

STATE OF MICHIGAN

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DRAFT INJECTION WELL PERMIT  
Jordan Development Company, LLC  
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PUBLIC HEARING  
June 19, 2018  
Gladwin County, Michigan

**ORIGINAL**



FINAL COPY  
JANE ROSE REPORTING 1-800-825-3341

APPEARANCES:

US ENVIRONMENTAL PROTECTION AGENCY

Stephen Jann, Branch Chief

Janette Hansen, Water Division

JANE ROSE REPORTING

Kathleen Tulick, CSR 4806

Certified Shorthand Reporter

**ORIGINAL**



1 Gladwin, Michigan

2 Tuesday, June 19, 2018 - 7:30 p.m.

3

4 MR. JANN: Okay. So, good evening. As I said at  
5 the beginning of the evening, my name is Steve Jann,  
6 J-a-n-n. For those who want to know, I am the chief  
7 of the Underground Injection Control Branch at EPA-5,  
8 and our office is in Chicago. So I will preside over  
9 our hearing tonight. You've met Janette, who's a  
10 professional geologist and has reviewed this permit  
11 application; and many of you have met Zack, who is also  
12 a geologist.

13 So this is a hearing on EPA's proposal to issue a  
14 permit to Jordan Development for the conversion of an  
15 existent production well to a Class II underground  
16 injection well. Jordan plans to use the well to inject  
17 brine deep underground.

18 So EPA first announced this draft permit last --  
19 PUBLIC VOICE: We can't hear you.

20 MR. JANN: Okay. I think we're going to get  
21 feedback if I do this though, that's my concern. I'll  
22 stand here.

23 So EPA first announced this draft permit last  
24 September with an initial comment period ending last  
25 October. We received numerous requests for a public

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1 hearing, and so that's why we're here tonight. We  
2 announced this hearing on May 15, the scheduling of  
3 this hearing, and the availability of a second --

4 PUBLIC VOICE: We still can't hear you.

5 MR. JANN: Okay. Let me know if we hear feedback.  
6 I think that's going to happen.

7 Copies of the draft permit have been available on  
8 EPA's web page and in the Gladwin County District  
9 Library. The full file, what we call Administrative  
10 Record, is available at our office in Chicago, and so  
11 there are several copies of the draft permit available  
12 tonight.

13 So we're pleased to have this opportunity to  
14 listen to your comments on the draft permit decision.  
15 The comment period is open until June 22. If you've  
16 made comments during the first comment period, those  
17 comments will be considered as we make our final  
18 decision.

19 We're holding this hearing in accordance with  
20 regulations under the Safe Drinking Water Act. The  
21 hearing is designed to allow you to make comments for  
22 EPA to consider when making our final decision. All  
23 oral statements will be recorded by our court reporter,  
24 and we will not be asking any questions of you. This  
25 hearing is your opportunity to tell us whether you

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1 think the draft permit is consistent with the Safe  
2 Drink Water Act and the regulations, and whether the  
3 facts, as EPA has determined them, are accurate.

4 All of the comments that we receive become part of  
5 the official record for EPA. We will review all  
6 comments, but we will not be respondent to any comments  
7 tonight. The time that we need to take to respond to  
8 those comments is going to depend on how many we get  
9 and the nature of the comments.

10 Once the response is complete, we will send it to  
11 all people who commented on the draft permit or at this  
12 hearing and we will post it on our website.

13 At that time EPA will make a final decision to  
14 issue or not issue the permit. If EPA issues the  
15 permit, it will authorize Jordan to convert the well  
16 for Class II activities. Authorization to inject is  
17 only given after a successful test of mechanical  
18 integrity of the well.

19 The final decision may be appealed to EPA's  
20 environmental appeals board by a person who submits  
21 comments on the draft permit during either of the  
22 comment periods or participates in this hearing.

23 So if you want to make a statement at the hearing,  
24 please be sure that you give your information to Zack,  
25 so that he can add you to the list. If you want to

1 receive information from EPA at a later date, please  
2 also provide your information to Zack at the  
3 registration table.

4 So, as I mentioned before, because of the number  
5 of folks who want to speak I'm going to provide two  
6 minutes for those comments, and I might need to adjust  
7 that if additional folks want to speak. And, again,  
8 folks have until June 22 to submit their comments in  
9 writing.

10 Okay. So with that, I did ask earlier if we have  
11 any elected officials who have signed up to comment and  
12 want to comment. If any elected officials, if they  
13 could come forward.

14 (No response)

15 MR. JANN: I'm asking this and our court reporter  
16 is asking for folks to keep conversation out of the  
17 equation, so that she can hear adequately, and so that  
18 she can record the comments that are made during the  
19 hearing.

20 So with that, I would first like to invite  
21 Brandon, I'm going to mispronounce names throughout the  
22 night, so I apologize for that, Brandon Glod; and then  
23 the second person would be Harry Jackman. So Brandon  
24 Glod.

25 MR. GLOD: Question one, when did you guys become

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1           shills for him? Question number two, how do we stop  
2           this? Because I came here under the impression there  
3           would be some sort of vote to shoot this down. Where  
4           does that come in?

5           Because all I see right now is more song and  
6           dance, just like you guys pulled in Pennsylvania, like  
7           you pulled in Arkansas, and like you pulled in  
8           Oklahoma. And then when stuff does hit the wall, oh,  
9           gee, what do we do? He ain't going to do nothing.  
10          He's from a limited liability corporation. Key words,  
11          limited liability; oh, I'm sorry, I can't do nothing  
12          about it, let's leave it to the government. And then  
13          you guys play hot potato with it while our kids die  
14          from poisoning.

15          How do we stop it? Bottom line. Because  
16          everybody that left I'm pretty sure were expecting to  
17          be able to vote you down, him down. They left because  
18          it doesn't look like anything is going to happen. How  
19          do we make something happen to stop them from poisoning  
20          our water?

21          You dogs screwed up in St. Clare. How many  
22          billion tons of human feces is resting in that lake  
23          now? EPA did a bang-up job taking care of that. How  
24          do we stop you, or him? You got no response? Exactly  
25          what I figured.

1 MR. JANN: Thank you. Next --

2 MR. GLOD: Yeah, blow me.

3 MR. JANN: -- is Harry Jackman, followed by Janet  
4 Jackman.

5 MR. JACKMAN: The only thing I worry about is the  
6 regulations from Mr. Pruitt is our secretary of the EPA  
7 Is he going to take regulations off of all this or you  
8 are just going to keep poisoning the earth? That's all  
9 I want to know. You're next, honey.

10 MRS. JACKMAN: Okay. Thank you.

11 MR. JANN: I'm sorry, but if folks could say their  
12 name and also spell your last name for the court  
13 reporter, I would appreciate it.

14 MRS. JACKMAN: Okay. My name is Janet Jackman,  
15 J-a-c-k-m-a-n. My statement I think behind all this, I  
16 look at the financial end of things and the human end  
17 of things, and I don't think that just because the  
18 company wants to save money by not having to truck  
19 things, this brine, they make plenty of money, oil  
20 companies, already, and I don't think the money that he  
21 saves is worth people's wells when something goes wrong  
22 with some of this whole setup that he's got going on,  
23 and I really don't think we need this.

24 I wasn't really even impressed with the wells that  
25 are going in up here. I moved from the city to come up



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1 here to the beautiful country, and now big oil  
2 companies are coming in and they are putting their  
3 wells in, because the farmers can't make enough money  
4 on their farms. So they are taking advantage of the  
5 farmers by using their property for these wells, and  
6 it's all going to go bad. Thank you.

7 MR. JANN: Thank you.

8 MS. HANSEN: Could you ask people to come to me?

9 MR. JANN: Yes, I'm going to do that. I will ask  
10 Janette to sit here with her microphone. And ask the  
11 speakers to come forward toward Janette.

12 PUBLIC VOICE: Make us do all the work, boy.

13 MR. JANN: And then I will call folks. So next we  
14 have Tyler Roberson, followed by Scott Lackey. So if  
15 you could come forward as your cue for the next  
16 speaker.

17 MR. ROBERSON: Hello. My name is Tyler Roberson.  
18 I was born in Gladwin, raised on the banks of the city  
19 river, right north of Townhall Lake Road.

20 Right after serving as an officer in the armed  
21 forces I finished my master's in fishery and wildlife  
22 biology. It just so happens that for my master's  
23 thesis I did a case study on the Cedar River. I've  
24 been involved within the scientific community as it  
25 pertains to our watersheds for a number of years before

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1 any science. Besides the formal study I've lived on  
2 the river all my life.

3 It's not by accident that Gladwin was founded upon  
4 the river. Most communities are founded upon rivers  
5 and streams for good reason, for water means life.  
6 It's an important element of all life on earth.

7 To hear that a company is potentially being  
8 allowed by the EPA to dispose toxic waste near its head  
9 waters rings of insanity to me, especially over 30  
10 miles of trucking costs. Our community has certainly  
11 seen hard times. Now we are letting outsiders try to  
12 drive the final nail in our coffin and seal our  
13 community's fate.

14 Let me ask you, how many companies are going to  
15 move to Gladwin when their employees are at risk of  
16 being subjected to poison by toxins within their water  
17 supply? That is safe? We're being told this is safe  
18 without danger, without risk. Time has shown  
19 otherwise.

20 By your own research, there's been 457 leaks in  
21 just eight states, and that's just between 2006 and  
22 2012. 50 percent of those were directly related to  
23 storage wells just like the ones you are trying to  
24 bring to our community. That is according to your  
25 guys' research.

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1           You know this entire situation revolves around  
2           dishonesty. The pollution itself by name is a complete  
3           fabricated lie. You call it brine. I guess you call  
4           it brine because potentially radioactive waste with  
5           heavy metal toxic waste rings better to our ears.

6           Pennsylvania alone had 271 confirmed cases of  
7           water contamination last year from brine storage.  
8           Homes around the brine storage well in Guatemala and  
9           Texas saw real estate values drop 14 percent.

10          Another thing to consider is that Michigan has the  
11          largest number of independent water wells in the United  
12          States. Gladwin is certainly one of those communities  
13          that rely upon them. I'm realistic and I understand  
14          that modern life requires fossil fuels to operate.  
15          However, Gladwin is still moderately untouched by  
16          pollution. The proposal would be much better suited  
17          for places already dealing with this issue, and not  
18          induce a new situation in such a pristine watershed.

19          Those making this decision need to ask themselves,  
20          would the income generated from 30 miles of trucking  
21          costs cover 100 percent of the cost of a toxic spill or  
22          toxic contamination? The answer is most certainly no.  
23          Just ask the Pennsylvania residents that.

24          MR. JANN: Let me mention that you are about a  
25          minute over, and we will be more than happy to take any

1 written comments that you have at this time.

2 MR. ROBERSON: All right. Sounds good.

3 MR. JANN: Thank you. Thank you. So are you  
4 Mr. Lackey?

5 MR. LACKEY: Yes.

6 MR. JANN: Followed by Richard Cassidy, and then  
7 the third in cue will be Mike Bailey, please.

8 MR. LACKEY: Hello, my name is Scott Lackey. I'm  
9 new here. I moved in 22 years ago. I live in  
10 southeast Gladwin County. Everybody down my road has  
11 had to put new wells in. Some oil companies were there  
12 in the '50s and '60s. Now, I don't know what the  
13 regulations were then, and I know nobody cares now.

14 But I have a cup of water here that anybody can  
15 drink that wants to. It just came out of my garden  
16 hose. It's salty, and if you leave it sit overnight it  
17 gets a scum on the top. I've had it tested. In my  
18 house I have to have reverse osmosis, I have to have  
19 water filters, I have to have water softeners. I've  
20 had to replace everything, and plus we still don't  
21 drink it. I wouldn't let my children drink it. This  
22 happened years and years ago.

23 So a company came, got their money, and left.  
24 People from the EPA, I appreciate you being here. I  
25 know you took the brunt of this tonight, but with the

1 way things are with the EPA, all your guaranties could  
2 be rolled back and gone tomorrow. Think about our  
3 children and grandchildren. Do we want to have good  
4 clean water? I do. I'm going to leave this here. I  
5 invite you to drink it that wants to, but I wouldn't.

6 MR. JANN: Thank you. Now, Richard Cassidy, and  
7 to be followed by Mike Bailey, please.

8 PUBLIC VOICE: Mr. Cassidy said he's all set.

9 MR. JANN: Thank you. Mike Bailey followed by  
10 Ralph Shiffer, please. And, again, if folks could say  
11 their name and spell their last name.

12 MR. BAILEY: Thank you. My name is Mike Bailey,  
13 and I've been a teacher here in Gladwin Community  
14 Schools for 44 years. I did want to reiterate, I think  
15 it was Dr. Townsend's and, of course, Mr. Roberson's  
16 comments.

17 PUBLIC VOICE: Put the microphone up closer.

18 MR. BAILEY: Oh, I'm sorry. Normally, I don't  
19 ever need to have one of these.

20 Anyhow, I'd like to comment on Dr. Townsend's and  
21 Mr. Roberson's comments, because Dr. Townsend said 410  
22 injection sites, have a failure rate of 410, Class II  
23 injection sites, and the number that Mr. Roberson gave  
24 was something similar to that with a larger number, but  
25 of the same general percentages, and I didn't hear from

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1 the gentleman what the EPA has as a number.

2 What is your official number on failure rates of  
3 Class II injection sites, do you have a number on that?

4 MS. HANSEN: I don't off the top of my head, sir.  
5 I'm sorry, we're not supposed to answer.

6 MR. JANN: Let me remind everyone that we're not  
7 answering questions.

8 MR. BAILEY: Okay. Well, anyhow, I guess you need  
9 to highlight those two numbers. They are significantly  
10 at the high end, and they need to be considered. Thank  
11 you.

12 MR. JANN: Shiffer next, followed by Letha  
13 Raymond, please. And, again, folks, please say your  
14 name and spell your last name. Thank you.

15 MR. SHIFFER: My name is Ralph Shiffer. I've  
16 lived here since 1960. I truly believe that we're  
17 witnessing smoking mirrors blown up our ass. The EPA  
18 is going to give these people a permit. There's  
19 nothing we're going to do about it.

20 This is my question to the EPA. When they fuck  
21 up, how much are they going to charge them? Are you  
22 going to charge them \$5,000 a day when they are making  
23 millions a day? That's not right. I was an industrial  
24 union construction worker. I've worked all over  
25 industrial sites my entire life, and I saw what a waste

1 the EPA bought.

2 You cannot tell me, you cannot convince me,  
3 there's nothing you can say, that this whole thing is  
4 smoking mirrors. Everyone of us here, why not put this  
5 on a ballot in November? Let's get a vote on it,  
6 because the EPA lies. The EPA will look you in the eye  
7 and lie to you. Go ahead, tell us more fucking lies.

8 MR. JANN: The next people will be Ben Brower,  
9 please, and followed by -- Letha Raymond first, please,  
10 and then followed by Ben Brower.

11 MS. RAYMOND: Letha Raymond, R-a-y-m-o-n-d. I'm a  
12 resident of Surrey Township in Clare County, and I'm  
13 here today as a concerned citizen and in support of all  
14 of us to stand up for the health and safety of all  
15 residents in the Tittabawassee watershed that we all  
16 share and depend on.

17 Clare and Gladwin Counties have a long history of  
18 oil and gas exploration and production that has  
19 resulted in a significant number of played out and  
20 abandoned wells. I share with my neighbors a concern  
21 that our counties are vulnerable to becoming a dumping  
22 ground for toxic waste from other drilling operations  
23 around the state, as well as outside of the state.

24 This well is named well Groves 13-11, which I  
25 believe suggests there are 12 other wells within

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1 Section 11. And I have some questions about those,  
2 which I'll put in my written comment.

3 I understand that it's not so long ago that the  
4 area underwent review and corrective action. The area  
5 -- all wells within that area need to be inspected and  
6 evaluated for proper closure, and they have the  
7 potential to leak should pressurized toxic waste find a  
8 way to these wells. I understand that the radius of  
9 that at one time, not so long ago, was one mile, and it  
10 was under -- I understand that it was under the Bush  
11 and Chaney administration, that that radius was reduced  
12 to one-quarter mile.

13 So I would hope that the EPA can help us know what  
14 we can do to increase these safety zones rather than  
15 decrease them.

16 Should this permit be approved by the EPA and the  
17 MDEQ, area residents should test their water now, and  
18 should continue to test to be sure that they are not  
19 being poisoned by their well water. Water testing is  
20 expensive, and many area residents are hurting  
21 financially and do not have the means to pay for this  
22 testing. Are they really expected to pay for these  
23 tests themselves, while Jordan Development Company is  
24 reaping the benefit of this injection well? How is  
25 this fair?



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1           Communities and rural residents in this area rely  
2           on well water, our groundwater. Many residents are  
3           justifiably concerned, as am I.

4           MR. JANN: You are out of time. We will be very  
5           happy to take your written comments.

6           MS. RAYMOND: Can I finish 30 seconds?

7           MR. JANN: You got about a minute more than  
8           allocated.

9           PUBLIC VOICE: Take all the time you want.

10          MS. RAYMOND: Then I will end with, we are blessed  
11          with our abundant water in our beautiful state. We  
12          must stop taking our water for granted. We must  
13          protect our water, and we implore you, the EPA, to help  
14          us do that. And thank you for this public hearing  
15          today.

16          MR. JANN: Mr. Ben Brower, please, followed by  
17          Mr. Lee Henderson. Are either of those folks coming  
18          forward? And then the third person would be Diane  
19          Doherty, please. Lee Henderson, and I do ask  
20          Ms. Doherty to come forward, and the next person after  
21          that would be Don Keyhoe, please.

22          MR. HENDERSON: Thank you. I'm Lee Henderson,  
23          H-e-n-d-e-r-s-o-n. I was in the first meeting. So I  
24          had questions then but didn't have a chance to talk.  
25          But I'd like to know, how far away does this company

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1           have other wells? And the comment would be, do we  
2           really want to be a dump station for all of Michigan or  
3           perhaps further away? I don't think we do.

4           My well, I live in the southeast corner of  
5           Gladwin, down in Brushaber, just east of Midland, and  
6           we put a new well in a couple years ago to try to get  
7           away from our salt water. When they put it down we  
8           knew it was within 10 or 20 foot of the other one. I  
9           still have salty water. Where did that come from? Was  
10          that a natural occurrence? I don't think so.

11          I'm concerned about what might happen if we become  
12          a dump station for the whole state or even further. I  
13          don't see a regulation, I haven't heard of any  
14          regulations for this company. They can take it from  
15          out of state if they want to.

16          And I haven't heard a termination date or gallons  
17          or daily rate. How many days are they going to allow  
18          this to happen, 20,000 gallons per day?

19          PUBLIC VOICE: Barrels.

20          MR. HENDERSON: The Midland Daily News says  
21          gallons. So I don't know what they are talking about.  
22          So I don't know whether the news is wrong or not, but I  
23          don't really want to be a dump station for counties in  
24          Michigan. I'm not sure that's right.

25          Who's going to make the final decision, the

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1 Michigan DEQ or Michigan EPA or the Federal EPA or can  
2 it be Gladwin County say no and have it go into effect?

3 MR. JANN: That's time.

4 MR. HENDERSON: Okay. Thank you very much.

5 MR. JANN: Thank you. Diane Doherty. Don Keyhoe.  
6 Excuse me?

7 PUBLIC VOICE: Don left.

8 MR. JANN: All right. Katie Keith, please,  
9 followed by Amy Kruske, I believe. Please say your  
10 name and spell your last name.

11 MS. KEITH: Katie Keith, K-e-i-t-h.

12 MR. JANN: Thank you.

13 MS. KEITH: I guess what I learned here tonight  
14 the most, unfortunately, is that I feel that the EPA  
15 guidelines are hugely insufficient. And the  
16 information provided today, I mean, the fact that  
17 there's possible toxic waste just left up to our common  
18 sense and not being told in the presentation, that's  
19 very concerning to me.

20 But, you know, these guidelines, we rely heavily  
21 on Jordan's integrity through the reliance on their  
22 self-monitoring, but then there was no track record  
23 reviewed. So, you know, understanding about any or no  
24 review about the company itself and how it operates, it  
25 doesn't appear in these guidelines.

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1           The fact that it's reviewed every five years seems  
2 grossly insufficient to me. I mean, it could leak for  
3 four years, you know, and the company doesn't mention  
4 it or what not. I mean, who knows? We have to rely on  
5 them, and it's just that that just seems like so long  
6 and so much damage.

7           And the fact that the pipeline isn't even covered  
8 that's transferring the brine, that that's not even  
9 part of the permitting process, where I think all  
10 pipelines leak, any plumber will tell you that. I  
11 mean, that can affect the wildlife. We're only  
12 considering human water consumption. I mean, what  
13 about all the other factors? Why is it only so  
14 limited? It just seems so grossly insufficient.

15           And then the fact that there's no penalty if there  
16 is anything. I mean, that \$28,000, that's so grossly  
17 insufficient. It's all grossly insufficient. I don't  
18 understand. I mean, I don't get it.

19           And just because a well exists shouldn't be a  
20 reason to use it. I don't buy that either. I mean,  
21 who put the well there? Did we get asked to put the  
22 well there? Oh, the well is there, we might as well as  
23 use it, and for 30 miles trucking expense, as someone  
24 else mentioned, it just doesn't add up to me. It just  
25 doesn't seem right. It's just so, so insufficient, and

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1           then there's no penalty and no concern for the wildlife  
2           whatsoever, which is concerning, too.

3                   And the fact that this is a poor community. Why  
4           is it always the poor communities that this happens to?  
5           I don't, I don't get it. I don't understand. Do we  
6           not have the money to fight this? I don't know. But  
7           that's what I had to say.

8                   MR. JANN: Thank you.

9                   MS. KEITH: Thank you.

10                   MR. JANN: Amy Kruske, followed by Robert  
11           Townsend, please. Then after Mr. Townsend, Annette  
12           Murray.

13                   MS. KRUSKE: Okay. I'm Amy Kruske, K-r-u-s-k-e.  
14           Thank you for this hearing. I know it's been hot and  
15           debated, but to tell you the truth, we wouldn't have  
16           had this hearing right now had it not been for a letter  
17           to the editor, and I think it was in October, that my  
18           husband and I saw, and we were pretty outraged. The  
19           letter didn't come from anyone here, it came from a guy  
20           in Clare, about this proposed well. So we got our pals  
21           together and our neighborhood and we wrote letters to  
22           Janette to get this hearing. I don't know who else  
23           wrote letters, but thank you.

24                   Our concern was, obviously, it's very close to  
25           where this well is proposed. It's just, I mean, it's a

1 stone's throw away from the Cedar River watershed.  
2 It's also not very far from my own personal well. It's  
3 in my backyard. So that made us very nervous, still  
4 does.

5 I will read my notes now. I guess, here's one of  
6 my big concerns, too. Okay. We weren't informed of  
7 this well to begin with. So how are we going to be  
8 informed if it has a spill or a crack? Now, there's  
9 information, you know, that we're trying to show us,  
10 like, I see that there's a well that has casing around  
11 it, things like that. However, there have been many  
12 spills reported. There were 6,000 spills in 2014 in  
13 just four states. That's not our state. That's other  
14 states that have been fracked more heavily.

15 I don't know if since then it's really hard to  
16 find information on that, but I'm sure the numbers are  
17 very high. It's not that it doesn't happen. It  
18 happens more than we would like to know, and when it  
19 happens in my backyard I'm not going to be happy about  
20 it.

21 Especially since I don't know what to test for,  
22 because we don't even know what's in the brine. What?  
23 How will I test my water for that? I've tested my  
24 water in the past, it's expensive, and you have to  
25 basically tell them what you want them to test it for.

1           So that's another concern that I have.

2           MR. JANN: Just so you know, we're at time.

3           MS. KRUSKE: Oh, no, we're at time.

4           MR. JANN: And we're happy to take any written  
5           comments that you may have.

6           MS. KRUSKE: Okay. Thank you.

7           MR. JANN: Robert Townsend, followed by Annette  
8           Murray, and then Donna Ridley.

9           DR. TOWNSEND: Good evening. Thank you all for  
10          coming out. My name is Dr. Bob Townsend,  
11          T-o-w-n-s-e-n-d, and I just want to express a couple of  
12          concerns that I have.

13          First of all, I came to this meeting with an open  
14          mind. I don't have a care one way or the other on  
15          fracking, as far as no predisposed ideation or anything  
16          like that.

17          There are two things that deeply concern me. As  
18          soon as I walked in the door I saw people signing  
19          petitions, and the EPA came up and lied to me. That's  
20          my first contact with EPA. They told me they had no  
21          idea who those people were, but the EPA was lying. Why  
22          don't they just say that they are signing petitions  
23          about fracking and move on? Be honest.

24          The second thing that really disturbs me is why is  
25          the State of Michigan not here? They should be here

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1           addressing some of these concerns with the DEQ and the  
2           other agencies responsible for this, because there are  
3           questions. A pipeline is not covered under the EPA.  
4           It's covered under the State of Michigan as far as I  
5           know. Why are they not here explaining that to us?  
6           That's the big concern to me. That's going into the  
7           water supply, the creeks. The injection well 3,000  
8           feet deep is not.

9           So before we approve this, first I'd like to see a  
10          bond to cover the cost of clean-up for that pipeline in  
11          case it ruptures. Second of all, I'm tired of hearing  
12          from government agencies that it's not my circus, not  
13          my monkey, all right, and that's all I have to say  
14          about that.

15          This goes from a site of origin to the site of  
16          disposal, and it all needs to be looked at. Thank you  
17          very much.

18          MR. JANN: Annette Murray, followed by Donna  
19          Ridley.

20          MS. MURRAY: Hi, I'm Annette Murray, M-u-r-r-a-y.  
21          I just have one question or comment. Who is Jordan  
22          Development and why their interest in Gladwin County?  
23          What are they getting out of it? That's it.

24          MR. JANN: Thank you. Donna Ridley, followed by  
25          Jessica Shanahan, please.



1 PUBLIC VOICE: Donna left. Donna is gone.

2 MR. JANN: Okay. Jessica Shanahan, followed by  
3 Randall Schroeder, please.

4 MS. SHANAHAN: S-h-a-n-a-h-a-n--G-a-l-l-e-y.  
5 There's a question, there's a question that was dodged  
6 multiple times, and I want to answer this question for  
7 you, is what's in the brine. The brine has  
8 hydrocarbons in it. Let me tell you about  
9 hydrocarbons, because I've researched brine.

10 Hydrocarbons cause cancer in lab rats. I am a  
11 victim of hydrocarbon exposure. It's not in the water.  
12 It's in the vapor intrusion. You breathe it. It  
13 causes cancer. I have stage four ovarian cancer. My  
14 life expectancy is four to six months. I've made it  
15 one year so far. (Applause).

16 Thank you. I have gotten 13 chemo injections in  
17 the last 13 months. I have lost my hair. I have lost  
18 my fertility. I have lost my life expectancy, my  
19 insurance, my job, my career. My children are standing  
20 right there, and they could lose their mommy because of  
21 those hydrocarbons that she would not list. Those are  
22 what's in the water, and they are going to put it in  
23 our ground and channel it to our water, and they are  
24 going to kill more children.

25 This is my hair. I have no immune system, I

1 apologize. This is what's in front of us, and this is  
2 what's going to happen if you guys let this happen.

3 MR. JANN: Randall Schroeder.

4 MR. SCHROEDER: I'm Randall Schroeder,  
5 S-c-h-r-o-e-d-e-r. And I have been involved with the  
6 gas problem and fracking and priming of wells done in  
7 Farmington Hills where they did a non-vertical pipe to  
8 come into the area. We had all of these kinds of  
9 assurances from the EPA group and from the state as  
10 well. It leaked. We were in a closed ecosystem; we  
11 had city water, we had city sewers, but we smelled  
12 stuff from what the occurrences were.

13 One of the biggest problems that I would encourage  
14 EPA to demand of Jordan, which we're being a test for  
15 Jordan doing fracking here, obviously, is that they  
16 have independent testing and a clearness that we can  
17 see the results, anybody can see the results. Because  
18 although this wasn't Jordan Oil that we dealt with down  
19 state they do have a tendency to hide things. Why?  
20 Because they are afraid somebody is going to come back  
21 and sue them. So why not insist that Jordan have  
22 independent testing of not only what's going on with  
23 the well but surface water as well?

24 Number two, this surface pipeline is crazy, and I  
25 would like to reiterate the fact that the state should

1           be here, that is their, and we've dealt with the state  
2           before, that is part of their responsibility and  
3           jurisdiction. That's all I have.

4           MR. JANN: Thank you. Mike Gary, followed by  
5           Heidi Gary, and then Rose Marie -- excuse me, Gretchen  
6           Mora. Okay. Mike Gary, Heidi Gary, and Gretchen Mora,  
7           then after that would be Rose Marie Thume, and after  
8           that is Michelle Davis.

9           MS. DAVIS: First of all, Michelle Davis,  
10          D-a-v-i-s. First of all, I would thank you for coming  
11          and allowing this hearing. And laughing, because my  
12          kid was in debate about a year ago, and the topic was  
13          greenhouse gasses. I've got to be honest, I don't have  
14          as much respect for EPA. So, I'm sorry, but I  
15          appreciate you being here. And the big reason why is  
16          because I think that through my son's debate I learned  
17          a lot about the EPA and how things were not really  
18          truthful, and I'm not saying that you personally, but  
19          I'm saying that on the organization. So I have a lot  
20          of hesitation just on that.

21          But I am very concerned about what's going to go  
22          in this well, and I know we're hearing brine, brine,  
23          brine, brine, brine, but I'm very concerned about maybe  
24          some fracking materials somehow ending up in there. My  
25          apologies, because I did not research this topic in

1 depth the way I should have, but that is a very good  
2 concern about stuff being put in there that shouldn't  
3 be put in there.

4 I'm also extremely concerned with a catastrophic  
5 disaster. I don't see -- and I haven't heard anything  
6 about how that could be addressed. There is absolutely  
7 no way this well should be supported if we don't have  
8 any plan, something that will cover catastrophes, and I  
9 know that they are not planned. You know, you can't  
10 really lay that out, but there should be something.  
11 And that awful number of \$28,000 is really ridiculous.

12 I'm also very concerned that we as a public have  
13 not been informed of so many details, especially what  
14 exactly is, like what is the lifetime of this? I mean,  
15 do we know? We, seriously, do not have enough  
16 information.

17 I'm very concerned that our public officials are  
18 not here. (Applause).

19 Okay. I'm going to speak on a different topic,  
20 touch on it. In my own township I brought out a very  
21 long presentation about why I think windmills should be  
22 brought into our township. And with that key  
23 suggestion that maybe the people that were in power  
24 were getting kickbacks, and so we were not being told  
25 all the information. I'm saying that that's true, but

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1 I'm saying that was a concern. So I bring that to the  
2 attention here. Where is our officials, why are we not  
3 hearing from them?

4 I think there are just way too many things for the  
5 EPA to say, yeah, let's go ahead. No, we have to have  
6 some answers for a lot of questions. We need more,  
7 another hearing, honestly. We need more information.  
8 Thank you.

9 MR. JANN: Next we have Tracy Curtis, followed by  
10 Jim Rackord, I believe, and then Judith Schroeder.  
11 Please state your name and spell your last name.

12 MS. CURTIS: Tracy Curtis, C-u-r-t-i-s. I just  
13 have a concern, nobody has mentioned that this is  
14 within one mile of a nice lake that has beautiful  
15 people, beautiful things, that we all need to be aware  
16 of. Well, actually, two lakes that are within range  
17 that can be affected by this. There would be no  
18 fishing, there would be no skiing on the lakes, if it  
19 gets contaminated or anything.

20 So I just wanted to make sure that you guys are  
21 aware that not only our drinking water is going to be  
22 affected, but our environment is going to be affected.

23 MR. JANN: Thank you. Jim Rackord, if I'm  
24 pronouncing that correctly, followed by Judith  
25 Schroeder, and then Jon Freier, I believe.

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1 MR. RACKORD: I will this evening -- pardon me?

2 MR. JANN: Name and spell it, please.

3 MR. RACKORD: Jim Rackord, R-a-c-k-o-r-d. I've  
4 lived here all my life. I live on Wiggins Lake, and  
5 I've lived in a community on one of our trout streams  
6 on top of that. One of them I would like to address  
7 and --

8 MR. JANN: I think she's having a hard time  
9 hearing you.

10 MR. RACKORD: -- basically, when I lived down  
11 here. I have 40 plus pages of documentation off the  
12 internet of leaking and also leaking into groundwater.  
13 And one of them I want to talk about here now is the  
14 EPA due to their lack of regulations has allowed  
15 fracking companies commonly to dispose of contaminated  
16 fracking water in the cheapest, easiest ways they can  
17 find, regardless of consequences for communities, water  
18 treatment facilities, and environment.

19 I think, like one of the gentlemen said earlier, I  
20 believe this should be put on the ballot in November to  
21 vote on whether to allow this in our community. Thank  
22 you.

23 MR. JANN: Judith Schroeder, is that correct?

24 MS. SCHROEDER: Yes.

25 MR. JANN: Okay. Spell your last name. And then

1           it would be Jon Freier, please.

2           MS. SCHROEDER: S-c-h-r-o-e-d-e-r. All right.  
3           The EPA's duty is to protect our water, right, is to  
4           protect our waters? I would ask -- I think it would be  
5           important to send this to our state representatives,  
6           write letters to our state representatives. You know,  
7           we need to do that.

8           And the third thing is, I believe God is for the  
9           people, and to use prayer. There's power, we still  
10          have power. There's a battle going on, and I look at  
11          it between good and evil; money and whatever, whatever  
12          the plan is. They don't care about us. God cares  
13          about us. The state representatives will hear us. So  
14          I would encourage you to write to your state senators  
15          and pray. Thank you.

16          MR. JANN: Jon Freier. Jon Freier, followed by  
17          Stephen Ostrander, and then Jeff Ennis.

18          MR. FREIER: It's Jon Freier, F-r-e-i-e-r. How is  
19          it going tonight? Not very good, is it? Like she said  
20          before about the state representatives and to regulate  
21          about the surface pipe, regulations about the surface  
22          pipe that's below the ground 3 feet or 4 feet below the  
23          ground or what not, and I called the soil conservation  
24          before this, and they had no idea that this meeting was  
25          going on tonight.

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1           So reach out to everybody; the EPA again, DEQ,  
2           call your soil conservation, MSU, whoever. We don't  
3           want it. We don't need it.

4           MR. JANN: Thank you. Stephen Ostrander, and Jeff  
5           Ennis, followed by Michelle Wojtas. I'll go to number  
6           four in the event somebody is approaching the front of  
7           the room. Dr. Ronald Kruske, please, and after Dr.  
8           Kruske we have Dan Ostwick, I believe.

9           DR. KRUSKE: Dr. Ronald Kruske, K-r-u-s-k-e. I  
10          came here tonight basically to find out what our  
11          administrative avenues were to try and challenge this  
12          permit. We got a little bit of that answer. Thank  
13          you, Steve. And I would like to thank you both for  
14          allowing us the chance to talk tonight.

15          It sounds as though it's up to you guys, and that  
16          we don't have any avenues to pursue this at this point,  
17          and I realize you guys are pretty limited by  
18          guidelines, that you have to work within the Safe  
19          Drinking Water Act. I'm aware that there's also a 2010  
20          environmental justice guidelines, and I hope you could  
21          maybe find something in there that could help us maybe  
22          deny this permit.

23          Again, if we had some administrative options, I  
24          think we would try to exercise those. So try to keep  
25          that in mind in your decision-making process. Thank



1           you.

2           MR. JANN: Thank you. Dan, and I'm  
3           mispronouncing, I know, but Ostwick; and then Scheryll  
4           Gerendsky; and then Andy Szerdi, S-z-e-r-d-i.

5           MR. OSTWICK: My name is Dan Ostwick,  
6           O-s-t-w-i-c-k. I just wanted to say that I think  
7           fracking and on the waste that we create that has to be  
8           stored forever is highly irresponsible of allowing it  
9           to happen. And in the permit to Jordan, there's  
10          absolutely no responsibility of them if this well  
11          should leak. It's our problem. There is no  
12          responsibility.

13          I have a copy of the permit that was signed on  
14          September 15, 2017. That's before we knew about it.  
15          The EPA signed a permit, Christopher Korleski. Why is  
16          there a signed permit before we even know about it?  
17          The EPA is not on this with us.

18          PUBLIC VOICE: Told you, they were lying.

19          MR. JANN: I'll break with my own rules and speak  
20          to that, which is, that the document that was signed is  
21          a so-called Statement of Basis, which describes the law  
22          and facts that were most important, but you may see  
23          that the permit itself has a draft stamp on it. In  
24          fact, you see that sheet of paper that's on the table,  
25          the permit says draft.

1 MR. OSTWICK: This is the one that's got the  
2 signature.

3 MR. JANN: That's a Statement of Basis. It's a  
4 separate document, but the permit is stamped draft.

5 MR. OSTWICK: It says permit number MIO51 --

6 PUBLIC VOICE: I thought you said you didn't  
7 answer questions.

8 MR. JANN: Yeah. That's why I said I'm violating  
9 my own protocol. So the permit is a draft. I will  
10 state that unequivocally. So let's move on to our next  
11 person. Sheryll Gerendsky, maybe that's the best  
12 pronunciation, followed by Andy Szerdi, S-z-e-r-d-i,  
13 and Todd Sweet. Okay. Then we have Tamie Robinson,  
14 please.

15 MR. SZERDI: Andy Szerdi, S-z-e-r-d-i. The  
16 Michigan strata is a basin, it's shaped like this. You  
17 push it in here, it will come up out over the edges, if  
18 you do enough of it. This is a bad thing. This will  
19 pollute the Great Lakes.

20 Also, there is no need for this. You can  
21 evaporate it. You can put it in shallow ponds or you  
22 can precipitate it in reactors, you just have to have a  
23 container to cook it out of. So there's really no need  
24 to be shoving bad stuff back into the ground where we  
25 get all of our water to drink. This is bad. Thank

1           you.

2           MR. JANN: Thank you. Todd Sweet, followed by  
3           Tamie Robinson, please.

4           MS. ROBINSON: Hi, I'm Tamie Robinson,  
5           R-o-b-i-n-s-o-n. I have a few questions and a few  
6           comments. First of all, we are still trying to find  
7           out what exactly is in the brine. We would like that  
8           posted, if that could come out. We would really  
9           appreciate that.

10           We also want to know where this solution, this  
11           brine, is coming from. I know you say it's from  
12           Jordan, LLC. Is that a Michigan only company? Is that  
13           from other places? We would like to know that.

14           Also, is this the same company, the Jordan  
15           Development Company, that holds and monitors the same  
16           pipeline that's under our Mackinac Bridge right now  
17           that was just struck and is already creating problems  
18           with our water here in Michigan? We don't need more  
19           water problems here in Michigan. We have enough.

20           We want to make sure the water is safe. We want  
21           to make sure we are safe. Our drinking water, our  
22           animals, our society, everything that we have here, we  
23           need to keep safe.

24           I understand that you have a job to do. I know  
25           that, and you have a job to do. I know that, but we

1 want to keep us safe. Thank you.

2 MR. JANN: Heather Schiele, S-c-h-i-e-l-e,  
3 followed by Joe Servetter.

4 MR. SERVETTER: Very good.

5 MR. JANN: I got one right.

6 MS. SCHIELE: You wasn't too far off. You are  
7 okay.

8 MR. JANN: And then third would be Paul Reece, I  
9 believe.

10 MS. SCHIELE: Hello. Thank you. My name is  
11 Heather Schiele, S-c-h-i-e-l-e. And the last time I  
12 found myself in this high school and this auditorium is  
13 when we were listening to Michigan DEQ and Michigan  
14 State Extension telling us about fracking and how it  
15 was going to be so safe for our area, explaining that  
16 they were going to take all of the poisons that they  
17 put in the ground and they were going to take it  
18 elsewhere, and there was going to be no problem, they  
19 would cover the well and that would be it. And here we  
20 are now, and they are talking about making these wells  
21 into injection wells, just as expected.

22 The problem I have is many don't know that in 2013  
23 I took the DEQ to court to try and find out what their  
24 proprietary poisons were, so I could properly test my  
25 well, because it's very specific things that you need

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1 to do. It has to be in a certain amount of time  
2 beforehand, and you have to tell them specifically what  
3 to test for. But the companies, whether it was Jordan  
4 or whether it be, I can't remember, what was the name,  
5 Devon, who was working out of River Walk, and these  
6 people have proprietary chemicalists, and that's what I  
7 was fighting against, so I could test my well  
8 correctly.

9 Not to mention that that test was going to cost  
10 \$3,500, and that that was with ten people in my  
11 neighborhood to get that wonderful price of \$3,500.

12 And as mentioned, Gladwin is a poor community and  
13 we do not have \$3,500 to do that. And the only reason,  
14 the only way that that would be helpful to us is if we  
15 knew specifically what they were going to be putting  
16 in, and if it was in a certain time limit of them  
17 drilling that well. So that's one point.

18 And what I find misleading is that, ma'am, when  
19 you were discussing things, you were talking very  
20 simply about taking water and things that were not  
21 petroleum based from one well and transferring it from  
22 lines to this injection well. There's a lot more  
23 chemicals than what's listed there, enough for the DEQ  
24 and Health to spend a lot of money for us to go to the  
25 Michigan State Supreme Court. So to say that there's

1 nothing there is a lie.

2 And the problem people have is we might not have a  
3 lot of money in Gladwin, but we're not stupid. When  
4 you start something with a lie and you continue with a  
5 lie, it's just a lie. So how do we ever trust you?  
6 There's not going to be anybody here for us when it  
7 fails, which, ultimately, if you are against saying  
8 that things stored 7,000 miles underneath the ground or  
9 feet or whatever it is, I believe the transfer line  
10 that you said three sentences later or three minutes  
11 later is 3 to 4 feet underground. So how is that not  
12 going to affect our aquifer if there is a problem?

13 And the casings in the well are not going to help  
14 that at all. It's got nothing to do with it. Now,  
15 from my understanding, it's not even the EPA's  
16 business. It's going to be the helpless and  
17 wonderfully undependable Michigan DEQ. So that's a  
18 wonderful thing to look forward to.

19 I was hoping when I moved to Gladwin in 2010 to  
20 enjoy the rest of my life here with my grandchildren  
21 and their grandchildren, and I don't even know if we  
22 will have water to drink when that time comes.

23 The second thing is --

24 MR. JANN: You are out of time.

25 MS. SCHIELE: Okay. But, anyway -- oh, the other

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1 thing that I wanted to say, how can it be legal if you  
2 don't have to report this out, but if there is a hush  
3 order on doctors and emergency workers, anything that  
4 has to do anything with fracking or oil drilling? How  
5 are we supposed to believe anything? They are not even  
6 allowed to tell us when there's something wrong with  
7 us, because we've been affected. It starts with lies,  
8 continue with lies, and it's just killing us for money.  
9 Thank you.

10 MR. JANN: Joe Servetter. Please spell your last  
11 name.

12 MR. SERVETTER: Joe Servetter, S-e-r-v-e-t-t-e-r.  
13 Here's the problem I have. One is, it's a LLC, so  
14 their liability is limited. I'd like to know exactly  
15 if, let's say something happens, I'd like to know what  
16 are they -- what is the company going to pay, you know,  
17 what if all our water is contaminated, are they going  
18 to pay for the repairs or are we left as a poor  
19 community fending for ourselves?

20 The other thing, I would like to remind you and  
21 you that you work for the government, right? You work  
22 for us. I pay your paycheck, and I pay your paycheck.  
23 When you stand up here and you say it's salt water, and  
24 then someone else brings up there's other chemicals,  
25 and then you admit that there are other chemicals, I

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1 don't know how to put it other than you lied, okay.  
2 And I'm not okay with that.

3 I work for a fire department. I work for a  
4 community, and I try to do things to better the  
5 community, okay. I don't lie to people, and it makes  
6 me feel like you guys are working for the company, not  
7 for us.

8 That's not how this government is supposed to be.  
9 It's supposed to be for the people, and I really have  
10 an issue with that. Because I know if I was a business  
11 owner and you lied to me, I would fire your ass in a  
12 heartbeat.

13 MR. JANN: Next we have Paul Reece, followed by  
14 Sally Wade.

15 MR. REECE: Paul Reece, R-e-e-c-e. Life is full  
16 of risks. We all agree that some of the greatest  
17 successes have come from the most severe risks, but  
18 risks that may have far-reaching effects and cause  
19 irreparable damage should never be forced upon an  
20 individual or community.

21 If nothing else, you have witnessed a community  
22 come together tonight with one voice and say no, not  
23 here, not in our backyard. We are unified in our  
24 conviction, that if Jordan wants to save money or make  
25 money at the expense of their own children, go ahead,



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1 but they will not make money at the expense of ours.

2 Tonight we've heard from scientists, teachers and  
3 doctors, and somehow, shockingly, you have failed to  
4 offer sufficient answers to our basic questions about  
5 regulations, structure and safety. It was beyond  
6 apparent that your motive was completely self-serving,  
7 void of any concern for this community. If I have  
8 misplaced your motives, Jordan, which they are no  
9 longer here, then show your care, your decency, and  
10 make other arrangements for your waste site.

11 Though I reside in Gladwin, I'm a fourth grade  
12 teacher in Midland. Each year we take children to the  
13 Midland Historic Museum where they learn about Herbert  
14 Henry Dow, and how he developed a process to extract  
15 and utilize brine. He was a dreamer/inventor,  
16 something I try to inspire in my students to become.  
17 But they also learned that Dow used to dump his waste  
18 products in neighboring rivers, until he realized that  
19 such practice destroyed much of the life downstream  
20 because of the contents in the brine. The waste  
21 product of drilling is harmful, period.

22 And according to their testimony tonight, this  
23 company will be pumping 3 feet below the surface of the  
24 ground in our own back yards. I know this community  
25 will not stand for it. If you go against the passion

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1 of these people in this community and put our health  
2 and the health of our families without our vote, you  
3 will have awakened the bull from hell, and you will  
4 regret it.

5 MR. JANN: Thank you. Next is Sally Wade,  
6 followed by Debbie Whitsel, W-h-i-t-s-e-l, I believe,  
7 and Frank Kordus. Sally Wade? Okay. Debbie Whitsel,  
8 and she'll correct me, I'm sure.

9 MS. WHITSEL: No, it was right.

10 MR. JANN: Well, good. That's two.

11 MS. WHITSEL: Debbie Whitsel, W-h-i-t-s-e-l. I  
12 came from the Flint, Grand Blanc area, and that I have  
13 five grandchildren that live there, and the water still  
14 is bad in the Flint area. I moved up here to get away  
15 from all that.

16 I do not want -- I live one mile away from where  
17 you're talking about dumping all this. I have my 80  
18 acres, a beautiful home. My grandkids are going to be  
19 living there some day. I do not want this. I don't --  
20 I would love to have it be brought up to a vote and let  
21 our community decide if this is right for us, because I  
22 don't believe it is. Thank you.

23 MR. JANN: Thank you. Frank Kordus, Susie  
24 Hamilton.

25 MR. KORDUS: K-o-r-d-u-s. No one gets it right.

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1           We're a community. Now, as I said earlier, I'm from  
2           somewhere else. I've been here a very short time,  
3           around ten years, but this is a beautiful place.  
4           There's a lot of -- Gladwin reminds me of Alaska 40  
5           years ago. That's been lost in Alaska. I don't want  
6           to see it lost here.

7           We as a people cannot rely on our agencies. I  
8           think that's become brutally clear in the last few  
9           months where a duly-elected president is being badgered  
10          by his system, our media, our bureaucracies,  
11          everything, is lined up against us, the people. So  
12          we're going to have to take it back ourselves.

13          I know you've people got a job, but your powers  
14          are limited, and I know that. You are put in a very  
15          difficult position. I recognize that. You are being  
16          told to come here and take hearings, but you really are  
17          powerless in many ways to stop things, and you are not  
18          given the information. You are sent here to answer  
19          questions without that information. There have been  
20          secrets here.

21          We know what's going back in the ground is  
22          extraordinarily carcinogenic, cancer. We have a result  
23          of that right here. We are going to have to do  
24          something, and that's why I'm here speaking. We've  
25          already heard what's going on here. We have to do

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1 something. I don't have the answers for it, but I  
2 think we all need to talk.

3 So any efforts set forth for us to bond together,  
4 work together, contact representatives, but it will  
5 have to start here tonight with us. That's all I've  
6 got to say.

7 MR. JANN: Thank you. Susan Hamilton, followed by  
8 Sam Bridle.

9 MS. HAMILTON: Hello, my name is Susie Hamilton,  
10 H-a-m-i-l-t-o-n. I just want to say, you guys are  
11 doing a great job of public speaking.

12 All right. So I have a few concerns. I'm  
13 concerned about the unknown. It seemed very clear  
14 earlier that we don't know what's in the brine,  
15 potential environmental contaminants, and it's like  
16 playing Russian roulette with the unknown, and I don't  
17 know about you guys, but I don't want to do that. I do  
18 not want to do that, especially in my town, my small  
19 town where I grew up. I hope to raise a family here.  
20 I spend multiple days and nights on the lakes, fishing  
21 the rivers. I love the environment. I love the  
22 outdoors.

23 It's almost insane to me to think that they are  
24 even allowing this. I mean, most of you guys are way  
25 older than I am. I'm part of the younger environment

1 here, and I have an issue with this. I mean, thank you  
2 all for talking about it. I feel like if it doesn't  
3 leak soon it will eventually leak, and my kids or me,  
4 my future grandkids, if I raise a family here, are  
5 going to be impacted by this.

6 Chemicals are extremely scary, as most of you  
7 know, and it's even scarier when they are affected by  
8 -- they affect the life of living organisms like we've  
9 all seen tonight. It's just insane to think that this  
10 is even happening.

11 Also, it was just brought to my attention that our  
12 township officials are compensating for this well. So  
13 that's another thing to really think about. And that's  
14 all I want to say. Thank you.

15 MR. JANN: Sam Bridle.

16 MR. BRIDLE: Thank you. My name is Sam Bridle,  
17 B-r-i-d-l-e. I've only lived here a few years, but I  
18 live on Pratt Lake. For those of you who don't know  
19 much about Pratt Lake, it's 30 feet deep, and it's  
20 spring fed from an underlying aquifer. So that's my  
21 first concern.

22 We're very close to the site for the proposed  
23 injection well. Two years ago we had to drill a new  
24 drinking water well on our property, and we actually  
25 hit water 90 feet down, which we were very happy about,

1 but when you put those two things together, that  
2 aquifer is 90 feet and Pratt Lake is only 30 feet deep.  
3 We know this injection well is going to be quite close.  
4 In addition to that, there is this pipeline where it  
5 connects to the well.

6 So our big concerns are, how deep does the  
7 underlying aquifer under Pratt Lake, how far down does  
8 that go? How close does it get to that 3,800 feet that  
9 the injection well will operate at?

10 So I would hope that the EPA would take a very  
11 close look at that before they even consider granting  
12 this permit. Because any kind of leakage in the  
13 injection well or the pipeline system could easily  
14 contaminate Pratt Lake and our drinking water well.

15 So that's all I have to say, but I hope it carries  
16 some weight. Thank you.

17 MR. JANN: Thank you. Now, we have LuAnne Kozma,  
18 followed by Ellis Boal, and then John Dalton.

19 MS. KOZMA: Thank you. I'm LuAnne Kozma,  
20 K-o-z-m-a, from Charlevoix, Michigan, and I'm on the  
21 committee to Ban Fracking in Michigan, director of the  
22 ballot initiative. We request that you deny this  
23 permit, and I hope everyone in this room writes to you  
24 by the deadline, and that you provide that information  
25 as to how they do that, to deny the permit.

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1           Also, another hearing should be held, because I  
2           think a lot of information has not been provided yet to  
3           the public. I was, about a year ago, I was at the  
4           Berry County injection well hearing that you were  
5           actually at, Steve, I'm not sure if you were, but the  
6           same question was asked, what is the failure, casing  
7           failure, rate in Michigan, and whoever with the EPA  
8           said we don't know that, and here it is a year later  
9           and they are still saying it. We need and the public  
10          deserves to have that information prior to a public  
11          hearing.

12           There are a lot of different reasons why you  
13          should deny it, and then the only things you are  
14          looking at are process, geologic siting, well  
15          engineering, operation and monitoring standards.

16           A couple of reasons why you should deny it. If  
17          you can't deny it because of people like Donna, who was  
18          here earlier with cancer -- I don't know if you ever  
19          deny anything, and I really admire her bravery and  
20          courage to come up here and tell you what she's doing.

21           And as well casing failures do happen, and we need  
22          to know that failure rate. You know the failure rate.  
23          In fact, in 2016 your own study showed that, let me  
24          just go through a bunch of stuff that I have here and  
25          comments that were already given to you, from December

1           13, 2016, specifically saying that injection wells are  
2           a source of contamination, that's your own EPA  
3           information, and so you reverse course, according to  
4           the New York Times.

5           I hope that you are looking at every study by Tony  
6           Egraphia (phonetic), by the oil and gas industry  
7           itself, that shows that their injection wells, you  
8           know, the casings fail. It's just a matter of time.

9           So if you are about to, you know, guarantee to  
10          this community that this casing will never affect the  
11          groundwater here, not in 5 years, 10 years, 35 years,  
12          100 years, 200 years, I mean, that's what we're looking  
13          at. You know, this community is looking at the  
14          entirety, you know, in the future looking forward.

15          Radioactivity is another I will be writing you  
16          about, and I won't go on about it now, but all this  
17          waste is highly radioactive, and I don't think you are  
18          testing for it. I don't think Jordan is testing for  
19          it. How can we test for it, if you are not even  
20          testing for it?

21          And I just encourage everyone here to write to the  
22          EPA by the deadline and give them every single study  
23          that they need to be looking at in making this  
24          decision. And please deny the permit. And we do  
25          request another hearing. Thanks.



1 MR. JANN: Okay. Second in the cue is John  
2 Dalton, and then third is Kristin Olivastr, I believe.

3 MR. BOAL: Thank you, Steve. Ellis, E-l-l-i-s,  
4 last name Boal, B-o-a-l, from Charlevoix, Michigan.  
5 Also on the committee Ban Fracking.

6 In the question period earlier I spoke and asked a  
7 question about seismic issues, seismic issues related  
8 to the basement as opposed to the overlying layer, and  
9 Janette gave some information about the investigation  
10 that she had done on the possibility of earthquakes  
11 disrupting the, naturally caused earthquakes,  
12 disrupting this injection well.

13 And the problem I have -- well, we also discussed  
14 a report of EPA from 2013, '14 a workshop, "Minimizing  
15 and Managing Potential Impacts of Injection-Induced  
16 Seismicity from Class II Disposal Wells: Practical  
17 Approaches," and how that report recommended that there  
18 be a much more extensive investigation than has been  
19 done here.

20 But the point I want to make is, even crediting  
21 Janette's assurances of the investigations that she did  
22 for earthquakes noticed in this area, and including the  
23 one in the Canada/Detroit area just a couple months  
24 ago, even crediting that, we don't think that the  
25 burden of proof is on EPA. We think the burden of

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1 proof is on Jordan. Jordan has got to prove that there  
2 are no faults in the area near or above or below the  
3 injection area, not just for a quarter mile radius or a  
4 one mile radius around the well.

5 It's the operator that's going to be drilling that  
6 has the burden of proof to show affirmatively that  
7 there are no faults, and I don't think Janette claims  
8 that they have done that, and I don't -- if they have  
9 done that, that's great, but I haven't heard that  
10 Jordan has proved anything. All we have heard is that  
11 Janette has done some investigation and hasn't found  
12 any problems. So I think because the burden of proof  
13 has not been placed on the company as to this issue  
14 that the permit should be denied. Thanks.

15 MR. JANN: Thank you. Next is John Dalton,  
16 followed by Kristin Olivastr, and then third would be  
17 Veronica Hall, and fourth would be -- okay. Ms. Hall,  
18 very good. Thank you.

19 MS. HALL: Veronica Hall, H-a-l-l. And like I  
20 said in the first session, I know that some  
21 consideration went into the site, and for Michigan  
22 having the most private groundwater drinking wells than  
23 any other state, to me right there it's a no-brainer.  
24 Not to mention a watershed, spring fed lake, Pratt  
25 Lake, Wiggins Lake, Cedar River. We are a farming

1 community. We have fish and wildlife activities  
2 abundant here. There just has not been enough  
3 questions answered here today.

4 It seems like halfway through the first session,  
5 that little bit about the pipeline being 3 feet  
6 underground, that came out sort of by accident. That  
7 is huge. That is a huge piece.

8 And I know not a lot of money right now is  
9 allocated for if there is a catastrophe, but all the  
10 money in the world cannot put the genie back in the  
11 bottle. Once there's a spill, a catastrophic spill, we  
12 won't be the same. The water won't be the same. The  
13 land won't be the same, and it's not worth the health  
14 of us, our children and our grandchildren.

15 These wells are supposed to last or hold the brine  
16 forever, but the wells, the piping, the casing are  
17 manmade. They will not last forever.

18 The world heard about the water crisis in Flint.  
19 Now, that was a different type of water crisis, but  
20 still, there were -- Flint people were failed by  
21 government, by agencies. They thought their water was  
22 safe and it wasn't. Michigan does not need another  
23 water crisis. We can't. It's just not worth it.

24 And I'm kind of wondering too, why this whole  
25 hearing, we kind of heard about it by word of mouth,

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1           why wasn't this brought out more to the community? I  
2           don't know. And why the rush that we have to get our  
3           comments in so soon? I mean, the last I heard we were  
4           government for the people, by the people and of the  
5           people, and I think the people don't want this.

6           MR. JANN: Thank you. Terry Peden, Stephani  
7           Terpening, and Wayne Terpening.

8           MR. PEDEN: Hi, my name is Terry Peden. The last  
9           name is P-e-d-e-n. I got experience over ten years in  
10          the water treatment areas around the state and learned  
11          quite a bit. I've been up here for 25 years in this  
12          area and have always enjoyed it, but I have the  
13          experience of learning about wells in my personal life  
14          and also in public life. I found out a lot of things.

15          We have -- Dow Chemical is here because of salt  
16          water, that's exactly why they are here. Many, many  
17          years ago that's what they were after, and that's what  
18          made Dow Chemical.

19          Now, that's brine, okay. But there's other things  
20          that come up with brine. But my personal experience  
21          is, I've had to put down personal wells and things  
22          like, that had to change. I live in an area just north  
23          of Beaverton that has flowing wells, and those wells,  
24          when they drilled mine, it had a 12-foot head and was  
25          pouring over 60 gallons a minute into the lake,

1 beautiful pristine water. I asked the gentleman who  
2 was drilling the well, who had many years experience,  
3 he told me flat out, he says, we really don't know, he  
4 says, but the best we can figure out from all the well  
5 drillers around is that water is coming from Lake  
6 Superior. I said, really? Yeah, underground springs  
7 all the way here.

8 Now, we contaminate this mess and we spread it all  
9 over here, we're going to lose it all. We're going to  
10 lose it all.

11 So where's the liability? How are you going to  
12 replace my water, your water, and everybody in this  
13 room and all around? Where are you going to get water  
14 again? Yes, a lot of it has salt in it. It can be  
15 filtered out. But in my experience over these past  
16 years, I found nine wells in this county, things  
17 happen, naturally even, there was arsenic in them, like  
18 that.

19 Always get your water tested before you decide to  
20 drink it, when you get new property, because there were  
21 nine wells in this area with arsenic. Not a very good  
22 idea. These other things you see, the radon and things  
23 like that, most of that can be screened.

24 But this here, it's really bothering me that we're  
25 playing a game right now with our water, with somebody

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1 coming in here. There's no monetary gain for this  
2 community at all for having this in here, is there?  
3 Can't answer, can you? Okay. Why would we want it  
4 here? Why a few years ago we wanted to bury all our  
5 nuclear waste in the UP? Isn't that kind of a silly  
6 thing?

7 One thing I did was -- I was also with the Rural  
8 Water Association, and the one thing that I learned  
9 along the way, we are sitting on the most beautiful  
10 jewel in the entire world of fresh water. Name another  
11 place that has this much fresh water available. Now,  
12 we screw it up, it's going to be bad. There's going to  
13 be a big accident along the way. It's going to be a  
14 liability, because we will end up having to fight. And  
15 we're going to fight ourselves over it? No, you don't  
16 get to do it, not in my mind.

17 MR. JANN: You are past time.

18 MR. PEDEN: Thank you.

19 MR. JANN: Okay. Thank you. Stephanie Terpening,  
20 and our last speaker will be Wayne Terpening.

21 MS. TERPENING: Hello again. I'd like to thank  
22 the EPA for coming. I met you at a similar meeting in  
23 Clare that was not as well attended as this, because  
24 the EPA printed the wrong date and location for the  
25 public hearing when we tried to have one of these

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1           there. So I'm happy to say this in front of a crowd of  
2           witnesses.

3           First of all, I would like to ask the EPA here to  
4           deny this permit for very many reasons, but, number one  
5           reason, you have absolutely no way to ensure to all of  
6           us that you will keep this fracking site from leaking  
7           for a lot of reasons.

8           One, I understand that they have to -- the Jordan  
9           Development Company has to cap within, you know, every  
10          well within a quarter mile radius. However, when we  
11          were fighting a similar injection site in Clare County  
12          recently I went with a group of people from the Clare/  
13          Gladwin Water Protectors to Central Michigan University  
14          to research oil wells in the area, and we found dozens  
15          of orphaned wells that were not capped properly, that  
16          were from before the legislation required them to be  
17          capped properly, that were not within a quarter mile,  
18          but they were close enough to scare us and close enough  
19          to be a potential leak.

20          I also feel like this is a huge, this is a very  
21          bad area to even consider for a toxic injection site,  
22          because Michigan is a floating skate. I mean, nowhere  
23          in Michigan is a good spot for one of these things. We  
24          already have too many of them here, but this is a  
25          floating state. Not only do we have lots of aquifers

1 here supplying us with fresh water, we have 70 percent  
2 of the world's fresh water source right here around us  
3 with the Great Lakes and underneath us, and these  
4 aren't just aquifers. They are rivers flowing  
5 underground, under the state, and we've had drowning  
6 victims like in Houghton Lake that get found in one of  
7 the Great Lakes because they were pulled through  
8 underground.

9 So there's absolutely, with all of this water flow  
10 under the ground surface, there is absolutely no  
11 guaranties that you can give us that there won't be a  
12 leak.

13 And I would like to also know, and I asked the EPA  
14 to let us know, if this injection well site has been  
15 inspected for leaks since Michigan's most recent  
16 earthquake in Kalamazoo.

17 It's also a very crucial time for us to maintain  
18 all of our fresh water supply sources, because right  
19 now Michigan is selling our fresh water to the highest  
20 bidder. So we need to keep our fresh water clean that  
21 we have already.

22 There's no reason for this site other than for  
23 this company to make profit. But, you know what, we  
24 profit more from drinking clean water, us as citizens,  
25 and I don't care what that company has to spend to



1 dispose of it somewhere else at a further distance  
2 away. I'm sure it's not that far and not that much  
3 money compared to the money that we all will have  
4 stolen from us if we have to pay for new wells here in  
5 the area. So our water is not for sale.

6 MR. JANN: Thank you. And our last speaker will  
7 be Wayne Terpening.

8 MR. TERPENING: Thank you. That's  
9 T-e-r-p-e-n-i-n-g. I'm a resident of Clare County and  
10 have been for the last nearly 40 years. And, you know,  
11 the water table and the lakes and the rivers, it's what  
12 really brought our family to this area of Michigan.

13 But above and beyond that, one of my best friends  
14 is a farmer out in Nebraska, and when we talk about  
15 Michigan or the Great Lakes area, he calls it water  
16 country, because they have very little water. Most of  
17 the western United States and southwestern United  
18 States are looking increasingly at ways of getting our  
19 water, and at some point I'm sure we will end up  
20 sharing it with them.

21 I know the DEQ and the EPA, their hands are  
22 largely tied by our legislature, and given the nature  
23 of partisan politics today, all I can say is good luck.  
24 But I think you need to take a leadership role in not  
25 only denying this permit on any basis that you can find

1 to do so, but also in the interest of state and  
2 national security, taking a leadership role in  
3 protecting the fresh water in the Great Lakes and in  
4 this area. Because, frankly, with contamination  
5 attacking the water supply all over the nation, and  
6 with the western half of our state, of our United  
7 States, having very little water, we're going to be the  
8 resource of the future. That water is going to be very  
9 valuable to us and very valuable to every American.

10 And I know politically it's going to be difficult,  
11 but the EPA and the DEQ have to go back to the  
12 legislature and try to take a leadership role and get  
13 control of our water system and our water supply.  
14 Thank you.

15 MR. JANN: Okay. Thank you. Let me ask if there  
16 is anyone who signed up to speak whose name I did not  
17 call? Okay. We are past time. Yes?

18 MS. SZERDI: Is there any way I can say one or two  
19 things?

20 MR. JANN: Yes, you may, and then we will  
21 conclude.

22 MS. SZERDI: Priscilla Szerdi, S-z-e-r-d-i. I  
23 want to make a couple of comments. Number one, this  
24 isn't fracking, and you guys are getting fracking  
25 confused with other things and you shouldn't, because

1           it's totally different.

2           We also need to realize that this is an old oil  
3 well, and Janette told us that the Dundee strata that  
4 it's going into is permeable, because that old oil  
5 well, in order to suck the oil out, it was a permeable  
6 formation. And when this is going in in the injection  
7 well, they are using that old oil well. They are  
8 casing the top part of it, but they are not casing the  
9 bottom. It's not going into a sealed area. It is  
10 going back into the Dundee formation, which is exactly  
11 what she said, which is a permeable formation. That  
12 oil of the brine with whatever it has in it is going to  
13 spread through that permeable formation.

14           We are a basin, okay. That permeable formation  
15 goes up on the edges of Michigan toward our Great  
16 Lakes. If we do not know how -- we know this 22,000  
17 barrels that are going in there, we don't know how many  
18 years this is going to happen. Is it 5 years? Is it  
19 10 years? Is it 15 years? Is it 20 years? Are we  
20 looking at 50 years of injection into this well?

21           As we do that, that is going to push everything in  
22 the brine through this permeable formation up to the  
23 edges of that formation and out into our Great Lakes.  
24 It's not going to stay in one spot. It's only cased  
25 near the top. It's all going through this permeable

1 formation at the bottom. We are a bowl of strata.  
2 That means it's going toward Lake Huron, going toward  
3 Lake Michigan, it's going up toward the north and down  
4 to the south.

5 So you have to remember that also. So it's not  
6 just us. It's the whole Great Lakes that are going to  
7 be affected by these injection wells, and we don't know  
8 how long it's going to be used.

9 My husband also just said somebody brought up old  
10 wells that weren't capped. When this goes down into  
11 that formation it's also going to be forced up those  
12 old wells that are open and not capped. So that can  
13 explode out of those old wells that are available to  
14 fountain out, just like the volcanoes in Hawaii,  
15 fountains of old brine and old oil coming out of old  
16 oil wells not capped, and we don't know how many of  
17 those oil wells there are.

18 You have to remember, Gladwin County was in the  
19 1930s one of the biggest oil production areas in the  
20 State of Michigan. So that's another thing to consider  
21 in this. How the old oil wells could possibly produce  
22 all this coming back out onto our surface and  
23 contaminating the surface area and our ground waters,  
24 because those old oil wells were probably not cased  
25 because of the time frame that they were done. Thank



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CERTIFICATION OF COURT REPORTER

STATE OF MICHIGAN )  
ACTING IN THE COUNTY OF GLADWIN )

I certify that this transcript, consisting of 61 pages, is a complete, true, and correct transcript of the proceedings and testimony taken in this case on June 19, 2018.

*Jane Rose Reporting*

KATHLEEN TULICK, CSR 4806

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Wexford County

My commission expires: 6/10/24

Completed date: June 26, 2018

**ORIGINAL**

