I am responding to this enquiry because of the importance I place on the UK achieving its carbon and greenhouse gas emission targets over the next 20 or so years.

My daughter is a student at York University and I have made and will continue to make visits to York and Yorkshire, to enjoy also the outstanding countryside it has to offer. Although I have no direct connexion with Yorkshire, I would be put off going to the dales etc if widespread fracking were going on there. I last visited there in May this year.

Here in Bristol, exploratory fracking wells will be permitted in AONB’s and SSI’s such as Ashton Court and Leigh Woods. This would wreck the amenity appeal of these much used sites. Ashton Court for example is home to the annual Bristol Balloon Fiesta.

I adopt and thoroughly support the following points:

1 Fracking will result in the irreversible industrialisation of our countryside.
   - Fracking is a heavy industrialised process unsuitable for the English countryside.
   - Tens of thousands of wells are required to produce meaningful quantities of gas.
   - England’s most precious landscapes are already licenced for fracking, with PEDL (Petroleum Exploration and Development Licences) covering vast areas of the country.
   - Shale gas companies are planning hundreds of wells per 10x10 km² PEDL licence area.
   - Widespread industrialisation of the countryside for shale gas production is incompatible with EFRA’s aim of developing sustainable rural tourism.

2 Fracking will have a negative impact on homes and businesses near well-sites.
   - Fracking will be allowed within 400m of homes, businesses and rural villages.
   - Drilling and fracking are noisy 24-hour-a-day activities.
   - Fracking will create noise, light and air pollution.
   - A huge increase in HGV truck movements will make places less attractive for tourists.
   - Visitors won’t want to spend their holidays in the shadow of a fracking well-site and will avoid fracking ‘blackspots’.
   - Businesses close to a well-site, such as campsites, B&Bs, pubs, hotels, etc. will suffer a fall in visitor numbers.

3 Fracking will result in a huge increase in heavy traffic on country roads.
   - Each fracking well will require thousands of HGV movements to and from the site.
   - Each fracking well-pad will have between 10 and 40 wells, which means tens of thousands of HGV trucks per well-pad.
   - These trucks will cause noise and air pollution.
   - There will be more queues, traffic accidents and damage to roads and verges.
   - Travelling around rural areas will be far more difficult for tourists.
   - This will impact on rural businesses such as farms, shops and small factories, all of which rely on prompt deliveries for their businesses to function effectively.
The peace and quiet of the countryside and rural villages will be destroyed.

4 The health impacts of fracking will deter tourists from visiting fracking areas.

- Fracking is banned or restricted by moratoria in many other countries, such as France, Germany, Bulgaria, Holland and Scotland, and in US states such as Maryland and New York State.
- These bans and moratoria are mainly because the health impacts of fracking on public health are considered to be too dangerous.
- Dr. Howard A. Zucker, NY State Health Commissioner, who recommended a fracking ban in his home state after a six-year study, said, "Would I let my family live in a community with fracking? The answer is no. The potential risks of fracking are too great. In fact, they are not even fully known."
- New studies from John Hopkins University show that people living near fracking wells are four times more likely to have asthma attacks and premature births.
- If fracking were allowed across the English countryside, many people would be discouraged from visiting because of health concerns for themselves and their families.

5 Fracking will reduce employment in the rural tourism sector.

- Tourism provides millions of permanent jobs for the rural economy (over 3.1 million in 2013, according to Visit Britain).
- Fracking would only provide a small number of short-term jobs at each well-site.
- Even industry estimates of up to 64,000 jobs in 2024 from 4,000 fracking wells are dwarfed by the numbers of jobs in tourism threatened by fracking.
- Most jobs on fracking well-sites would go to specialists brought in on fixed contracts, not local people.
- Fracking in the USA has been shown to be a boom-and-bust industry and does not create long-term jobs.
- Widespread fracking would threaten thousands of permanent jobs in the tourist industry, as visitor numbers would fall and businesses would close.

6 Fracking will affect the reputation of food produced in tourist areas.

- Rural economies depend on farming and food production as well as tourism.
- Many areas of the country are known for their high-quality produce and rely on this reputation to attract tourists to local food fairs, farmers’ markets, restaurants, etc..
- The introduction of fracking in these areas may compromise the quality and reputation of locally produced food.
- There may also be the perception that food from farms grown near fracking wells could be contaminated.
- This will result in lower sales, falling tourist numbers, and lower rural employment.

7 Our most treasured nature and wildlife sites are under threat from fracking.

- Our nation’s protected areas, such as National Parks, Areas of Outstanding Natural Beauty (AONBs), Sites of Special Scientific Interest (SSSIs), World Heritage and Ramsar sites, etc. are hugely important for rural tourism and attract millions of visitors every year.
There is currently no primary legislation banning fracking within these protected areas. Currently fracking in these areas is only restricted by planning conditions and government policy statements, not legislation.

However, current legislation does allow fracking well-pads to be situated just outside the borders of these protected areas and wells can then be drilled horizontally underneath the protected areas.

National Parks, AONBs and SSSIs may therefore end up being ringed by fracking well-sites. The resulting noise, pollution and traffic would destroy the amenity of the country’s most precious and wildlife-rich natural places.

This again would result in a dramatic fall in the number of tourists visiting the area.

**8 Fracking will negatively impact wildlife tourism in the countryside.**

- Large numbers of tourists visit the English countryside to enjoy the wildlife that lives there.
- Widespread fracking will have a very damaging effect on wildlife populations, particularly if fracking wells are situated around the edges of protected areas like SSSIs.
- Noise, air and light pollution and increased traffic from fracking well-sites will reduce the population of wild birds and animals, most of whom will leave the area completely.
- Drilling and fracking at night would also have a detrimental effect on protected nocturnal species such as owls and bats.
- This loss of wildlife will have a damaging effect on wildlife tourism in rural areas and a consequent drop in visitor numbers.

**9 Water contamination from fracking could permanently impact an area’s reputation.**

- Fracking also brings with it the threat of water contamination through leaking wells, which could contaminate the aquifers that provide our drinking water.
- There may also be surface spills or other above-ground accidents, which could pollute streams, rivers and other water courses.
- Fracking companies are not required to post a bond with local councils to pay for environmental clean-up, if indeed such clean-up were possible.
- One incident of contaminated drinking water, or a catastrophic explosion at a well-site, would permanently damage the reputation of a popular tourist area for many years.
- Any water contamination incident would result in a drop in tourists visiting that area.

**10 Fracking will reduce property prices, which will discourage rural investment.**

- Fracking will have a negative effect on house, land and property prices in fracking areas, particularly for properties within one mile of a well-site.
- The DEFRA Shale Gas Rural Economy Report stated: "A study in Texas concluded that house prices valued at more than $250,000 and within 1,000 ft of a well-site saw their values decrease by 3-14%.
- The same report went on to say: "House prices in close proximity to the drilling operations are likely to fall. There could be a 7% reduction in property values within one mile of an extraction site."
- A report in Mortgage Introducer magazine stated that properties near the only well that has ever been fracked, Preese Hall in Manchester, fell by 4%.
• This drop in property values will in turn will have a negative effect on rural business investment, as people will be reluctant to invest in new and existing rural businesses in areas where fracking is taking place.

11 Public perception of fracking is overwhelmingly negative.

• Fracking is extremely unpopular with the general public, with only 21% of the population supporting the process, according to the latest Government Wave 18 survey.
• The government’s proposals to pay up to £10,000 to residents living near well have failed to convince the public, with only 33% supporting the policy.
• Most people don’t like fracking, and are unlikely to want to go on holiday to an area where this industry is established.
• If a particular part of the countryside is known to be a fracking zone, this will discourage people from visiting this area, reducing tourist numbers.

12 Defra’s own report says that fracking would negatively impact the rural tourist sector.

• Defra’s draft Shale Gas Rural Economy Impacts Paper, which was eventually published unredacted in July 2015, states the following: “Shale gas may transform a previously pristine and quiet natural region, bringing increased industrialisation. As a result, rural economy businesses that rely on clean air, land, water and/or a tranquil environment may suffer losses from this change, such as agriculture, tourism, organic farming, hunting, fishing and outdoor recreation.”
• This paper also went on to say that fracking “may reduce the number of visitors and tourists to the rural area, with an associated reduction in spend in the local tourism economy.”
• The first time this report was published it was redacted 63 times, including sections on house prices, economic impacts, social services, local services and the executive summary.
• The unredacted report was finally published in July 2015, only because the government was forced to do so by the Information Commissioner after a long-running public outcry.
• When it was finally published, Defra distanced itself from the report’s conclusions, claiming that it was an early draft of an internal document, was not analytically robust, and that work on this report had been discontinued.
• Many people wonder why the report was discontinued, instead of being re-drafted so that it was considered by Defra to be ‘analytically robust’ and suitable for publication. Was the effect of fracking on the rural economy not worthy of further examination?
• Defra has therefore never completed a comprehensive report on the effect of fracking on the rural economy – which of course would include the rural tourism sector, the subject of this enquiry. Is this perhaps because Defra knows that the results of such a report would be overwhelmingly negative?

Conclusion

Given that each fracking site is likely to be operational for less than 3 years, and the consequent need to drill tens of thousands of wells across the UK if the intended production levels are to be achieved, there will be a catastrophic effect on tourism in rural areas. The main beneficiaries will be the shareholders of the companies involved, certainly not tourists or local people.
I feel that Defra has a duty to oppose such developments within government, and should instead be working to promote sustainable, low-impact tourism in order to preserve the English countryside.

I support the recommendation that the EFRA Select Committee should commission a new independent report of the impact of the shale gas industry on the rural economy, including rural tourism. Until such a report is produced, the EFRA Select Committee should demand an immediate moratorium on fracking and other forms of unconventional gas production.

*August 2016*