

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO

11 May 1988

EXAMINER HEARING

IN THE MATTER OF:

Application of Union Texas Petro- CASE
leum Corporation for downhole com- 9370
mingling, Rio Arriba County, New
Mexico.

BEFORE: David R. Catanach, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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I N D E X

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4 PAUL MICHAEL PIPPIN

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E X H I B I T S

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2

MR. CATANACH: Call next Case

3

9370.

4

MR. ROYBAL: Case 9370.

5

Application of Union Texas Petroleum Corporation for
downhole commingling, Rio Arriba County, New Mexico.

6

7

MR. CARR: May it please the

8

Examiner, my name is William F. Carr with the law firm

9

Campbell & Black, P.A.. We represent Union Texas Petroleum

10

Corporation and I have one witness.

11

MR. CATANACH: Are there any

12

other appearances in this case?

13

Will the witness please stand

14

to be sworn in?

15

16

(Witness sworn.)

17

18

PAUL MICHAEL PIPPIN,

19

being called as a witness and being duly sworn upon his

20

oath, testified as follows, to-wit:

21

22

DIRECT EXAMINATION

23

BY MR. CARR:

24

Q

Will you state your full name and place

25

of residence?

1

2 A Paul Michael Pippin, spelled P-I-P-P-I-N.
3 I live in Farmington, New Mexico.

4 Q Mr. Pippin, by whom are you employed and
5 in what capacity?

6 A I'm employed by Union Texas Petroleum as
7 a petroleum engineer.

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

11 A Yes, I have.

12 Q And at that time were you qualified as a
13 petroleum engineer?

14 A Yes.

15 Q Are you familiar with the application of
16 Union Texas Petroleum Corporation in this case and the sub-
17 ject well?

18 A Yes, it was an administrative application
19 which was set for hearing by the Oil Conservation Division.

20 MR. CARR: Are the witness'
21 qualifications acceptable?

22 MR. CATANACH: They are.

23 Q Mr. Pippin, will you briefly state what
24 Union Texas seeks in this case?

25 A By this application Union Texas Petroleum

1 Corporation is requesting an order from the New Mexico Oil
2 Conservation Division to grant us approval to commingle the
3 Blanco Mesaverde and Basin Dakota Production in our Jicarilla
4 la G No. 8, which is presently a dual gas well located in
5 Unit Letter G of Section 2, Township 26 North, Range 5 West
6 in Rio Arriba County, New Mexico.

7 Q Mr. Pippin, would you refer to what has
8 been marked Union Texas Exhibits One and Two, identify each
9 of these exhibits and then review the information contained
10 thereon for Mr. Catanach?

11 A These two exhibits depict the Mesaverde
12 wells in Exhibit One and the Dakota wells in Exhibit Two
13 near the subject well, which is Jicarilla G No. 8.

14 It shows the sections surrounding the
15 section in which our Jicarilla G No. 8 Well is located.

16 The subject well is located in the mid-
17 dle, designated by a large dot.

18 The map also indicates the well names of
19 all the Mesaverde and Dakota wells respectively and their
20 ownership.

21 The surface land here, as is the royalty,
22 belongs to the Jicarilla Apache Tribe.

23 There is one well on these exhibits that
24 has already been approved for downhole Mesaverde/Dakota com-
25 mingling. It is the Jicarilla G No. 9 and it's indicated on

1 the exhibits by the large arrow. It was approved by the
2 Commission through Order R-7538 on May 21st, 1984.

3 Q And this is commingled in Mesaverde and
4 Dakota?

5 A Yes.

6 Q Are there other wells in the area down-
7 hole commingled in these zones?

8 A Also approved in the vicinity for Mesa-
9 verde/Dakota commingling is the Jicarilla 119 No. 4, located
10 in Unit Letter H of Section 6, Township 26 North, Range 4
11 West. This is not on the exhibits but it's two miles east
12 of the subject well.

13 In addition to that, Union Texas operates
14 our Jicarilla H lease which is located directly off of these
15 maps to the southeast. It's comprised of four sections,
16 Section 17, 18, 19 and 20, Township 26 North, Range 4 West.

17 We have approved administrative proce-
18 dures for the downhole commingling of the Mesaverde and Da-
19 kota in all four of these sections.

20 Q And so what you do in those sections is
21 simply file for administrative approval?

22 A That is correct.

23 The acreage dedication to the subject
24 well is the east stand-up 320 acres in Section 2 in both the
25 Mesaverde and Dakota. The ownership in both the Mesaverde

1 and Dakota is the same.

2 Q The only offsetting operators to the pro-
3 posed well are either Union Texas itself or Meridian, is
4 that correct?

5 A That is correct.

6 Q And under the east half of Section 2, the
7 subject acreage, the ownership is common both as to working
8 interest and royalty interest.

9 A That is correct.

10 Q Would you now refer to Exhibit Number
11 Three, identify this and review it, please?

12 A Exhibit Three is a wellbore diagram indi-
13 cating what is in the well right now, that is before com-
14 mingling.

15 This well was completed in 1970 as a dual
16 Mesaverde/Dakota well. It was equipped with 7-5/8ths inter-
17 mediate casing at 3600 feet. It has a 5-1/2 inch liner from
18 3469 feet through 7869 feet.

19 The Mesaverde is perforated from 5042 to
20 5166 and it was fraced with 80,000 pounds of sand.

21 The Dakota was perforated from 7596
22 through 7784 and it was fraced with 101,000 pounds of sand.

23 These zones are currently segregated
24 through the use of a packer at 7490. I'd like to note that
25 this packer is only 109 feet above the top Dakota perf.

1 This is a situation that mechanically restricts the Dakota's
2 ability to unload liquids by limiting the annular volume in
3 which the Dakota stores gas.

4 Q Mr. Pippin, why are you seeking authority
5 to downhole commingle these zones at this time?

6 A We have -- the basic reason we are seek-
7 ing to downhole commingle is that we have lost production
8 currently in the Mesaverde and the Dakota is exhibiting some
9 poor producing characteristics similar to that.

10 We have actually lost production and we
11 believe we will ultimately lose reserves if we don't com-
12 mingle.

13 Q Are you having mechanical problems with
14 the well?

15 A Yes. The Dakota currently, here in Exhi-
16 bit Three, is being produced up inch and a half tubing and
17 the Mesaverde is produced up a separate string of inch and a
18 half tubing.

19 Currently there is communication between
20 the two intervals. I suspect a hole is in the Dakota string
21 of pipe.

22 Q And when was that discovered?

23 A I learned of the communication between
24 the Mesaverde and Dakota when we received a letter from the
25 District Oil Conservation Division in December of '87. This

1 letter stated that a packer leakage test taken in September
2 of '87 indicated the communication between the Mesaverde and
3 Dakota and that we should repair this communication.

4 Q And what actions did you take in response
5 to this letter?

6 A We started the necessary paper work and
7 during discussions with our 50 percent working interest
8 partner in the well, who is Meridian Oil, we concluded that
9 due to the well's age and the current rather poor producing
10 characteristics, we should apply for downhole Mesaverde/Dak-
11 ota commingling now.

12 Q And is that what resulted in the filing
13 of an application for administrative approval?

14 A Yes, we subsequently filed for the admin-
15 istrative approval of downhole commingling.

16 Q Are you ready to go to Exhibit Number
17 Four?

18 A Yes.

19 Q Would you refer to that now and simply
20 review the information contained on this exhibit for the ex-
21 aminer?

22 A This again is a -- what we hope to be a
23 future wellbore diagram of the subject well, Jicarilla G No.
24 8. It shows the Mesaverde and Dakota zones downhole com-
25 mingled. This producing arrangement has two big producing

1 advantages.

2 First, greater wellbore storage in the
3 annular space will help enable the well to better remove
4 small amounts of (unclear).

5 And second, with only one string of tub-
6 ing we may apply artificial lift at some point in the future
7 to further enhance and sustain the gas production.

8 Q Would you now refer to Union Texas Exhi-
9 bit Number Five, identify that, and review the information
10 contained on this exhibit?

11 A Exhibit Five is the Dakota side
12 production curve for the Jicarilla G No. 8. It exhibits a
13 normal, what I would consider a normal, Dakota exponential
14 decline; however, for the last year we have had to blow this
15 Dakota side once or twice a week in order to sustain this
16 production. The well's production or capacity now is -- is
17 134 MCF per day.

18 Although the blowing of the well to
19 atmosphere allow us to sustain the production and continue
20 producing, it is very wasteful of natural gas, of the
21 natural resource. Commingling of this well would eliminate
22 this wasteful practice.

23 Q Do you believe this problem could be
24 corrected simply by repairing the tubing in the well?

25 A No, I don't believe merely repairing the

1 tubing leak could -- could alleviate this problem. This is
2 one of the first indications of a well getting on in its age
3 and I would anticipate it to only get worse.

4 This Dakota, by the way, has a cumulative
5 of 1392-million cubic feet.

6 Q And if you repaired the tubing you still
7 would have the problem that results from the proximity be-
8 tween the location of the packer and the actual producing
9 interval.

10 A That is correct.

11 Q Would you go now to Exhibit Number Six
12 and review that, please?

13 A Exhibit Six is the Mesaverde side produc-
14 tion curve for the Jicarilla G No. 8.

15 While the Dakota side of the this dual
16 well is showing production problems due to its lower gas
17 volume's inability to lift small amounts of liquid, the
18 Mesaverde has gotten to the point that it will not lift
19 liquid even when we blow it to atmosphere.

20 This condition started in late 1985. The
21 well is presently in a perpetual logged off condition cap-
22 able of only about 9 MCF per day, which experience indicates
23 this is the amount of gas that will bubble through a column
24 of liquid.

25 The only economical way to return this

1 well to production is to commingle the well which in effect
2 will allow the Dakota gas to help lift this small amount of
3 liquid.

4 Both sides of this well log off due to
5 small amount of oil and/or water, which is difficult for the
6 small gas volumes to lift. Current operations have had to
7 rely on blowing the well to atmosphere, which again is very
8 wasteful of natural gas.

9 We believe that the removal of the packer
10 and commingling will increase the life of this well by in-
11 creasing the annular volume along with the total producing
12 gas volumes which are both necessary to lift liquids.

13 The Mesaverde has very serious problems
14 unloading and currently the Dakota now also is exhibiting
15 these same problems. Commingling would pave the way not
16 just for more efficient removal of liquids from the wellbore
17 through the direct gas production but would allow us in the
18 future to install an artificial lift mechanism, if needed,
19 which in this case would be a plunger lift.

20 Q Again let me ask you, would repairing the
21 leak in the tubing correct this problem without downhole
22 commingling authority?

23 A No, it would not.

24 Q Would you now go to Exhibit Number Seven
25 and explain what those calculations, or what that informa-

1 tion shows?

2 A This is a follow-up of what I just said.
3 It's the calculated reserves for both in Dakota and then
4 I've calculated the Mesaverde reserves in two different
5 ways.

6 I indicate 712-million cubic feet remain-
7 ing in the Dakota and this is the artificial lift mechanism
8 that will help enable us to produce the Mesaverde reserves.

9 We will use the Dakota reserves to lift
10 the liquids from both the Dakota and the Mesaverde, enabling
11 both of them to produce.

12 With commingling we won't have to blow
13 the well so we will be able to produce closer to this 712
14 from the Dakota than we would otherwise.

15 In the Mesaverde, using the historical
16 Mesaverde decline from 1975 through about 1985, I came up
17 with approximately 7 percent exponential decline, giving
18 Mesaverde reserves at about 211-million cubic feet remain-
19 ing; however, the well is currently perpetually logged off
20 with liquid. If we don't commingle this well we are going
21 to lose this 211-million cubic feet.

22 Q All right, let me ask you, are you talk-
23 ing about ultimately actually losing this 211-million cubic
24 feet or are you talking about simply deferring the time at
25 which it could be produced?

1 A I don't believe these reserves would be
2 deferred. I believe they'll be lost, because if we wait to
3 commingle, or if we wait for any reason, we will continue
4 producing the Dakota reserves and we will continue wasting
5 some of the Dakota gas by blowing, but the more Dakota
6 reserves we produce now, the less Dakota reserves we will
7 have left to help lift the Mesaverde liquids, allowing the
8 Mesaverde reserves to be produced also.

9 Q And these -- and this Dakota production
10 is in fact what you're hoping will enable to -- to lift the
11 reserves from the Mesaverde?

12 A That is correct.

13 Q Would you now -- well, let me, before we
14 get to that, are you prepared to make a recommendation to
15 the Examiner as to how production should be allocated be-
16 tween the Mesaverde and the Dakota formations?

17 A We would recommend that the District
18 Supervisor be consulted and an allocation for the subject
19 well be initially agreed on after we commingle the well.

20 Q All right, would you now go to Exhibit
21 Number Nine? There is no Exhibit Number Eight. I just mis-
22 numbered these, and would you go to Exhibit Number Nine and
23 review that for the Examiner, please?

24 A Exhibit Nine is my calculations of the
25 anticipated bottom hole pressures.

1 Q And what does it show?

2 A It shows that Mesaverde bottom hole pres-
3 sure will be 656 psia and the Dakota bottom hole pressure
4 will be 1106 psia. I used the shut-in casing pressure and
5 the latest deliverability test applied to the reservoir
6 equations to obtain these numbers. We anticipate no prob-
7 lems due to this difference in bottom hole pressures since
8 the anticipated producing bottom hole pressure will be far
9 below either of the individual reservoir pressures.

10 Q So you don't anticipate migration between
11 zones?

12 A No, in a producing situation we would
13 not.

14 Q Are these zones capable of only marginal
15 production?

16 A Since the Mesaverde cannot be unloaded
17 any more by blowing to atmosphere and it remains in a log-
18 ged off condition most of the time, I would consider it very
19 marginal.

20 The Dakota also is now exhibiting these
21 same tendencies.

22 Q And both zones are, though, at this time
23 currently flowing.

24 A Both zones are open flowing production as
25 of now.

1 Q Okay. Would you identify Exhibits Ten
2 and Eleven and review these for Mr. Catanach?

3 A Ten and Eleven are gas analyses from both
4 the Mesaverde and Dakota gas strings. They're both sweet
5 gas, similar in specific gravity and BTU. They have a few
6 impurities but they're similar impurities.

7 Q Do you anticipate any compatibility prob-
8 lems as a result of downhole commingling?

9 A No, we don't. We have not seen compat-
10 ibility problems in the Jicarilla G No. 9, which I talked
11 about in Exhibits One and Two, located only a mile to the
12 east, and we have not seen compatibility problems in our
13 Jicarilla H lease, the four sections directly to the south-
14 east of here.

15 Q And you're commingling the same zones in
16 those wells?

17 A These are the same zones, correct.

18 Q In your opinion, are the reservoir char-
19 acteristics of the two subject pools such that underground
20 waste will not be caused by the proposed downhole comming-
21 ling?

22 A There will be no waste. We will stop a
23 waste situation which is now occurring.

24 Q So will granting this application result
25 in the increased recovery of hydrocarbons?

1 A Very definitely. I hope to recover the
2 211--million cubic feet from the Mesaverde, which we will
3 lose if we don't commingle.

4 Q Will the value of the commingled produc-
5 tion exceed the sum of the values of the production from
6 each of the individual zones?

7 A Very definitely.

8 Q And in your opinion will economic savings
9 result from at this time going forward with the downhole
10 commingling of these zones?

11 A Yes, it will.

12 Q Mr. Pippin, in your opinion will granting
13 this application be in the best interest of conservation,
14 the prevention of waste, and the protection of correlative
15 rights?

16 A Yes.

17 Q Would you now identify what has been mar-
18 ked Union Texas Exhibits Twelve and Thirteen?

19 A These are waiver letters from both the
20 BLM and the offset operator, who in this case is Meridian
21 Oil.

22 Q And would you now refer to and identify
23 what has been marked Exhibit Fourteen and Exhibit Fifteen?

24 A These are letters, copies of letters,
25 from Campbell & Black giving notice to the BLM and the one

1 offset operator, Meridian Oil, of this hearing.

2 Q How soon does Union Texas plan to go for-
3 ward with its work on this well?

4 A We would like to commence work on this
5 just as soon as possible, this summer, basically.

6 Q Mr. Pippin were Exhibits One through
7 Seven and Nine through Fifteen prepared by you or compiled
8 under your direction and supervision?

9 A Yes.

10 MR. CARR: At this time, Mr.
11 Catanach, we would move the admission of Union Texas Petro-
12 leum Company's Exhibits One through Seven and Nine through
13 Fifteen.

14 MR. CATANACH: Exhibits One
15 through Seven and Exhibits Nine through Fifteen will be ad-
16 mitted into evidence at this time.

17 MR. CARR: And that concludes
18 my direct examination of Mr. Pippin.

19

20 CROSS EXAMINATION

21 BY MR. CATANACH:

22 Q Mr. Pippin, you said there was an admin-
23 istrative procedure for obtaining downhole commingling ap-
24 proval on the Jicarilla H lease?

25 A Yes. I don't have the order number but I

1 can sure get it for you.

2
3 MR. CARR: We'll provide you
4 with that, if that's all right, following the hearing.

5 Q Okay, this is in the same general area,
6 is that correct?

7 A Yes, it's directly to the southeast of
8 the G lease. I have a map here I could -- I could show you
9 its proximity, if you'd like.

10 Q Okay. You said both zones were currently
11 flowing?

12 A Yes, sir. Yes, sir, they're both flow-
13 ing.

14 Q But the Mesaverde, you say, has been
15 loading up and you have to blow that down?

16 A It's gotten so the Mesaverde will not un-
17 load even when we blow it now, so we've just stopped blowing
18 it. It's a waste of gas.

19 Q But it's currently flowing.

20 A It's open to production, producing an
21 average of 9 MCF per day.

22 Q Okay. How much liquids do these zones
23 produce?

24 A The Dakota hasn't recorded any oil pro-
25 duction in awhile to my memory. Water production is around
a barrel a day, I'd say.

1 The Mesaverde will not lift any liquid;
2 therefor no liquid production.

3 Q How much was the Mesaverde producing
4 before it started logging off, do you recall?

5 S Yes. Mesaverde, I would say is capable
6 of between 70 and 80 MCF per day with negligible oil, very
7 little oil.

8 Q How about water?

9 A Around half a barrel a day. Neither side
10 makes very much liquid but unless this liquid is removed, a
11 quart a day will log a well off in a matter of weeks.

12 Q You say there's -- you figure there's
13 probably a hole in the tubing for the Dakota formation, is
14 that correct?

15 A Yes. When we determine that there is
16 communication between zones in a dual well, it's been my ex-
17 perience that it's always a tubing leak rather than a packer
18 leak or casing problem.

19 Q Have you experienced any decline in
20 Dakota production?

21 A Not really, no, sir. We see a decline in
22 Dakota production when we do not blow the Dakota. We have
23 to keep the Dakota unloaded.

24 Q You blow that zone, would you say, twice
25 a week?

1 A Between once and twice a week on the
2 average, yes.

3 Q Mr. Pippin, what's the status of this
4 well as far as the prorated gas pools? I mean they're not
5 -- they're not overproduced in either zone or anything like
6 that, are they?

7 A According to the May proration schedule,
8 the Dakota, of course we're not just talking about this well
9 now, we're talking about this well and its infill well in
10 the Dakota.

11 Q Which is where?

12 A That's called a proration unit.

13 MR. CARR: That's the Jicarilla
14 G-8-A on the first plat down in the southeast of the south-
15 east.

16 A The Dakota side is currently underpro-
17 duced and the Mesaverde side, ironically, on the proration
18 schedule is overproduced by almost a factor of 2; however,
19 obviously, this proration unit is not overproduced due to
20 the subject well, which is only currently making 9 MCF a
21 day. We have drilled an infill well to this and within the
22 last year, first delivered the infill well, and I believe
23 it's the infill well's production that has caused this drill-
24 ling unit to be overproduced.

25 But again we're -- we're just looking at

1 the subject well here and trying to save the reserves that I
2 believe are remaining in the ground from the subject well.

3 Q Should the proration unit become overpro-
4 duced, you'd have to shut both wells in, however. How would
5 that affect -- would you experience any loss of reserves or
6 anything from shutting the well in or would you have prob-
7 lems doing it?

8 A We would definitely follow the rules as
9 -- as you tell us what the rules are. I don't believe we
10 would lose reserves in that respect. They might be deferred
11 a few days.

12 Q What if you had to shut it in for a ex-
13 tended period of time, would you -- might you have have some
14 loss of reserves?

15 A I don't see how we would lose reserves in
16 that scenario because right now my worry is that we are con-
17 tinuing to produce the Dakota reserves even though we're
18 wasting some to atmosphere through blowing, and the more
19 Dakota reserves we produce now in the subject well, the less
20 there will be to lift the small amount of Mesaverde liquids
21 in the future.

22 If the entire well were shut in it would
23 be a deference rather than a loss.

24 Q Mr. Pippin, is the value of the gas the
25 same or will you be losing any revenue off the combined mix-

1 ture?

2 A Nope, the value of the gas is the same.

3 Q And you requested that allocation be de-
4 termined by consulting with the District Supervisor. How do
5 you plan to determine the allocation, based on what?

6 A What I would like to do is look at the
7 production historically percentagewise and use this histori-
8 cal percentage from the past on future production.

9 Q You say historical production. I'm not
10 sure I follow you on that.

11 A Okay. Referring to Exhibits Five and
12 Six, Exhibit Five again is the Dakota production decline
13 curve and I would use production from a time when the
14 production was level, say in the years '84, '85, compared
15 with when it was relatively level in the Mesaverde side on
16 Exhibit Six, '83, '84, '85; not the production itself but
17 the relative production, I come up with percentages of the
18 gas stream, and I would relate these percentages to future
19 production coming up with an allocation.

20 Q Okay, and the reason you'd do that is to
21 ignore some of the difficulties you had in late -- in the
22 latest production, is that right?

23 A That is correct. The Mesaverde, as I've
24 stated, has started this tremendously rapid decline in late
25 '85, and we, of course, wouldn't want to use that. This

1 rapid decline is due to liquid logging. It doesn't accu-
2 rately depict what the Mesaverde is capable of producing.

3 MR. CATANACH: I think that's
4 all the questions I have at this time.

5 Are there any other questions?

6 MR. LYON: I have some ques-
7 tions.

8 MR. CATANACH: Mr. Lyon.

9
10 QUESTIONS BY MR. LYON:

11 Q I'm Vic Lyon, Chief Engineer for the Di-
12 vision.

13 Mr. Pippin, do you intend to conduct de-
14 liverability tests in this well?

15 A Yes, I believe we have to conduct a de-
16 liverability test every two years. I'm not certain on that.

17 Q Okay, and how do you -- how do you pro-
18 pose to -- to assign deliverabilities to the two formations,
19 two pools?

20 A I'm not real certain on this. I believe
21 when a deliverablity test is given to a commingled well
22 there is one deliverability assigned to the well. Then we
23 allocate the production from that deliverability to the sep-
24 arate zones using the allocation formula which I hope to
25 work out with the District Office.

1 Q And which pool does that deliverability
2 go to?

3 A Which pool.

4 Q Since you say it's assigned one deliver-
5 ability.

6 A The individual well would be assigned a
7 deliverablity.

8 Q To which pool?

9 A I'm not sure that it would go to either
10 pool.

11 Q Well, would you have --

12 A Only -- only the allocation would go to
13 the individual pool. I'm -- I'm not sure of your -- of the
14 state rules on that.

15 Q Well, do you realize that the -- that the
16 pools have separate allowables?

17 A Yes, I'm aware the pools have separate
18 allowables and we would follow whatever rules apply to com-
19 mingled wells.

20 What I'm trying to do here real basically
21 is save the Mesaverde reserves which I believe are there and
22 if we don't commingle this well, we are going to lose the
23 Mesaverde reserves. They'll remain in the ground.

24 Q Would you be satisfied with having just
25 an acreage allowable for the well and no deliverability?

1 A This would be an acreage allowable for
2 the individual well rather than the pools?

3 Q Well, your acreage and deliverability is
4 assigned to your proration unit but the deliverability is
5 based on the deliverability of each of the two wells in mul-
6 tiple well units such as you have here.

7 A I think this well should be treated like
8 other commingled wells in the area. I'm not sure how
9 they're treated but I think this well should be treated the
10 same as, say, our Jicarilla G-9 Well is treated, or anyone
11 else's commingled well in the area.

12 Q I'm not sure how they're treated, either,
13 but I think it is of some concern in gas prorationing.

14 A I would not want to start anything new
15 here or deter from what's normally done when a well gets in
16 its later life and needs to be commingled.

17 Q But would you -- would you please send us
18 information as to how that is being done in your currently
19 commingled wells?

20 MR. CARR: On how what is being
21 done, the deliverabilities being allocated between the two
22 pools?

23 MR. LYON: Yes.

24 MR. CARR: Okay.

25 MR. LYON: How the allowables or

1 how the deliverabilities are determined and how the allow-
2 ables are handled.

3 MR. CARR: And may we confer
4 with the Commission if we get in trouble?

5 MR. LYON: Sure.

6 MR. CARR: All right.

7 MR. LYON: That's all I have.

8 MR. CATANACH: Are there any
9 further questions of this witness?

10 If not, he may be excused.

11 Is there anything further in
12 Case 9370?

13 MR. CARR: Nothing further.

14 MR. CATANACH: If not, it will
15 be taken under advisement.

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17 (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 (Commission) was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me 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. 9370, heard by me on May 11 1988.

David R. Catanot, Examiner
Oil Conservation Division