

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED
BY THE OIL CONSERVATION DIVISION FOR
THE PURPOSE OF CONSIDERING:

APPLICATION OF NGL WATER SOLUTIONS CASE NO. 20658
PERMIAN, LLC FOR APPROVAL OF A SALTWATER
DISPOSAL WELL IN LEA COUNTY, NEW MEXICO.

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

August 8, 2019

Santa Fe, New Mexico

BEFORE: LEONARD LOWE, CHIEF EXAMINER
 MICHAEL McMILLAN, TECHNICAL EXAMINER
 DANA Z. DAVID, LEGAL EXAMINER

This matter came on for hearing before the New Mexico Oil Conservation Division, Leonard Lowe, Chief Examiner; Michael McMillan, Technical Examiner; and Dana Z. David, Legal Examiner, on Thursday, August 8, 2019, at the New Mexico Energy, Minerals and Natural Resources Department, Wendell Chino Building, 1220 South St. Francis Drive, Porter Hall, Room 102, Santa Fe, New Mexico.

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APPEARANCES

FOR APPLICANT NGL WATER SOLUTIONS PERMIAN, LLC:

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1 (8:33 p.m.)

2 EXAMINER LOWE: Our first case for today
3 will be Case Number 20658, application for NGL Water
4 Solutions Permian, LLC for approval of a saltwater
5 disposal, Lea County, New Mexico.

6 Call for appearances.

7 MS. BENNETT: Good morning, Mr. Examiners.
8 My name is Deana Bennett, and I'm here on behalf of NGL
9 Water Solutions Permian, LLC, and I'm from Modrall,
10 Sperling.

11 EXAMINER McMILLAN: Any other appearances?

12 MS. BENNETT: No.

13 I'm handing out the exhibit packet to you
14 right now, and I have one witness, Mr. Neel Duncan.

15 NEEL L. DUNCAN,

16 after having been first duly sworn under oath, was
17 questioned and testified as follows:

18 MS. BENNETT: Good morning.

19 EXAMINER LOWE: Good morning.

20 MS. BENNETT: Thank you for being here.

21 DIRECT EXAMINATION

22 BY MS. BENNETT:

23 Q. Good morning, Mr. Duncan.

24 A. Good morning.

25 Q. Will you please state your name for the record?

1 A. Neel Lawrence Duncan.

2 Q. And for whom do you work?

3 A. Integrated Petroleum Technologies.

4 Q. And have you been retained as a consultant by
5 NGL?

6 A. I have.

7 Q. And what are your responsibilities for NGL?

8 A. Drilling and development of saltwater disposal
9 wells in southeastern New Mexico within Eddy and Lea
10 Counties.

11 Q. And so your responsibilities specifically
12 include management and oversight of drilling SWDs?

13 A. Yes.

14 Q. Have you previously testified before the
15 Division or the Commission?

16 A. I have.

17 Q. Were your credentials accepted as a matter of
18 record?

19 A. Yes, they were.

20 Q. And are you familiar with the application that
21 NGL filed in this matter?

22 A. I am.

23 Q. Are you familiar with the saltwater disposal
24 well which is the subject of this application?

25 A. Yes.

1 MS. BENNETT: At this time I'd like to
2 tender Mr. Duncan as an expert in operations and
3 engineering matters.

4 EXAMINER LOWE: He is so qualified.

5 MS. BENNETT: Thank you.

6 Q. (BY MS. BENNETT) Mr. Duncan, let's turn to the
7 exhibit packet that I prepared and that you have in
8 front of you. Let's turn to Tab 1. Is Tab 1 the
9 application that I filed on NGL's behalf for the Osprey
10 saltwater disposal well that NGL is seeking approval of?

11 A. Yes.

12 Q. And what does NGL seek approval of in terms of
13 the formation and the size of tubing and the maximum
14 injection rate?

15 A. Yes. We seek approval for a Devonian, air
16 quotes, injection well, injection below the Woodford
17 Shale. And in this application, we were looking for
18 installation of tubing of 7-inch-by-5-1/2-inch tapered
19 design. So the casing will be big enough to accommodate
20 an injection rate of 50,000 barrels per day.

21 Q. And NGL has previously requested the same
22 tubing size; is that right?

23 A. That's correct, and we have approval orders for
24 those.

25 Q. And just for Mr. David's sake, NGL has

1 submitted a number of applications to the Division; is
2 that correct?

3 A. That's correct.

4 Q. And you've testified at the hearings on all of
5 those applications?

6 A. Yes, I have.

7 Q. In fact, NGL met with the Division before going
8 to the first hearing with --

9 A. Yes, last year.

10 Q. With Mr. Goetze?

11 A. Yes.

12 Q. And when NGL met with Mr. Goetze and --
13 representatives of NGL met with Mr. Goetze, did NGL
14 provide examples of the exhibits that NGL intended to
15 present at hearings and get confirmation from Mr. Goetze
16 that those were the types of exhibits he intended to
17 see.

18 A. Yes, we did.

19 Q. And did NGL discuss using specific experts with
20 Mr. Goetze?

21 A. Yes.

22 Q. And were those experts Mr. Scott Wilson?

23 A. Scott Wilson was one of them.

24 Q. Yeah. And Dr. Kate Zeigler?

25 A. Dr. Zeigler for the geology --

1 Q. And Dr. Steven Taylor?

2 A. -- and Dr. Steve Taylor in geophysics.

3 Q. What's the benefit -- I think at this point,
4 these larger Devonian wells -- these high-volume, deep
5 Devonian wells are all asking for this larger tubing
6 size, is that right? All operators are?

7 A. Yes, they are.

8 Q. What's the benefit of the larger tubing size?

9 A. The benefit is lower friction and reduced
10 horsepower requirements, therefore, less energy to put
11 the water into the ground.

12 Q. And with less energy and higher volume, does
13 that mean fewer wells that are needed?

14 A. Yes. It's about a third fewer wells required.

15 Q. And so Exhibit 1 contains the application that
16 I filed, plus the C-108 that is required for saltwater
17 disposal well applications?

18 A. Yes.

19 Q. And the C-108 was prepared by Chris Weyand, a
20 consultant that NGL uses?

21 A. Yes, under my direction.

22 Q. And the C-108 that we've included looks
23 complete and accurate in your estimation and according
24 to what Mr. Weyand has previously submitted?

25 A. Yes, it does.

1 Q. Let's turn to Tab 2. A moment ago we talked
2 about Mr. Wilson. Is Mr. Wilson a reservoir engineer
3 that NGL retained?

4 A. Yes. He's a senior reservoir engineer, vice
5 president of Ryder Scott, and he's been retained by NGL,
6 and his qualifications have been accepted by the
7 Division.

8 Q. And he has previously -- yes. He has
9 previously testified before the Division?

10 A. Yes.

11 Q. A number of times, right?

12 A. Yes.

13 Q. And he's testified on behalf of NGL?

14 A. Yes.

15 Q. And has he provided -- for this case, for
16 Osprey, has he provided an affidavit, which is included
17 in Exhibit 2, as well as a copy of his reservoir
18 engineering study that he prepared for this well?

19 A. Yes.

20 Q. Is that the same type of materials that
21 Mr. Wilson or that NGL presented to Mr. Goetze when NGL
22 met with Mr. Goetze a year or so ago?

23 A. Yes. And it's the same type of material that
24 we've submitted to get previous orders approved.

25 Q. And in this affidavit, does Mr. Wilson confirm

1 that an increase in the tubing size for this well will
2 reduce friction in the wellbore?

3 A. Yes, he does.

4 Q. Does he also confirm that using increased
5 tubing sizes will only have a very small impact on pore
6 pressures in the formation?

7 A. Yes. That is correct.

8 Q. And is it his opinion that increasing the
9 tubing size will not cause fractures in the formation?

10 A. Yes.

11 Q. Does he also conduct a study looking -- or a
12 study that models migration of fluids that are injected
13 into this well?

14 A. Yes. And he's determined that the fluids
15 injected over a 20-year period will stay nominally
16 within one mile of the well.

17 Q. And all of that information is contained in his
18 study?

19 A. That's correct.

20 Q. And his study is found on pages 30 through 47?

21 A. Yes.

22 Q. And when he models the wells, he uses -- he
23 doesn't just model the proposed well, right? He uses
24 wells that he knows of in the area that are both
25 proposed and active?

1 A. Yes, the surrounding wells in the pending
2 application.

3 Q. And so his study is a broad study. It's not
4 just limited to this particular well?

5 A. Yes. It's broad.

6 Q. Let's turn to Tab 3 now. A moment ago we
7 talked about how NGL has retained a geologist, Dr. Kate
8 Zeigler. And has Dr. Zeigler testified before the
9 Division before?

10 A. Yes, she has, for NGL, and her qualifications
11 have been accepted.

12 Q. And here is there a copy of Dr. Zeigler's
13 affidavit?

14 A. Yes, behind Tab 3.

15 Q. And also behind Tab 3, is there a copy of Dr.
16 Zeigler's study that she prepared for this well?

17 A. Yes.

18 Q. And does that study include a Broadhead chart
19 on page 53?

20 A. Yes.

21 Q. And then isopach on pages 54 through 58?

22 A. Yes.

23 Q. And then does it also contain a cross section
24 on page 59?

25 A. Yes, it does.

1 Q. And is this the same type of material that NGL
2 presented to Mr. Goetze about a year or so ago?

3 A. Yes. It's geological evidence to show that the
4 injected fluids are contained within the strata that we
5 intend to inject in.

6 Q. And so in her affidavit, does Dr. Zeigler talk
7 about the injection zone?

8 A. Yes, she does.

9 Q. And does she conclude that it's a good zone
10 because of its permeability and porosity for injection?

11 A. Yes.

12 Q. And does she talk about upper and lower
13 permeability barriers?

14 A. Yes.

15 Q. And does she conclude that based on the geology
16 of the upper permeability barrier, that it will act as a
17 reasonably good permeability barrier?

18 A. Yes.

19 Q. And does she reach the same conclusion for the
20 lower permeability barrier?

21 A. Yes. Yeah. They're both confining layers.

22 Q. Does she conclude that there will be very
23 little, if any, impacts on freshwater resources?

24 A. That's correct.

25 Q. Does she reach any conclusion about impacts on

1 **correlative rights?**

2 A. They will not impact correlative rights.

3 **Q. And is that because there aren't any**
4 **hydrocarbons or very few hydrocarbons, in her opinion,**
5 **in the injection zone?**

6 A. That's correct.

7 **Q. And is that also because of the permeability**
8 **barrier?**

9 A. Above and below, yes.

10 **Q. Let's turn to Exhibit 4. A moment ago we**
11 **talked about Dr. Steven Taylor who is a seismologist; is**
12 **that right?**

13 A. Yes, he is.

14 **Q. And has he been retained by NGL?**

15 A. He has, and his qualifications have been
16 accepted by the Division.

17 **Q. And he has previously testified on NGL's**
18 **behalf?**

19 A. Yes.

20 **Q. Does Dr. Steven Taylor operate a series of**
21 **seismic monitoring stations in and around NGL's wells?**

22 A. Yes, he does. In fact, he operates the
23 stations in Colorado, New Mexico and Texas.

24 **Q. And so he has -- he, in fact, has monitoring**
25 **stations right at NGL's -- some of NGL's existing wells?**

1 A. Yes.

2 Q. And is his affidavit included as Exhibit 4?

3 A. Yes.

4 Q. And behind Exhibit 4 on pages 63 to 67, are
5 those the pages that encompass Dr. Taylor's study?

6 A. Well, yes, it's included in his study.

7 Q. And does Dr. Taylor look at both his own
8 seismic monitoring data, as well as USGS monitoring
9 data?

10 A. Yes, he does.

11 Q. And did he conclude that there is very little
12 seismic activity in this area?

13 A. Yes.

14 Q. And that's based on his own observations of his
15 seismic monitoring?

16 A. His own observations on the sites that he
17 monitors for NGL plus the public data.

18 Q. Also included with Dr. Taylor's affidavit and
19 study is a study prepared by Todd Reynolds of FTI Platt
20 Sparks; is that right?

21 A. Yes. That's correct.

22 Q. And what is Mr. Reynold's study?

23 A. Todd's -- Mr. Reynold's study, he uses the
24 Stanford Zoback model to model fault slip potential in
25 known faults.

1 Q. And Mr. Reynolds has testified before the
2 Division before, right?

3 A. Yes, he has.

4 Q. And his credentials were accepted as a matter
5 of record?

6 A. Yes, they were.

7 Q. And Mr. Reynolds has testified about the
8 Stanford fault slip probability analysis tool that he
9 uses?

10 A. Yes.

11 Q. And do you know if the Division has approved of
12 his use of the fault slip probability analysis tool?

13 A. Yes.

14 Q. And is his fault slip probability analysis
15 contained on pages 60 to 83?

16 A. Yes. Rather, it starts --

17 Q. Sorry. At 68.

18 A. Exhibit 4B.

19 Q. Yeah. 68 to 83?

20 A. Uh-huh.

21 Q. And his -- the first few pages of his report
22 outline the inputs that he uses, right?

23 A. Yes, they do.

24 Q. And then the next few pages, starting on page
25 72, that actually begins his fault slip probability

1 analysis?

2 A. Yes.

3 Q. And he includes any faults that are nearby --

4 A. Yes.

5 Q. -- in relative terms?

6 A. Yes.

7 Q. And he also models not just the potential for
8 fault caused by this particular well but other wells in
9 the area?

10 A. Yes.

11 Q. And did Mr. Taylor -- I'm sorry. Did
12 Mr. Reynolds find that there is very little risk of
13 induced seismicity?

14 A. Yes. It takes a real high pore pressure to
15 move these faults. And the pore pressure would have to
16 be more than 8,000 psi, and our maximum impact over 20
17 years is less than 1,000.

18 Q. And that's shown on -- his conclusions over
19 time are on page 82, right? That's at year 2045?

20 A. Yes. Yes.

21 Q. And in the green -- sort of the highlighted
22 with green on the right-hand side of the page, it shows
23 fault slip for all of the faults he's identified at
24 zero, right?

25 A. Yes.

1 Q. So even at 2045, he calculates, using this
2 tool, that there will be zero percent of fault slip
3 probability?

4 A. Yes. This is a very safe area for injection.

5 Q. And is this the same type of study and
6 information that NGL presented to Mr. Goetze a year or
7 so ago?

8 A. Yes.

9 Q. Let's turn to Exhibit 5. And Exhibit 5 is an
10 affidavit prepared by me discussing the notice of this
11 hearing?

12 A. Yes.

13 Q. On page 85, is that a list of names and
14 addresses of folks to whom notice was provided?

15 A. Yes, it is.

16 Q. On page 87, is that a transaction report detail
17 that shows whether those same entities or individuals
18 actually received notice?

19 A. Yes.

20 Q. Is page 88 an Affidavit of Publication showing
21 that notice of this hearing was provided in the "Hobbs
22 News-Sun" --

23 A. Yes.

24 Q. -- on July 19th, 2019?

25 A. Yes. Yes. And it includes a legible copy of

1 the application.

2 Q. Were Exhibits 1 through 5 created by you,
3 prepared under your supervision or direction or compiled
4 from company business records?

5 A. Yes.

6 Q. In your opinion, does the granting of this
7 application promote the prevention of waste and the
8 promotion of correlative rights?

9 A. Yes, it does.

10 MS. BENNETT: At this time I would like to
11 move that the exhibits behind Tabs 1 through 5 be
12 admitted into the record in Case Number 20658.

13 EXAMINER LOWE: All exhibits pertaining to
14 this case will be admitted to the hearing.

15 MS. BENNETT: Thanks.

16 (NGL Water Solutions Permian, LLC Exhibit
17 Numbers 1 through 5 are offered and
18 admitted into evidence.)

19 MS. BENNETT: At this time I have no
20 further questions for Mr. Duncan.

21 EXAMINER LOWE: Do you have any questions,
22 sir?

23 EXAMINER DAVID: No. I don't have any
24 questions.

25

1 CROSS-EXAMINATION

2 BY EXAMINER McMILLAN:

3 Q. I just want to be clear. In Kate Zeigler's
4 work, where does she say -- where does it say there is
5 no connection between the injection zone and underground
6 sources of drinking water? I just want to make sure
7 it's clear for the record. That's all I'm doing.

8 A. Okay. Yeah. By -- with her statement, it's
9 confined to the --

10 Q. It's in there?

11 A. -- to the Woodford Shale. Yeah. It's in --

12 MS. BENNETT: And if I can just clarify,
13 it's in paragraph 11 of her affidavit.

14 EXAMINER McMILLAN: Perfect.

15 Q. (BY EXAMINER McMILLAN) I assume Dr. Taylor
16 updated -- it's the same basic information, and he
17 updated it for this one, right?

18 A. Yes. Yes.

19 Q. Okay. I'm trying to get that all clear for the
20 record.

21 A. Yes.

22 MS. BENNETT: Yes. And if I can just point
23 out, on page 64, Dr. Taylor has included more recent
24 activity, including an event that happened on June 8th,
25 2019 and an event that he recorded July 17th, 2019. So

1 he does update his report with new events as they occur,
2 and so that's on page 64, the last two events. So that
3 does evidence the fact that he does update his report in
4 advance of preparing these exhibits.

5 EXAMINER McMILLAN: Okay. That's --

6 EXAMINER DAVID: On second thought, I do
7 have a couple of questions. Are you finished?

8 EXAMINER McMILLAN: I'm finished.

9 EXAMINER DAVID: Okay. Counsel, just for
10 the record, looking at Exhibit 1, in the application
11 document, I notice it was signed by Christopher Weyand.
12 So what's Mr. Weyand's capacity to bind [sic] the
13 Applicant?

14 MS. BENNETT: He's a consultant retained by
15 the Applicant, and he has submitted -- he has prepared
16 all of the C-108s on behalf of NGL that have been
17 submitted to date.

18 EXAMINER DAVID: And so Mr. Weyand has a
19 contract that allows him to make statements on behalf of
20 the Applicant?

21 MS. BENNETT: I'm not entirely familiar
22 with his contract with NGL, but what I would say is that
23 this is a normal practice, to hire a consultant to
24 prepare the C-108s. And, in fact, a number of SWD
25 operators hire consultants, including Mr. Weyand's firm.

1 But I haven't personally seen what his contract is with
2 Solaris -- I'm sorry -- NGL. I'm sorry. Their firm is
3 also employed by Solaris, which is why I made that slip
4 of the tongue.

5 EXAMINER DAVID: That's quite all right,
6 Counsel.

7 I notice some of the notices were returned
8 or undelivered. Was there any follow-up made to
9 determine where the person would be located?

10 MS. BENNETT: No, sir. We do not do any
11 follow-up, but we publish as a matter of course to
12 ensure that any undelivered or returned letters, that
13 there is publication notice, constructive notice, at
14 least for those folks. So those folks are all
15 identified in the publication notice.

16 EXAMINER DAVID: So in your legal opinion,
17 the failure of delivery is not -- is not fatal to the
18 notice requirement?

19 MS. BENNETT: No, it's not. Under the
20 regulations -- the adjudication regulations, we have the
21 opportunity to publish if notice fails. If actual
22 notice fails, we can publish to cure any defects in
23 actual notice, and we do that as a matter of course.

24 EXAMINER DAVID: Thank you, Counsel. I'm
25 finished.

CROSS-EXAMINATION

1

2 BY EXAMINER LOWE:

3 Q. I've got a question. You indicated -- or you
4 stated the larger the tubing is, there will be less
5 friction?

6 A. Yes.

7 Q. Do you have a number behind that, like an
8 example number, like a coefficient of friction?

9 A. Yes. In fact, it's been established in
10 previous cases. You know, you can be up to 85 -- 85
11 percent of your surface-injection pressure can be
12 friction. So yeah, it's -- with the 7-inch tubing going
13 down to basically the top of the Wolfcamp, there is also
14 no friction in that, and then there is friction in the
15 5-1/2 that's below that.

16 Q. Okay. And the tubing -- and then I just want
17 to clarify from my end. You stated that you what you --
18 what you have operated as is less than 1,000 psi, is
19 that correct, and then what you think is catastrophic is
20 greater than --

21 A. Oh, okay. That is part of the fault slip --

22 Q. Okay.

23 A. -- that you're referring to. And so the pore
24 pressure increase at the faults would be less than 1,000
25 psi, and it would take 8,000 psi to split those faults

1 because of their orientation.

2 Q. Okay.

3 A. But yeah, that's -- that and surface-injection
4 pressure are different things.

5 Q. Okay. All right. Thank you.

6 MS. BENNETT: May I ask a follow-up
7 question?

8 EXAMINER LOWE: Sure.

9 REDIRECT EXAMINATION

10 BY MS. BENNETT:

11 Q. Mr. Duncan, if you look at Exhibit 1, page 1,
12 in paragraph four, does that identify the surface
13 pressure or the average pressure that NGL intends to use
14 for this well?

15 A. Yes, it does. That's -- that's initial
16 assignment based on the .2 psi per foot that is allowed
17 under the regulation.

18 Q. And so it's the .2 psi times the depth of the
19 proposed depth of the well?

20 A. The anticipated depth, yes.

21 Q. To give you the proposed psi?

22 A. Yes. If that depth changes -- if we find it
23 deeper, that pressure will go up a little. If we come
24 in shallower, it goes up slightly.

25 Q. And just to confirm that, this depth -- or this

1 psi in paragraph four is different than the fault slip
2 probability?

3 A. Yes. It's surface-injection pressure versus
4 pore pressure.

5 Q. Great. Thank you.

6 RE CROSS EXAMINATION

7 BY EXAMINER LOWE:

8 Q. And that average pressure that's stated here is
9 like surface and downhole pressure? Is that what you
10 mean by average?

11 A. No. That's over time.

12 Q. Over time.

13 A. Yeah.

14 REDIRECT EXAMINATION

15 BY MS. BENNETT:

16 Q. But it's the injection pressure?

17 A. Yes. Yeah. This -- actually, the 3,622 [sic]
18 is the .2 psi per foot.

19 Q. Okay.

20 A. Yeah. And then the 27,017 [sic] is what we'll
21 probably see initially. But those pressures will go up.
22 Rates will go down over time.

23 Q. Okay.

24 MS. BENNETT: If there are no further
25 questions, I would ask that Case Number 20658 be taken

1 under advisement.

2 EXAMINER LOWE: Case Number 20658 will be
3 taken under advisement.

4 MS. BENNETT: Thank you very much.

5 (Case Number 20658 concludes, 8:56 a.m.)

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1 STATE OF NEW MEXICO
2 COUNTY OF BERNALILLO

3

4 CERTIFICATE OF COURT REPORTER

5 I, MARY C. HANKINS, Certified Court
6 Reporter, New Mexico Certified Court Reporter No. 20,
7 and Registered Professional Reporter, do hereby certify
8 that I reported the foregoing proceedings in
9 stenographic shorthand and that the foregoing pages are
10 a true and correct transcript of those proceedings that
11 were reduced to printed form by me to the best of my
12 ability.

13 I FURTHER CERTIFY that the Reporter's
14 Record of the proceedings truly and accurately reflects
15 the exhibits, if any, offered by the respective parties.

16 I FURTHER CERTIFY that I am neither
17 employed by nor related to any of the parties or
18 attorneys in this case and that I have no interest in
19 the final disposition of this case.

20 DATED THIS 19th day of August 2019.

21

22

23 MARY C. HANKINS, CCR, RPR
24 Certified Court Reporter
New Mexico CCR No. 20
Date of CCR Expiration: 12/31/2019
Paul Baca Professional Court Reporters

25