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2	DRAFT ENVIRONMENTAL IMPACT STATEMENT	
3	PUBLIC MEETING	
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5	Taken February 4, 2019	
6	Commencing at 1:07 p.m.	
7	Pages 1 - 126, inclusive	
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9	Taken at	
LO	Carlson Center 2010 2nd Avenue	
L1	Fairbanks, Alaska	
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## P-R-O-C-E-E-D-I-N-G-S

MS. SYDNEY DEERING: I would like to start by expressing my full support for opening the 1002 lands up to lease sales, and I would like to advocate for one of the initial propositions, not Alternative D1 and D2 as the areas in those propositions that are marked as not offered to lease sale are known to include different anticlinal trap structures that could potentially hold oil and gas reserves and that if any sort of lease sales are going forward that would allow for seismic exploration, they should be included in that evaluation of the area's resource.

That's pretty much all I've got.

MS. GAIL MAYO: My name is Gail Mayo, and I live in Fairbanks. I have lived in Fairbanks since 1960. And that brings me right to what I think about this EIS on the oil and gas leasing program. And I understand right up front that you are not wanting to consider Alternative A. However, to me that is the only alternative. And in 1960 when I came here, President Eisenhower designated the Arctic National Wildlife Range, and I have been here and watched and testified and advocated for those lands as they grew to be the Arctic National Wildlife Refuge and as they grew to be respected and accepted by the United States government as an

outstanding and unique wilderness area.

So I feel as if we need to continue to protect the lands in that way. There are so few lands that are unprotected in the U.S. They are a unique ecological system found nowhere else in the world, probably, and there is a lot that's still very unknown about them. We can't really do an EIS and say what's going to happen up there, as with most places, but even less is known about the Arctic National Wildlife Refuge.

The especially large herd, the Porcupine herd that appears to be the herd that uses that area that's being proposed for leasing as a beginning, Porcupine herd is a -- there is no predicting what those animals will do when they find themselves unable to put up with whatever is going on up there in the way of manmade intrusions.

It's also essential bird habitat for birds that use all continents in their yearly -- in their yearly migrations between that habitat as their nesting grounds or sometimes just as a molting ground or sometimes just as a stopover ground. But still, it's an essential part for birds, well over 100 birds. I can't say the number. I'm not going to because I'd probably be wrong.

The federal law that enabled even considering leasing there is a flawed law, and I would -- you know, I'd like to put my energy into challenging that law. I don't -- I

can't believe that in a day somebody could put an amendment on an existing piece of legislation and get it passed in that way. When it was -- it was something that should have been put to the people in the first place, whether leasing would even be considered.

The mindset that was used to justify that sort of sneaky law, I call it, was that we need oil now, and that's also flawed. We don't need oil now. We have a glut of oil. If we get more oil, they will have to export it, and the price of oil will go down and we will get less money for it.

It all sounds to me like a downward spiral. What we should be doing in the U.S. is figuring out how to use less oil. The draft statement offers Alternative A as its only acceptable -- and that's the only acceptable one for me.

Even Alternative D offers way too many ways that the ecosystem there could be impacted without, you know, oil spill accidents, unknown reactions of caribou herd to being crowded. We really don't know what caribou are going to do when they get into that situation. It's not the same situation as Prudhoe Bay where they have a huge amount of coastal tundra land to spread out into. As we get further east on the North Slope and on the coastal plain, the coastal plain becomes narrower and there is far

less land to relocate to if you are a caribou.

Alternative D would be the only one that I could possibly support, but I don't -- I'm strongly in favor of Alternative A.

Some of the shortcomings of the whole -- just the whole concept is the failure to recognize the importance of the Native subsistence uses of the caribou, the failure to recognize the scarcity of water in this portion of the coastal plain. And drilling and building roads and et cetera all takes a lot of water.

The lack of consideration of the effects on polar bears and caribou is simply that we don't have adequate knowledge of what is going to affect them, and we don't have -- have any history with this kind of thing, especially in the current situation where polar bears are being forced to change some of their habits by climate change.

The failure of the whole plan to confine activities to just 2,000 acres alone, I see lots of references to ways that more acres will be impacted. Besides, if you build a road across an area and it takes only a few acres to allow for the road, still you have split that area in two. You have changed the water flow in that area. You have done who knows what to it. You have extracted a lot of gravel. You have spread it all around, and you are

going to introduce traffic, probably invasive species and whatnot.

And the next to last failure is to adequately recognize the danger of oil spills. It seems that every year we hear of unanticipated accidental oil spills, and I'm sure that's what they all are. I'm sure that's not going to change with moving into an unknown area. It's probably going to get worse. So we are going to have unexpected danger from oil spills.

But finally, just it's unacceptable to have the effects on the wilderness value of that whole Arctic National Wildlife Refuge that would be imposed by anything but Alternative A. So unaccepted effects on the wilderness values.

And it was only three or four years ago that the United States completely accepted the dedication of that area as having very high wilderness value and increased the wilderness areas nearby that support it.

So that's my -- that's -- my final word is no, nothing but Alternative A will do.

MS. DARLENE HERBERT: My name is Darlene Herbert. (Speaking in Gwich'in.)

I don't like the way this meeting is run, to begin with. I don't like to talk to a tape recorder and have it written down because I don't know what the person is going

to really write down. Are they going to write down every word I say, or are they going to skip some words to make it to their liking? That's the reason I don't like it. I'd rather talk to public speaking than talking to the microphone.

I don't like them to open -- what was that -- 1002 because they have a lot of animals up there. I worked up there for 28 years. I was a pipe insulator. And I seen a lot of animals that live off the land. And no matter if they say they clean up the oil, they don't clean up the oil. I mean, they are supposed to, but I see a lot of guys just throw snow over it.

And a caribou will come by and eat that stuff up or any other animal they have up there. They have a lot of animals up there. And they have polar bear that can eat it. He eats the trash, too, though. And I don't think animals should be eating trash because they won't survive in the woods if they get used to eating trash.

And caribou, we live off caribou for 10,000 years. We live off the animals for 10,000 years. I grew up in Fort Yukon, and all I talk Gwich'in. My family talked Gwich'in. I was -- my first language was Gwich'in. And my parents would go out in the woods and live out in the woods for months, and then we would go back to Fort Yukon. And then we had to -- so they put us in school, so we had

to learn English in school.

But I think we need the caribou more than we do the oil. The oil will be gone someday, but if the caribou disappears, the whole -- basically the whole upper part of Alaska and middle part of Alaska -- and caribou goes everywhere, and everybody uses it. They use it for food to eat, and they use it for their clothes and they -- they use everything in the caribou. They can use the stomach for water, and they put the bones away so someday the old people say it's -- starvation time is coming, and I think it's getting pretty close because we have a crazy president. I think it's going to be here, or it is here.

And people will have to depend on the wildlife to survive. And if we don't have our wildlife, I don't think we can survive by eating money or oil. I mean, I don't know what the non-Natives are going to survive on. I guess they will give each other money to survive on, but us, we depend on caribou, moose, fish. And if the mining -- there is already mining up by Venetie somewhere.

And my friend, I told him, when you work there, watch what's happening. And he said, yeah, Darlene, you are right. The water -- the water, the dirty water is going right into the -- right into the river. And he said that I don't think it's very good for the animals.

And if they open mining all over the place and if

they open that little part up there, 1002, they are going to want the whole thing. Once you give something to anybody, they want the whole thing.

And my grandma told me the story. She said that a long time ago Indians didn't need paper. Everybody knew in Fort Yukon where their land was. They had names for their lands in Gwich'in, so nobody needed a piece of paper. It just went from generation to generation. And everybody knew where their land was. And they never -- I mean, it's just common knowledge. You didn't have to write it or they didn't fight over their lands.

But I'm seriously worried about the mining part and also the oil because I think it's destroying the animals. And once the animals are gone, we might be gone. And that's scary. But we are pretty tough people, so we will probably survive.

The oil -- there must be other alternative ways to find their heat besides oil. I mean, there is all kinds of ways. I don't know why they think it has to be oil. And there is other ways so the animals can be safe. And mining should never be done in Alaska, but it's going on now. And -- and I guess Trump opened this part, 1002, and I don't like him very much for that, sorry to say.

I mean, I guess he didn't think -- a lot of people down that way don't think we are real, but we are people.

We know how to live off land. That's why we are trying to save our land. We are trying to save our land, animals, water and air. That's all we need to live on. We don't need money. I guess we don't need oil, too.

But everybody says, well, quit driving your car, quit doing this, quit using heat, quit using electricity. But I think it was brought upon us, so we got dependent on it. And I don't think it's fair for people to say quit driving their car and quit using electricity or anything like that because it was brought upon us by them. And for me, I can go out in the woods and live forever.

And -- but if somebody -- I traveled down the states in June. I took my granddaughter and my niece and her daughter, and we drove around. And I never seen so many cows in my life. I mean, it's just like the caribou. They love their cows, but if we go to their -- like if we go to California and say, hey, we are going to take half of your land and we don't care what happens to your cows, and we are going to be doing drilling for oil and whatever happens to the cows, we don't care, I mean, it's just that way.

And I don't know. It's a terrible thing to do that to us. And maybe we should go kill their cows because they got too many, anyway. I never seen so many. And I never seen so many houses. I mean, a million houses. And

if there is a war, they have nowhere, nowhere to go. And if you keep destroying our land for your money, we will just have nowhere to go, too. So we don't want to go to the moon, so can you please leave our land alone and tell that Trump that because I don't think he wants to talk to me.

Thank you.

MR. SCOTT FISHER: Bingo. My name's the Reverend Scott Fisher. I'm a retired Episcopal priest. I have lived in Fairbanks or points north for close to 50 years, originally from the East Coast. I've lived in Fairbanks and communities to the north for close to 50 years. I spent 50 years traveling from the Canadian border through the Arctic coast.

I guess I have three points to make. The first point is, one of the first rules you learn in Alaska is you better listen to those who have lived here longer than you have. The results can be fatal if you don't. And I've done more funerals than anyone you will ever meet.

Gwich'in have lived here longer than anyone else has,

13,000 years. And they have been saying ever since this thing started, don't do it.

Here is the second point.

Actually, there will be four points.

Digression. Yes, I flipped through the EIS thing,

and I realize this doesn't fit in with any of the initial comments on, these are the comments we need, et cetera, et cetera. This is all just going to disappear someplace and do a sentence someplace, but I would like the federal government to know someplace that I have said no. I have been saying that for 40 years. And I'll end this a story on why I'm saying that. But, anyway, end of digression.

First rule is you better listen to those who have lived here longer than you have or you will die. The results can be fatal. Gwich'in have been saying this is a bad idea, don't do it, for as long as this has been around.

The Secretary of the Interior, et cetera, should be aware that the entire Episcopal Church in the state of Alaska, which has churches from Ketchikan to Point Hope, the collective bishops nationally of the Episcopal Church, and the Anglican communion, which is third largest Christian body in the world, have all said, don't do it. Got that? Got that, federal government?

The Episcopal Church, from George Washington to

George Bush -- and the current president attends an

Episcopal church down in Florida when he's there. The

Episcopal Church, the collective bishops of the Episcopal

Church nationally, and the Anglican communion worldwide

have all said, we support the Gwich'in. Don't do it.

Against all that is this. It's a bad idea. It doesn't fit in with any of the bureaucratic language of the EIS, but somebody needs to be aware of it.

The third point is, I'm still waiting for an apology from the scoping hearing. It was disrespectful, poorly run, they never introduced themselves, et cetera. And they cut off 50, 60 people. There were people that came all the way from Canada representing First Nations people who were just dismissed. I'm still waiting for an apology from someplace.

Here is my fourth comment: Once upon a time, back before anybody ever heard of ANWR, I was traveling around up in Fort Yukon -- I'll keep the names out of this -- and met someone who was at that stage working as a scientist in the ANWR region. And they came up to me and they said, Scott, you have got to do something. I said what? After he introduced himself, I said, what? What's going on?

And he said, so I'm up there in ANWR working, and there is no one else up there. We are just doing research or whatever. Except the oil companies are doing their initial exploratory stuff. And he said, they come camp with us because, of course, they like to hang out with white people. So the white people all camp together, as they do. You notice out here is mainly white people.

So they fly over in their helicopters at night over

to Kaktovik, et cetera, and then come back and camp with us at night. And they spend all night laughing about this is all going to be easy. Those Natives are so stupid, we can buy the support off just for a helicopter ride. We are going to get this with a song.

Here we are. Here we are. And who in the government is asking any of those questions? It's not going to be in that report. It's not a scientific, it's an ethical question.

I spent time down in south Texas in recent years in those lovely Texas plains, which are wonderful. And if you read the history, once upon a time there were buffalo down there, and there ain't no buffalo there no more. And the Gwich'in have been standing against this for 30 years saying, no, you don't. They are not going to quit standing there. Amen.

MS. SHERRY LEWIS: Okay. I feel it's very sad that the Arctic Refuge has been opened for the possibility of oil drilling. I was a guide up there for many years. And it's a very beautiful place, and clients that came up there said it was so unique they can't relate it to anyplace that they have been before. I think the process with sticking it in on the -- with the budget was not the proper way to do it. So I oppose any oil drilling in the refuge.

I think there will be effects on all the animals, particularly polar bears who are having a hard time because of climate change. And the Porcupine caribou herd, which really do not do well with pipelines. I think it's a shame that we aren't able to leave part of nature the way it is. It's a whole complete system, which the coastal plain is part of the complete refuge with the mountains and then the coastal plain and into the ocean. Because there is so much of this world that we have taken over, and if we aren't big enough people to leave some of it for nature and for future generations to see as it is, and also as a place to see how nature takes care of itself so it's a place left on the earth that's whole to study.

MS. PAMELA MILLER: My name is Pamela A. Miller. I reside at 1800 Musk Ox Trail in Fairbanks, Alaska 99709. Thank you for this chance to comment to the court reporter on the Draft Environmental Impact Statement on Coastal Plain Oil and Gas Leasing Program Draft Environmental Impact Statement.

I'm a biologist, former wilderness guide, conservationist and researcher ever since 1982 in the refuge. I worked on the 1002 baseline biological studies in the 1980s from about 1982 to 1985. I also served as a seismic exploration monitor out there in the winter three weeks at a stretch over the course of the two winters of

that program.

Subsequently I worked for Fish & Wildlife Service in the Prudhoe Bay oil fields on permitting-related comments under the Clean Water Act process and Fish & Wildlife review. I worked on bird and habitat contaminant studies. I did quite a bit of research in the oil fields, in the Colville River Delta on bird studies, and also for nonprofit organizations on the cumulative impacts of oil and gas infrastructure and activities on the North Slope. I wrote a report, Broken Promises, the Reality of Big Oil in Alaska's Arctic.

This is important to me because it's the whole enchilada on the North Slope. We have no business going into our world-class Arctic National Wildlife Refuge.

It's been protected for over 58 years up until the Tax Act for its value as an intact whole ecosystem of many diverse parts.

The coastal plain has always been part of the refuge, and it is a uniquely diverse landscape compared to the rest of the North Slope in its dozen rivers traversing from out of the Brooks Range to the coast and the coastal lagoons, the barrier island and lagoon system, the river deltas and the hilly terrain that is present there.

These present unique problems to the potential for oil and gas in the coastal plain, number one of which is

the lack of water because there are no big deep lakes like where oil and gas development has happened to date on the North Slope. I'll get to that in more detail later in this.

First I'll come out on the problem of this meeting.

I'm disappointed that there was no actual hearing where we would speak directly to the officials who are making these decisions and where each person in our community of Fairbanks can learn from each other about the insights they have had from reviewing the impact statement, what they know about the refuge, their decades of experience with this spectacular place that is so important to us in our community.

From here it's almost completely unbroken protected public lands from here to the Arctic Ocean. It's unique in the world, and it is part of the quality of life of Fairbanks.

There is also no ability for the media to hear what the public has to say without interviewing based on their own questions of what might be good things to talk about and no interplay of people choosing to say something else because of the conversation.

I believe that the Interior Department did not want to have a hearing that was a strong turnout of people who care about these lands in our backyard in Fairbanks. And there was five days' notice of this hearing.

There was only from February -- I can't remember,

actually. The day that the notice was in the paper in the

classifieds on Friday in the Fairbanks Daily News Miner.

So that is the only public notification that the general

public might have gotten. There was an editorial in the

paper that didn't have all the information.

I'd like to request a 60-day extension. This government shutdown was a real impediment to review, and that time period should not be considered part of the public comment period because we could not get a hard copy of the document or a CD copy, even though we can't get those today, even though the government is back in operation. There was no way to ask questions of officials. Many of the websites were down where you would do review of references that are USGS documents, BLM documents. There were many websites that were inaccessible due to the shutdown and research.

Furthermore, it was the Christmas holidays and not a happy time to be reviewing this kind of a document with Christmas, New Year's, Martin Luther King day all in that time period.

So the Environmental Impact Statement is a very strange document. It is an unconventional format. It's disjointed. It appears to be structured with its various

appendices in order to initially at least meet page limits for the main document. It appears that material is kind of cut randomly. Some tables are in one appendix. Some tables are in another appendix, whether it has to do with caribou, vegetation and so on.

Similarly, there is no coherent summary document that a person in the general public would be able to understand at all what the alternatives are because there is no maps, what the wildlife resources at stake that overlap with potential oil are, and just basically an impact summary. There is no conclusions about impacts being major, minor or moderate or the magnitude of the impacts.

The cumulative impact analysis is token, at best, and does not provide a long-term view of what this full potential oil development with where the potential oil -- all the oil prospect are, what it could look like into the future.

One of the real challenges with this Environmental

Impact Statement is the hypothetical development

scenarios, as well as what's in or out of the 2,000 acres.

So there is not described how the government will keep track of the accounting from now until 130 years from now of the infrastructure, the permanent infrastructure, what's included within the 2,000 acres. The EIS assumes in its impact analysis that that 2,000-acre standard will

hold for the life of potential oil development 130 years from now till it would reach full restoration after the life of the fields.

And it assumes that in many places there are tables or discussion about surface disturbances from activities, and uses the term "surface disturbance" as if it covers all activities, not just what they have defined as being within the 2,000 acres for permanent infrastructure for production activities.

So in the discussion of the hypothetical development scenarios, they are only considering what BLM chooses to count within the 2,000 acres. There is no realistic look at whether the two little spider web things that have a central processing facility in the middle and six spur roads with satellite developments, whether you actually could access across the geographic spread of 120 miles of the coastal plain what oil that's found in small pockets could be developed with that typical kind of infrastructure. It doesn't add up based on what we have seen in the Prudhoe Bay oil fields, Alpine, Moose's Tooth 1, Moose's Tooth 2, and now Willow in the NPR-A, plus offshore development.

They have chosen to ignore any offshore development, even though the Shell Oil facility still has a lease.

It's not -- I guess Shell is out of it. Arctic Slope

Regional Corporation owns at least most of the lease for Sivulliq project immediately north of -- in the federal waters. There are leases in state waters that are not addressed here. And furthermore, the 2,000 acres does not apply to private lands or state lands, but those impacts? Have not been included even in the cumulative impact analysis.

So there has been no addressing potential impacts from the Kaktovik Inupiat Corporation lands that are within the program area or outside the program area but within the external boundaries of the refuge. Those are important bird, caribou and subsistence harvest areas for the people in Kaktovik.

Furthermore, in the 2,000 acres it does not include gravel mines. It does not include the water, how water will be obtained, and those are very big issues, as I mentioned before.

There is only about eight or ten large deep lakes in the entire coastal plain of the refuge. This is very different from Prudhoe Bay or the NPR-A western Arctic.

Standard practice has been use of ice roads, at the very least, for transporting drilling equipment. In the past they have relied on ice roads for many activities, but due to the short season of -- due to climate change and the costs occurred by doing basic science work to

determine if there is fish, if there is adequate water, there has not been good studies of how the water has -- water withdrawals have impacted the fish or other aspects of the aquatic system.

So if there is no water in deep lakes, the EIS vaguely mentions that they might take water out of -- by extracting pits in -- or holes in the floodplain of rivers, gravel bars of rivers, and then using that gravel, presumably for roads, and then having a water reservoir within a river system.

The other alternative is sea water treatment plants; however, there is no information about the potential impacts of withdrawing zillions of gallons of estuary water, making it fresh, and then disposing of that effluent out into the ocean. It will be warmer. It will be saltier. It will affect the nearshore estuary of the aquatic system that supports migrating fish, both anadromous and otherwise in the lagoons. It will affect the habitat for birds in the lagoons and nearshore waters. None of that has been addressed.

And these river systems of the coastal plain are extraordinarily different than coming straight out of the glaciers of the Brooks Range. Some of the water comes from springs that are fed by water on the south side of the Brooks Range, which is very interesting to think

about. Where is that water coming from?

If you disturb those spring systems that are feeding the fresh waters of the Canning, the Hulahula, the Aichilik and potentially other rivers, as well as -- anyway, it will affect the long-term natural diversity of fish and wildlife and their habitats, the populations in the river systems. That's not been adequately addressed in the EIS and is not captured by this 2,000-acre assumption of what facilities will be needed and activities that cause disturbance in the refuge.

The other thing that can affect the rivers that was not addressed is -- has a lot to do with where the freshwater is coming from. Is it ground water? Is it fresh groundwater? In Prudhoe Bay area, they assume it's saline, nondrinking water. It's dealt with differently. But there are many springs that are important not only for the overwintering fish and spawning fish in rivers, but to subsistence uses along some of the rivers.

And if you have drilling seismic along the rivers, potentially that shaking of the earth could affect the structure of the -- of the earth underneath the rivers or the way that the interplay is between the -- how the spring waters are coming up to the surface.

Also, if you have drilling into rivers or directional drilling under the rivers or too near the rivers, it can

affect how the spring water as well as the freshwater flow is affecting the river systems.

So I'll just -- in the interest of the court reporter, who is doing great, I will mention two other major issues at this time. The 3-D seismic impacts are greatly underestimated in this EIS. First of all, it's not covering any preleasing seismic, which may or may not be allowed at this time. But this EIS should address any seismic activities that have occurred since the Tax Act changed the law and removed the prohibition on oil and gas leasing development exploration in the refuge.

The total amount that the application, the SAE company applied for under a separate process that is being dealt with by an environmental assessment at this point outside of the EIS process is just wrong to do it, number one, in an EA and, more importantly, it should be considered with this whole EIS.

That program assumed that the entire 1002 area could be covered with 3-D seismic. That acreage is more than the total amount of acreage and seismic impacts that this EIS assumes will ever take place through cumulative impacts in the coastal plain. The EIS fails to address 3-D seismic that would occur throughout the life of an oilfield, both preleasing, post leasing, and as companies are deciding their delineation for how -- where they are

going to put -- where they would put oil fields and where the oil, if it exists, is located.

So the impacts to this surface disturbance to the vegetation, to the subsequent hydrology, to thaw of permafrost is not considered. It's not evaluated in light of climate change impacts which are speeding up the rate of hydrological thermokarsting even today in the coastal plain. You can see from the surface of the lands where it's ponding where when I first started looking at this area back in the '80s, that rate of ponding in many of the regions of the coastal plain was not as prevalent.

There are issues related to the banks of rivers that may be damaged by seismic, as well as how the -- both the seismic vehicles and, as importantly, the vehicles that are carrying the camps are addressed. There is very little recognition that the size -- in this EIS that the size of crews are double what they were back in the 1980s era seismic. They are talking a couple thousand miles of seismic compared to 25,000 miles in the survey of a very much tighter grid of lines that may be as close as 600 feet apart compared to miles apart in the past.

So the potential damage to seismic is much greater just even to the vegetation, the hydrology and the permafrost, much less to polar bears, denning polar bears, their critical habitats along stream banks. And again,

the fact that climate change is affecting both the habitats of the bears as well as the potential way that oil and gas operators would be out there. And conditions of the length of the season, the amount of snow, all those factors are underestimated or not addressed at all in the seismic element of this EIS.

Finally, I'll speak to -- this has been a refuge since it was -- the lands were withdrawn prior to statehood for the purpose of a refuge in 1958 -- 57, '58. Many Alaskans, people from Fairbanks, citizens from Fairbanks, were involved. Even the Fairbanks Daily News Miner was in support of the refuge in that era and the fact we had a rare chance to protect the integrity of a landscape at the ecosystem scale. The loss of that value is not well addressed at all in this EIS.

The history of the refuge, why it was founded initially, as well as the additional four purposes for -- that were added under ANILCA to protect fish and wildlife and their habitats and populations in their natural diversity, water quality and quantity, subsistence uses and to uphold our international treaties on wildlife, those are core purposes for the refuge that exist today even with this element of oil and gas leasing mandated by Congress.

So the EIS is deficient in considering those purposes

of the refuge. They address some of the wildlife, but not how it all fits together and the intact natural landscape.

The EIS also fails to address the existing wilderness values of the coastal plain area of the refuge, which are still a purpose in effect today. And it addresses a little bit about visual impacts, but not really about noise and kind of assumes that people will have a -- the same kind of experience if they are going down a river and they pop up their head on the bank and can see 20 miles away some oil activity; it will not be the same kind of experience.

Furthermore, from the slopes within the designated wilderness that you can today see across the broad sweep of the coastal plain all the way to the ocean, that vantage point has sight, sounds and a great loss of the ability to see that natural landscape from the mountains all the way down to the coast as we have today in the refuge.

So at this point, I've spoken enough for now. And I'll see what else I come up with and give your colleague some business later in this hearing.

But in closing, I urge -- I've thought of one other thing I need to address. The alternatives, especially for caribou, have a faulty analysis that needs to be completely redone with comparing the alternatives.

The EIS assumes that no leased acreage and no surface occupancy acreage are the same. And it does not distinguish the true difference of no leasing from -- so two alternatives would offer 1.5 million acres, the entire coastal plain. The only other alternative would offer one million acres of the coastal plain, holding back about 500,000 acres from leasing, but the analysis does not even break down the difference between those choices. It muddies the water by assuming that no surface occupancy will give the same level of protection.

But even under no surface occupancy or any of the required operating procedures, they can be waived by a BLM official. They will not -- only lease stipulations would be binding in a lease. Operating procedures that aren't leasing stipulations would not be within a lease. But even if they are within a lease, the EIS says they can be waived. It does not provide any kind of meaningful criteria about how they could -- by what provisions they could be waived, accepted or exempted, all of which are ways to say that -- that there would -- could be occupancy.

Furthermore, the occupancy only applies to certain permanent facilities. It does not appear to apply to gravel mines. It does not apply to water reservoirs that might be dug in rivers. It does not apply to 3-D seismic

activities, winter exploratory drilling or even summer exploratory drilling. If they did that without it being a -- well, it's unclear for exploratory drilling.

No surface occupancy doesn't affect the ability for airplanes and helicopters to land and take off, and there are no timing restrictions for exploratory drilling operations, geophysical seismic -- geomagnetic operations involving low level aircraft flights or other things that may take place even in caribou calving grounds, much less the post-calving grounds.

And in this EIS, calving grounds are -- there is errors in how -- and deceptive graphics and poor graphics about how calving areas are defined. All the coastal plain is important for caribou calving, post-calving, insect relief, movements. This is a very vulnerable, critical period in the life of a caribou, and they are an integral part of the landscape, both vegetation, other animals, and they have been using this area for many, many millennia.

The EIS has downplayed and made arbitrary definitions based on unknown range of dates for how they are showing what's important for concentrated calving, much less all calving, and the very important post-calving use, which is not adequately protected from -- considered as no leasing areas in its entirety in an alternative.

So to sum it up, the range of alternatives is not sufficient to adequately address the potential impacts.

The no action alternative was not accurately described in terms of what's there today, how the land would change.

It's basically a non -- it's not addressed well at all.

And in order to truly see the difference between what would happen for 100, 130 years of oil operations in this area, we need to see the no action alternative better addressed.

So thank you very much for this opportunity to comment. And I ask for another -- for a real hearing in Fairbanks so people can speak directly to each other and to the public officials. And I think I already requested 60 days more for a public comment period. The public deserves it, given the magnitude of the change this area will face. Thank you.

MR. GIDEON JAMES: I have been involved with the tribal organization for the last 30-some years, and I'm retired. And I work for Native Village of Venetie Tribal Government, and they have their -- their option out of the land claim bill. So we don't get benefits from the land claims.

One of the things that it bothers me, it bothers the -- is that the process the government used to develop resource, especially in Alaska. And you and I know that

these leases happened in 1967 when they first discovered oil, and there is 900 million dollars in leases that happened before 1970. So they went on and they got into Pad 4 and did the same thing. They didn't hold a hearing on that one, but they lease there, too.

And both lands, there is a lot of lease that are given out to the oil company. Over half of it is still there. To me, they -- we have enough lease, both federal and state land, to continue. Maybe you know, they want to drill some more, there is lease available.

They don't need -- they don't need ANWR because that's where -- that's where animals use that area to begin new life, you know, like, the ducks come from the south, caribou migrate over land, and they go into that area to calve.

And in my experience -- I'm -- I'm 78 years old now. In my experience, when you -- when you come close to ducks with their eggs, they come and try to attack you. Same thing. Same thing will happen in -- same thing will happen. They go to the area because it's -- it's -- it's remote and it's close to the shore and a lot of mosquitoes in that area. And -- and they -- they get -- they kind of get relief from that.

So they should leave it alone and let it -- let that animal continue to use that area. That's where they can

nest and they can -- calving ground would be there and continue to -- to do -- to exist like that.

They don't need no more leases. You know, the leases -- the leases happen. I see it over my lifetime in the north that -- the one at Prudhoe Bay and the one at Pad 4, a lot of lease are still in. They are still there, and they have never been tapped. So has Prudhoe Bay.

And all the government is going to do is give the industry more -- more lease to sit on because I know for a fact that the reason they don't tap those leases is that the oil price go down. When they go up, that's when they tap -- when they drill. And you and I know that.

The resource -- we are talking about only one resource. Alaska have tourism. It's got -- it's got fish. It's got timber. It's got minerals. That's five resources.

For the life of me, you know, the state doesn't have -- doesn't generate enough money and enough funds to -- to have a good educational system or a good health program. They never did. Instead, they just keep continuing to cut, cut, cut.

And I'm telling you, the corporation, the big corporation like Exxon, big corporation like big mining company, they -- they come in there and just take it.

They take it and leave, just like Exxon. Just like Exxon

made over -- almost over 200 billion dollars from up north, and they are still doing it.

But educational system is so bad in Alaska that our kids don't get a level of education they are supposed to have at a certain age. I see some dreamer that they want to go to college and stuff like that, but grade level is so low that they don't qualify. And it goes on and on and on like that.

And what we need to do is -- is put a restriction on these big corporations and just don't scatter all the way around where they could ruin the water or they could ruin the water what the animal use. They could contaminate that vegetation that caribou eats, stuff like that.

And right now, we have -- we used to have control over our fishery, and we don't have it no more. We don't have it no more. Same thing with the timber industry. See, like plywood, maybe this table, we have all the resource in the state to make it in state and be able to get value added -- value-added money to support the education system, but we don't have it. They would rather take it down in the Lower 48 somewhere and do it there, and we pay for it more. Same thing they do with oil.

I know that's going on. I know that's going on. And under Native land claim bill, there is a section to see how much money that they would give out. They agreed to

give out \$500,000,000 to set up the corporations in 1971 or '72, like that. And then they going to wait.

In the next 13 years or so, they are going to pay -they want to give out the rest of it. But during that 13
years, they built the roads. They built the pipeline and
they started pumping in 1977. And I tell you, the oil
company is having a field day since 1977.

The oil -- there is oil that can go down to 20 bucks a barrel, they still can make money. That's how -- that's -- that's how -- that's how they do it today. They want to go to ANWR and they don't need it there.

Plus that, they -- they going to ruin that water and they are going to contaminate that vegetation that animal use when they come to breed. I live in Arctic Village, and we optioned out of the land claim bill.

And I see the animals that come through there. When they go to calving ground, it's amazing to see. It's a line. It's a straight line that just goes through the mountains and down the valley and go that way. Same thing with geese. Same thing with geese. They fly over the whole week. They are going over there where they -- they say they are going to drill. I just don't see -- I just don't see any benefit at all to ruin the land the animal use.

See, we are doing okay. We are doing all right as

people. We have jobs and stuff like that. We are doing okay. So the fuel is high, but it's been high since as far as I can remember.

But like I said, even though the state has so many resources, the educational system is so bad. We should be able to get to have a scholarship program. At the university level, we should have the top athlete that comes to the state, but we don't have it. We don't have it.

What we need to do is -- is corner our legislator, corner our senator and really -- really put them in a corner where, you know, they have to answer -- they have to have an answer to the people of the development of this. It doesn't -- it doesn't -- it doesn't benefit. The only place that benefit that when North Slope created the borough, they do better than the state of Alaska does; way better.

Our legislature is every one of them, including our governor, is nothing but puppets to the big corporation. That's what they are. And I'm ashamed of them. That part I -- I have it in -- I have it together where, you know, I see what happened in the past, you know. I see what happened. It's not going to change. It's not going to change. It's not going to change the way our educational system runs. It's not going to change. We are just going

to ruin more -- more land, pollute more water. That's all -- that's all it's going to do.

And our nation is being -- is where they call it the climate change. And climate change come from burning of fossil fuel. You and I know. And it cause tornado, it cause flooding, and it cause fire. And it -- and it cause climate change in different areas. Just like right now upper state New York, they are getting cold weather, and it's never been like that in my lifetime. We have a president that don't want to understand. We have a president that's stupid.

What really need to do is conservation measure, conservation measure. That's what we need to do is to educate our kids from the very grade school. This is what we need to do to -- to keep the climate balanced, not like this. It's like this right now. It's not going to come back, even. It's not going to do that. We need to educate our kids what will happen in the future. It's happening already.

Like people 1,000 people lost their home to the fire in California this year, and that's climate change. And our president is so stupid that he don't understand that. He don't want to understand that. I don't know why -- I don't know who voted for him. Sure as hell I didn't.

He has attacked many of our allied nations, and it's

unstable today. And the young people that are in the service, they are in danger of being called to unnecessary conflict. Right now it's like that.

Thank you for writing it down.

MS. HELEN HOWARD: I joined the Fairbanks
Climate Action Coalition because I'm particularly
concerned about the environment worldwide.

As global warming is obviously being caused, we see a lot of that in Alaska. And I'm concerned from the worldwide point of view not to damage the North Slope with oil development, not only for the -- for the sake of the Gwich'in people and the caribou, but particularly also for the nesting of wild birds.

And I'm concerned that we have some areas of the world that are kept pure to help heal the rest of the world from the damage being caused by mankind's activities.

So I do not agree with the idea of developing the North Slope for oil, although it is already being developed partially, but I do not want to impact it even more than that.

I think that's generally what I wanted to say. So I appreciate it. Thank you.

MR. MICHAEL TRITT: Well, I would just like to say, as a Gwich'in Athabaskan, I oppose this, as

it causes encroachment on our ancestral lands. You know, every year we fight. Every year we fight. No other communities, no other cultures have this kind of problem in America. If I wasn't from America, if I was Pakistani or any other race, we wouldn't be doing these same things all the time.

I just don't understand how -- I don't know if these can be called successes since each one of these unlimited reserves seems to be very limited. They barely last five years, if that, you know.

So mostly what I'm saying is the human element is not being considered here. These are actual people, living people. This land base has always been our land base before America was America. Mostly I just came up here to say I am in disagreement with this whole plan that somehow got through the system. I mean, all of this stuff is legal until people no longer recognize the law, apparently.

So my whole thing is I just -- I just -- I don't understand what a 20-year plan is here. Everything is getting destroyed. This is the last piece of earth left. Basically you go up in an airplane, everything is devastated. When is enough enough? \$8? \$80? \$800? Eight million? 80 million? Eight billion? 80 billion?

So, I just came up here for rant. I think I'm done.

Thank you very much.

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MS. CAROLINE TRITT-FRANK: My name is Caroline Tritt-Frank. I'm from Arctic Village. I grew up in Arctic Village and I was raised in Arctic Village. I know it's going up there. The whole village, the majority of the population depend on caribou for -- for subsistence use, and -- and the elders in those days don't usually eat store meat. They always depend on the caribou. And as the years go by, people are still using And because of that economy, it's been too high. caribou. We don't usually get meat from the store here in Fairbanks. And we get meat in Arctic from somewhere at the store, but people don't usually eat it or use it.

And the reason why that the caribou, the migration, the places where caribou are calving, I do not -- I just have a strong feeling that it would destroy our culture because it's already on the base of being lost because our language are used only by people that are in their late 40s now on up.

And the kids, they don't -- they don't use Gwich'in anymore. They are speaking English, which is not -- which is not very appropriate for them to speak English because it's not their language and it's not -- it's not what they understand.

And I think if they interfere with the caribou, that will destroy their language, their way of talking because everything that they use on caribou is used in Gwich'in.

And so every single piece of the caribou has a Gwich'in name.

And a lot of people -- a lot of elders, they usually speak about hunting, about everything that happened in the past because the caribou is so important that -- that we really need it. I mean, if -- if they interfere with their migration route, it's going to change -- it's going to change our route because it wouldn't be able to follow the same route again and they don't go through Arctic Village and Venetie.

So my grandfather said that if they interfere with where the caribou go, the caribou will make a different route, and it's not going to go through Arctic Village.

And that would be hard on the people.

And I think caribou is more important than the oil that they are looking for. I mean, you know, we don't live on oil before. You know, we don't depend on that.

And all it's going to do is just disturb our ecology, and it's not going to be very useful anymore. And I don't want that to happen because in the future, the kids are still going to live on caribou. It's not going to go anywhere. It's going to go on and on and on.

So what I'm really concerned about is that I don't want them to disturb the caribou because that's where all the language is coming from. And if the kids know their language, it will make more sense to them. Right now caribou is nothing to them because they don't speak the language.

So caribou -- caribou has a lot of meaning in Gwich'in, in the language because they tell you where they live or they tell you where to go. They tell you all this stuff about caribou, which the Gwich'in people can talk about in their language. So I think the language is a major concern for me and the caribou that the elders live on. We hardly got any elders, but there is still elders up there that really live on caribou, and they don't really care about store meat. This is my concern.

I think that's it.

MS. JODY HASSEL: Hi. I'm Jody Hassel.

I'm a third generation Alaskan, and I've lived in

Fairbanks, Alaska all of my life. And I am very concerned about the proposal to open up the Arctic areas for further development. I think further developing fossil fuels in this country and in the world is a mistake. And I believe we need to invest in alternative energy sources and protect our wildlife and our wilderness in this state especially.

That's the end. Thank you very much.

MR. KENNETH FRANK: I just want to say a little comment I learned from my grandfather. Our ancestors said that -- they told us this word about (speaking in Gwich'in). It mean -- they told us not to -- not to get away from their guideline of survival. They said don't forget their name, don't forget their -- their way. And it's a good message for us and not to forget them.

And in the past they -- they -- the way they learn about caribou was -- was one of them, was one of the guidelines. They learned -- they learned the way of the caribou. The caribou is the one that taught them how to survive. And the caribou taught them how to -- how to use whatever is on those caribou. And they gave us all the stories and the knowledge and everything to the people.

That kind of -- I don't know where it started, but it was way back in early time. And from that they learned a lot from the caribou how to -- you know, how to use whatever is being used on the caribou, like the skin, the meat and the intestine. And everything is being eatable, you know, the head and down to the hoof and -- and that's what they -- that's what the caribou taught us.

And then they taught us to -- how to take care of them. They taught us how to -- not to disrespect the

caribou. They taught us not to neglect the caribou or, you know, to do wrong to them.

It's a good message that our people had. So with that, you know, we -- we use every part of the caribou for survival. And so that's how we survive from way back. So I think it's a good message. And some of our people, you know, we still hang onto these stories to -- so we can bring that to our generation for our people, for our kids to depend on the caribou.

I think it's a good message that our ancestors -when they said not to forget them, and that's one of
the -- one of the main message that we have today. Our
people don't know these message, but there are some people
that are out there that know a lot of story about Gwich'in
people. And that's one of the stories that I want to hang
on to to build on it so I can care for the caribou and in
return the caribou will help me to survive.

That's probably the only message I have for today. It's a good story.

MS. MARTHA RAYNOLDS: So I am submitting written comments that address technical flaws in the draft EIS, but I also want to comment on the more spiritual aspects of the development in the Arctic National Wildlife Refuge.

When are we going to draw the line? When are we

going to recognize that human beings without a robust natural environment to inspire them are just a shell of what they could and should be? Every indicator in these times say that we have reached the limits of what the natural systems of the earth can sustain.

Our emphasis should be focused on how to live sustainably in harmony with natural ecosystems, not on how to extract even more from them. We cannot burn the currently known oil and gas reserves and keep below catastrophic levels of global warming. We do not need to explore for more and certainly not in this most sacred place.

This is simply a case of the tragedy of the commons, a greedy rush to get the last drops where all lose from the greed of each separate person, company and nation. We can and must do better than this.

MS. HEATHER MACFARLANE: Hello. I am here today to express my concern about opening the coastal plain of the Arctic National Wildlife Refuge to oil and gas exploration and extraction. There are innumerable studies demonstrating that our climate is warming at a record pace, which will have disastrous effects on the global population, biodiversity and economy. With this knowledge, we cannot in good conscious continue to extract more fossil fuels.

ANWR was set aside as a public resource, not as an economic and corporate resource. This land must remain preserved for the wildlife already threatened by a changing climate, including polar bears using the land for den sites and the Porcupine caribou herd which uses it for calving.

It must be preserved as matter of human rights for the indigenous people who have a spiritual and physical connection to this land and wild inhabitants. It must be preserved for all citizens whose public land it is so that everyone can experience the beauty and wonder of wild places.

Thank you.

MR. SAMUEL DEMIENTIEFF: Well, I'm here representing myself. I was born 79 years ago here in Alaska, Holy Cross on the Yukon River. My family, my mom and dad, operated riverboats up and down the Yukon and Tanana rivers for many years during the war years and right on up through the early 1960s.

During this time, we got to know many people, young people up and down the rivers; at least I did, and going to school at Copper Valley school and Holy Cross Mission, and going to school in Holy Cross, Nenana, Fairbanks and Copper Valley.

In the boarding schools, I met many of the people

that were my age and generation that were growing up during the pre-ANCSA period, Alaska Native Claims Settlement Act. So we got to know each other.

Now, during this time, the kids were always sending back home for fish or food from the villages because they aren't used to eating the food from the schools. So as a result of that, we learned about each other's areas where we come from.

So I come from the Interior, all of the Interior of Alaska, and I knew people, young people from all over the whole state.

So the thing I want to say is that during those early years and before that, my family and the older people lived off of the land. That means they used fish, furs, game, moose, caribou, all the different things from the land. So their livelihood comes from the land.

And so they have developed a feeling of understanding that this land, this earth and this land, all the waters and the air and the animals provide for us. They provide food for us and have sustained us for thousands of years.

And now we see that, as you see economic development take place, development of resources in Alaska, of gold, coal, oil, all the other things, they leave behind some -- some disturbed parts of the area they were in. And I believe that these disturbed parts are going to be -- not

going to be able to provide what they used to provide for the area, meaning furs, animals, fish, plants, clean air and water because they are disturbed.

And so I'm opposed to the development of the Arctic Wildlife -- National Wildlife Refuge, the 1002 area. I've flown over the area, and I've worked up on the North Slope at Prudhoe Bay and Deadhorse. And I worked for the federal government for 13 years as a Bureau of Indian Affairs Regional Director here in Fairbanks. And I've worked for a number of nonprofit Native associations here in Fairbanks. I was on the State Board of Fisheries for a term. I worked for Atlantic Richfield, Alyeska Oil, Alyeska Pipeline Service Company.

So I've seen the oil development as it relates to Prudhoe Bay in the early years. In 1969, I went to school at the university, got my certificate to go to work in the oil field, so I was hired by Atlantic Richfield. And I've seen the early development years of the Prudhoe Bay fields and see how the oil companies operate and how they develop. And I was up working on the Alyeska pipeline when the oil came through the pipeline all the way down to Valdez.

And my points I want to try to make is to understand that the earth has to keep producing what it does for people as it has for many thousands of years. There are

different time cycles. And I believe that the emissions
from oil is polluting the air. It's polluting the water.
And it's polluting the ground and everything that it comes
in contact with.

So I know the oilfield people do everything they can to clean things up, but still it's like saying clean coal, you know. It's like saying not oily oil. Oil is oil.

And it's -- so when you develop it, when you produce it and refine it, it provides -- it does a lot of different things to the products it produces: Plastics, grease, oil, fuel, gas. All the different things that come from oil in their development causes also pollution of the area that it's produced. Could be anywhere for the Arctic.

So I'm really concerned about the future of the world, my kids and grandkids. Whenever you see a huge mine in an area, and depending upon what kind of a mine it is -- if it is cyanide leaching to get the oil out of the ground, a cyanide body of water that's left over after it leaches out gold is left at the mine site, and it's there. And the tailings that are -- where the oil is dissolved through and come out on the bottom in a slurry, it goes into that lake.

The dirt that's left as a result of the gold taken out of it is put in a stack out in the mine area. So when the mine -- when the mining company, that mineral company

leaves the area, they reclamate the whole area, they say, but they leave. And the only thing that remains there is the cyanide-laced water and the cyanide tailings. And they are -- they are there for many years. Cyanide lakes are -- in the Lower 48 they are pretty much all around the midwestern states.

And I think this -- my concern is if they develop the North Slope, continue to develop it, especially in the calving area, the caribou -- there is a place between here and Nenana called Caribou Crossing on the Tanana River.

And it's called Caribou Crossing for a reason, because caribou used to migrate through this area, too, and they used to cross at that area.

There are places on the Yukon River that they used to cross. They are called caribou crossing areas. In the village, people know of these areas. And you can ask village people now if there have been any caribou crossing in those areas. There is none. There have been a few recently. About 15 years ago, there are some caribou came through here once, but that's it.

So what causes the caribou to change their migratory patterns is a good question, but I believe that if you disturb the calving area for caribou, which is on the North Slope, it's a perfect area for calving: Protection. The caribou can see for miles. They can see any danger on

them. The site that they are on is level. And all of the food they need is all over that area. And it's perfect for their calving area.

So if that's disturbed and that's where this oil development is going to take place, I have deep concerns that it's going to change the livelihood -- not the livelihood, but the birthing place.

And also if it's done, what I mentioned earlier about all the pollution of the hydrocarbons in the world is it's just going to continue to develop. So I'm opposed to any development on the North Slope. I'm concerned about the pollution of the earth. And I believe that for the generations to come we have a responsibility to say something when this takes place and this is happening to the earth.

So I'm just here to oppose the drilling, and I say
I'm mainly concerned about the future generations, and I'm
especially concerned about the earth, its environment, the
water, the air, the sea and the land.

So that's my testimony.

Mr. JOHN D. CALLAHAN: Thank you. My name is John Callahan. I was born in Alaska. I've lived here all my life, and I've followed this issue for years and years.

Basically, I thought this refuge was set aside for

wilderness and that the people up there have been living there for thousands and thousands of years would be left alone to live.

And this new action that was put through in a backdoor deal by Lisa Murkowski, our senator in Alaska, is not the people's will. This has not been through because most people in America did not want this opened up and disturbed. Now here we are at this time. And I believe that it's going to just be a permanent change of that whole natural pristine wilderness up there.

And also it's going to impact those Native people that have gone through so much in Alaska and throughout America. And they -- they need to be respected and let them live their lifestyle. This oil development in Alaska has impacted the Natives, and it's going to impact those people, and not in a positive way.

We need look at the long term. This project is only for a small -- it will be a small amount of oil getting out of there that's not needed. We are now exporting our oil in America, so all we're going to do is be pumping this and selling it somewhere, so it's just for profit. And it's not -- it's not necessary to go and destroy that area up there.

That coastal plain up there is one of the few areas in the world left that has been virtually untouched, and

that caribou herd is the largest caribou herd that I know of. We used to have them all over Alaska. Now it's the last great caribou herd, and that doesn't need to be disturbed.

The bottom line is we have to change. We can't keep doing the same thing over and over. We have a definite problem with global climate change. It's getting worse and worse. The scientists have said we have, like, 12 years to change our whole economy. And to just keep on doing the same things over and over is just going to take and make things worse. We have to listen to sane people and change this whole idea.

A little bit of money for disturbing this great, great area is just outrageous. It's just plainly outrageous.

We are getting into the point now with global climate change, from what I've read, that now we are getting into these feedback effects where the tundras that have been frozen for thousands of years are being disturbed and they are starting to thaw, and the oceans have warmed so much that now they are causing release of even more greenhouse gases. And that's what is not -- it's getting beyond what man is doing now. Now nature is starting to release what's been frozen and encapsulated for who knows how many thousands of years.

And so we have to make a stand. We have to stop this development of oil. And as far as what's been developed and what they are doing, I say we have to use that as a -- to get by until we have got a replacement in renewable energy.

Thank you.

MR. JOHN D. BENNETT: My name is John
Bennett. I'm here representing myself. My email is
hydrojohn@gmail.com. My street address, 1479 Farmers Loop
Road, Fairbanks 99709.

I think opening up the coastal plain is a ill-conceived idea. I've worked up there since the mid-'70s, first as a laborer where I was working outside in the winter. Now -- in between I worked as an engineer and geologist for years for DOT. And I'm a hydrologist for DOT right now.

It's a harsh environment, but it's very sensitive, and there are still scars from early exploration. When I go up there, you know, I still see Cat tracks from the '50s and '60s. A lot of the projects we do along the Dalton Highway, you disturb the organic mat and it starts -- it disturbs the thermal regime, starts melting.

Right now the fiber optics companies are up there and they are putting trenches in the tundra, and you are ending up with linear lakes that parallel the highway for

miles and miles for the entire stretch from the Brooks

Range to the ocean. We are having fires up there on the tundra. The tundra -- the permafrost is melting and it's collapsing as a mat.

The road was taken out a few years ago. And I have a suspicion it was Great Bear. They were doing fracking up there and doing seismic lines on the Franklin Bluffs Foothills. And there has always been aufeis accumulation on the Sag, but I think it's being exacerbated or it was that year exacerbated by the exploration and the fracking that they did.

Right now we don't have to worry about energy independence. This is going to be for export to our competitors and to our military adversaries. You know, if the Huns were at the door and we needed to defend ourselves -- anyway, I think it's for profit and it's -- it's not warranted right now. This will be for export.

I didn't prepare anything. I think I hit my high points. I don't think it should be done. I think most of the oil is offshore. I think that's even more dangerous than being onshore.

I worked outside, 100 below zero with chill factor.

It's tough enough for people to perform, but there is

metal fatigue. It's tough designing things on that. And

if there is a spill or some kind of accident, you are not

going to be able to -- you are not going to be able to do anything. It's just going to be saving the people and saving the equipment. And it's going to decimate the environment up there.

Anyway, thank you. That's it.

MR. PETE PETER: I'm a tribal member of
Native Village of Venetie Tribal Government. And I served
15 years of my time in the government, all honorable. It
was like serving on the village council -- city council.
We take care of all the elders, our trash, you know,
anything like that, or hazardous material like --

I really know all this stuff as hazardous material is -- in the Army, I served 26 years, then retired. And I retired here in Fairbanks. I got a house. I take care of my dementia mom.

But I go hunt up there in the Arctic Village for this rich caribou because each caribou, wherever it's from, it tastes different. The caribou -- we are talking about the Porcupine caribou herd. It eats that lichens off the mountain. A lot of that plant grow up there. It eats that, and that's why it tastes real good. Even moose is like that. If you harvest a moose from the lakes that's been eating in the lake or out in the open country, it wouldn't be that rich. It has to eat that lichen like the plant, their food. Like Arctic Wildlife Refuge is full of

the caribou, their food.

Also the reason they are surviving all these years, thousands of years, is because the caribou, it -- when it calves there, the babies will survive. Or otherwise the mosquitoes will kill the babies. So as -- that's the only place it's -- it's been surviving for thousands of years. And it's our main traditional food source.

And getting back to, like, my mom who has dementia at Denali Center, I have been cooking for her traditional food since 2014. And we notice that the elders that they bring from the village when they get too old, can't take care of themselves, they put them at Denali Center. And we cook traditional food.

And like stuff they don't eat -- you know, in the village, they are used to traditional organic meat like caribou, but when you bring them in here, a lot of them just die off because they give up eating. And one of the important things to stay alive in old age is you have got to eat good food.

And also during the Cold War from 1945 to 1989 is when the Berlin Wall fell, and that's when the Cold War ended with the Russians. But before that during that time, our people, we trained -- we trained U.S. Forces Brooks Range where it's really cold. And our scenario is if the Russians would have took Alaska, we would have went

into the mountains and fight them just like Afghanistan.

That was the Army's goal with that.

But to get back to the caribou, we used the caribou to teach the guys how to survive, how to harvest caribou, how to skin it, the bones that you could make tools out of. Basically survival.

So the tribe, Venetie and Arctic Village Tribe,
Native Village of Venetie Tribal Government, they really
helped the war by training U.S. Forces to be able to fight
in Alaska. And main source we used was caribou, the
caribou meat. And we mix it with MREs and stuff like
that, make stew like that. Those guys also learned live
off the land, like catch rabbits and with the skin make
clothing.

And during all that time, 1945 all the way to 1989, the tribe was real instrumental in training the U.S. Forces to be able to survive because World War II, when that started, our troops went on the Aleutian Islands, about 50,000 troops to fight the Japs, Japanese without even one shot -- one round shot, 30 percent casualty of cold weather.

So you could see that's like -- that's like a regular combat. You go to combat, 30 percent casualty, that's expected. But not cold weather. So the Army had to learn.

So since the caribou is a big food source for us, we cooked that for them, hot meals. Sometimes we make -- you know, you use caribou for Hamburger Helper, stuff like that. Like here in Fairbanks in the urban, you go to stores, big store and you could buy -- you know, you could buy Hamburger Helper. What you going to buy? Hamburger, right?

And our traditional food back home, it's the same source of meat like in the urban where if you go home tonight and you are going to cook, you are probably going to get either chicken, pig or beef, right? For your breakfast you got to have chicken, right, for the eggs? Back home, it's the same thing, the caribou. It's a main food source. Because if you buy a little chunk like this (indicating) almost as big as your hand, a chunk of meat in the village, it would probably be like about \$50, almost. Why would you spend so much that money?

It's survival, too, because you can't -- you can't survive on that little chunk of meat in the store. You rather get caribou, bring it home, butcher it, bless it.

Part of our big thing is our religion. It's part of our religion because when the weather gets real cold, you know, the way the caribou acts, we even know how the weather is going to be, like if it's going to be cold or if it's going to be warm weather.

And all the beliefs come with that caribou. And the bones is our tools, you know. We use our regalia. Back in the day, we used it for knife.

Also I want to testify in my language. I'm also a federal translator for Gwich'in. Anyway, translating this (speaking in Gwich'in).

Getting back to the English, caribou is very, very important to us. The trails are there for thousands of years, and they are still there. And you know, it's old ecosystem, like the geese, waterfowl, they all breed there, too.

And those little, tiny shore birds, we call it dill. It's like dill pickle. They are -- dill are little shorebirds. And those are -- those used to be a lot, you know, around, but even that, this little bit cut back, we don't see it that much. But those are really born in the Arctic Refuge, too, because the water, waterfowl, geese and those are important, too. Important, also.

One of these days we are going to have no animals by what man is doing. We are getting greedy here. In the North Slope, Deadhorse area, they found 40 more years of oil already. And why are they interfering with the Arctic Wildlife Refuge? Congress designated it.

The American people really appreciate our last frontier. And Alaska, everything out here is last

frontier. Everything down Lower 48 is contaminated. And as Americans, we should treasure our Alaska as a natural resource.

And also like Yellowstone. Because Yellowstone was created, too, to save the buffalo and the animals. You know, buffalo was -- about 100 million buffalo roamed the United States before, and the U.S. government came in and basically massacred a bunch of them, \$4 a skin. The United States Army paid for that so people put down the \$4 a skin. The reason they did that was because they wanted to starve the Native Americans, and they did that.

And now they are trying to do a similar form of waste with paperwork with the Arctic Wildlife Refuge. They are trying to do that, too.

When is man going to learn that you can't destroy your own environment? That's like we are destroying our own house. It's the same thing because, you know, Arctic Village and Venetie is close together. All the land around it belongs to the tribe. But Arctic Wildlife is north of us. And for thousands of years we protected that area so the caribou would breed there. We always protect that area. We are talking about thousands of years here.

And the oil company, they just existed not long ago.

You know, first contact with outside with Native American
in Alaska was -- for us, the main contact was the Hudson

Bay Fur Trading Company in 1847. That's when Hudson Bay got first contact. And got introduced to the rifle and pots and pans and stuff like that. And that really made our life easier for us.

And the rifle made it a lot easier. Before the rifle we had to make caribou fence because caribou without rifle is hard to get. You got to chase it into the fence and you got to close it, and there is guys inside with a spear, and that's how we used to harvest our caribou a long time ago. And the fence are still there all over the place up there. It's basically a historical site.

And speaking about historical site, it's very, very important that the historical sites are protected, too, within the Arctic Wildlife Refuge. And there is tracks, and our long period of survival, the Gwich'in, the Native people, Gwich'in Indians, for all these thousands of years we used that area. Our trails, our natural trails are there. We walk there or dog team.

And my father, Noah Peter, he passed away. He also served 30 years. A lot of our people are veterans, the Cold War veterans, and they protected the United States flag. We stood up for our constitution against communist aggression from World War II all the way to 1989. And they are still our enemy. Even today we still got to watch out for the communists. And they are still next

door.

And they should not touch it. They should not touch Arctic Wildlife and make it into a wilderness. That's -- that's -- once that happen -- you know, the Gwich'in people they are not really against oil. I mean, there is oil drilling going on right now elsewhere, but just that one area we are talking about, they need to leave it alone because that's just a little iceberg and that's -- it's like trying to save the buffalo, but we are talking about the Porcupine caribou herd.

Thank you very much.

MR. HENRY ESHLEMAN: I'm not really happy with how this roll-out of public input was done. There wasn't a lot of notice. Like I only heard about this meeting because I'm Facebook friends with people who heard about this meeting. So a lot of that didn't really sit well with me. It feels like it's kind of rushed. On the diagram out there, there is nine steps to the process, and it's like we are on step six. And how did that happen?

Also I have a sort of knee-jerk opposition to development in the coastal plain just because I've never been out there. I've never benefited from any of the natural resources out there, but I have friends and neighbors for whom it's part of their cultural identity and their sense of self. They have been asking very

politely that this not be done for decades, and it seems like there is just no consideration given to that.

Also, when you talk about identity and sense of self, this is a community that within living memory had its children taken away to boarding schools and told not to speak their language. So any facet of the cultural heritage that still exists is something that is kind of like an endangered animal. You need to preserve it because it's -- it's important to people I consider my friends and my fellow Alaskans.

So that's my two bits.

MS. ALLI HARVEY: Thanks for making the time to hear public input about this. I'm not originally from Alaska, but I came from back east, and one of the first letters to the editor I ever wrote was about protecting the coastal plain of the Arctic Refuge because surrounded as I was by concrete, it mattered to me that some places in the world remain protected from the seemingly endless appetite for oil.

So ever since then when I was young, I've become more and more convinced that as I've seen more and more encroachment on wild places that we do need to save some of these that are just too special to drill, and particularly the coastal plain which is so important for the livelihoods of the Gwich'in people. I think this

place should be off limits.

And so I'm in favor of Alternative A. I strongly oppose any development in the coastal plain of a refuge because it is one of the world's last remaining intact ecosystems. And I hope that message gets carried through because this process feels like a sham process, like it's a disingenuous process.

I think that the pulse I'm getting on this room is that there is a lot of other folks here that also oppose drilling in the coastal plain.

So thank you for your time.

MR. KARL MONETTI: Thanks for the opportunity to comment. However, shame on you for such short notice and making the comment period so short and for limiting the size, scope and time period for the DEIS to be delivered.

I have flown, floated, hiked, fished and hunted across much of the refuge, and it is a magical place and constitutes the last intact contiguous land to include boreal forest, alpine tundra and peaks and the treeless but life-giving coastal plain.

The area is sacred to the Gwich'in people. For 60 years Americans have shown their support for maintaining ANWR as wilderness. I understand the need for good jobs, but the skilled jobs that would be lost to oil and gas

development can be replaced by jobs in renewables and energy efficiency and conservation.

The idea that only 2,000 acres of the plain will be disturbed is a farce. Dozens of pads connected by miles of roads and pipeline making a network of obstacles to animal migration and peace. Primarily we must stop burning fossil fuels if we are to have a chance of stopping global climate change.

I urge you to support the no action alternative. Thank you.

MR. ALLAN HAYTON: Thank you for allowing this opportunity to speak on this issue. You know, I grew up in Arctic Village, and it's a very special place for myself and our ancestors, and we have always been pretty clear on our position as far as Arctic Refuge, especially with regards to the Porcupine caribou herd, their calving grounds. That area ought to be protected. And the caribou especially to be available for future generations.

I just feel like it seems like the process has been rammed through through a tax bill and then limited public comment. And Ryan Zinke had to step down for ethics charges, and his replacement apparently was an energy lobbyist for many years. Are these the people we want in charge of this area? And many other areas around the country. But are they going to make the best decisions,

or are they just in it for the money?

I know it's a controversial topic and people have very strong feelings pro and con, but Gwich'in people have always spoken for protecting this area and the caribou.

And I just wanted to echo those feelings.

I think that's about it.

MR. RONALD YARNELL: My name is Ron
Yarnell. I live at 1231 Sundance Loop, Fairbanks, Alaska.

I have been leading trips into the Arctic Refuge, wilderness trips, floating rivers, backpacking, base camping, bird watching, observing wildlife since 1976.

I've led clients from all over the world across the coastal plain from the mountains, out of the mountains, through the valleys, out of the mountains, across the coastal plain all the way to the Arctic Ocean.

This is one of the unique things about the Arctic Refuge compared to other areas in Alaska. I have been leading trips all across the Brooks Range since the early '70s. Didn't start in the Arctic Refuge until 1976. But since that time I've led hundreds of people, actually probably thousands of people out of the mountains, across the coastal plain to the Arctic Ocean. There is no place like this anywhere else on Alaska's North Slope.

We have many, many areas west of the Arctic National Wildlife Refuge that we can be and are developing for oil.

We do not need to be searching for the oil that's in the Arctic Refuge.

Some specific comments that I want to make about the proposals is you mentioned the number of people that use this area, recreational users. You do not -- partly -- it's partly wrong. You have only gone to the air charter services to find out who is using it. I think you need to coordinate the information that's in the EIS with the Fish & Wildlife Service. You need to figure out not just the number of people that use the refuge, but you need to figure out the number of visitor days that are used. You need to economic analysis to figure out what this is worth.

As a permitted outfitter who leads trips across the coastal plain and through the 1002 area in the Arctic Refuge, I actually have to pay a client fee of 3- or \$4 per person per day for every person I take across in the Arctic Refuge.

The least you guys could do is figure out the actual economic impact this is going to be having on recreational visitors in the Arctic Refuge, especially the guides and outfitters. And that should include hunting guides, river guides, backpack guide, bird guides, all guide -- permitted guide operations in the Arctic Refuge. No mention is made about any of the economic impacts that are

going to be made upon us, other than saying there is going to be an impact. Tell us the dollars. You can figure it out.

So that was just the recreational part. I mean, there is all the biology and botany and things like that. Obviously, the caribou impacts are going to be major and significant, but I'll let other people comment on that.

One of the things that I noticed looking through the maps and the alternatives is you are opening up areas not only of high potential -- only a third of the 1002 area or less is of high potential petroleum province. The rest is moderate or low potential.

I think the law says that you have to open up 400,000 acres within, whatever it was, four years or something like that. And then you had to open up another 400,000 acres by 2025 or something. There should definitely be an alternative in here that opens up only the minimum necessary, the 400,000 acres. And that should be the western -- if --

Okay. I'm saying this under protest because I don't think any of the coastal plain, any of the 1002 area should be opened up for seismic testing or exploration. But if you are going to open any of it up, you should do the absolute minimum the law requires, the 400,000 acres, of which that would be most of the high potential oil

province. And that's all in the very western part of the 1002 area. Nothing else should be in this EIS.

A few years down the line if you have to meet your obligation to get another 400,000 acres, you should go ahead and do another EIS. As I've stated, this is the last place we should be exploring for oil. You should do the minimum necessary. The EIS needs to include a minimum necessary alternative, and it should be that far western part, only 400,000 acres, nothing more. That should be one of the alternatives in it, and that should be the selected alternative.

The public is -- the American public all across the United States supports protect of the whole Arctic Refuge, the entire 1002 area, by 75 percent. It's crazy this law ever got passed. It would never have passed on its own. And therefore, you should proceed forward at the minimum necessary to fulfill the extent of the law. This law will be changed if it's delayed long enough.

Other things not mentioned but probably will be are the 3-D seismic testing. I know there is an environmental assessment being done on that right now at the same time that the Environmental Impact Statement for the leasing is being done.

But I've traveled in the coastal plain for all these years, 43 or 46 years, or something like that. And I've

seen the impacts that 2-D testing has done in these areas.

Even yet today as we stop to get out to take a rest when we're paddling down these wonderful rivers out on the coastal plain, we stop, walk across the gravel bars, get out on a tundra bank, climb up on a tundra bank, and invariably, without walking hardly any distance, we'll run into places where you're looking down a line from testing that was done in the 1980s. 40 years ago. The impacts from this are still visible.

And the thumper trucks that they have now are heavier. They do more compaction of the tundra. The ones that they did in those days impacted the tundra just a little teeny bit, but it was enough for water to sit in those places. And it was enough for vegetation to start growing on the little bits of high ground. You can look straight down these lines for miles and miles and miles.

So 3-D testing, instead of being a mile every square mile or whatever, I've heard that 3-D testing could be as close as 200 yards each grid section. That means every 200 yards there could be a straight line in a grid form all across the entire 1002 area. These would have huge impacts.

So another thing I wanted to mention, you do say that there won't be any leasing or -- I don't know if there will be leasing, but any things within three or four miles

of each of these rivers.

A few years back I had the opportunity to lead a group, a family group down the Canning River. I hadn't been down the Canning in a few years, quite a few years, actually. I had never been all the way down the Canning to the ocean. The top of the delta is about 20 miles from the ocean. We usually pulled out there because it's a pretty long trip otherwise starting farther back in the mountains.

So this trip we went all the way down to the delta.

And at the top of the delta 20 miles from the coast, I could see something on the horizon. I was, like, wow, that wasn't here last time I was here. I wonder what this is. And as we proceeded the next day and a half down the delta, I became aware that it was the Cape Thompson development which is outside the Arctic Refuge by about 10 or 12 miles.

Our last night's camp -- so we camped partway down the delta. The Cape Thompson development was probably 15 miles away. No, it would be more than that. It would be about 20 miles away, 25 miles away, maybe. 20 miles away.

Anyway, we were able to hear it from that distance and we were able to see it. And in the evening -- it was in August. It was starting to get a little twilight. We could see these lights.

The farther down -- we camped on the top of the delta just a mile from the Arctic Ocean. We were there about three nights, and all night long you could hear a thump, thump, thump, boom, thump, thump, boom, thump, thump, boom, thump, thump, boom, thump, thump, boom. It did that all night long constant. And this was ten miles away, and it was above the horizon. I mean, up there, you know, five degrees, even though it was ten miles outside the refuge.

And you are telling me -- well, I mean, I'm just saying the impacts are going to be a lot bigger on the rivers, even if you have some kind of setbacks for these kind of developments. So I think this needs to be stressed more in the EIS.

This process has been -- is being speeded up much too fast. Just this hearing alone, a lot of people out there in the audience are making comments about the fact they are not allowed to actually testify in public.

Everything for the Fairbanks meeting is -- and it sounds like the Anchorage meeting -- BLM doesn't want to have that happen because -- I understand it could get sort of rowdy. People get a little bit upset, and I don't blame them, and they don't have control over it. But the process stinks. It doesn't allow people to actually say these things in front of other people. And I think that's really important.

I think the whole process should stop and these hearings, every hearing, including the ones in the big cities, should be -- the public should be allowed to testify in front of the public. If we are not allowed to do that and if BLM isn't going to allow us to do that, then we don't have very much of a democratic process. We don't actually have the rights to express ourselves in public about how we feel about this development.

So I think this whole process should be stopped right now, completely revised, and it should -- the public needs to have a better chance to be able to give their opinions in a public setting and those be recorded.

So at this time that's all I have to say. Thank you.

MR. KENNETH FRANK: (Speaking in Gwich'in.) My name is Kenneth, K-E-N-N-E-T-H F-R-A-N-K.

(Speaking in Gwich'in.) Drichuu is spelled D-R-I-C-H-U-U.

(Speaking in Gwich'in.) It means -- my Indian name is Little Tritt. It mean the caribou leg, this one here (indicating). That's my Indian name, which I got from my great grandfather. His name is Drichuu. I do more expressing in my language than trying to speak in my foreign language. (Speaking in Gwich'in.)

This will be kind of translated into -- I feel more good at expressing in my language than in English. But this is -- our grandfather gave us a message in early days

that he said (speaking in Gwich'in.)

He said our ancestor, and they said that let's not stray away from their -- their guideline, their survival and their life. And they were with the caribou, and the caribou taught them how to survive in early days.

And then the -- the -- one of the men, he became a caribou and the caribou taught them everything about the -- what you use on the caribou and what to -- how to survive. In return, the caribou told the human to defend him into the future for our generation, our grandchildren, our -- and all that. So that's what that message is all about.

And you know, this is a caribou message that I'm giving you. You know, it's kind of a long story with our spirituality, but I think I'm going to end it here because it's -- with that (speaking in Gwich'in.)

MR. GIDEON JAMES: My name is Gideon

James. I'm from Arctic Village. And the previous speaker
that I hear, our Gwich'in people, and I have a
grandfather, grandmother and their parents came from
Gwich'in land. So what these people addressed is true.

We need some decision that we have to protect the animals
and birds and waterfowl and fish in the water and
everything else. Just like somebody was saying that they
can't talk for themselves, we can talk for them.

Remember, remember in the history that back in 1989, there was a tragedy happened, what they call the Valdez oil spill. Remember that? Anyway, Exxon never paid the five billion dollars that they were sued for. Instead, they reinvest that money and the interest that they gave to different generation of fishermen. So we are invaded by industry.

And our kids don't get a proper education level. It goes on. It goes on and on and on. This drilling, this oil drilling isn't going to help my grandchildren or their kids to get a better education. I'll tell you that.

That's true because over the last ten years, the state of Alaska keep cutting, cutting the budget. And sometimes they can't even afford to run the general services that they are supposed to provide.

So we need to point fingers to the legislator, to senator that they need to wake up and make better and smart decision. We need to point finger at them and say that, you know, we are tired of this. This is getting worse. It's getting worse. It's like, you know, a small -- the smallest dividend that we get, they tap into it because they were -- it's something the government has make us do.

Anyway, the damage has already been done. We have -- we have -- we hear there is a tornado. We hear there is

flooding. We hear there is forest fire all across the nation. And you know what? Is that our stupid president said that he don't believe it.

It's coming -- it's coming to a point where our children and their children won't stay healthy like we did, that we did. Remember that as you walk out the door, that you need to know that you are protecting your children and their -- and their children far into the future.

This climate change is really -- is really doing huge damage in this country. And it's coming to Alaska. We are getting -- we are getting rain in December and January. It doesn't happen in my lifetime. I'm 79 years old. I know. It never happened in my lifetime.

So what is going on, you know? The industry needs to listen. They need to listen. And also your kids need to be aware of things that are happening that we need. We need more of a teaching of the recyclable system. And also to use a different type of energy than burning fuel.

This lease -- let me tell you, I was -- I was a very young man in 1970, 1969, and I remember there was big excitement about lease sale happen in the north, 900 million. And that lease is still there. It's still there because they just tapped a few of them. Then it goes on, and they want -- they want to look for oil on Pad 4. That

happened. Then for the life of me that we Alaskans should be able to get -- to have a good university, first-class university where that's (indiscernible) off limit and the nation can come and get our scholarship, but we don't have it.

You know, our legislators and the congressmen should be ashamed because we are a rich state. We are rich. And they just let the big corporation just keep continue, continue to rip it off.

People come here, and they also have sign that says animals. That's a big issue that we need to protect the animals. We need to protect the fish. We need to protect the ducks. They travel thousands, thousands of miles to begin new life in the north. And the caribou travel the whole area in winter, and they know where their winter spot is, and they go there. And then in the springtime when their time to calve, they go to the coastal plain to calve.

And we need to keep that area clean. We need to have -- continue to have clean water and all that, you know. I could go hunt and run into ducks with their eggs and they try to attack us, you know. So there is nobody else to guard for them but them. And we need to act more like that. Okay?

Gwich'in people have depended on this area for many,

many, many generations. And my grandfather is actually from Moose Creek across from Fort Yukon. So my family for generations spread out. And a lot of our Native people are like that. And they had a healthy family at one time. At one time I see a lot of healthy families that goes out and use the land.

But today, you know, we are just -- we are -- with this development happening that they tell us that you need new school. You need new this and that. It never happen. This is what they call greed. A lot of greed is happening. I know because the last 40 years that I know that these things are getting worse. So remember, when you come to defend this sacred land, you are defending the animals. Mahsi Cho.

MR. SAM DEMIENTIEFF: My name is Sam

Demientieff. It kind of made me -- kind of made me cry to

come up here and listen to Balash and the rest of the guys

here trying to do this comment period and have it in the

back room with just one person saying something. I want

to hear other people say something. I hear Steve and I

hear Gideon. I hear it. And I'm with the Gwich'in

people.

The one thing that we have to be concerned about is, what Gideon said, was climate change. Climate change affects the whole world. Now, we are talking about the

Gwich'in people and the Alaskan people here, all of us
Alaskans.

When you develop the oil, wherever it is, if it comes out of this ground, which it will because they are just going to go ahead with this, like she said, that lady.

That land thing, this leasing is going to go on and nothing is going to change here. It's going to happen.

But the people of the world, not only United States, but all of the world is going to suffer because of the pollution from this oil. It will happen. It's happening now. Look at the North Pole. Look at Fairbanks. We can't even believe -- if the people of the world think it's not affecting them -- the sea level is rising around the world. We know that. It's affecting everybody. In New York and Hawaii, all places, the water is coming up because of climate change. It comes from burning oil and coal. We know that. That's wrong.

So if you think the other people around go, it doesn't bother me, it's just in Alaska, the Native people are there. Yeah. When they leave -- when the oil companies leave -- and they will leave along with all the mineral companies -- who is going to be left here? The Native people, primarily.

This is where we come from. This is where we were born. It is where we are going to be. We are asking that

you consider protecting -- at least protect yourself. For crying out loud, everybody can know this. Everybody has to breathe. Stop polluting the air, which is the earth, produces everything else that we have in our lives: The water, the air, animals, fish, birds, everything.

Well, I just want to stop there because I know other people have to -- I understand that people -- I want to have my two cents because I want everybody to know how I feel about this. And it really does make me cry. Dang it. Just -- why do they do that? Why do we have to go through this? Damn it.

MS. CAROLINE TRITT-FRANK: My name is

Caroline Tritt-Frank. I'm from Arctic Village. And I'm

an educator. And to me this issue I thought was really

hard to understand until recently.

And the most important thing for me is to make sure that the migration route is not interfered because our people for hundreds of years been living on caribou. And that doesn't mean that caribou is only food. It means more than that. It means everything. That's how Gwich'in people stay strong.

And in an educational system, the caribou is mostly used a lot with language. And the western education is interfering with our cultural values, and it's destroying the way that our young people stays on the language. And

so it's very important that we as people think about it rather than just do what you think is right. Really think about the process of the caribou and focus on that and make sure that everything is understood about, especially elders.

Back in 1988 when they had a gathering in Arctic Village, a lot of elders spoke. And I don't know if they are recorded because it's very important what they said. And it's -- it's very important that we keep the caribou. And I think if we interfere with their migration route -- I mean, scientists are saying that it's not going to interfere with the route, but I believe that someday it will. And if it -- and if it goes the other way from where we live, we are -- we don't have anything to live on.

The people, the elders don't usually live on store meat. They are so used to caribou, because the store meat is very expensive, based on our economy. And it's -- it's very important that we think about the process of the caribou because there is more meaning to it than just a caribou.

As an educator, I understand it. I'm very astute that one thing is more than the other. And the Gwich'in people are speaking their very best to preserve that place. But as an educator, you need to understand more.

And I think it's very important.

Thank you.

MS. DOREEN SIMMONDS: (Speaking in Gwich'in.) My name is Doreen Simmonds. I will go ahead and spell it here. I am in support of the Gwich'in Nation to not have their -- their land, their caribou, the caribou that they subsist on is in threat of being taken away if there is oil development on this country or the caribou and the polar bear where they live and have their young. Imagine your own self in the city if all of a sudden the food that you go buy in the store are threatened and the shelves are empty. That is what you are planning on doing to the Gwich'in people.

I am from Utqiagvik, Barrow. That is why I side with the Gwich'in people. I have always loved Fairbanks because I love the people, the Athabaskan people. My heart is with them. And so that's why I get up and I fight. I retired four years ago and went back to school. Came here to Fairbanks to go back and help my people. But my people are right here, too, because they are in my heart.

This oil development, you know that in your heart that it hurts the land. And that's what it's going to do once again. Once again it will hurt the land and it will hurt the people. This needs to stop.

I thank you.

MS. SHAWNA LARSEN: Shawna Larsen. I'm Sugpiaq on my mom's side from the village of Port Graham where they had the Exxon Valdez oil spill. My mom worked every day cleaning the oil. And she was sick. A lot of our relatives were really sick from doing that job. I'm Ahtna on my dad's side from Chickaloon.

And we support the Gwich'in people. Those are our relatives. We support the Porcupine caribou herd. We heard a lot of the elders talking about how there is no way to express certain things in their own traditional language. There is no way to say it, really, in English. And I heard that. Growing up my whole life, I heard that.

My grandma used to talk to her sister in our Ahtna language, and I couldn't understand them. And I would ask her. They would be laughing, and I would say, what are you saying. And she would look sad and she would say, there is no way to translate that. And I thought to myself, there are so many words in English, how could you possibly not translate it? But what I've come to understand is we are talking about two totally different world views.

I was asked by my traditional tribal council elders to find a new word for the term subsistence because if you look it up in the Webster dictionary, it means to merely

survive. And that is not how we would ever describe our traditional way of life. We are not merely surviving. We are thriving and we are living. We have a relationship with the land.

They asked me to find a new way to say that. And it took me a long time but I finally came across an elder, and I asked in his traditional language, I said, is there a way to say subsistence. And my elders and this elder kept saying the same thing. They would say when the fish are ready, when the berries are ready, when it's time to hunt.

I said no. That's not what I mean. I said, if this is the land and the animals, and this is the people in our language, how do you say this (demonstrating)? And he said, oh, oh, oh, oh. You can't. There is no one word for that. He said, that's why we have stories. Stories make you feel. And what you are describing is a relationship. And that's the only way you can really know what and how you are interacting with the land and with the animals and with each other.

We had these also stories about our relationship with the animals, and it just makes me realize a westernized colonial view, world view, cannot be translated into an indigenous world view. It just can't.

And when we are told that there are experts here on

subsistence and animals, I feel really sorry for them because I know they are not an expert. I know that they were educated somewhere, but it wasn't by our elders.

And I feel really -- I don't -- these BLM guys, they must be paying you really good because I wouldn't want to do your job.

MS. DOROTHY SHOCKLEY: Hi. My name is Dorothy Shockley. I'm Koyukon Athabaskan of the Caribou Tribe of Interior Alaska. I just wanted to bring a couple of things, point out a couple of things. I was in D.C. a couple of weeks ago. And according to a BP senior advisor, he said that they predict that the oil will peak on the Slope in 2050. That's 31 years from now. And according to the scientists, the CO2 levels are the highest in 500,000 years in the world.

And what they want to do, what this project is proposing, you know, is -- is temporary, compared to the lifelong impact it's going to have on the animals and the people of this state and around the world.

The other thing that I -- that was pointed out was that there is no Coast Guard or plan for cleanup if there was an oil spill. There is no Coast Guard on the western or the northern side of the state. They are all on the south, southwest and southeast areas.

And I think about the word balance. We have to have

balance. And I'm thinking we are all responsible for that. You know, all of the time and the energy and the money that they are putting into this project, they also need to put that same time and amount of money to protect our wildlife, our resources, on -- that we depend on.

So I just wanted to point those couple things out. Thank you.

MR. PETE PETER: Good evening, everybody.

My name is Pete Peter. I'm from the Native Village of

Venetie Tribal Government, a tribal member. And today,

you know, I'm a veteran, retired after doing 26 years,

honorably served this country. And a lot of us are

veterans back home also in Venetie, Arctic Village because

during the Cold War all the way from 1945 to 1989 -
remember when the Berlin Wall fell, right, 1989. That's

when the Cold War ended.

But all those years from 1945, world War II ended, all the way to 1989, you know, the military been really active in Venetie and Arctic Village because we had detachments there. You know, Russia was pretty aggressive against our democratic way of living.

And that caribou we are talking about, the sacred Porcupine caribou herd, we used that, too, with the military. We teach them how to survive off the land. We had to because during World War II, our forces, 50,000

soldiers arrived on one of the Aleutian Islands and, you know, without even shooting a shot we had 30 percent casualty.

And getting back to our freedom, it's -- Alaska has a big history that still needs to be taught. You know, our Native people stood up for our United States government to protect our constitution during World War II because people don't look at that side of the Native people because we stood up for your freedom, all your freedom right now. We stood up for that.

The caribou, we used that because we taught our soldiers how to survive, how to butcher a caribou, how to handle the meat correctly so it could last longer. And the main thing was we were afraid the Russians would take Alaska and then our people would be, you know -- as danger times we went through during the Cold War. People don't realize that.

But the Gwich'in people, they provided their land to the United States government so our soldiers could train. I used to be the training sergeant on the ground at Venetie. I was stationed there, actually stationed. It's a federally-recognized village by the U.S. government, and the tribe -- the Gwich'in people was generous enough to use the land. We used the land they give to us. Of course, we keep it clean. If we bring in any hazardous

material like batteries, magnesium -- that's one of the dangerous things for the environment. But the Army was pretty well taking care of making sure we took those things out.

Another thing we need to understand, too, is Native
Americans are recognized in our U.S. Constitution. Why
are we not talking about that? Because Native people,
Native American exist for thousands of years. And even in
the constitution, it's written that the government
recognized us.

So you know, with that I urge the government -- the BLM, the United States government I'm talking to -- I urge them to make this place into wilderness. Instead of having all these comments, and then they are still going to drill. That's what they are trying to do, you guys. We got to put our feet down. We are known in the constitution, and we are protected by the federal government. That's the way the constitution is written.

And to talk about our freedom, our Native people gave a lot to the state. And to even become -- to become America, part of the state of Alaska became America in 1847. That's the first contact we had with the French Canadians. But back in those days it's a territorial status. But Native people really stood up to make -- to make this into a state that we are part of the United

States union.

So to get back to our freedom, we help a lot, too, the Native people, for our rights, our constitution rights.

And caribou, that's another thing that -- it's our main food source. Same thing. A lot of people mentioned that tonight. If we take all the beef and the chicken, pigs, everything off the shelf, you know, we are going to be hurting all of us. And us talking about our food back home, it's the same thing we are talking about. And I just want to put this urgency, when you go home tonight, think about that.

And we really appreciate all the people that's here, the non-Natives that's helping protecting the Arctic Wildlife Refuge because this is your kids, too. We are talking about your kids, my kids. I got four children. And three of them raised, one more to go. And you know, we got to think that way, all of us. Mahsi Cho.

MS. PRINCESS DAZHARII JOHNSON: (Speaking in Gwich'in.) My name is Princess Dazharii Johnson. And you know, I just want to start by saying that Alaska is not a warehouse, and we are not open for business. The only inheritance that we should concern ourselves with is the inheritance of our children. What are we leaving for them?

You know, there is people around the world right now that are starving, that don't have clean water. They can't access clean water for drinking. You think about Flint, Michigan. How many of those are around the world right now? So all of our elders that spoke earlier about protecting our ecosystems, that's what we should be concerning ourselves with.

It's really disconcerting to me, you know, this process, how many years have we seen this process. And it just feels like a check mark is made, consultation. Time and time again, consultation about the Arctic National Wildlife Refuge, going around to the communities. And time and time again not only our Native communities, but Americans across the nation have said, protect the Arctic National Wildlife Refuge. We don't want oil drilling in the coastal plain of the Arctic National Wildlife Refuge.

And then what happens? This tax bill goes through, and it's snuck into this legislation dismissing this sort of process that needs to happen; a thoughtful and educated and intelligent process, which we really shouldn't even be having the conversation anyway because our elders have been telling us for so long we need to protect this place.

So much of the North Slope is already open to development. We are not a warehouse.

So the thing that gives me hope is everyone that's

- 1 here right now, you know, thinking about not only our
- 2 children, but everyone's children: The bankers, the
- 3 financiers, exploration and BP. And they are made up of
- 4 human beings that run those places. And those human
- 5 beings, I believe, are good -- at heart they have got to
- 6 be good people. They must care about their children.
- 7 There must be some love and compassion in there somewhere.
- 8 I hope they are listening to us right now.
- 9 I don't want to see our children suffer. Mahsi Cho.
- 10 Mahsi Cho for being here, for standing up.
- 11 MS. KATHY TRITT: Hello. (Speaking in
- 12 Gwich'in.) My name is Kathy Tritt. (Speaking in
- 13 Gwich'in.) No drilling in the Arctic Refuge. That's our
- 14 caribou calving ground. (Speaking in Gwich'in.) All the
- people they keep saying, oh, we are going to give you so
- 16 much. We are going to do real good. All the caribou are
- 17 going to be safe. How in the world our caribou going to
- 18 be safe?
- 19 These little calves that's being born in spring and
- 20 summertime, and if there is -- there is a lot of
- 21 mosquitoes out there, and if one mosquito -- one little
- 22 calf is going to die from mosquitoes if they are not up
- 23 there. That's where they are at, in. 1002 there is cool
- 24 air that's coming in every -- during the spring and
- 25 winter -- summertime, and that keeps away the mosquitoes.

And please don't tell me -- some educated people say that, oh, it's all right. It's not all right. It's not going to be good, the impact that we are going to have.

You know, women and children, elders depend on this caribou meat right now. We can't depend on store-bought meat. It's too expensive. Government are giving us little money, 200-something a month. How are we going to live with that? We need our caribou meat.

And the other thing, you know, it's just like 95 percent of the coastal plain you guys have got already. What more do you want? There is 5 percent, little 5 percent that's on this side, the animals really depend on that. Leave it alone. It's a very important thing right there. And all the Gwich'in people, U.S. citizens, we depend on that. We really do depend on it.

And that's the last frontier in this world. Could you believe that? The last frontier, the last wilderness up there. You got to stay away from it or like getting in -- if you guys come around, we are going to be up there. We are going to be like the little ducks that's fighting for his little eggs. That's what we are going to do.

Thank you.

MS. DONETTA TRITT: My name is Donetta

Tritt. I'm from Arctic Village. And I just want to share

a story with all of you here, and I want it on record of I believe insight to what will happen and who will suffer first if we don't have caribou. Say this when you guys drill. Say the caribou do change their migration route and the Gwich'in don't have caribou.

My sister is a community health aide in the rural villages, and she was a health aide in Arctic Village for many years. One year a few years back, the caribou didn't come through Arctic Village. We don't know why. They went straight to Canada after they had their calves. What we saw medically was very alarming to us.

Our elders had no food, no traditional food, so they had to rely on hot dogs, Spam, macaroni and cheese, expensive food that is completely useless to us. And that winter my sister had to treat the majority of those elders for many gestational [sic] issues. They were vomiting. They had the runs because they didn't have their traditional food. They were sick.

And that's what we are -- we will be facing in Arctic Village, in Venetie, and in Fort Yukon and Birch Creek.

This is very real. We don't want to be here. We want to be home, minding our own Ps and Qs, living off the land and trying to be a contributing adult in this society, meaning proud to be American. But our way of life is threatened. And the first who are going to suffer are our

elders. And we saw that.

Thank you.

MR. TRAVIS COLE: My name is Travis Cole.

I am Dene. I'm a Koyukon Athabascan, and I'm from the

Bez'tltahuutanna, the Caribou Clan. My ancestors once

hunted the caribou up north of Allakaket in the South Fork

area. We are in the middle of Alaska, and on one side is

the Gwich'in, and on the other side is the Inupiaq. And

those two people have huge caribou herds.

And at one time before we had the pipeline, which cuts right through the middle of Alaska where we are, we used to have a lot of those caribou herds, also. But when they divided it like that, now you have the strong caribou herd over in the Gwich'in and over at the Inupiaq. My people, now we get caribou sometimes and not very big herds.

You know, that connection that we have for the land like that has gone to where we have got, like, moose and fish and things like that, but these people's strong connection to that food is very sacred. And when we think of sacred, to me growing up subsistently living in a fish camp, fish, hunting, things like that, is when we prepare the meat to get all that blood all over your hands and on your body, you know, it's very sacred to us. It's a ceremonial thing.

I know for a fact after when I'd be sleeping at night, I'd have strange dreams sometimes. It was just like I could feel that animal inside me. And when we ate, I'd be very strong, very healthy. And as you said, you know, this food is very sacred to us.

And if you compare it to what we eat nowadays, you think of, like, McDonald's, Taco Bell. The meat that's in there, you think of how those cattle were raised and the strange farms and murdered. The pigs, the chickens, all that and is murdered. That kind of meat that we buy like at Fred Meyer, Safeway, places like that, that meat was systematically grown and murdered.

And so we as people eat that meat. So those things that we have absorbed from that meat is not sacred at all compared to when you hunt moose or caribou or you fish or you pick berries where you are strictly connected to the land.

It's hard for people who grew up in the city all your life and you might have had opportunities to go camping, you know, to travel the world and see interesting things. But when you are there in the environment, you realize how your whole life really depends on how strong that land is, you know.

And I remember hearing stories about how our caribou herds were great, big caribou herds. It's not the same

since that pipeline came in. For them to say that it's not going to change much because it's a little spot up there, it's a lie. You know, the way we -- we treat our land, it treats us. If we don't treat it right, it's not going to happen, you know.

I would ask, you know, like for BLM and people like that, that they don't see it's going to affect. Go up to Prudhoe Bay and to these areas, set up a tent right where those drilling sites are, where all the ground has just kind got oil in it, the air is polluted. Try to camp out there for about a month or two or three. Spend an entire year out there. And that's how these people are out in our land is we absorb all that into our bodies.

So if you are into this really polluted land, you are absorbing that. And if you are eating that type of food, you are absorbing that. And that's the type of people we have become.

When you look at society today, there is so much murder and sexual assault and poverty and anger; that's what we are absorbing into our bodies through this systematically grown meats, you know. And all these systems that were pushed and running the treadmill every day to make money to feed the corporations.

And BLM, these are really good people. We are fighting for you because Dene means people, human. When

you ask my ancestors what are you, we just say Dene. I'm a human being, just like you are. We don't just fight for our children. My children, they are on the floor over there sleeping right now.

Your children, they are at home, too, you know. They are thinking about their futures and everything. But you start taking away that air -- we have less and less clean air.

When I used to fly from Allakaket to Fairbanks, I remember how clear it was when you get way up in the sky. Now no matter where you fly in the world, you just see a haze, you know. You all travel, so you know what it's like. You get up there, 30,000 feet, you still see that haze. And it's just getting thicker and thicker and thicker.

There is less and less streams we can drink from.

When I was a little kid my daughter's age, I used to run

to the Koyukuk River and just drink right from the river.

Now we can't do that because of all those gold mines going

on up north of us pouring stuff in. So when you don't see

it on the surface, you think, oh, it's okay, we can go

home now. But the people who live there, it seeps in,

goes right into their water. And when those little kids

go there to drink water, they get poisoned, you know.

So please, try to take care of our land because it

takes care of our animals, our caribou, our people, our future. We are all connected in this way.

I'm asking this in a way of this is not just a protest, but this is an intervention because you are addicted to the money that comes from oil. These people come in and they -- I don't know how many different types of meetings you have had with oil companies and research and everything like that, but they will say it's all going to be okay. It's going to be okay, you know.

And I don't know how money from that goes to the government. I'm pretty sure they give you a lot more money than we do. But we are the future. We are always going to be your neighbor. We are always going to be your friend. When the oil company uses you up and leaves you having nightmares at night thinking about what you did here today, the next few steps that this takes, they don't care. That's something you have to live with, something we have to live with. Mahsi.

MR. ODIN MILLER: Good evening, everyone.

My name is Odin Miller. I live in Fairbanks here. First of all, I'd like to say that I don't feel as prepared as I'd like to because we only knew about this meeting five days ago. I'm extremely busy right now at this point in my life. I'm writing my master's thesis.

And, you know, I'm following this development as best

as I can, except I feel like when there is these last-minute meetings, it's very difficult, you know, for people to make time to read these lengthy documents and even attend the meetings.

I know that there is a lot of people who want to be here tonight who are not able to get here because of prior commitments. And I find this entire process an affront to democracy. I think that, you know, this entire time from the passage of the Tax Cuts and Jobs Act up till now, it feels to me like the BLM has sought to minimize public involvement and is pushing through this process as quickly as it's able to.

I believe, from what I understand, there are some major issues with the EIS and with the drilling proposals.

And I plan on submitting additional written comments before the end of the comment period.

But just to name a couple of things, I don't believe there is enough water available in the Arctic Refuge for drilling activities to take place without severely impacting the water resources that people and animals at the refuge use. I don't believe, you know, it's going to be easier for them to drill without depleting or otherwise polluting some of the springs in the refuge.

And it's also the case that the Hulahula River is protected by the Wild and Scenic Rivers Act. The Tax Cuts

and Jobs Act directly conflicts with the Wild and Scenic Rivers Act. However, the Trump Administration has argued that the Tax Cuts and Jobs Act takes precedence. I don't believe that's ever been tested in court, however. I think that's just something they are saying so that they can get the drilling through as quickly as possible.

I guess I'll leave it at that for now. I plan on submitting additional written comments later, like I said before. Thank you.

MS. PAMELA MILLER: We have some other elders in the room over 70 who might want to speak who have been involved for years from whatever expertise they come in. I urge them to come up and not be shy. We have scientists. We have other people. Don't be embarrassed if you are over 70. And then anybody less than -- in their 20s.

MR. ROBERT HOLBROOK: I have 10,000 hours of helicopter time flying all over this state and many thousands flying over the coast of Louisiana. I've worked for every major oil company there was developing the Gulf. There are no more islands. All the barrier islands in Louisiana off the coast are gone. The marsh is full of saltwater now. It was freshwater. They cut canals all through it. They weren't going to impact it, right?

lifetime, there wouldn't be any question. They need to stay out of the Arctic National Wildlife Refuge.

The United States only has one wild spot left. The furthest distance in the United States from a road or village is right up on the Coleen River near the divide. That's the most remote there is. In the western United States, 18 miles is the further it is from a road or a village. There is no wilderness down there. It's just developed land with little, bitty places. And they are trying to get that.

They just want their foot in the door up there in the Arctic. They already got, what, 25- or 28 million acres to the west of the Haul Road. Why don't they go over there? But believe me, I've seen it. I've seen it. I flew all over it. I've flown every agency. I've flown BLM, Department of Interior, State of Alaska. I've flown everybody. All the -ologists, they always study this one little, bitty thing. This is all they know anything about is something about this big (indicating).

And that's the big hole, as the Native people know. It's the big circle of life. These people are just greedy. They don't care anything about it. They are going to try to ramrod this through, and we got to stop them.

MR. STEVE SANDQUIST: Hi. My name is

1 Steve Sandquist, and I represent the Carlson Center here.

2 And I know it's important that all of you get your

3 comments in and all of you talk. This is a really

4 polarizing subject. It's near and dear to me. So Nicole

here is going to let you know how you guys can get those

6 in.

Today we have passed their contracted time and we need to get some people home and get the building locked up. I apologize, but at 7:45 we have to close the mic for all of the public testimony. But she will explain how you guys can get that in. Your voices will be heard. And please, please, if it means a great deal to you -- and obviously it does because you are here -- listen to what she has to say. There are many different ways you can do it.

MS. NICOLE HAYES: So as he mentioned, we are going to have to leave here by 8:00, we will have to be out of the building. So we will take public comments until 7:45. And then other ways you can still provide comment, there is still a court reporter sitting in the other room if you want to go over there now and speak to that person. We are accepting comments online and in writing, and we have other public meetings coming up.

UNIDENTIFIED MALE SPEAKER: We need more

25 time.

UNIDENTIFIED FEMALE SPEAKER: We need a proper public hearing. We need translation into Inupiaq and Gwich'in.

MR. RONALD YARNELL: My name is Ron
Yarnell. I reside here in Fairbanks. One of the
questions I have is: Where is Lisa Murkowski? Why is she
not here listening to this? Maybe she will show up in
Anchorage with all the oil companies. Anyway, she did
write this bill, pretty much.

So I have been leading trips in the Arctic Refuge wilderness, trips down wild and scenic rivers since 1976. I have done this as a career all my life. I'm one of 20 or 30 or more outfitters, not even counting the hunting guides in the Arctic Refuge.

The recreation potential of the Arctic Refuge is really phenomenal. It's the only place on the North Slope of all of Alaska where we have a chance of protecting as wilderness from the mountains to the sea. I've led people down these wild and scenic rivers from all over the world: Alaskans, people from the Lower 48, and people from all over the world. I mean, hundreds of people, probably several thousand people. I have 46 years of doing many, many trips in the Arctic Refuge. So I've had a good opportunity to see a lot of -- take a lot of people to this area.

This is the last place we should be developing for oil. There are so many places farther to the west that people have mentioned that are actually being opened as we speak and have some huge finds. We don't need the oil in the Arctic Refuge. In fact, we actually don't need any of the oil in the Arctic. We are cooking the earth well enough as it is. But the Arctic Refuge is certainly the last place we should be exploring for oil.

Anyway, I am testifying basically as a wilderness guide and as somebody who has earned my living bringing people up on to the North Slope to experience one of the most unique places in North America.

So I have a bunch of other comments about various different things. The impact statement under the recreational part does mention how many people visit this area. It was like a 1,000 or 1,200 or something like that, but they don't say how many visitor days there were. I mean, how many actual days people camped on. So basically it gives a number of people who visit there, but it doesn't tell how much time they actually spent there. So I think that needs to be incorporated into the EIS.

Not one thing is mentioned about the loss of dollars. If this oil development occurs on this area, I won't be taking trips across there. I won't be leading people to see this wonderful area. Who is going to float through

Prudhoe Bay? It's not much fun. I've done it. It's not much fun.

So even with the seismic exploration activity that occurred there during the 1980s, when we are floating these rivers and walk across the gravel bars and climb up on the tundra bank, if you walk just a little ways along that bank, and you will see a straight line going off as far into the horizon as you can see. And that was from 2-D exploration, which was basically setting these grids up every mile or so.

They are going to be doing these grids, from my understanding, 3-D, like several hundred yards apart all across the coastal plain in squares. So everywhere you walk is going to be covered with impacts. When these 40,000-ton vehicles drive over the tundra and they set off those explosions, thump, thump, thump, thump -- they are called thumper vehicles, and they compress the tundra. So you leave a little depression, after the next thaw you end up with water in it. And then along the edge you get a different kind of vegetation starts growing and 40 years later it's worse than it was before.

So it's really sad. You can still see the stuff there from the seismic exploration activity that was done in the 1980s.

Anyway, they mention these impacts, but they don't

say anything about trying to prevent them. There is really no way to prevent them. Just fly around Prudhoe Bay. You will understand.

Anyway, I have a lot of other things to say, but I want to let other people have a chance to talk, so I'll stop with that. Thanks a lot.

MS. SHELBY FISHER-SALMON: (Speaking in Gwich'in.) My name is Shelby. I'm from Beaver and Chalkyitsik, Alaska. I'm Gwich'in.

You know, one thing that just bothers me about this whole thing, like year-in, year-out we have been saying this since the beginning. Our elders have been saying this. You know, protect that land. It's indigenous knowledge, you know, and it needs to be respected. And it hasn't been, you know.

And we keep having these hearings over and over again. And we told you the first time. You should have listened the first time, you know. Don't drill in this place.

So -- yeah. So like, you know, it's a big issue and it's always not being respected over and over again. You know, indigenous knowledge in the schools, you know, its so westernized.

I have been some places where they don't even know Native people exist and -- you know, we are here and, you

know, I would just -- I am not in support of drilling in
ANWR and, you know, it's -- because of the animals,
because of the people, because of the land, but -- yeah.

4 Thank you.

MS. BERNADETTE DEMIENTIEFF: Good evening. I was here earlier, but I had to leave, and I'm glad I made it back in time. I feel like our voices are not being heard. You guys are not listening to a darn thing that we are saying. You are trying to bring in 53 90,000-pound vehicles into land that we won't even step foot on. We are forbidden to go there. And you are trying to go there for greed.

I'm tired. I feel like nothing that we say is getting through to you guys' head.

Now, you know, it really makes me feel so honored to be here standing among so many indigenous people. And all we want to do is continue to live off of animals that have been a part of our lives for thousands of years. I have learned so much since I have been working at Gwich'in Steering Committee. I am so honored and proud to be Gwich'in.

And you are going to take that from us. You are going to desecrate on our culture. You are going to destroy our food security and our way of life. There is no other way to put this. And we are not going to

tolerate it. Our voice is the most powerful tool that we have, and we're going to use it, and you're not going to minimize our voice, not anymore.

This process that you were trying to use today was insulting because the Arctic Refuge, the coastal plain (speaking in Gwich'in), deserves way more than that. And so do our people. So do our children. We matter. My children matter. Your children matter. This is not just about us.

You know, I just went to Houston, Texas and it was really terrible what they are living in. There is -- they live right beside, like, toxic buildings. By the time I was done with the toxic tour, I was in a face mask. I was throwing up. And this is what you are bringing into our homelands. And you know, we are just saying no. We are saying we are not going to have it.

Just stay out of the Arctic Refuge. Thank you.

MR. HAYDEN NEVILL: My name is Hayden Nevill. And like many of you, I was surprised by the short notice of this meeting, so I was not prepared to speak tonight. I especially was not prepared to speak because I am not an indigenous person, so my ancestors took this land, and I appreciate being allowed to speak here tonight.

The reason I'm speaking is because I'm transgender.

And that doesn't have much to do with environmentalism and caring about the Arctic Refuge, but it does mean that I understand deeply what it's like to have other people make decisions about my health.

And I was born a little girl. I'm a man now, and that's how I live my life. And the worst thing that happens to me is when someone else decides they are going to pass a law or change a policy or change the things in my world that keep me healthy.

And so this whole process that we are going through with the Arctic Refuge just hurts my heart because we won't have the right answer until we ask every indigenous person what the right answer is. And we don't even have to ask every indigenous person because so many voices have already told us the right answer is to stay out, to not drill there, to not put someone else's livelihood at risk.

Why is it that we feel justified to go in and drill and hurt someone else's life? We wouldn't do that to ourselves if it was hurting our own lives, so why are we going to take someone else's life away?

And so we need to get as much input as we can and stop the process. And the process needs to be different. The process needs to be a process that honors indigenous voices and is structured on the way that indigenous cultures work together and work with the land.

The white man structure does not work for this, and we keep forcing it, and it's unjust and it's unhealthy. And it's not just killing the Gwich'in. It's killing all of us who are involved in the process because it's poisoning us, as well; not just poisoning us from climate change, but poisoning us from the depths of our hearts because we know this process is not right and that we are hurting other humans and we're hurting the land that we all depend on.

So please, I urge everyone in this room who cares like I do, whether you are indigenous or not, to just please keep fighting. We will find an answer to this. And we just have to force the issue that this process is not correct. None of the alternatives we have right now are correct. We have to care about the health of every human, every person that's around us.

Thank you.

MR. STEVE HARVEY: Hello. My name is Steve Harvey. And as I was looking at the socioeconomic analysis, and also the geographical scope is at the national level, so you are considering socioeconomic impacts at the national level. I think that is correct. I ask that greenhouse gas emissions be analyzed at the national level, as well. How will the proposed action effect ocean acidification in Washington state?

I grew up in Olympia, Washington and very near a very unique inlet. We used to go down to the water, harvest oysters, crabs, clams, mussels. There is all sorts of ocean shell builders there. And I ask, how is this project going to impact the next hundred years' ability to eat from the sea?

This is 2019. Okay. You can no longer isolate the impacts of fossil fuel development. You have to look at the entire picture. Where are your climate scientists? How many climate scientists do you have? I ask that you bring on climate scientists or, if you don't want to spend the money, the research has already been done. Scientists across the globe are saying we have passed our planetary boundaries.

We're losing biodiversity. We're putting too much carbon into the atmosphere. This is a place that is strong in biodiversity at the global level, at the regional level. You can't put that at risk. That's -- that's not how the world functions. Okay. It's the whole.

This is a place that is -- that needs to be protected. I ask that you include global and national biodiversity indicators in your analysis and how will this affect those indicators.

And in the economic analysis, you have a multilayer

effect in there. I would ask that you put the multiplier effect into greenhouse gas analysis, as well.

Mahsi Cho.

MS. HANNAH KUN: My name is Hannah. And this is directed towards you, Joe. I hope you realize that by doing what you are doing, you are starving people. And if you don't have any guilt in yourself for that, what kind of human being are you? Because if you are starving people and you don't have one thought inside of your head that's making you feel bad, that's beyond evil.

And honestly, from all of these testimonies that I've heard, if you don't feel their pain, if you haven't heard their pain, I don't know what kind of human being you are.

That's really all I've got to say.

MR. ALEX THORNTON: I'll be brief because I spoke before. My name is Alex Thornton, A-L-E-X T-H-O-R-N-T-O-N. I'm a polar ecologist. I am an interdisciplinary scientist. I study the effects of climate change and human impacts on the Antarctic and the Arctic and what we have done. And beyond that, how can we negotiate meaningful, effective environmental agreements.

I'm also a disaster responder. I have responded to oil spills. And, frankly, what I'm seeing tonight horrifies me.

As a scientist, I believe in environmental impact

assessments. I believe in this process. It's set up so we can have people speak and so there is due process we can understand and hear these voices. It's not something that's supposed to be set up to just let them hear you and then dismiss you. There is supposed to be, according to the APA Section 533 -- you would know better than I, which you won't make (indiscernible) because you lied to us about it earlier.

So Section 533 is about notice and comments. You are supposed to provide 30 days' notice, according to federal law, about anything regarding any public comment period. The fact that they only announced five days ago these sessions is already violating the law.

Beyond that, I, as a scientist, am appalled that in the United States we don't have an official language. And we are going to these communities without anybody, to my knowledge, who can understand the language and the culture, and you are expecting Alaska Native people to respond to a system that, frankly, most scientists don't understand.

And as a scientist, I frankly don't know how you can sit here and tell us you are going to -- twice tell us you will identify yourselves as the BLM scientists or affiliates and then say, no. Why won't you tell us who you are? That's why you are here. And you are violating

federal law, then lying to us about what those laws actually represent.

As a scientist, I have an ethical responsibility to uphold the science and to be honest about that, and part of that is working with indigenous communities. I know that my science time and again proves that traditional knowledge is far more advanced than western science ever wants to admit. All of my research confirms what traditional knowledge is telling me about these animals and about these species and the environment.

And I think -- I forget your name -- I apologize -but who spoke earlier saying there is no one word for the
environment, people and the animals. We recognize that in
science. We know interdisciplinary knowledge is the only
way to explain this. And frankly, what is happening here
is a flagrant violation of the law and ignoring the
science.

I don't know how any of the scientists here can call yourselves scientists, and you should all be extremely ashamed of yourself. No paycheck is worth destroying culture or the environment. You should really be ashamed about how you facilitated this event tonight.

MS. JODY POTTS: My name is Jody Potts.

I'm Hahn Gwich'in. I was raised out on the land with my
family in a really traditional way for someone that comes

from my generation. And we very much depended on the caribou for not just our food, but my mom made a lot of our traditional warm winter gear out of the caribou.

To this day, my kids and I still use the caribou hide with the hair on on our -- under our mukluks when we are out checking our rabbit snares to keep our feet warm. The caribou hair is hollow, and so it's a really good insulator, for those of you that don't know.

And when I still go out hunting with my kids, it's more than just for a lot of people a sport, you know. And I think maybe part of the system and people that don't understand is that it's not a sport for us. It's really a spiritual practice.

And as indigenous people since contact have been impacted in so many multitude of ways -- and it's still happening today, but one of the first things that westerners did was take away our spirituality. And we have just been getting so much of our culture and our spirituality back.

And because of the short time frame, five days, I wasn't able to thoroughly review the EIs, the draft EIS, to properly comment, so I wasn't able to see if that aspect of impact was going to be represented in this.

And I think that when I look at how little effect my family in particular -- you know, my son, he got his first

caribou a few years ago. And my kids, they lost their father in a really tragic way. And being able to get a caribou was a part of rite of passage for him coming into manhood, and it's really healing, and it's a part of that spirituality.

And some of the best time for us as Gwich'in people is when we bring home -- the food home to our family, but especially our elders. And I'll never forget my son carrying the caribou head -- because don't waste anything. He carried the caribou head to one of our elders, grandma to my kids, and brought that to her.

And she opened the door, and there is my little boy, 12-year-old boy, standing there with this caribou head for her. And she cried and just kissed on my son. And that's a part of his healing. That's a part of him becoming a man and learning how to respect in both ways and having that relationship that Shawna was talking about. And also that relationship with our elders and importance that has been passed down for millennia to take care of each other, but especially our elders.

So those aspects of what the caribou in this life cycle means to us needs to be included in that.

And I think it's really loud and clear. There is a lot of supporters here to protect the sacred land of our caribou and our people. And I think it is evident and

really clear that as Gwich'in people we are not going to compromise and there is no compromise.

There has been suggestion, well, maybe we will let the Gwich'in be a part of comanagement of the Porcupine caribou herd. And we have been doing that for millennia. You are now going to let us? You know, that was going to be a big compromise, and we are not going to compromise. We already do those things.

So I just wanted to make those few comments. And, you know, I am very disappointed in how this process is going forward so quickly. It's being ramrodded. You know, we didn't have sufficient time to review this huge document, you know. We all still have busy lives and families and work and, you know, not enough time. And there are laws.

And I actually studied this in college and have a little bit of knowledge about the EIS system. And this is not what I was taught by our professors of environmental law. So this needs to change.

And I'd also like to see an indigenous perspective in the EIS, the indigenous experts and -- to be included in that information, to be weighed equally with our other experts, but also that it's made in a way that we as indigenous people can engage better.

So I just thank you for listening. I thank you,

Steve, for taking notes and really listening to our people and all of our comments and for allowing us to proceed as we desired. Mahsi.

MS. PHOEBE ROHRBACHER: Hello. My name Phoebe Rohrbacher. And I just want to say thank you to everybody who is here. And I'm here to stand with my indigenous brothers and sisters, the Gwich'in and Inupiaq and Athabaskan peoples of Alaska who are asking that there will be no drilling in the Arctic Refuge.

I don't have any children yet. I'm thinking about starting a family. And something that I'm really worried about is the future of our planet, the land that we are going to be leaving for our children, the land that my children -- my future children, I hope, will grow up in.

I'm concerned about their health. I'm concerned about the health of the plants and animals. I'm concerned about the health of our communities.

And I -- I also didn't have a chance to review the EIS. I started reading it last night. And it's, I think, 365 pages long, or something like that. And I got -- you know, I was trying to read it as carefully as I could, and I just didn't have time to do that in the, you know, few days that we learned about this meeting.

And I also -- I know the meeting started today at 2:00 p.m. And I was at work. I imagine a lot of you were

at work, so you didn't have an opportunity to come to the whole thing. I wasn't able to get here till 5:30 because I didn't have enough leave time to take off. And also it was such short notice I didn't have an opportunity to even ask for that kind of time off.

So anyway, I just wanted to say, yeah, Mahsi Cho to everyone for being here. Thank you. And I -- I hope that the BLM can really listen to everybody's comments and take this into consideration and think about your own children and their future. Thank you.

MS. JESSICA GIRARD: My name is Jessica Girard. I want to acknowledge that we are on the traditional lands of the Lower Tanana Athabascan peoples, and they did not cede this territory to Russians or anybody else.

I secondly want to say that I'm a three-time disabled combat veteran, and I served in Iraq twice, and I did that so we could get more oil. I did that so we could colonize another community and tell them how to run their governments, how to manage their lands, and I did that at the cost of my health. I am going through PTSD right now. I just had eight surgeries in the last eight years.

And I will stand every moment with the people of the north and stand and continue to defend my country, as I swore to do in 2000, and I swear to keep doing it.

And we know, every one of us knows, that this development is another way to colonize communities, to take them from their lands, to separate them from their communities. We are only calling this something different now. Instead of calling it colonization, we are calling it development. And we can say that that is for the good of all of us that we need it, but every person here knows what we actually need. We need clean water. We need clean air. We need food that will sustain us. And this is all from a white person's perspective because all of that sustains me.

But what are we doing to sustain the other ecosystems? We are standing here speaking for every species that cannot stand here and speak. So I ask that the BLM -- I know you are doing your jobs and you have to do them. But this is not about jobs, which often the argument is. This is about how we are going to maintain not only our lives as human species, but other species because we are rapidly killing this environment.

The most recent IPCC report just said we have ten years of a livable economy. Who here expects to be alive in ten years? Many of us, right? Ten years have a livable, livable planet. And we are asking for a livable economy. And if we continue to take this time, if we continue to take this space and this energy and this money

to develop false solutions, we are not taking the time to come up with a real way forward.

So I encourage BLM to talk about possibilities of a real way forward. How are we doing this as a community? How are we doing this so people that know their lands and have been on them and part of them for tens of thousands of years are telling us how to manage lands because, frankly, I want to listen to them and not a bunch of people that have been here for three generations.

So I just want to offer that up. Let's all start thinking about other ways to build. This is not the end. This is the beginning. We are with you, peoples of the north.

MR. STEVE SANDQUIST: I would like to thank you all for coming --

MS. ENEI PETER: The Carlson Center wanted us to leave now.

MR. STEVE SANDQUIST: If this is really near and dear to you, go online. Comment --

MS. ENEI PETER: I know the Carlson Center wants us to leave right now. I would ask the BLM to please do better planning. We are not trying to disrespect the Carlson Center, but you need to have planned better. There are still many, many voices who want to speak, and we are not being given the time for

public commenting. We have not had the time to review the EIS, the draft EIS.

I ask that we have another draft before you get to a final because there are many things that are inadequate about this EIS, this draft EIS. You need to go back and do it again. There are scientists that are not at the table, climate scientists, indigenous scientists, and you need to a better job at your hearings. We need another public hearing in Fairbanks, and you need to let people speak.

MS. SAMUEL JOHNS: I just want to say something real quick. Again, I just want to bring back that leadership, you know. A lot of people like to come into spaces and try to help, and we get that and we understand that. But the best way to help is to change how many people are in those leadership roles.

When you step into a space to help indigenous people, look around you and ask: How many Native people are helping create this agenda? How many Native people are standing with us to go into these spaces? What happens is you guys create this white savior mentality. Well, we feel like we can't do it on our own. You come into our space and act like you are our heroes speaking for us, and we don't -- we don't get to be at the table to make these decisions.

There was no Alaska Natives that helped create this event right here. There is no table over there that represents Gwich'in people or Inupiaq people. We need to change the ratio. We need to change that. You need to show the younger generation respect. You need to show them that.

Next hearing I see, I hope you see -- I hope to see some Native people around here with the name tags.

Thank you.

(Proceedings adjourned at 7:48 p.m.)

## REPORTER'S CERTIFICATE 1 I, MARY A. VAVRIK, RMR, Notary Public in and for 2 3 the State of Alaska do hereby certify: 4 That the foregoing proceedings were taken before 5 me at the time and place herein set forth; that the proceedings were reported stenographically by me and later 6 7 transcribed under my direction by computer transcription; 8 that the foregoing is a true record of the proceedings 9 taken at that time; and that I am not a party to nor have I any interest in the outcome of the action herein 10 11 contained. 12 IN WITNESS WHEREOF, I have hereunto subscribed my hand and affixed my seal this \_\_\_\_\_ day of February 13 2019. 14 15 16 MARY A. VAVRIK, 17 Registered Merit Reporter Notary Public for Alaska 18 19 My Commission Expires: November 5, 2020 20 21 22 23

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