term problems using statistical means."

"Nationwide, more than 250 communities have passed fracking bans and 35 states have created fracking regulations."

Please read it in its entirety for more information.

<http://womensenews.org/story/health/130419/fracking-natural-gas-fuels-health-worries#.UXqXM7Xktlw>

Additionally, any references to industry transparency through "Fracfocus.org" should be questioned. A look at the database yourself will show that much of the information is protected as 'proprietary.'

[http://www.denverpost.com/breakingnews/ci\\_23091371/colorado-fracking-database-questioned](http://www.denverpost.com/breakingnews/ci_23091371/colorado-fracking-database-questioned)

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Subject: Fracking Moratorium

Dear Broomfield City Council Members -

We are concerned residents of Broomfield who are urging the City Council to impose a moratorium on tracking in Broomfield. We live in the Wildgrass subdivision, spend a great deal each year on our property taxes (among the highest in the state) and send our children to Broomfield schools. We love this city and are proud residents.

As an aside, we are strong conservative Republicans, small business owners and are far from wild-eyed environmentalists.

However, fracking is a bad idea for Broomfield and, especially, our children.

Why? Benzene causes leukemia. The process of fracking pollutes our water. Dibromacetonitrile - lachrymator is corrosive and toxic. The list goes on and on. No one should be exposed to these compounds, especially children. Children, including our own daughter who attends PRA, would be exposed on a daily basis.

What are the benefits? Revenue for the city? Revenue for the companies who do the fracking? It's not worth it. In a day and age when our children are exposed to many horrific elements in their lives, can't we at least protect their lungs, their health and their futures?

We moved to Broomfield SPECIFICALLY because we wanted a safe place to raise our children. Don't be the city council that allows our dreams to be compromised. We'll consider a move out of Broomfield, and - trust us - based on many conversations with neighbors and colleagues - we'll be following many others who are already planning to flee the city if this moves forward. Two steps forward, 20 steps back. Is that what you want for Broomfield?

We sincerely hope you'll impose the moratorium.

---

Dear Broomfield Council,

I am writing as a concerned resident of Wildgrass and parent of children who attend Prospect Ridge Academy over the fracking sites proposed on the property known as North Park. This is a highly debated

and political topic that demands more attention, research and empirical data before an approval can be provided.

Rather than continually taking the 'safe' feedback from the lobbyist at the COGA, we should be looking at other cities, municipalities and states that have taken action. Nationwide, more than 250 communities have passed fracking bans and 35 states have created fracking regulations.

Every week my wife and I read about additional concerns with regard to fracking, including states that are banning fracking, cities that are banning fracking, and even a country that has banned fracking. If this is so safe why are such large communities of people and their leaders unable to see this, and instead banning the process? Shouldn't Broomfield wait for more factual information from the EPA, instead of putting our children, families, and agriculture at risk? What are the pros and cons of waiting?

Has Broomfield taken air, water and soil samples of that land that can be used as baselines should fracking be allowed? It's apparent that the oil and gas companies claim they are not the cause and that's because people are not taking the necessary preventative measures to counter such lack of accountability. What does the business model look like around these wells? Assuming that this is going to contribute some tax revenue to the city and county, but at what costs and where are the anticipated risks around that revenue?

Known Facts:

- The amount of traffic to the area will increase exponentially and will require semis carrying machines, hazardous materials and other infrastructure items in and out of the site. This traffic will place considerable wear on the roads and impact the already congested traffic patterns around the school.
- OSHA and the United States of America Department of Labor have listed a key material in the fracking process as a considerable risk. Under the state of Colorado's loose regulations, the oil and gas companies building the fracking sites do not have to disclose the chemical cocktail used. It's also documented that each well site requires a unique blend of hazardous fracking material. It should be pointed out that due to this alert, you will see very few oil and gas workers around a well once the fracking starts.

o Link to hazard alert: [http://www.osha.gov/dts/hazardalerts/hydraulic\\_frac\\_hazard\\_alert.html](http://www.osha.gov/dts/hazardalerts/hydraulic_frac_hazard_alert.html)

- The state of New York, via it's Governor, have placed a ban on the process due to the environmental and health impacts

- Parents will pull their children out of PRA and will need to be placed into the Broomfield public school system where student to teacher ratios are already reaching their maximum state limit.

- In May 2012, the US Department of the Interior unveiled preliminary rules requiring disclosure of chemicals. Industry lobbyists balked, and stated they are proprietary and cannot be disclosed.

It comes across wrong that the companies aren't willing to say they will comply with these laws. Is it they can't comply, which contradicts the safety of the process. There appears to be a significant oil lobby that wants the message to come out, that what is happening is totally safe. So why don't they agree to the clean water and air acts, and why shouldn't they come under the same mineral right regulations that apply to mining? While the public is waiting for the EPA data or other independent unadulterated evidence why is it necessary to frack in highly populated areas?

We, as Broomfield residents, and PRA parents ask that a moratorium be placed on the proposal to frack the area known as North Park, until further research and testing can be completed, disclosure of chemicals is required, and compliance with the clean air and water act are mandatory.

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Mayor and Council Members,

In regard to the defeat of House Bill 1275, I wanted to share this letter from Phillip Doe, who testified in favor of the bill recently.

Phillip Doe

What is the common curse of mankind? Folly and ignorance, observed an old English playwright. The curse was on uncommon display two weeks ago at the Colorado State Capitol in Denver.

I went there to testify in favor of a bill, House Bill 1275. It was a modest bill. It simply asked that data on Front-Range citizen complaints about fracking be collected and examined by an independent body of scientists and health professionals. A preliminary report on their findings was to be issued within a year. Presumably, this report would lead to an evaluation of the need for follow up studies to protect the public's health and well being, as it almost certainly would have, for the air is leaden with unexamined citizen complaints of ill health from living near fracking sites. The cost was earmarked at around \$300,000.

It belabors the point to remind readers, as several citizens did the legislators, that in a rational world we would investigate the health consequences of fracking on public health before we allowed the process to begin, but we don't live in a rational world as the following events clearly demonstrate.

Leading the charge for continued ignorance and the virtues of not knowing was Dr. Chris Urbina, Governor Hickenlooper's appointee that heads the Colorado Department of Public Health and the Environment. Urbina said, this proposed report—which he insisted on characterizing as a study—was too short, saying it might lead to premature, unfavorable judgment of the oil industry and that we must be cautious. Dr. Urbina failed to mention in his remarks that he also sits on the board of the Colorado Oil and Gas Conservation Commission (COGCC). The COGCC has the dual mission of promoting oil and gas development and protecting the public's health and the environment.

Following his criticism of the bill, Urbina turned to his young confederate, a staff toxicologist who explained, on cue, how important double-blind tests are to accuracy in scientific investigations. Unmentioned was that a double-blind study is also expensive, time-consuming and the most logistically difficult type of epidemiological study. Basically, the toxicologist argued, and I don't exaggerate, that we really couldn't trust knowing anything until we know everything. This argument is tantamount to arguing you shouldn't quit smoking cigarettes until you die from them, or something equally double-barreled and nonsensical. Even the Walrus understood it is better to start at the beginning, and this was to be a beginning.

Caution, sure. But the industry is drilling at least 3,000 new wells in Colorado annually with the likelihood that the annual average will increase substantially. Another 50,000 wells are already operative. And, each is spewing a variety of unmeasured chemical substances into the atmosphere, into the air we all breathe. Add to this that the industry is generating trillions of gallons of fracking wastewater of generally unknown toxic quality which is being re-injecting into the ground under the most primitive of oversight standards, with hundreds upon hundreds of significant spills being reported each year. Under these circumstances, you'd think some enterprising public health official might sound a small alarm.

Not this evening. Dr. Urbina's solution was to unveil a new plan, unvetted and unfunded, that might take, by his estimate, five years to complete. That's the equal of at least 21,000 new wells and trillions of gallons of dangerously corrupted fresh water that must be warehoused somewhere. Moreover, as someone has already observed such a plan would take at least seven years, if you factor in funding and review time.

So, make that at least 28,000 new wells. Even more oddly, Urbina's plan would focus on Garfield County, Colorado rather than on the Front Range as proposed in HB 1275. Garfield County is on the west slope and several studies have been conducted there already. But no studies have been conducted on the Front Range where drilling, like some form of crazy mutant kudzu, is starting to engulf community after community.

One of the Garfield County studies by the Colorado School of Public Health, had shown that even at distances of 2,700 feet from a well site, toxic chemicals were still detectable at levels that increase the chance of developing cancer by 66 percent based on published health standards. The county government, alarmed at the preliminary results, then defunded the study. This study figured prominently in New York Governor Cuomo's decision to initiate a moratorium on fracking in his state.

On top of that, the COGCC had tried to discredit the study because it was conducted in a rural setting and, therefore, was not really suitable as a basis for judging urban health impacts. We certainly can assume that Dr. Urbina, resident public health official on the COGCC, participated in rendering this head spinning criticism. It seems to stand for the crack-pot concept that the immunology of rural people is different than that of urban people.

But back to the hearing, several people asked for the bill to be expanded to collect health data from all areas of the state, since the issue of equal protection for those living in what are beginning to be regarded as energy colonies, if not outright oil and gas sacrifice zones, is starting to generate ethical concern from those still familiar with the concept.

Nevertheless, it was all for naught. Dr. Urbina, his toxicologist, and a swarm of oil and gas lobbyists held the field. The vote was 6-5, with one Democrat voting with the rock solid Republican minority who voted for industry jobs and profits over unproven concerns about public health. The Democrat, Dave Young, a second term representative from Weld County, the county with more than a third of the wells in the state, in a rather rambling and puzzling explanation of his vote, talked about his years as a science teacher of middle school children in Weld County and the need for compromise. Apparently, we should find in this an explanation for the low-five handshake I saw him give to an oil lobbyist as he exited down the committee room hallway.

Those speaking for the bill included the sponsor, Rep. Joann Ginal, a PhD endocrinologist. The other sponsor, a public health physician did not testify, but Boulder County public health officials did, as did a representative for the Colorado Medical Society. So too did a physician who heads a clinic in eastern Colorado.

Of the citizens from around the state testifying in favor of the bill, some had health and science backgrounds, one had headed the aborted Garfield County study, and still others, simply caught up in the maelstrom, had come to Denver hoping their elected representatives might listen to their personal stories. Instead, the majority greeted them with indifference.

The testimony of Rod Brueske, who I know personally, is illustrative of this indifference. He told how he'd moved to rural Boulder County, bought an old farmhouse to restore on the county's dedicated Open Space land, hoping to establish a home place to raise his family. Instead he's discovered his nearest neighbors are gas wells that constantly belch out vapors that are poisoning his family. His children have repeated nosebleeds and other health complications as a result.

Frustrated with the unwillingness of the COGCC to help him against what he considers a toxic trespass by the industry, he had blood tests performed and analyzed. The state does not and will not do citizen blood tests, just as it doesn't represent citizens even when it determines the industry has polluted their wells. Resolution of the injury is left to the landowner.

In fact, when a state inspector showed up as a result of an early Brueske complaint, she brought only her nose, which she claimed was trained to sniff out bad air. Her nose detected nothing.

Brueske family blood tests show elevated levels of toxins which are, given their rural home, likely associated with nearby oil and gas production.

Not one member of the committee asked him a question about the health of him or his family. Is that not indifference? Socializing the health costs to protect private profit is an old game in this country. But the oil and gas boys have brought it to new levels, as they own significant segments of both parties, thus insuring continued ignorance by design.

How much proof is going to be needed to protect people like the Brueskes? I don't know, but a recent lecture by Malcolm Gladwell, the author of Tipping Point among other books, may provide a partial answer. Gladwell wondered when the requirements for "proof just became another word for letting other people suffer." He pointed to the 50 years of shadow dancing by the coal industry and American medicine before admitting coal dust was causing black lung disease. By comparison, he said, the life insurance companies had raised life insurance rates on miners almost immediately based on personal data gathered in field surveys. HR 1275 was really about gathering a little field data.

The language of silence was palpable when HR 1275 was defeated. As people were filing out, one disgruntled citizen remarked that Urbina appeared to be such a profound mediocrity that he had a good chance to be the next governor. There was a general murmur of agreement.

Broomfield City Council  
One DesCombes Drive  
Broomfield, CO 80020

APR 29 2013

CITY AND COUNTY MANAGER  
BROOMFIELD, COLORADO

Dear Broomfield City Council Members,

I am a new Broomfield resident of 2 years. I have previously lived in Wyoming, Virginia, Texas, Arvada, Colorado and Westminster, Colorado. Of all the places I have lived, I enjoy Broomfield the most because of its "community feel". Broomfield residents really care about their community and their neighbors.

I am requesting that you place a moratorium on oil and gas drilling until an independent community impact study can be completed. That way, Broomfield citizens will be fully informed before voting on any fracking issues.

Please contact me at the below physical address or email address.

Sincerely,

Subject: Allow Frack in Broomfield

Council members:

The following are my comments about Fracking in Broomfield near Prospect Ridge Academy School:

1. Someone will get hurt with the parking on the street over at that school. Picking up kids in the afternoon is hazardous-The bike lane and parts of the road are blocked-I have noted a lot of inattentive drivers during the pickup and speeding away after getting the kids.

The addition of Fracking traffic, and all the new housing and construction traffic will only generate more issues until the traffic created during the picking up and dropping of students is addressed.

Why should local businesses be penalized for traffic generated by residents and non-Broomfield residents-especially as this school expands. They will want their construction to continue as the school adds facilities.

2. This present traffic situation is far riskier than doing Fracking.

3. Bad info on water is being presented-we use surface water

4. Air pollution from this business is less than the traffic around the school-especially in colder weather, when the car motors are running to heat them.

5. The owners and industry that provides this fuel to heat our homes, etc. has a right to work, and pay taxes to Broomfield

6. I lived in the Parachute area when gas drilling was going on, and the Natural Gas businesses were very anxious to work with the local residences to iron out issues.

7. As a Professional Engineer, with a Masters in Environmental Engineering, I see the long term environmental issues as not a problem from Fracking-I see more risks with the poor handling of all the dropping of students at this school as now done.

---

Subject: (From Wharton) The Natural Gas Boom: Cheap Energy, but at What Cost?

<http://knowledge.wharton.upenn.edu/article.cfm?articleid=3239>

Dear Broomfield City Council:

Here is an article on fracking that is published by Knowledge@Wharton. Its purpose is to distribute knowledge generated by The Wharton School into the public domain. I find the following points useful:

- John Deutch, an MIT professor and former head of the CIA, pointed out that for all the concern about drinking water contamination, the real environmental risk is not below ground but on the ground and above it. "There's no question that unconventional oil and gas production involves very serious environmental impacts on air quality, water quality, community and land use," he said. "When 16 wells are being drilled simultaneously [there] are legitimate questions that have to be addressed.
- There are at least one or two documented cases of fracking fluid finding its way into the water, according to Deutch, who chairs a group for the Department of Energy that is looking at environmental impacts. He said a much greater problem is poor well completion. "There are many such instances of those bad completions," he said. "That's where the attention needs to move, towards the companies that are doing it." Clark added that cases of water contamination from oil and gas drilling, regardless of whether there is fracking, are typically related to well design.
- Anas Alhajji, chief economist at NGP Energy Capital Management, said "...in the next year or two, there will be such a surplus of natural gas and crude oil that "we won't know what to do with it." We do not need wells next to residential housing, schools, and hospitals. We don't have enough inspectors to ensure proper well completion. And the country is about to have so much natural gas that "we don't know what to do with it."

Why must energy companies target Broomfield for their drilling operations?

## The Natural Gas Boom: Cheap Energy, but at What Cost?

The outlook for the U.S. energy market has improved dramatically in the last several years, with the country importing 90% less light sweet crude than it did a decade ago and cheap natural gas being produced in abundance. The change is due almost exclusively to advances in hydraulic fracturing, or fracking, the controversial practice of using water under high pressure to extract hydrocarbons from the earth.

Almost 90% of the wells being dug in the U.S. today are fracked, and the "shale revolution" has brought jobs and economic vitality to areas rich with shale. While some producers bemoan the low cost of natural gas, low-cost fuel has benefits for many other industries, and could help spur a manufacturing revival in the U.S. Yet fracking remains controversial because of concerns about the environment, particularly the possibility of water supplies being contaminated below ground.

Participants on the energy panel at the recent Wharton's Economic Summit 2013 in New York City agreed that the industry needs to strike a delicate balance between reaping the benefits of fracking while safeguarding the environment and addressing the needs and concerns of the communities affected by fracking.

The shale revolution's impact on the energy industry amounts to what William Klesse, CEO and chairman of Valero Energy Corp., calls a "huge opportunity for the U.S. in all the energy manufacturing businesses." He believes it already has had more impact on the industry than anything else in recent memory, including price controls and embargos.

Janet Clark, executive vice president and chief financial officer of Marathon Oil Corp., framed the issue not as a matter of "to frack or not to frack," but "how to do it responsibly in terms of impact on the community as well as impact on the environment, both air emissions as well as broad quality."

There are states that have opted not to frack, either banning it outright or putting a moratorium on it, pointed out Ann Harrison, a Wharton management professor, who moderated the panel. Klesse stated that communities have the right to know about the risks but must weigh them against the benefits. "New York [which has put a moratorium on fracking] is making a huge mistake," he said. "In Pennsylvania there are 100,000 jobs [that would otherwise not be there]. The oil and refining businesses are hiring people, generating jobs, paying taxes. This is a windfall for the U.S."

John Deutch, an MIT professor and former head of the CIA, pointed out that for all the concern about drinking water contamination, the real environmental risk is not below ground but on the ground and above it. "There's no question that unconventional oil and gas production involves very serious environmental impacts on air quality, water quality, community and land use," he said. "When 16 wells are being drilled simultaneously [there] are legitimate questions that have to be addressed, especially if the country is going to have the benefits of hundreds of thousands of these wells in operation across all of the U.S."

He said the regulatory structure for private lands was inadequate, with mixed federal and state responsibility. "It's simply not going all that well," he said. "I am a great advocate of seeing the industry do more and stepping out ahead of this problem, and trying to convince the public that the right balance is being struck." He recommended a three-pronged approach: measuring the environmental impact; reporting those measurements publicly; and making the commitment to reduce those impacts over time.

Clark spoke of some of the actions Marathon has been taking. "We, as an industry, have to do what we can to lessen the negative impact on the community," she said. "We do try to do a lot of

things -- making donations to the local hospitals so that they can expand, and being a good community partner in terms of lots of not-for-profit opportunities." Like Klesse, she stressed the economic benefits, talking about how towns have been completely revitalized. "There is no question this boom is driving great economic growth at a time where our country could really use a bit of a jumpstart," she said.

#### Evidence of Degradation

Harrison asked about actual evidence on possible health or environmental effects, raising the possibility that there may be none at all.

There are at least one or two documented cases of fracking fluid finding its way into the water, according to Deutch, who chairs a group for the Department of Energy that is looking at environmental impacts. He said a much greater problem is poor well completion. "There are many such instances of those bad completions," he said. "That's where the attention needs to move, towards the companies that are doing it." Clark added that cases of water contamination from oil and gas drilling, regardless of whether there is fracking, are typically related to well design.

The potential benefits of the shale revolution go beyond economics. Harrison quoted a report from McKinsey noting that fracturing technology has the potential to make the U.S. a net exporter of not only natural gas, but also crude, by 2025. "The U.S. can become completely energy independent if this technology is used more extensively," she said.

Anas Alhajji, chief economist at NGP Energy Capital Management, said people must be careful not to confuse being a net exporter with being energy independent. It's possible that North America could become energy independent, but that goal will be hard to meet because the quality of the crude doesn't match the current refining abilities. To become energy independent, new infrastructure is needed that will support the refinement of the crude being produced into a higher quality, and regulations restricting natural gas exports should be amended.

Alhajji said that in the next year or two, there will be such a surplus of natural gas and crude oil that "we won't know what to do with it. We have to remember that we cannot export crude oil by law." Manufacturers, who of course can export what they are able to produce with cheap labor, will be the primary beneficiaries of cheap gas prices unless the laws change. "We are going to have serious problems, and we are hoping that the administration will allow crude oil exports, at least to Mexico, because that's going to relieve some of the pressure on the market," he said.

The role of the government in the shale revolution has been overstated, he believes. "This did not result from government policy to start thinking about energy independence," he said. This revolution was caused by independent small- and mid-sized companies, and everyone else came in late to the game." Government's role in the shale revolution going forward was discussed, with agreement on the need for free trade and less time-consuming permit procedures.

#### A Delay for Green Energy?

The notion that the shale gas revolution will delay the shift to a green energy future, which Deutch has written about, was dismissed by several other panelists. Clark pointed out that natural gas, which has a lower carbon footprint, is displacing coal in the electrical power industry. "I see that as a positive," she said. "Natural gas can be an important transportation fuel, but that's going to take a little bit longer because of the infrastructure that's required and the consumer acceptance of it." She said a number of companies and municipalities that have central facilities for refueling are moving in that direction, displacing the more carbon-intensive oil and diesel.

Renewable energy sources, specifically solar and wind, are already benefiting from gas in several ways, according to Alhajji. Both solar and wind are intermittent fuel sources, and gas can be used as backup power when necessary.

The idea of moving entirely away from all fossil-fuel consumption is not practical, according to Clark. "How much additional cost can our economy absorb today to subsidize carbon-free fuels?" she asked. "We won't leave the hydrocarbon age because we ran out of oil and gas; we'll leave it when we have a better fuel that is scalable, that's secure and that is economically affordable."

"There is no question that climate change and global warming are issues, but you cannot ruin the economy to address them," Kleese said. "We're in these businesses and we are driven by economics. I can tell you that in my opinion all of these alternatives are not economic against natural gas."

Deutch cautioned people to consider the long-term effect of delaying green energy and said he stood by his previous statement. "As we all get excited and congratulate ourselves about natural gas you have to remember there is a climate issue out there that is going to hit this world," he said. "Not during our lifetime, but we have to worry about how we're going to deal with that, or how our children and grandchildren are going to deal with that."

April 26, 2013

RECEIVED

MAY 02 2013

CITY AND COUNTY MANAGER  
BROOMFIELD, COLORADO

To the Broomfield City Council,

I'm writing today to urge you to place a moratorium on further oil and gas drilling until an independent impact study can be completed and our citizens can vote on any decisions on fracking.

I thank you for considering my ideas on this subject.

Christine

Please specify your idea, general inquiry or concern: Please forward to City Manager, Planning, the Mayor and City Council...

US GOVT CONFIRMS LINK BETWEEN EARTHQUAKES AND FRACKING

<http://oilprice.com/Energy/Natural-Gas/U.S.-Government-Confirms-Link-Between-Earthquakes-and-Hydraulic-Fracturing.html>

The soil in Anthem is shifting all the time. Geologically, the neighborhood won't be able to withstand this fracking nearby and residents will have sinkholes. Ultimately, I imagine the oil company will then deny any link.

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Subject: Fracking in Broomfield

Dear City Counsel,

Thank you for taking the time to read my letter. My name is \_\_\_\_\_ and I am a Broomfield, CO resident where I live with my family. My children attend Prospect Ridge Academy, which is an elementary and middle school located very close to the potential drilling sites. As a Mother and a Veterinarian, I felt compelled to know for myself whether fracking is potentially dangerous to humans, animals and the environment. After doing my own research into the process of shale gas drilling, I am writing to urge you to oppose the potential wells that are proposed in Broomfield.

After reading and educating myself about the process of hydraulic fracturing, it is clear to me that while the companies that profit from fracking claim that is safe and does not have an immediate or long term effect the environment or health, this is simply not the case. It is also clear to me that in their rush to make as much profit as possible, in as little time as possible, they are sacrificing the health and well being of many. It also seems that many of the long term side effects are unknown at this time, but there is abundant evidence suggesting that the toxic chemicals left behind after drilling are dangerous to the respiratory, neural, ocular, gastro-intestinal and reproductive systems as well as being known carcinogens.

The United States Environmental Protection Agency just began researching the effect that hydraulic fracturing on water supply and the impact it has on the environment and human and animal health. Their final report is not even going to be released until 2014. If the EPA doesn't know if fracking contributes to the toxins in water supplies where wells are located, how can we assume that it is safe? To assume that this process is safe because the drilling companies tell us it is, doesn't make sense. We should assume that the current published literature documenting the health concerns and the effects of fracking on the environment are our best guideline until further research is published. It is not worth the sacrifice of our health, our children's health and the wildlife and animals that we treasure in Colorado.

Thank you again for your time. I have copied some of the articles that I researched below for your convenience. I also implore you to conduct your own research on the process. There are hundreds of studies and articles to review.

[http://www.psehealthyenergy.org/data/Bamberger\\_Oswald\\_NS22\\_in\\_press.pdf](http://www.psehealthyenergy.org/data/Bamberger_Oswald_NS22_in_press.pdf)

<http://www2.epa.gov/sites/production/files/documents/summary-of-technical-roundtables.pdf>

[http://www.sourcewatch.org/index.php/Colorado\\_and\\_fracking](http://www.sourcewatch.org/index.php/Colorado_and_fracking)

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Please pass on to City Council and City Manager. Perhaps some have used this link to the Colorado Geologic Survey in preparation for the town hall meeting on drilling and hydraulic fracturing

<http://geosurvey.state.co.us/energy/Oil/Pages/NiobraraCalculationTool.aspx>

Also - the avenue for email to City staff, Outlook, is annoying, but would be less so if the addresses were also listed.

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Subject: Fracking in Broomfield County

Dear Broomfield City Council and staff,

As an ex- council member, I have made it a point to not intrude or comment on the good work you all have been continuing. However, the fracking issue is of such importance to all of us that I feel I must engage on this issue.

As you know, fracking for oil & gas is being considered within Broomfield County. This is a highly politicized issue pitting the valid financial interests of oil & gas companies & holders of mineral rights, against the valid interests of those opposed to the many negative impacts of fracking on society & the environment.

And there are many negative impacts of fracking. These include the following:

- 1 - ground water pollution
- 2 - intensive truck traffic per well during drilling and throughout the life of the well; very high cost impact to area roads
- 3 - quantity and density of drilling pads required to frack; every few hundred yards another 8 acre pad is needed in many frack fields
- 4 - short production life per well; requires drilling new wells on the same pads every couple of years
- 5 - methane gas flaring, and worse; leakage un-burnt
- 6 - EROI (Energy Return On Investment) of extracting "tight oil" (which is what fracking is going after) is very low (9:1) compared to traditional oil drilling (100:1)
- 7 - increased severity of global climate change (global warming) due to extracting and burning this resource

The first 6 negative impacts above are enough to cause any thoughtful fact-based non-political decision making body such as Broomfield City Council to block fracking in their jurisdiction, as many other municipalities have in recent months.

However the seventh item above, impact of fracking on global climate change, should by itself should stop fracking world-wide. Human-caused climate change is confirmed by the science. Those who argue otherwise are either not informed of the science, or willing to let short-term political dogma put all of us at great risk. There are already identified easily extracted oil, coal, and gas reserves that greatly exceed what we can afford to burn and put into the atmosphere as greenhouse gasses. If we burn only these easily-extracted deposits which require no fracking, we will still greatly exceed safe levels of warming. This raises the real probability of worldwide collapse within the next 30 to 50 years.

Broomfield's citizens in 20 years will look back on this upcoming fracking decision, and judge the wisdom of all of us by what we do here. This fracking must be prevented.

Thank you for your service, and attention to this important issue

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Dear Broomfield City Council - Here is a current article from the Diane Rehm show regarding fracking:

<http://thedianerehmshow.org/shows/2013-05-06/ongoing-debate-over-fracking-regulation>

Heavy industry is not appropriate in areas where you have families and schools and recreation nearby.

---

City Council members,

I'd like to draw your attention to a guest column published by Jared Polis printed yesterday in Loveland's Reporter Herald, providing his perspective and some solutions he is proposing at the federal level.

[http://www.reporterherald.com/opinion/guest-columns/ci\\_23178327/local-voices-should-be-heard-oil-gas](http://www.reporterherald.com/opinion/guest-columns/ci_23178327/local-voices-should-be-heard-oil-gas)

Look forward to a fruitful conversation on the 22nd.

---

Subject: Health & Safety Issue

Council Members,

I am completely appalled and disheartened at what is going on at the state level regarding Oil and Gas development in our state. Please read the below article regarding several House Bills that are being shot down, if you have not done so already.

With us living on top of the Wattenburg area, this affects each and every Broomfield resident. It is apparent that we cannot rely on our state representatives to protect us- it is going to have to be up to you, our Council Members and Mayor, to protect our health, safety, and city. It absolutely cannot be proven that this boom in Oil and Gas production will not have ill effects on our citizens. Abide by the precautionary principle and err on the side of safety. I implore you to do what is right for our city and its residents and enact an immediate moratorium on fracking in Broomfield.

Article referenced: <http://kdvr.com/2013/05/06/hick-gets-three-dems-to-filp-kill-water-monitoring-measure/>

DENVER — Two more pieces of the Democratic oil and gas legislation package are dead, and they never really had a chance.

It's been known for weeks that House Bill 1316, which would require oil and gas companies in the Greater Wattenburg Area to abide by the same groundwater testing regimes as the rest of the state, didn't have much of a chance to pass the Senate.

On Monday, the Senate killed the measure when three Democrats joined Republicans in voting it down.

Gov. John Hickenlooper, a Democrat, opposed the measure outright, arguing that the Colorado Oil and Gas Conservation Commission had voted unanimously in favor of the new water testing rules last year, rules he's since heralded as the strongest and best in the country.

Environmental groups, irked by Hickenlooper's opposition to much of their oil and gas legislation, noted that if the rule was indeed as strong as the governor says it is, the Greater Wattenburg Area should have to abide by it as well.

The COGCC argues that the region should have a more lenient testing standard because of the volume of wells in the area — if the statewide standard were applied to GWA, there'd be more testing than is necessary.

A couple hours later, H.B. 1269, which changes the mission of the COGCC and reorganizes the makeup of the nine-member commission, also bit the dust.

Hickenlooper opposed it and lobbyists and staffers around the Capitol had been referring to the legislation in the past tense.

Monday evening, five Democrats — the three who voted against H.B. 1316 plus Sens. Linda Newell of Littleton and Gail Schwartz of Snowmass — joined Republicans in killing that measure.

The death of both bills puts even more pressure on lawmakers to save the last surviving oil and gas bill, H.B. 1267, which would increase fines for spills and other environmental mishaps.

Alan Salazar, Hickenlooper's Chief Strategist, and House Majority Leader Dickey Lee Hullinghorst have been negotiating on that bill for much of the day Monday.

Hullinghorst is upset that the Senate, at the governor's behest, took out the provision that would have set a \$5,000 mandatory minimum daily fine; she's considering whether to reject the Senate's changes and send the bill to a conference committee to possibly work out a deal.

Hickenlooper, the former geologist who many Democrats believe is actively working to advance the oil and gas industry's interests, has said that he's in favor of increasing the fines — the current bill increases the maximum daily fine to \$15,000 and removes an overall cap on the amount of fines that can be imposed.

And he needs a win on an oil and gas bill, something he can use to demonstrate a measured, balanced approach in this policy area.

But environmentalists believe the mandatory minimums are an important piece of the legislation; and they may be playing a longer game on the issue, content to force Hickenlooper to sign or veto the bill with the mandatory minimum fine and willing to introduce the legislation again in 2014, just months removed from an election when the governor's name will be on the ballot.

BROOMFIELD CITY COUNCIL  
ONE DESCOMBES DRIVE  
BROOMFIELD, CO 80020

RECEIVED

MAY 07 2013

CITY AND COUNTY MANAGER  
BROOMFIELD, COLORADO

MAY 2, 2003

DEAR COUNCIL MEMBERS!

PLEASE PLACE AT LEAST A TEMPORARY MORATORIUM  
ON FURTHER OIL AND GAS DRILLING, ESPECIALLY HYDROLOGIC  
FRACTURING. ONLY A MORATORIUM CAN PREVENT HARM  
FROM COMING TO BROOMFIELD FROM UNSTUDIED EFFECTS  
FROM 'FRACKING'!

THANK YOU FOR YOUR ATTENTION TO THIS  
IMPORTANT MATTER.

---

Subject: Please re-visit permits on fracking in Broomfield

Dear Broomfield City Council member,

About 2 years ago, my family moved from Wisconsin to Colorado. My husband, who is an engineer, did an extensive research on city to live. He chose Broomfield because it was voted to be one of the best place to live by money magazine 2010

<http://money.cnn.com/magazines/moneymag/bplive/2010/snapshots/PL0809280.html>.

In addition to that, statistic shows that Broomfield has a stable property value, good schools, low crime and about half of the population hold a Bachelor Degree or higher.

[http://factfinder2.census.gov/bkmk/table/1.0/en/ACS/11\\_5YR/DP02/1600000US0809280|0400000US08](http://factfinder2.census.gov/bkmk/table/1.0/en/ACS/11_5YR/DP02/1600000US0809280|0400000US08)  
We were also delighted to find out Broomfield was named a Playful City 2012.

We became aware of the proposal for fracking across from Prospect Ridge Academy (PRA). The well is located about 1/2 mile radius from PRA and residential area. Initially, we were fine with the idea. I was sure Broomfield Council members and/or Zoning members would have made an educated decision about the risk of putting frack wells 1/2 miles from an elementary school and residential area. Just for my curiosity, I did some research about the effect on fracking. I found the results are alarming.

Study done by PEHSU (Pediatrics Environmental Health Specialty Unit) shows children are more vulnerable to environmental hazard.

[http://aoec.org/pehsu/documents/hydraulic\\_fracturing\\_and\\_children\\_2011\\_health\\_prof.pdf](http://aoec.org/pehsu/documents/hydraulic_fracturing_and_children_2011_health_prof.pdf)

Study done by Colorado School of Public Health shows air emission near fracking area may pose health risk <http://www.ucdenver.edu/about/newsroom/newsreleases/Pages/health-impacts-of-fracking-emissions.aspx>

According to study done by NOAA and CU Boulder Feb 2012, 4% of the gas leaked to the atmosphere. <http://www.nature.com/news/air-sampling-reveals-high-emissions-from-gas-field-1.9982>

Based on these studies, we are risking our children's and public health by putting 11 wells 1/2 mile from a school and residential area.

On April 16, 2013, during the study session at the Council, I if I remember the number right, COGCC requires 500 ft minimum setback. I wonder if Council member ever questioned how did COGCC get the number from? What are their safety measure?

If we plot 500 ft setbacks on Broomfield map, it looks like almost every open space in Broomfield are possible for drilling including Broomfield Commons and The Fields. Open spaces are now possible for air contamination due to the leakage. I believe open spaces are meant for fresh air and not for contaminated air.

Please, re-visit COGCC minimum set back requirements which leads to the possibilities of putting health hazard frack wells intermingled with residential and public area.

Please don't trust the decision made by the companies who get profits from drilling. Accidents do happens. Just like the recent spill at Parachute Creek on May 2, 2013 news. [http://www.denverpost.com/breakingnews/ci\\_23151300/state-parachute-creek-pipeline-spill-may-violate-waste](http://www.denverpost.com/breakingnews/ci_23151300/state-parachute-creek-pipeline-spill-may-violate-waste)

Please do not approve anymore fracking permits until a study is done to show how fracking affects Broomfield health. Please, do not ruin Broomfield image for the sake of short term job with a possible of long term health hazard to our future generation. I do believe that we do not inherit the Earth from our ancestors, but we borrow it from our children. Please, leave this place better for them. Please make Broomfield a real community where people live healthy, work and play.

---

Council members,

I wanted to draw your attention to the latest from Boulder: the City Council has asked counsel to prepare a moratorium for review in June. We are asking the same. Until this can be proven to be safe, we should not continue drilling in Broomfield either.

[http://www.dailycamera.com/news/boulder/ci\\_23194685/boulder-council-consider-fracking-moratorium](http://www.dailycamera.com/news/boulder/ci_23194685/boulder-council-consider-fracking-moratorium)

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Subject: fracking in Broomfield

Dear Mayor Quinn and Council Members,

I am writing to encourage you to impose a moratorium on the hydraulic fracturing that is being proposed in Broomfield. Since first hearing of this approximately five weeks ago, I have attended three fracking meetings (Broomfield City Council meeting – April 9, Anthem Highlands meeting – April 15, and Broomfield City Council Study Session – April 16), and I have also talked to people and read as much as possible about fracking.

Even though I realize that there are people who can speak very convincingly on both sides of the issue, I have come to the conclusion that there are just too many uncertainties and negatives about the fracking process to allow fracking in our city without further study.

- 1) Although there are no documented studies that have been done relating fracking to cancer, etc, there are many anecdotal stories about the negative health effects of living close to wells, such nose bleeds, respiratory problems, and tremors. And, unfortunately, it is sometimes not until years later that these are actually proved or disproved, such as the case of asbestos.
- 2) I'm also concerned about the amount of water needed. We attended an Anthem Ranch meeting last month where the majority of the time was spent telling us how careful we must all be in our water usage. So, I have conscientiously turned off the water while brushing my teeth, I don't the dishwasher until I've filled it completely, and I rarely wash our car . . . and then I found out that each well uses 3.5 – 5 million gallons of precious water! And, the waste water is not easy to clean.
- 3) I am concerned about the additional truck traffic on our streets which can lead to road damage and possible safety issues. (I understand that over 100 truckloads of water are required for one hydraulic fracturing operation.)
- 4) Additionally, I am fearful that the fracking process could cause tiny movements in the earth . . . and we already have enough movements in this area.
- 5) A big worry for me is the possibility of mistakes. The speaker from the Colorado Oil and Gas Conservation Commission said there are about 17 inspectors to check 68,000 wells in Colorado. (I think that number has been increased to perhaps 28 with recent legislation.) Even with 28 inspectors, that is 2428 wells for each inspector to check over a five-year period, which translates to 486 wells per inspector per year . . . which is about 2 wells per day per inspector, assuming they do their paperwork in the evening and the wells are close together. He said there were "rules" in place for operators to follow . . . but will they? Even if people are following rules and equipment is working properly, mistakes can happen . . . and in this case, it's not a small thing.
- 6) I also wonder why fracking has to be done in an urban area like Broomfield, when there are "frackable" formations below much of eastern Colorado, which is very sparsely populated. Why does this have to be done right next to schools and houses in cities?
- 7) People say, "We need the gas/oil ." That may be true, but we also need landfills, airports, big box stores, etc . . . but they are not normally located right next to a subdivision.

In conclusion, we moved to Broomfield seven years ago and love living here. We applaud Council for their concern for open spaces and for creating a great environment to raise a family. Don't ruin this by allowing hydraulic fracturing to come into our wonderful city without further study which would be conducted during the moratorium period!

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Subject: Say NO to fracking in Broomfield

Dear Elected Representatives

I am writing as a Broomfield resident to urge you to ban fracking in Broomfield. Remember the surveys citing the quality of life here? I love Broomfield. We have been residents since 2001. Fracking puts at

risk the quality of life, the reason many people call Broomfield home. This process promises jobs and energy independence. I support both of those things, but I don't support fracking. I am a biologist and I understand that one of our greatest needs is clean water. We are currently experiencing prolonged drought. Why would we let an industry pollute our water? Instead, maybe the council could make the land currently proposed for fracking more attractive as a location for solar array installation, for example by offering tax incentives for such a use. This would provide local jobs and promote energy independence without sacrificing our quality of life. Please take my comments into account before you decide on this very important issue. Thank you.

P.S. I will be unable to attend the meeting on Wed. as my children have activities and my wife is out of town. Otherwise I would be there to voice my opposition to fracking in Broomfield.

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Broomfield City Council-

Please do not approve the proposed well sites in Broomfield for fracking. The impact on the environment is actually unknown at this point in time and studies point to the fact that it may actually be hazardous to our health. Also the proposed wells would have a negative impact on the traffic in the area, as well as the natural beauty we moved here to enjoy. Thank you for your consideration.

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Subject: Hydraulic Fracturing Moratorium

Dear Mayor and Council Members,

I write this note to urge you to declare a moratorium on hydraulic fracturing (fracking) in Broomfield, for the following reasons:

1. In the Council study session on fracking held in April, the technical representative from the CDPHE candidly admitted that the health effects of fracking were not currently well understood. In my opinion, there is sufficient anecdotal evidence from families living in Erie that fracking operations have caused illnesses in children.
2. It is well known that water is a precious commodity in Broomfield and the surrounding areas, and we have been urged by Broomfield officials to drastically reduce our water consumption. (We are working hard on it!) Approval of fracking, with its extensive water requirements (3-5 million gallons per fracturing operation), would seem to exhibit a rather hypocritical approach to the issue of water conservation on the part of Broomfield.
3. I strongly feel that it is inappropriate to conduct oil and gas operations in close proximity to residential neighborhoods, regardless of the potential deleterious health effects. I certainly would not want to gaze out into the green area behind my home, only to see a well head with a couple of pieces of processing equipment! The Sovereign Energy wells that have been approved are, in my opinion, too close to homes in Anthem Highlands and to the Prospect Ridge Academy. I am quite confident that Broomfield would never approve a landfill or other form of waste storage site next to houses. So I would hope the same rationale would apply regarding the siting of oil and gas wells.
4. Because more than 100 tanker truckloads are used to transport fresh water to the well site (and often to return produced water to a disposal site) for each fracturing operation, noise (especially during the initial drilling operation), traffic congestion, and road damage will likely become an issue. (I note that a nearby municipality is reviewing a proposal to charge tens of thousands of dollars for each fracking operation to partially recover the cost of road repair.)

5. I understand that fracked wells do not have to comply with either the clean air or clean water act, and that each well can emit up to 27 tons of volatile organic compounds (VOCs) on an annual basis. Is it possible that these compounds could be responsible for some of the illnesses experienced by certain children in Weld County, especially when several wells are concentrated together in a single battery?

6. As a practicing chemical engineer working (research, operations, business technical consulting, and quality assurance management) for a major chemical company for some 30 years, I have seen/experienced a wide range of quality in oil/chemical field operators. I side with Mayor Quinn in his expressed concern at the study session for the possibility of "bad operators" being involved in the fracking business.

My opinion is reinforced by the lack of inspectors at the COGCC, and the fact that the make up of the Board numerically favors representatives from the the oil and gas industry. I seem to recall that recent state legislation has added 11 inspectors, which is a move in the right direction. However, other O&G related pieces of legislation were defeated, primarily I suspect via the lobbying activities (over 20 lobbyists?) of the industry.

Now for a short story: While discussing fracking with neighbor friends at a garage sale this past weekend, another "shopper," who turned out to be an environmental engineer working for a large company, joined our conversation. He claimed that he and his family (including two pre-school children) were strongly considering a move into Anthem Highlands. But when he heard us discussing the proximity of the impending Sovereign drilling/fracking operations to the Highlands, he said he and his wife would have to strongly rethink their decision.

His work experience is primarily in the technical permitting of his company's operations, and he was convinced that VOCs, which in his opinion were essentially unregulated, could be causing health problems in children and he did not want to take that risk with his own kids.

I realize that our region and nation need energy resources and that hydraulic fracturing gives new life to oil and gas producing formations in Broomfield. Further, these operations provide some good job opportunities in our area and inputs to Broomfield's coffers. But, during the moratorium period that I am proposing, I would urge that these economic benefits to be weighed off against what I have presented as the potential costs, including adverse health impacts, road damage, congestion, nuisance, property value decline, and possible overall reduction in Broomfield's quality of life.

I appreciate the opportunity to present my suggestions. Thanks for considering them.

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Subject: Fracking in Broomfield

Dear Mayor Quinn and Council Members,

I urge you to declare a moratorium on fracking until the impact on Broomfield and its citizens is more fully understood.

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Subject: NO FRACKING IN BROOMFIELD!  
Importance: High

To: Broomfield City Council

I have just moved to Anthem Ranch within the last month, thinking that this was a safe 55+ community in which to live out my retirement. Yesterday I learned nothing could be farther from the truth if proposed fracking goes forward less than 1.5 miles from my new home. The effects of fracking are still being studied, but fracking has been found to be dangerous to public health. The traffic, noise, and upheaval of setting wells into place is an onerous burden that should not be placed on our neighborhoods.

Please BAN the proposed fracking by Sovereign Energy because it will negatively affect our neighborhoods, including vulnerable populations of elderly and school age children. The fact that Sovereign Energy would propose 11 new well sites in heavily populated and developing areas around Anthem Ranch and Anthem Highlands is an outrage.

Stop this proposed fracking in its tracks!

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Subject: WAIT----SLOW DOWN!!!!!!----NO FRACKING IN OUR PRECIOUS CITY!!!

Please, Please, stop this race to fill Broomfield with more oil and gas wells. It does not at all appear that the potential risks have been properly assessed and evaluated.

The speed with which this is proceeding, and the lack of publicity in terms of notifying the public BEFORE decisions have been made is indeed alarming and raises the feeling of trying to set it in place before allowing public input.

I for one do not want any more wells of any kind in my city limits, and especially in the area I reside. (Anthem Ranch).

PLEASE set in place today, a moratorium to allow further investigation and fact sharing. The money the city would receive is just not worth the potential damage to quality of life that we enjoy in Broomfield. I am so disappointed in the judgement (or lack of judgement) of those who have allowed this project to go this far. Please reconsider your responsibility to those you serve.

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Attached please find my thoughts with regard to the well developments under consideration. My main concern is that in light of the extreme politicization of a straight forward and legal project request, you pay close attention to the emissions control and monitoring standards employed by the operator, who appears to be relatively unsophisticated. Only in this way will the undue alarm of parents and residents ultimately be assuaged.

Thank you for your consideration