

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 NOVO OIL & GAS NORTHERN CASE NO. 16284  
DELAWARE, LLC FOR COMPULSORY POOLING,  
EDDY COUNTY, NEW MEXICO.

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

February 21, 2019

Santa Fe, New Mexico

BEFORE: MICHAEL McMILLAN, CHIEF EXAMINER  
TERRY WARNELL, TECHNICAL EXAMINER  
DAVID K. BROOKS, LEGAL EXAMINER

This matter came on for hearing before the New Mexico Oil Conservation Division, Michael McMillan, Chief Examiner, Terry Warnell, Technical Examiner, and David K. Brooks, Legal Examiner, on Thursday, February 21, 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 NOVO OIL & GAS NORTHERN DELAWARE, LLC:

CANDACE H. CALLAHAN, ESQ.  
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1 (2:43 p.m.)

2 MS. CALLAHAN: So moving to Case 16284,  
3 this case has not been heard before. The application  
4 has, however, been amended, and it was amended in  
5 conjunction with an agreement that was reached between  
6 Novo and BTA Oil Producers.

7 So in this case, we have affidavits for the  
8 same three experts as we had for 16282 and 16283.

9 EXAMINER McMILLAN: Are there any other  
10 appearances?

11 MR. BRUCE: Once again, I'm entering an  
12 appearance for TDY Industries, LLC, and I have no  
13 witnesses, no objection.

14 MS. CALLAHAN: So this case is in the same  
15 Rana Salada development group and is proposed to create  
16 a 160.36-acre spacing unit for the Rana Salada Fed Com  
17 05 124H well. They propose to drill in the Cedar  
18 Canyon; Bone Spring, pool code 11520. They seek to pool  
19 all uncommitted mineral interests. And this well is  
20 proposed to develop the 2nd Bone Spring Sand interval.  
21 And the spacing unit is essentially the east half-east  
22 half of Section 5. There is a lot. The  
23 northeast-northeast is Lot 1, which is why the acreage  
24 is not exactly 160.

25 In Mr. Patrick's affidavit, he states that

1 the completed interval for the well will be orthodox,  
2 and there are no depth severances in the Bone Spring  
3 Formation underlying this proposed spacing unit.

4                   However -- and this is where Mr. Brooks  
5 will probably be interested to hear -- we are asking for  
6 a pooling of only the 2nd Bone Spring Sand interval  
7 because as we saw in Cases 16282 and 16283, those two  
8 wells are proposed to develop the 3rd Bone Spring. So  
9 it might be easiest to kind of understand what we're  
10 looking at if we look at Exhibit Number 3 to  
11 Mr. Patrick's affidavit, and it reflects how these  
12 proposed spacing units intersect one another. The well  
13 in the 16284 case is a stand-up in the east half-east  
14 half of 5, and then you'll see that the other two wells  
15 are lay-downs that will intersect the proposed spacing  
16 unit in the 16284 case.

17                   EXAMINER BROOKS: And those that intersect  
18 are 3rd Bone Spring?

19                   MS. CALLAHAN: Well, the first two cases  
20 are going to develop the 3rd Bone Spring because of the  
21 depth severance.

22                   EXAMINER BROOKS: Okay.

23                   MS. CALLAHAN: So this case is going to  
24 develop the 2nd Bone Spring.

25                   EXAMINER BROOKS: Okay. So this case is

1     going one direction and the others are going the other  
2     direction, but they're not going to tap the same -- the  
3     same zone?

4                   MS. CALLAHAN:   They're not going to tap the  
5     same bench of the Bone Spring, which is why we're asking  
6     to limit the pooled area to just the 2nd Bone Spring  
7     Sand interval.

8                   EXAMINER BROOKS:   Okay.   And the geologist  
9     testified that there is a recognized frac barrier on  
10    both the top and already established pretty well with  
11    several geologists a recognized frac barrier between the  
12    2nd and the 3rd.   I haven't heard as much testimony  
13    about the 1st and the 2nd.

14                  MS. CALLAHAN:   And we're getting ready to  
15    do that.

16                  EXAMINER BROOKS:   Okay.   Good.

17                  MS. CALLAHAN:   I just wanted to point this  
18    out, so maybe once we have kind of an overview, the rest  
19    of it will make sense.

20                  EXAMINER BROOKS:   Okay.   Very good.

21                  MS. CALLAHAN:   So Exhibit 1 to  
22    Mr. Patrick's affidavit is a C-102 for the proposed  
23    well, 124H.

24                  EXAMINER BROOKS:   Mr. Patrick is what?

25                  MS. CALLAHAN:   He's the landman.

1 EXAMINER BROOKS: Okay. That's what I  
2 assumed since --

3 MS. CALLAHAN: Yes. And he has previously  
4 qualified.

5 EXAMINER McMILLAN: No objections?

6 MR. BRUCE: No objection.

7 EXAMINER McMILLAN: Proceed.

8 MS. CALLAHAN: Thank you.

9 Exhibit 2 is the proposal letter that Novo  
10 sent out of the amended application. That was sent out  
11 December 13th, and it included a copy of the proposed  
12 AFE.

13 And Exhibit 3 is the execution plan that we  
14 looked at earlier.

15 And Exhibit 4 -- let's see. Exhibit 4 is  
16 our description of the depth severance for the proposed  
17 spacing unit for this case.

18 And Exhibit 5 is the plat outlining the  
19 proposed horizontal unit and giving us the mineral  
20 ownership by tract and cumulative unit interest.

21 6 identifies the parties to be pooled.  
22 Marathon Oil Permian, LLC is the only working interest  
23 owner to be pooled. The remainder are either overriding  
24 royalty interest owners or royalty interest owners, TDY  
25 Industries and BTA Oil Producers.

1                   Exhibit Number 7 is my Affidavit of Notice.

2                   And Exhibit 8 is a summary of the status of  
3   the return of the return receipts. And, again, Destiny  
4   Management, Inc. was the only overriding royalty  
5   interest owner who we did not receive a return-receipt  
6   card for, and so we published notice again. And that is  
7   found at Exhibit 8.

8                   I think I misspoke. My affidavit is  
9   Exhibit 7 and the summary of the status of the return  
10   receipts is Exhibit 7B. The Affidavit of Publication is  
11   Exhibit 8.

12                  Then if we -- let's see -- look at the  
13   affidavit of Mr. Michael Hale, the geologist for Novo.

14                  EXAMINER McMILLAN: Let's get the landman  
15   exhibits as part of the record.

16                  MS. CALLAHAN: Okay. He's previously  
17   testified, and his credentials were accepted as an  
18   expert in petroleum land matters. I offer him again as  
19   an expert.

20                  EXAMINER McMILLAN: Now the exhibits.

21                  MS. CALLAHAN: Oh, you want me to enter the  
22   exhibits?

23                  EXAMINER McMILLAN: Yes.

24                  MS. CALLAHAN: Okay. I'd like to enter the  
25   affidavit and Exhibits 1 through 8 into the record.

1 MR. BRUCE: No objection.

2 EXAMINER McMILLAN: Exhibits 1 through 8  
3 may now be accepted as part of the record.

4 (Novo Oil & Gas Northern Delaware, LLC  
5 Exhibit Numbers 1 through 8 are offered and  
6 admitted into evidence.)

7 EXAMINER McMILLAN: Okay. My question is  
8 the notice question. Did you notify everyone in the  
9 mineral estate within the Bone Spring -- within the  
10 entire Bone Spring within the horizontal spacing unit?

11 MS. CALLAHAN: Yes, we did. But as you'll  
12 see -- I guess I should have pointed out -- the  
13 ownership is uniform in the stand-up east half-east half  
14 spacing unit.

15 EXAMINER BROOKS: Then there is not a depth  
16 severance?

17 MS. CALLAHAN: No. There is no depth  
18 severance. We're just asking that the order pool only  
19 the 2nd Bone Spring.

20 EXAMINER BROOKS: Oh. So you're asking us  
21 to create a depth severance --

22 MS. CALLAHAN: Correct.

23 EXAMINER BROOKS: -- where there is not one  
24 in the title.

25 MS. CALLAHAN: Correct.



1 EXAMINER BROOKS: Okay. So that's a novel  
2 concept. We'll have to get Mr. Wade's approval to do  
3 that.

4 MS. CALLAHAN: Well, the reason for that is  
5 because the other two wells are producing -- are going  
6 to --

7 EXAMINER BROOKS: Yeah, I understand the  
8 rules, and they sound good to me. But, you know, it's  
9 not clear if it's within the purview of the existing  
10 cases. But we do --

11 MS. CALLAHAN: It's a new age.

12 EXAMINER McMILLAN: Hold on. So let me  
13 make sure I understand. You're requesting the OCD to  
14 make a depth severance whereas of right now, as we  
15 speak, there is no depth severance?

16 MS. CALLAHAN: Correct.

17 EXAMINER McMILLAN: At the time of the  
18 order, you are requesting a depth severance?

19 EXAMINER BROOKS: Right.

20 MS. CALLAHAN: Correct.

21 EXAMINER McMILLAN: I'm trying to make sure  
22 I got that clear.

23 MS. CALLAHAN: Yes. Yes.

24 EXAMINER BROOKS: And in the east half-east  
25 half of Section -- I'm sorry --

1 MS. CALLAHAN: 5.

2 EXAMINER BROOKS: -- 5, there is no depth  
3 severance in the title throughout the Bone Spring?

4 MS. CALLAHAN: Correct.

5 EXAMINER BROOKS: Now, is COG the other  
6 mineral owner in this, or is there somebody else?

7 MS. CALLAHAN: No. It's just Marathon.

8 EXAMINER BROOKS: Marathon is the only one.  
9 But there is only one?

10 MS. CALLAHAN: There is only one other  
11 working interest besides Novo.

12 EXAMINER BROOKS: There are overrides,  
13 though?

14 MS. CALLAHAN: There are overrides. Yes.

15 EXAMINER BROOKS: Okay. I'm getting it  
16 straightened out. But there are no depth severances.  
17 All the overrides are throughout the east half-east  
18 half --

19 MS. CALLAHAN: Correct.

20 EXAMINER BROOKS: -- throughout the Bone  
21 Spring?

22 MS. CALLAHAN: Correct.

23 EXAMINER McMILLAN: Okay. I had to figure  
24 it out in my head. Okay. Now I've figured it out.

25 MS. CALLAHAN: It took me a while to sort

1 it through myself.

2 EXAMINER BROOKS: I thought you were  
3 holding your hand up.

4 EXAMINER McMILLAN: I was trying to figure  
5 out because the south half is the 3rd Bone Spring and  
6 the east -- or the east half of the southeast quarter is  
7 the 3rd Bone Spring, and you want -- and the east  
8 half-east half, this well, is only the 2nd Bone Spring,  
9 right?

10 MS. CALLAHAN: Yes. The east half-east  
11 half of 5 is only the 2nd Bone Spring, correct.

12 EXAMINER McMILLAN: Yes. Okay. Thanks.

13 EXAMINER BROOKS: A little bit complicated,  
14 but I think you've gotten it across.

15 MS. CALLAHAN: Oh, I hope so. Okay.  
16 Thanks.

17 EXAMINER McMILLAN: Jim, do you have any  
18 questions?

19 MR. BRUCE: No.

20 EXAMINER McMILLAN: Okay. Proceed.

21 MS. CALLAHAN: So now I'd like to look at  
22 Mr. Hale's affidavit who is Novo's geologist. And,  
23 again, I offer him as an expert based on his credentials  
24 as set forth in the affidavit. Would you like me to  
25 read through them or --

1 EXAMINER McMILLAN: Well, I mean, he was in  
2 the previous case, so he's an expert witness.

3 MS. CALLAHAN: No. Mr. Hale, to my  
4 knowledge, has not testified before the Division.

5 EXAMINER McMILLAN: Okay. Yeah. You need  
6 to go through his --

7 MS. CALLAHAN: Would you like me to recap?

8 EXAMINER McMILLAN: Yes.

9 MS. CALLAHAN: So he has a Bachelor of  
10 Science in Geology and a Master's of Science in Geology  
11 from East Carolina University. He obtained those in  
12 2004 and 2008.

13 While in graduate school, he worked on a  
14 petroleum research fund grant with senior scientists  
15 from the National Museum of Natural Histories,  
16 Smithsonian institution in Washington, D.C. He worked  
17 as a geologist in the oil and gas industry -- he has  
18 been working as a geologist in the oil and gas industry  
19 for over 11 years.

20 Beginning in 2008, he began working for  
21 Fronterra Geosciences doing primarily resistivity  
22 formation image evaluation. And after that, he worked  
23 as a geologist for SandRidge Energy performing both  
24 operational and exploration duties in both the Permian  
25 Basin and the Anadarko Basin. And then before coming to

1 Novo, he was geological advisor for Ascent Resources  
2 overseeing all work in the Appalachian Basin with a  
3 primary focus in Ohio's Utica shale play.

4 Although he's never testified before this  
5 Division, while with Ascent Resources, he testified as  
6 an expert witness as part of about ten unitization  
7 hearings before the Ohio Department of Natural  
8 Resources.

9 His professional associations are the  
10 American Association of Petroleum Geologists, the West  
11 Texas Geological Society, the Oklahoma City Geological  
12 Society and the Young Professionals in Energy.

13 He's familiar with the application filed by  
14 Novo in this case and in Cases 16282 and 16283, and he  
15 has conducted a geologic study of the Bone Spring  
16 Formation underlying Sections 4 and 5.

17 With that, I tender him as an expert  
18 petroleum geologist.

19 EXAMINER McMILLAN: Jim?

20 MR. BRUCE: No objection.

21 EXAMINER McMILLAN: He is so qualified.

22 Hey, I'm experiencing a low-energy period.  
23 We're taking ten minutes.

24 (Laughter.)

25 (Recess, 2:58 p.m. to 3:12 p.m.)

1                   EXAMINER McMILLAN:  Let's call the hearing  
2 back to order.

3                   Proceed.

4                   MS. CALLAHAN:  So I think we left off that  
5 I had asked that Mr. Hale be accepted as an expert in  
6 petroleum geology.  I'm not sure what the status of that  
7 is.

8                   MR. BRUCE:  I have no objection.

9                   EXAMINER McMILLAN:  So qualified.

10                  MS. CALLAHAN:  Thank you.

11                  So I'd like to go now to the five exhibits  
12 that Mr. Hale has submitted.  Exhibit Number 9 is again  
13 the Bone Spring execution plan.

14                  Exhibit Number 10 is a subsea structure map  
15 for the top of the 2nd Bone Spring.

16                  Let's see.  11 is the gross isopach map for  
17 the 2nd Bone Spring.

18                  And 12 is the stratigraphic cross section  
19 of the 2nd Bone Spring, and this cross section  
20 identifies the target interval.

21                  Exhibit Number 13 is the Rana Salada  
22 development block type log, frac barriers and target  
23 interval based on the Carthel Federal Number 2.  It  
24 illustrates the low porosity limestone barriers between  
25 the 2nd and 3rd Bone Spring intervals.  And the target

1 zone and target depth are also identified.

2 Mr. Hale concludes from his study of the  
3 Bone Spring that the proposed location of the wellbore  
4 for the 124H well is such that the 2nd Bone Spring Lime  
5 barrier will effectively prevent communication between  
6 the 1st and 2nd Bone Spring intervals, and the fracs for  
7 the well will not extend into the 1st Bone Spring  
8 interval.

9 The proposed location of the wellbore for  
10 the 124H well is such that the 2nd Bone Spring Lime  
11 barrier will effectively prevent communication between  
12 the 2nd and the 3rd Bone Spring intervals, and the fracs  
13 for the well will not extend into the 3rd Bone Spring  
14 interval.

15 He also concludes there is no preferential  
16 stress direction underlying the Rana Salada development  
17 area and both north-south, east-west development is  
18 acceptable.

19 He also concludes the Bone Spring Formation  
20 underlying the proposed unit is suitable for horizontal  
21 development and that each quarter-quarter section will  
22 contribute more or less equally to production from the  
23 proposed well. He finds that the granting of Novo's  
24 application will be in the interest of conservation and  
25 the prevention of waste.

1                   Let's see. I'd like to go now to the  
2   affidavit of Mr. Kurt Shipley, who is Novo's engineer.

3                   EXAMINER McMILLAN: Let's do the --

4                   MS. CALLAHAN: Oh, would you like me to  
5   submit the exhibits?

6                   EXAMINER McMILLAN: Yeah. Do the  
7   geologist. I like to do the geology before the  
8   engineer.

9                   MS. CALLAHAN: At this point I would offer  
10   the affidavit of Mr. Michael Hale together with his  
11   Exhibits 9 through 13 into the record.

12                  EXAMINER McMILLAN: Jim?

13                  MR. BRUCE: No objection.

14                  EXAMINER McMILLAN: Exhibits 9 through 13  
15   may now be accepted as part of the record.

16                  (Novo Oil & Gas Northern Delaware, LLC  
17   Exhibit Numbers 9 through 13 are offered  
18   and admitted into evidence.)

19                  MS. CALLAHAN: Thank you.

20                  If we look at the affidavit of Kurt  
21   Shipley -- I don't believe he has had his credentials  
22   accepted before the Division, so I'll run through his  
23   credentials.

24                  EXAMINER McMILLAN: I thought he was -- he  
25   has.



1 MS. CALLAHAN: He has?

2 EXAMINER McMILLAN: Yeah.

3 EXAMINER BROOKS: In the prior case?

4 EXAMINER McMILLAN: Yeah, in the prior  
5 case.

6 MS. CALLAHAN: Okay. I didn't recall that  
7 I had offered him up as an expert.

8 EXAMINER McMILLAN: Well, he's done it  
9 before.

10 So do you have any objections, Jim?

11 MR. BRUCE: Nope.

12 MS. CALLAHAN: Okay. Great.

13 So in his affidavit, he points out that the  
14 124H well is targeting the 2nd Bone Spring Sand  
15 interval, and the wells proposed in 16282 and 16283 are  
16 targeting the 3rd Bone Spring Sand interval. He states  
17 that the stipulation -- the simulation -- stimulation  
18 design -- excuse me -- for the 124H well is a slick  
19 water and sand fracture stimulation, which is the same  
20 for the wells planned in 16282 and 16283, and the design  
21 is intended to control height and maximize fracture  
22 half-length.

23 Mr. Shipley provides the depth-severance  
24 justification between the three intervals of the Bone  
25 Spring Formation by reference to data included in his

1 two exhibits, which are Exhibits 14 and 15.

2 Exhibit Number 14 is the Rana Salada  
3 development block type logs, frac barriers and target  
4 interval, and, again, the target depth is indicated, as  
5 are the limestone barriers.

6 Exhibit Number 15 is a comparison of the  
7 vertical separation of the 1st, 2nd and 3rd Bone Spring  
8 intervals.

9 Referring to Exhibits 14 and 15,  
10 Mr. Shipley states the planned landing point for the  
11 proposed well is at 8,465 feet. And as to the first and  
12 second intervals, there is 469 feet of vertical  
13 separation between the base of the 1st Bone Spring,  
14 which is at 7,890 feet and the top of the 2nd Bone  
15 Spring, which is at 8,359 feet.

16 The gross height between the base of the  
17 producing 2nd Bone Spring Sand interval and the  
18 producing 3rd Bone Spring Sand interval is approximately  
19 849 feet, and the conductive frac height is not expected  
20 to exceed approximately 100 feet.

21 Then as to the second and third intervals,  
22 he states there is 849 feet of vertical separation  
23 between the base of the 2nd Bone Spring and the top of  
24 the 3rd Bone Spring. There are 336 feet of frac  
25 barriers between the 2nd Bone Spring and 3rd Bone

1 Spring, and there is 336 feet of vertical separation  
2 between the base of the 2nd Bone Spring at 8,712 feet  
3 and the top of the 3rd Bone Spring at 9,561 feet.

4 From this data, he concludes the 1st Bone  
5 Spring Sand interval and the 2nd Bone Spring Sand  
6 interval will be isolated from each other in the  
7 proposed horizontal spacing unit and are not within  
8 hydraulic fracture communication. And the 2nd Bone  
9 Spring Sand interval and the 3rd Bone Spring Sand  
10 interval will be isolated from each other in the  
11 proposed horizontal spacing units and are also not  
12 within the hydraulic fracture communication.

13 The granting of this application, he  
14 opines, is in the best interest of conservation and the  
15 prevention of waste.

16 If there are no objections, I move for the  
17 admission of the affidavit of Mr. Shipley and his  
18 Exhibit Number 14 and Number 15.

19 EXAMINER McMILLAN: Any objections?

20 MR. BRUCE: No.

21 EXAMINER McMILLAN: The affidavit by the  
22 engineer and Exhibits 14 and 15 may now be accepted as  
23 part of the record.

24 (Novo Oil & Gas Northern Delaware, LLC

25 Exhibit Numbers 14 and 15 are offered and

1 admitted into evidence.)

2 MS. CALLAHAN: Thank you.

3 And I'd ask that Case Number 16284 be taken  
4 under advisement.

5 EXAMINER McMILLAN: Jim?

6 MR. BRUCE: No objection.

7 EXAMINER McMILLAN: Okay. Case Number  
8 16284 shall be taken under advisement.

9 Thank you.

10 MS. CALLAHAN: Thank you.

11 EXAMINER McMILLAN: You had a question for  
12 David Brooks.

13 MS. CALLAHAN: Oh. Do I need to re-open  
14 Cases 16282 and 16283 to offer Mr. Hale and Mr. Shipley  
15 as experts and run through their -- can we just adopt  
16 the testimony that we gave in 16284 and incorporate it  
17 into 16282 and 83 related to the credentials of the two  
18 experts?

19 EXAMINER BROOKS: I think that's  
20 sufficient.

21 MS. CALLAHAN: Okay. I'd ask that we do so  
22 then, please.

23 With that, I conclude my presentation.

24 EXAMINER McMILLAN: Okay. Thank you. Very  
25 good presentation.

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MS. CALLAHAN: Thank you.  
(Case Number 16284 concludes, 3:21 p.m.)

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 27th day of March 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