

1 STATE OF NEW MEXICO
2 ENERGY AND MINERALS DEPARTMENT
3 OIL CONSERVATION DIVISION
4 STATE LAND OFFICE BLDG.
5 SANTA FE, NEW MEXICO
6 18 January 1984

7 EXAMINER HEARING

8 IN THE MATTER OF:

9 Application of Northwest Explora- CASE
10 tion Company for an exception to 8042
11 the special pool rules for the
12 Gavilan-Mancos Oil Pool, Rio Arriba
13 County, New Mexico.

14 BEFORE: Michael E. Stogner, Examiner

15 TRANSCRIPT OF HEARING

16
17 A P P E A R A N C E S

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19
20 For the Oil Conservation
21 Division:

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A P P E A R A N C E S

For Dugan Prod. &

Jerome P. McHugh:

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I N D E X

LAWRENCE VAN RYAN

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2 MR. STOGNER: We'll call next
3 Case Number 8042.

4 MR. PEARCE: That case is on
5 the application of Northwest Exploration Company for an ex-
6 ception to the special pool rules for the Gavilan-Mancos Oil
7 Pool, Rio Arriba County, New Mexico.

8 MR. CARR: May it please the
9 Examiner, my name is William F. Carr, with the law firm
10 Campbell, Byrd, & Black, P. A., of Santa Fe, appearing on
11 behalf of Northwest.

12 I have one witness who needs to
13 be sworn.

14 MR. KELLAHIN: If the Examiner
15 please, I'm Tom Kellahin of Santa Fe, New Mexico, appearing
16 on behalf of Dugan Production Corporation and Jerome P.
17 McHugh.

18 MR. PEARCE: Are there other
19 appearances in this matter?

20 Do you have witnesses, Mr. Kel-
21 lahin?

22 MR. KELLAHIN: No, sir.

23
24
25 (Witness sworn.)

LAWRENCE VAN RYAN,

being called as a witness and being duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. CARR:

Q Will you state your full name and place of residence?

A My name is Lawrence Van Ryan and I reside in Littleton, Colorado.

Q By whom are you employed and in what capacity?

A I'm employed by Northwest Exploration Company as their Vice President of Operations.

Q Have you previously testified before this Commission or one of its examiners and had your credentials accepted and made a matter of record?

A Yes, I have.

Q And how were you qualified at that time?

A I was qualified as a professional petroleum engineer.

Q Are you familiar with the application filed in this case on behalf of Northwest Exploration Company?

A Yes, I am.

Q Are you familiar with the subject area?

A Yes.

1
2 MR. CARR: Are the witness'
3 qualifications acceptable?

4 MR. STOGNER: They are.

5 Q Mr. Van Ryan, would you briefly state
6 what Northwest seeks with this application?

7 A Northwest seeks to have the north half of
8 Section 26, Township 25 North, Range 2 West, simultaneously
9 dedicated to its Gavilan No. 1 Well and its Gavilan No. 1-E
10 Well.

11 It also seeks to have downhole comming-
12 ling approved for the Gavilan No. 1 and for the Gavilan No.
13 1-E in the Gallup and Dakota formations.

14 Q Would you please provide the examiner
15 with the background for this hearing?

16 A The background for this hearing is based
17 on Order No. R-7407 in which the Gavilan-Mancos Oil Pool was
18 established by the Commission on the 20th day of December,
19 1983.

20 In that order, paragraph two says that
21 any well presently producing from the Gavilan-Mancos Oil
22 Pool which does not have a standard 320-acre proration unit
23 and approved nonstandard proration unit, or which does not
24 have a pending application for a hearing for such a unit by
25 March 1st, 1984, shall be shut in until a standard -- non-
standard unit is assigned to the well.

Since we have two wells currently in the
north half of Section 26, we do not have a standard 320-acre

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2 proration unit for each well, therefore we are here to
3 acquire a simultaneous dedication for these wells.

4 And a little background into this
5 hearing, at the same time this hearing was called Northwest
6 Pipeline had requested a downhole commingled pool be estab-
7 lished between the Gallup and Dakota formations here. This
8 was not granted by the order of the Commission, and since we
9 have a marginal zone in the Dakota formation, we're here to
10 request downhole commingling.

11 Q Would you please refer to what has been
12 marked for identification as Northwest Exhibit Number One,
13 identify this and explain what it shows?

14 A Exhibit Number One is a 9-section plat
15 showing the north half of 26 with the location of the Gavi-
16 lan No. 1 and the Gavilan No. 1-E Wells.

17 It also shows the lease ownership for all
18 the contiguous 320-acre tracts surrounding this north half
19 of Section 26.

20 Q Would you now refer to Exhibit Number
21 Two?

22 A Exhibit Number Two is a completion report
23 for the Gavilan No. 1. There are two pages to this exhibit
24 and the first page refers to the completion report for the
25 Basin Dakota zone and the second page refers to the comple-
tion report for the, at that time, wildcat Gallup zone.

26 Q When was this well completed?

27 A This well was completed in March of 1982.

1
2 Q Will you now refer to Exhibit Number
3 Three?

4 A Exhibit Number Three is a completion re-
5 port for the Gavilan No. 1-E. Again, it is a 2-page exhi-
6 bit. The first page refers to the completion report for the
7 Basin Dakota zone in this well and the second page refers to
8 the completion report for the Gavilan Gallup in the same
9 well.

10 Q It appears to me that some changes have
11 been made in this form in terms of the field or pool desig-
12 nation.

13 Could you explain that?

14 A We had submitted the form, as you can
15 see, prior to being scratched out, and the Commission had
16 changed this because we had erroneously indicated the infor-
17 mation on here that was not correct.

18 Therefore the Basin Dakota is the proper
19 pool for the top sheet and the Gavilan Gallup is the proper
20 pool, as established by the Commission, for the second
21 sheet.

22 Q And when was this well completed?

23 A This well was completed in July of 1983.

24 Q Would you now refer to Exhibit Number
25 Four and review that for Mr. Stogner?

A Exhibit Number Four is a copy of the in-
duction electric log in the Gavilan No. 1. We have shown
on here all of the perforations on the righthand column with

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2 tic marks. These show the perforations in not only the
3 Gallup formation but also in the Dakota formation.

4 And they also show in the Dakota forma-
5 tion a bridge plug that was set at approximately 8073 feet
6 to squeeze off perforations that had been attempted at a
7 depth of approximately 8200 feet.

8 This zone was tested and it showed to be
9 water wet and was plugged off.

10 Q Will you now refer to Exhibit Number
11 Five?

12 A Exhibit Number Five is a similar type log
13 for the Gavilan No. 1-E Well. Again in the righthand column
14 we show the perforations with tic marks for both the Gallup
15 zone and for the Dakota zone.

16 It should be noted in this well that we
17 did not go on down and perforate the lower zones since they
18 were wet in the Dakota formation.

19 Q Mr. Van Ryan, would you now review North-
20 west's Exhibit Number Six for the Examiner?

21 A Exhibit Number Six a production history
22 from date of first delivery for the Gavilan No. 1.

23 The well was first delivered on June the
24 2nd, 1982. The production is broken down on a day to day
25 basis, giving the number of hours a day that the well pro-
duced, the barrels of oil per day that the well produced,
the barrels of water per day, the gas production in Mcf per
day, and then we have included a remarks column, which is

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2 important in this case because it gives some information
3 about what zones were producing in the well.

4 We would point out on this that in 1983
5 Northwest was producing the Gallup zone only and then in the
6 protesting of the Dakota zone we attempted to produce that
7 zone for a period of time. It did flow and we do have good
8 production figures here, which we'll use later in our exhi-
bits.

9 Q Will you now review Exhibit Number Seven?

10 A Exhibit Number Seven is a similar type
11 production history for the Gavilan No. 1-E. This well was
12 first delivered on the pipeline on September the 2nd, 1983,
13 and we show the same information here as we did for the Gav-
14 ilan No. 1.

15 This well, since its first delivery, has
16 only produced from the Gallup formation.

17 Q Are both of these wells only producing
18 from the Gallup?

19 A Yes, at the present time.

20 Q And the two zones that you propose to
21 downhole commingle are the Gallup and --

22 A Dakota formations.

23 Q Would you now refer to Exhibit Number
24 Eight and review this for Mr. Stogner?

25 A Exhibit Number Eight is a New Mexico Oil
Commission Form C-116 for the gas/oil ratio test for the

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2 Gavilan No. 1. This was the test conducted in June of 1983,
3 and it shows a GOR at that time of 9340 cubic feet of gas
4 per barrel of oil.

5 Q And now review Exhibit Nine.

6 A Exhibit Nine is also the C-116 form.
7 This is for the Gavilan No. 1-E and was run on the 10th
8 month of 1983. It shows a gas/oil ratio of 3649 cubic feet
9 of oil per barrel -- I mean of gas per barrel of oil.

10 Q Would you now go to Exhibit Number Ten
11 and review this for Mr. Stogner?

12 A Exhibit Number Ten is our calculation of
13 the State's allowable for the 320 acre spacing as set up in
14 the Gavilan-Mancos Oil Pool.

15 What we have shown here is the top per-
16 foration for the Gavilan No. 1 at 6821 feet and the top per-
17 foration for the Gavilan No. 1-E at 6804 feet. By the State
18 rules this falls in a depth bracket between 6000 and 6999
19 feet; 320-acre proration unit, which would be allowed to
20 produce 702 barrels of oil per day by this allowable.

21 What we have further shown here is the
22 limitation because these wells will exceed the 2000 to one
23 GOR limitation for the State and in the first designation
24 there we have shown a gas/oil ratio limitation being calcu-
25 lated from the C-116 forms that we showed, showed in the
earlier exhibits.

Showing the combined production for the
two wells in the north half of Section 26, they produced

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2 together 143.7 barrels of oil per day, 904 Mcf of gas per
3 day, which results in a GOR of 6291 to one. If you multiply
4 that factor, the ratio of 2000 to 6291 times the 702 barrels
5 of oil per day, you come up with an allowable of 223.2
6 barrels of oil per day.

7 Following that we have used our most re-
8 cent production information, which is from December of 1983.
9 The combined production for the two wells was 115.3 barrels
10 of oil per day and 588 Mcf of gas per day. This resulted in
11 a GOR of 5100 to one and will result in an allowable of
12 275.2 barrels of oil per day.

13 What we intend to show here is that our
14 allowable, as calculated from the State rules, exceeds the
15 production that both these wells are currently capable of.

16 If you will refer back to the combined
17 production of December of 115.3 barrels of oil per day, our
18 allowable would be 275; therefore we are not in a position
19 to be able to overproduce this north half.

20 Q Would the correlative rights of any off-
21 setting operator therefore be impaired by the proposed
22 simultaneous dedication?

23 A No, they would not.

24 Q Would you now refer to Exhibit Number
25 Eleven, identify this, and explain the reason for including
it in this case?

A Exhibit Number Eleven is the communitiza-
tion agreement that communitizes the gas production. It is

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2 included to show that we have dedicated the north half of
3 Section 26 and have produced the Gavilan No. 1, and subse-
4 quently the Gavilan No. 1-E, under this communitization
5 agreement.

6 Q And under this communitization agreement
7 the interest owners in the north half of this section have
8 paid for these wells and shared in production therefrom.

9 A Under this and underneath the operating
10 agreement, which is the next exhibit. They have approved
11 that. The royalty owners and the working interest owners
12 have all been signatory to the communitization agreement.

13 Q All right, will you now review Exhibit
14 Number Twelve?

15 A Exhibit Number Twelve is the operating
16 agreement for the north half of Section 26, which also in-
17 cludes an amendatory agreement which forms a working inter-
18 est pool for all the north half of Section 26 in the Mesa-
19 verde, the Gallup, and the Dakota formations. Underneath
20 this agreement all the working interest owners have paid
21 their share of the cost of both wells and the distributions
22 from the income of both wells have been distributed under-
23 neath this agreement.

24 Q Now if the application for simultaneous
25 dedication is approved, does Northwest request a specific
effective date for that order?

A We would request that the same effective
date as for the Gavilan Gallup Pool be established, and that

1
2 would be March 1st of 1984.

3 Q Would this facilitate making royalty pay-
4 ments at the beginning of a month?

5 A Yes. This would be most convenient,
6 since at this time the royalty payments will start to be
7 made on a 320-acre tract rather than on 40-acre, as was the
8 previous spacing for this area.

9 Q If this application to simultaneously de-
10 dicate the north half of Section 26 should be denied, what
11 problems would result for Northwest Exploration as operator
12 of the wells in the north half of this section?

13 A Underneath the current order of the Com-
14 mission one of the wells would have to be shut in because we
15 do not have a standard 320-acre for two wells.

16 The other problem there would be that we
17 would have to recoup monies already paid out by Northwest
18 Exploration to working interest owners in the well and we'd
19 have to make some sort of adjustment as to how people paid
20 the cost of the wells in the north half of Section 26.

21 Q Now, Mr. Van Ryan, I'd like to ask you a
22 few questions concerning the downhole commingling portion of
23 this case, and ask that you refer back to Exhibit Number
24 One, which is the plat.

25 A Are there other wells on this plat for
which commingling authority has been approved by this Com-
mission?

A Yes. In Exhibit One is the McHugh Janet

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2 No. 1 Well. This well is currently downhole commingled by
3 order of the New Mexico Commission. It produces from both
4 the Gallup and Dakota formations.

5 Also, in Section 27 in the southwest
6 quarter there is a case pending before the Commission, Case
7 Number 8041, which is an application for downhole comming-
8 ling of a completed well.

9 Q I would ask that you now refer back to
10 Exhibits Four and Five, the logs, and use those to identify
11 the zones which will be commingled.

12 A Again on Exhibit Four, we are attempting
13 to commingle the Gallup and Dakota formations. The Gallup
14 formation perforations are from a depth of 6821 feet down to
15 a depth of 7562 feet, which are shown on the log, and we're
16 attempting to commingle those with the Basin Dakota perfora-
17 tions which are from a depth of 7880 feet to a depth of 7910
18 feet. Excuse me, to 8026 feet.

19 In Exhibit Number Five the Gallup perfor-
20 ations are on that log from a depth of 6804 feet down to a
21 depth of 7708 feet. The Dakota perforations are from a
22 depth of 7822 feet to a depth of 7918 feet.

23 These are the zones that we are desiring
24 to commingle downhole.

25 Q Are these zones flowing or being artifi-
cially lifted?

A These zones, the Gallup zones in both
wells are currently flowing. The previous test of the

1
2 Dakota zone was a flowing test.

3 Q Would you now refer to Exhibit Number
4 Thirteen and review this for Mr. Stogner?

5 A Exhibit Number Thirteen is a production
6 curve for the Gavilan No. 1 Well. It shows the barrels of
7 oil produced per month and Mcf of gas produced per month.
8 And what we want to show here is listed at the top of this
9 curve showing the various stages of this well and what we
10 were doing, how we were trying to produce the well at
11 various times.

12 We show on here that the early production
13 of the well in 1982 we were prorated because the well was
14 capable of producing in excess of its 40-acre allowable.

15 Starting at the first of 1983 we received
16 a discovery allowable for this well, this pool, and that al-
17 lowed us to produce the well at maximum rates until such
18 time as we attempted to test the Gallup and Dakota together.

19 We did flow the Gallup and Dakota to-
20 gether for a test period to try and obtain a commingled
21 rate, what a rate may be here. Subsequent to that we opened
22 up the Dakota only and flowed it to obtain a valid produc-
23 tion rate from the Dakota and now we're back to producing
24 the Gallup only.

25 Q And from this exhibit you can see what
each of the zones you propose to commingle is capable of
doing.

A From this, and from the production

1
2 histories that we presented earlier, we can show in detail
3 what each zone was capable of producing.

4 Q And from this information have you pre-
5 pared an exhibit which shows how production can be allocated
6 between each of the zones?

7 A Yes, we have.

8 Q Is that Exhibit Number Fourteen?

9 A Yes.

10 Q Would you review that now?

11 A Exhibit Number Fourteen is our proposed
12 allocation of production, commingled production in this
13 well. We are using production data from the Gavilan 1 since
14 we have more valid production there, as shown by our pre-
15 vious exhibit.

16 What we have shown here is that the pro-
17 duction data for 1983, when the Dakota zone was producing by
18 itself, we produced an oil rate of 5.9 barrels of oil per
19 day and a gas rate of 88.4 Mcf per day.

20 During the month of June, when the Gallup
21 formation was producing by itself, and had been producing
22 for a period of time for us to obtain a good rate, the oil
23 production was 59 barrels of oil per day and gas production
24 was 628.8 Mcf of gas per day.

25 What we've done here is shown a theoretic-
cal combined production rate, totaling up the oil rates and
the gas rates here; combined totals would be 64.9 barrels of
oil per day, 717.2 Mcf of gas per day.

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2 Using these figures we go back to try to
3 calculate a percentage of the total flow for the Gallup for-
4 mation. We have shown that the Gallup formation would pro-
5 duce 91 percent of the total oil and would produce 88 per-
6 cent of the total gas with a combined stream of flow.

7 Therefore we recommend with this exhibit
8 that the oil production would be allocated 91 percent of the
9 total flow to the Gallup formation and 9 percent to the
10 Dakota formation; 88 percent of the gas production would be
11 allocated to the Gallup and 12 percent to the Dakota forma-
12 tion.

13 Q And you recommend that these figures be
14 incorporated into any order which results from this hearing?

15 A Yes.

16 Q Does Northwest have any bottom hole pres-
17 sure data on the wells involved?

18 A We have cased hole drill stem tests that
19 were conducted on the Gavilan No. 1-E in an attempt to find
20 as valid a bottom hole pressure as we could.

21 Q Is that marked Exhibit Fifteen?

22 A Exhibit Fifteen is the drill stem test
23 conducted on the Dakota zone in the Gavilan No. 1-E.

24 Q Would you review that for Mr. Stogner?

25 A The important information here is in-
cluded on the data page, which is page number eight of the
subject report. On that page it has an extrapolated pres-
sure at a relative depth of 7772 feet for the Dakota forma-

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2 tion, in which the bottom hole pressure was 3320 psia.

3 Q Would you now refer to Exhibit Number
4 Sixteen and review this, please?

5 A Exhibit Number Sixteen is a drill stem
6 test report for the cased hole drill stem test run on the
7 Gavilan No. 1-E on the Gallup zone only.

8 The important information here is in-
9 cluded on page three, which is a letter from the Johnson-
10 MACCO people, which indicates that although the test was not
11 successful, they were able to extrapolate the initial shut-
12 in pressure obtained during this drill stem test and have
13 extrapolated a bottom hole pressure for the Gallup formation
14 of 2177 psia.

15 This is at a referenced depth of 1768
16 feet.

17 To equate the previous drill stem test to
18 this zone, to equate them to both 6768 feet, the equivalent
19 pressure of the Dakota formation at that depth, assuming a
20 water gradient, would be 2888 psia.

21 Q Are the pressure differentials that you
22 anticipate between the zones such that they would result in
23 migration of hydrocarbons between the two zones?

24 A No, sir.

25 Q Are there -- are the fluids produced from
the zones compatible?

A Yes, the fluids are.

Q Have you previously commingled the fluids?

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2 A We have for a test period, as shown on
3 the production curve for the Gavilan No. 1, commingled the
4 production to obtain some sort of idea of what the well
5 would produce and if it would produce, and we did not exper-
6 ience any problems with the commingling of the fluids.

7 Q Are the reservoir characteristics of
8 these zones such that underground waste will not be caused
9 by the proposed downhole commingling?

10 A Yes.

11 Q Is the ownership of both zones common?

12 A The ownership of both the Gallup and
13 Dakota formations here is common, as shown by the communiti-
14 zation agreement and by the operating agreement.

15 Q And that is working interest as well as
16 royalty interest?

17 A Yes, that is correct.

18 Q What are the volumes that are currently
19 being produced from the Dakota?

20 A The Dakota formation is not currently
21 producing in either well.

22 Q Without commingling authority will the
23 economics -- will economics permit production from the
24 Dakota?

25 A No. The Dakota formation production, as
we have shown earlier, is approximately 6 barrels of oil a
day and 88 Mcf of gas per day. For a well at this depth
this is not economical production, and this zone would not

1
2 produced until such time as the Gallup zone would be de-
3 pleted.

4 Q If this application is denied would re-
5 serves ultimately be left in the Dakota that ultimately --
6 or will be produced if the application is granted?

7 A More than likely they would be because it
8 will take a number of years for the Gallup to deplete and
9 therefore the Dakota zone would probably never produce.

10 Q And so granting the application will re-
11 sult in increased recovery of hydrocarbons?

12 A Yes, it will.

13 Q Will the value of the commingled produc-
14 tion exceed the sum of the values of the production from
15 each of the separate zones?

16 A Yes, it would.

17 Q In your opinion will granting this appli-
18 cation be in the best interest of conservation, the preven-
19 tion of waste, and the protection of correlative rights?

20 A Yes.

21 Q Were Exhibits One through Sixteen pre-
22 pared by you or compiled under your direction?

23 A Yes, they were.

24 Q Can you testify as to their accuracy?

25 A Yes.

MR. CARR: At this time, Mr.
Stogner, we would offer Northwest Exhibits One through Six-
teen.

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2 MR. STOGNER: Exhibits One
3 through Sixteen will be admitted into evidence.

4 MR. CARR: That concludes our
5 direct testimony.

6 CROSS EXAMINATION

7 BY MR. STOGNER:

8 Q Sir, the completion report, the C-105,
9 Exhibit Number Three, for the Gavilan No. 1-E shows a
10 multiple completion of three zones. What happened to the
11 third one?

12 A The third one, as you can see, was cor-
13 rected by the District Commission Office to reflect the Gal-
14 lup Gavilan zone and the Gallup formation was included with
15 what was called the Greenhorn formation. That is on the
16 second page of Exhibit Number Three.

17 Q Thank you, sir. What is the size of
18 casing in the production string in both these wells?

19 A In the Gavilan No. 1-E we have 4-1/2 inch
20 production casing and in the Gavilan No. 1 we have 4-1/2
21 inch production casing.

22 MR. STOGNER: I have no further
23 questions of this witness.

24 Are there any questions of this
25 witness? If not, this witness may be excused.

I'm sorry, Mr. Kellahin, do you
have any questions of this witness?

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2 MR. KELLAHIN: No, sir.

3 MR. STOGNER: So he may be ex-
4 cused.

5 Mr. Carr, do you have anything
6 further in this case?

7 MR. CARR: Nothing further.

8 MR. STOGNER: Does anybody have
9 anything further in Case Number 8042 at this time?

10 If not, this case will be taken
11 under advisement.

12 (Hearing concluded.)
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C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 8042, heard by me on January 18, 1984.

Michael E. Rogner, Examiner
Oil Conservation Division