1	STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION			
2	STATE LAND OFFICE BLDG.			
3	SANTA FE, NEW MEXICO			
	12 September 1984			
4	COMMISSION HEARING			
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7	IN THE MATTER OF:			
8	Application of Caulkins Oil CASE Company for exemption from the New 8267			
9	Mexico Natural Gas Pricing Act. (NMPA)			
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11				
12	BEFORE: Commissioner Joe Ramey, Chairman Commissioner Baca			
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	TRANSCRIPT OF HEARING			
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15				
16	APPEARANCES			
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18				
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1 2 RAMEY: We will call Case MR. 3 8267. 4 MR. TAYLOR: This is the appli-5 cation of Caulkins Oil Company for exemption from the New 6 Mexico Natural Gas Pricing Act. AUBREY: May it please the 7 MS. Commission, I'm Karen Aubrey with the firm of Kellahin and 8 Kellahin, appearing with Tom Kellahin for the applicant. 9 I have one witness to be sworn. 10 11 (Witness sworn.) 12 13 May it please the Commission, I 14 have a brief opening statement. 15 Caulkins Oil Company has filed applications for exemption from the New Mexico Pricing Act 16 for five infill wells which are docketed under this case 17 number. 18 All these wells about which 19 testimony will be presented today were completed in 1983 and 20 applications for administrative approval were timely filed 21 with the Commission. 22 Caulkins is proceeding with 23 these applications at hearing today solely as a protective It is Caulkins position that the blanket measure. 24 order, Order R-1670-T, has justified the drilling of these 25

wells and that no further justification is required by statute.

In addition to the five applications for infill wells, there are three applications for replacement wells, about which we will put on testimony today.

For the convenience of the Commission and counsel, we have two exhibits. The first one, which is Exhibit One-A, that exhibits lists those cases, or those wells on which testimony was presented on March 7th and March 8th, 1984.

Exhibit One-B is a listing of those wells about which we propose to present testimony to-

In addition, we would ask to dismiss the application on one well, the Breech F lE. That well sells -- gas from that well is sold in interstate commerce and not subject to the New Mexico Natural Gas Pricing Act.

MR. NOBLE: I'd like some verification, I would like to find out if the Caulkins wells on Exhibit Number One-A are being considered today or pending for approval. They're under Case 8106, I believe, which was not noticed for today.

MS. AUBREY: Mr. Chairman, Exhibit One-A is provided solely for the convenience of the Commission, so that the 38 wells for Caulkins can be kept

As I understand it, the case under -- wells under Case 8106 have been taken under advise-

ment by the Commission. There was no motion to reopen those cases made by the Public Service Commission.

separate between the two cases.

 $$\operatorname{MR.}$ NOBLE: I think there was a motion to reopen which was granted by the Commission in Case 8106.

MS. AUBREY: Mr. Chairman, I don't have the case file with me today.

MR. NOBLE: The Motion to Reopen by the Public Service Commission was received by the Oil Conservation Division on April 25th, 1984.

There was also an Opposition to that Motion to Reopen filed by Caulkins in that case.

MS. AUBREY: In that event, Mr. Ramey, we will stand on the record in Case 8106. Mr. Verquer was our witness then, he is our witness today.

We can tender him for cross examination now in Case 8106 or we can incorporate cross on that case in the cross examination on the case we're presenting here today.

MR. NOBLE: Okay, that case was not noticed for today, that's my problem.

MR. RAMEY: Well, we evidently -- we evidently (inaudible). Case 8106 will have to be readvertised at some future Commission docket.

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                                                      8
                                 So
                                    that's the wells -- the
2
    wells in your Exhibit One-A are those covered by Case 8106.
3
                                MS. AUBREY: That's correct, Mr.
4
    Commissioner.
5
                                      RAMEY:
                                               And 8267 will be
                                 MR.
    those -- these five infill wells and three replacement
    wells.
                                 MS.
                                      AUBREY:
                                                 That's correct,
9
    sir.
10
                          CHARLES VERQUER,
11
    being called as a witness and being duly sworn upon his
12
    oath, testified as follows, to-wit:
13
14
                         DIRECT EXAMINATION
15
    BY MS. AUBREY:
16
                       Would you state your name, please?
             Q
17
                       My name is Charler Verquer.
             Α
18
                       Where are you employed, Mr. Verquer?
             Q
                        I'm employed by Caulkins Oil Company in
19
    Farmington, New Mexico.
20
                        What's your position with Caulkins Oil
             Q
21
    Company?
22
                       I'm Superintendent.
             Α
23
                       How long have you been with Caulkins Oil
             Q
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Since 1954.

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Company?

Α

E-R.

qualified, Ms. Aubrey.

Q Mr. Verquer, have you previously testified before the Commission and had your qualifications made a matter of record?

A I have.

Q Have you made a review and study of the infill and replacement wells that are the subject matter of Caulkins' application today and are you familiar with those?

A I am.

Q Are you also familiar with the certifications that were filed with the applications for exemption from New Mexico Pricing Act by Caulkins?

A I am familiar with them. They were filed from Denver.

Q Who were those signed by?

A Arnold -- Mr. Arnold Raedher. R-A-E-D-H-

MS. AUBREY: Mr. Commissioner,
I tender Mr. Verquer as an expert practical oilman and
operator.

MR. RAMEY: He is so

MS. AUBREY: Thank you.

Q Verquer, I would like to refer you to the applications that are on for hearing today. I believe that the way they're marked, the first five applications are all wells which are completed in the Basin Dakota, is that correct?

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A That is correct.

Q And the next five will be the same well numbers but completions in the Blanco Mesaverde.

A That is correct.

Beginning with what we've marked as Exhibit One, I'd like you to look at that and explain to the Commission what that document is and what the attachments to that document are.

A The first page is the application to drill filed with the BLM in Farmington.

The second page is the well completion log and the third page is an attachment to the second page, which is a cementing record.

The next page is the C-104, Authorization to Transport.

The next page would be the Gas Company of New Mexico's Notice of Gas Connection to that zone.

The next page is the C-102 plat that is filed with the Appliction to Drill, showing the well location of the new well. It also has the old well in that proration unit marked on that form.

The next page is a tabulation of the production of the old well and the new well, the old well and the infill well, if you will, from the time that the infill well was turned on the line through May of '84. I completed this set of exhibits early and I happened to miss the one in June or July so I didn't pick up the next two

months.

And the last page is the 9-section map identifying the proration unit with the dark outline in the center of the page and a circle around the old -- which identifies the old well, and the arrow pointing to the in-

fill well in that 320-acre proration unit.

O Mr. Verquer, let me refer yo

Q Mr. Verquer, let me refer you to the next to last page of Exhibit One. Did you prepare that production tabulation?

A I did.

Q Will you look at that, sir, and explain to the Commission whether or not that production tabulation indicates that the original well in the unit has not had its ability to produce into the pipeline restricted?

A It did not have its ability to produce into the pipeline restricted in any manner. In fact, the infill well has 150 days on and the original well, 176 for that period.

Q And those wells would be the 341 and the 341M Dakota.

A That is correct.

Q Mr. Verquer, from your examination of the Caulkins records and your knowledge of the drilling of these wells, can you testify whether or not these wells were drilled for reasons other than avoiding the Pricing Act?

A They were.

Q And what was that reason?

Q

A To develop new reserves.

Q Mr. Verquer, were you involved in the decision to drill these wells?

A Yes, ma'am, I was.

Q Will you describe that, your involvement in that decision?

A We set this up, in fact we have a "head of state" meeting, if you will, in the next week or two setting up our 1985 program, and our general procedure is that the treasurer of the company comes down and tells -- with an idea of how much money we will spend in this next year development program, and then I make my recommendations of how many wells and where they should be drilled by picking out -- we're getting our acreage pretty well developed but we just develop it in an orderly manner, and drill so many wells a year, and that's the way we set that up.

Q Mr. Verquer, would that be applicable to all of the wells which we're considering today, all the infill wells?

A Yes, every well.

Q As we discussed earlier, Mr. Verquer, Caulkins has certified that it has done nothing to reduce the ability of the original well on the unit to produce into the pipeline. Do you agree with that certification?

A That is correct, I agree.

Q Let me refer you, sir, to Caulkins Exhibit Number Two. Would you describe the well which that ex-

I did. Α

23 24

Does that exhibit show that the original Q well on the unit was on more days than the infill well?

25

Α It was.

Next is the C-102 showing the location of

25

1 the new well and the original well on that proration unit. 2 The next page is a tabulation of produc-3 tion from the time the infill well was turned on through 4 May, 1984. 5 Next page is the 9-section map showing 6 that proration unit in the center, identifying both the in-7 fill and the old well and the mile offset wells and operators. 8 Mr. Verquer, referring you to the produc-0 9 tion data containd in this exhibit, what conclusions can you 10 draw from that about the ability of the original well to 11 produce into the pipeline? 12 That the original well is on more time 13 than the infill well and that we are not restricting the 14 flow of the original well in any manner. 15 And what was the reason for drilling the Q original well? I'm sorry, the infill well? 16 To develop new reserves. 17 Let me refer you now to Exhibit Four. 18 Would you look at that and tell the Commission what well 19 that exhibit deals with? 20 This --Α 21 And what it contains. Q 22 Α This is for our Well No. 140M Dakota 23 zone.

The

Drill filed with the BLM.

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first page is the Application to

16 1 Second page is the completion report and 2 log. 3 Third page is a complete cementing re-4 cord, which should be attached to the first -- second page. 5 This is the C-104, the next page, Author-6 ization to Transport. 7 The next page is the Notice of Gas Con-8 nection. The next page is the C-102 form showing 9 both the infill well and the original well in that proration 10 unit, the footages from the line. 11 The next page is the tabulation of pro-12 duction report -- of production. 13 And the next page is the 9-section map 14 showing the proration unit, the original well and the infill 15 well. 16 Mr. Verquer, let me refer you to the production data in that exhibit. I understand that there is a 17 typographical error in days on of the original well for Feb-18 ruary of 1984, is that correct? 19 When I went back and checked the records 20 further, I found that both the original well and the infill 21 well should have been off for the seven days in February for 22 deliverability tests. They were shut in at the same time. 23 So that number should be 24 --0 24 Yes, that's --Α -- instead of 31 in February of 1984? 0 25

The

third

page attached to

the

second

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page is the complete cementing record.

Next page is the C-104, Authorization to Transport.

Next page is the Gas Company of New Mexico's Notice of Gas Connection.

Next page is the C-102 plat showing both the infill well and the original well in the proration unit.

The next page is the tabulation of production from the time that the infill well was turned on until -- through May, 1984.

And the next page is the 9-section map showing the proration unit and a mile offset all wells and operators.

Q Referring you to the production tabulation, Mr. Verquer, I notice that in January of 1984 the original well on the unit was shut in. Can you explain that?

A Yes. In the -- the original well, we have trouble keeping this well unloaded. It loads up with fluid. It is a commingled Mesaverde/Dakota and the -- it has a tendency to load up and due to inclement weather and a few other things, we weren't able to get that well to get back on the line throughout the month of January, and in fact, it extended up into the month of February.

Q Have you proposed any remedial work to be accomplished on that well in the future?

A I have -- I didn't on this one specifically. An offset well, I have set up right now for some re-

The second page is the well completion

cation to Drill as filed with the BLM.

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2 report and log.

The third page is attached to the second page, which is a complete cementing record.

The next page is the C-104, the Authorization to Transport.

The next page is the Notice of Gas Connection from the Gas Company of New Mexico.

Next page is a C-102 showing both the original well location and the infill well location.

Next page is a tabulation of the production of the infill well and the original well from the time that the original -- excuse me, from the time that the infill well was drilled, was turned on through May, 1984.

The next page is the 9-section map showing the proration unit, the infill well and the original well, and offset operators.

Q Did you prepare that production tabulation?

A I did.

Q And this would be production for the Blanco Mesaverde only, is that correct?

A That is correct.

Q Can you draw conclusions about the ability -- any restriction of the ability of the original well on the unit to produce into the pipeline from that exhibit?

A This well has not had its ability to produce into the line in any way restricted.

1 Does that exhibit show that the original Ο 2 well in the unit, the original 341, produced more days than 3 the infill well in the Blanco Mesaverde? Α It does. 5 Can you tell us why the infill well on Q 6 that unit was drilled? 7 To develop new reserves. 8 Will you look at Exhibit Seven, please, Q Mr. Verquer? 9 The next exhibit is our Well No. Α Okay. 10 307M. 11 On the first page is the Application to 12 Drill as filed with the BLM. 13 The next page is the well completion re-14 port and log. 15 The next page is the complete cementing 16 record as attached to the second page. The next page is the C-104, the Authori-17 zation to Transport. 18 The next page is the Notice of Gas Con-19 nection from the Gas Company of New Mexico. 20 The next page is the C-102 showing the 21 proration unit, the infill well and the original well, their 22 lcoations. 23 The next page is a tabulation of produc-24 tion from the time the infill well was turned on through 25 May, 1984.

1		22	
2	The	next page is the 9-section map show-	
3	ing the proration uni	t, the infill well and the original	
4	well, and the all t	he offset operators.	
5	Q Wit	h regard to the 307 and the 307M, Mr.	
	Verquer, what conclusions can you draw from the production		
6	tabulation attached to Exhibit Seven?		
7	A Th	e 307 original well is on nearly con-	
8	stantly and it is on more days on than the infill well.		
9	Q Has	Caulkins done anything to affect the	
10	ability of the 307 Wel	l to produce into the pipeline?	
11	A It	has not.	
12	Q Ca	n you tell me why the infill well on	
13	that unit was drilled?		
	A To	develop new reserves.	
14	Q Le	t me refer you to Exhibit Eight.	
15	Please review that for	us.	
16	A Ok	ay. That's for our Well No. 229M,	
17	Mesaverde zone.		
18	The	first page is the Application to	
19	Drill as filed with the BLM.		
20	Nex	t page is a well completion report and	
21	log.		
22	Thi	rd page is part of page two, which	
	shows the complete cem	enting record.	
23	Nex	t page is the C-104, Authorization to	
24	Transport.		
25	The	next page is Notice of Gas Connection	

from Gas Company of New Mexico.

And the next page is the C-102 showing the proration unit, the original well and the infill well.

Next page is a tabulation of production from the infill well and the original well from the time the infill well was turned on through May of 1984.

Next page is the 9-section map showing the proration unit, the original well, the infill well, and all the wells offsetting and also the operators.

Q Let me refer you to the production tabulation, specifically the month of December, 1983, and April of 1984.

Can you explain the lower production days for the original well?

A I searched the records over for the four days difference in December between the two wells and I -- I could not come up with an answer to that. Somehow or another our records and the Gas Company agree but we couldn't find out why that original well was turned off those four days.

Then in April the -- it is listed as X-91, which is Gas Company of New Mexico's gas load, as they call it on their code sheet.

And what does that mean, if you know?

A Well, I'm sure it's their market, that they have too much gas and they just shut it in, but they have a code sheet says X-91, and that's why I said their gas

load.

Q What conclusions can you draw from the production tabulation about any action taken by Caulkins to restrict the original well in its ability to produce into the pipeline?

A There is no --no action taken by Caulkins to restrict the original well in any manner.

Q Can you tell us why the infill well was drilled on that proration unit?

A To develop new gas reserves.

Q Let me refer you to Number Nine, Mr. Verquer. Which well does that apply to?

A This is for the Mesaverde zone in our Well No. 140M.

The second page is the completion report and log.

Third page is the continuance of page two and which is the complete cementing record.

 $\label{eq:continuous} \mbox{The next page is C-104, Authorization to} \\ \mbox{Transport.}$

Next page is Gas Company of New Mexico's Notice of Gas Connection.

Next page is C-102, which shows the proration unit and the location of the original well and the infill well.

1 25 Next page is a tabulation of production 2 from the time the infill well was turned on until -- through 3 May, 1984. And the next page is the 9-section map 5 showing the proration unit, original well and the infill 6 well, all offset operators and all wells (not understood.) 7 Let me refer you to the production tabu-8 Does this tabulation for the 130M in the Mesaverde lation. 9 contain the same typographical error we discussed with regard to the 140M in the Basin Dakota? 10 That is correct. Α 11 So that would be February of '84 should 0 12 read 24 days on on the infill well as opposed to 31 days. 13 Yes, and 24 days for the infill well. Α 14 What conclusions can you draw from the 0 15 production tabulation about Caulkins restriction of 16 ability of the original well on the unit to produce into the 17 pipeline? That the original well was not restricted 18 Α in any manner by Caulkins. 19 0 And what was the reason for drilling the 20 infill well? 21 Α To develop new gas reserves. 22 Let me finally refer you to Exhibit Num-Q 23 ber Ten, Mr. Verquer, and which well does that cover?

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This is for the Mesaverde zone of our 62M Α

Well.

port and log.

The first page is the Application to Drill as filed with the New Mexico Oil Conservation Division.

The second page is a well completion re-

Third page is attached to the second page as a complete cementing record.

Next page is a Gas Company of New Mexico Notice of Gas Connection.

The next page is a C-102 showing the well location of the original and the infill well.

The next page is a tabulation of production for the infill well from the time it was turned on through May.

The next page is the 9-section map showing the offset operators, the location on that proration unit of the original and the infill well.

Q Mr. Verquer, referring to the production tabulation, Exhibit Ten, shows that the original well in the unit was shut in for the month of January, 1984.

A This has exactly the same days on and days off on the original well as the Dakota zone and that is because this well is commingled in the Mesaverde/Dakota zone in the original well, so therefore its days off are -- were for the same reason as the Dakota. The well was logged off

the full month of December -- excuse me, January, and part of February.

Q Mr. Verquer, do you conclude from that production tabulation that Caulkins has done nothing to restrict the ability of the original well on the unit to produce into the pipeline?

A We can, yes.

Q And can you tell us why the infill well on that unit was drilled?

A The infill well was drilled to develop new reserves.

Q Let me ask you a couple of general questions about the infill wells before we go on to the replacement wells.

The production tabulations on your exhibits go through May of '84. Can you testify before the Commission that since May of '84 Caulkins has done nothing to restrict the ability of the original wells on these proration units to produce into the pipeline?

A That is correct. In fact, we have a company policy, the Gas Company of New Mexico, as we heard in previous testimony, will call and want a well shut in, and our company policy is if they want the original well shut in and don't say anything about the other, we shut both wells in.

Q Now what do you do if they want you to shut the -- or turn the infill well on when the original

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If they don't want the other well on, don't turn either one of them on. Mr. Verquer, were all the infill wells in the five proration units we've discussed today drilled pursuant to -- I'm sorry, the ten proration units we've discussed today, drilled pursuant to the blanket infill drilling order issued by the Commission? They were. Order 1670-T and 1670-V. That is correct. Let's go to the replacement wells now. Let me refer you to Exhibit Eleven. Can you explain what that exhibit consists of? This is for our Well No. -- Replacement Well No. 235R, which replaced a Pictured Cliff -- the Pictured Cliff zone in our Well No. 235. And the first page just gives the -- it gives the well location of the new well, which is 1070 from the north and 920 from the east, and the location of the original well, which was 990 from the north and 1800 from the east. So the replacement well would be in the same 160 as the original well?

Α That is correct; just in a different quarter, quarter quarter section.

> When was the original well on Q the unit

that tubing to remove the obstruction, but the tubing was

dropped in the dry hole and we fished for that tubing but we could only get it cleaned to 2730, which left 21 joints of l-inch tubing in the hole.

We reran the 1-inch tubing to 2726 at that time and turned it back on the line.

Q Will you look at your Exhibit Number Eleven, Mr. Verquer, and tell us when the original well stopped producing?

A When it stopped producing?

Q The original well on the unit.

A Well No. 235, I have a tabulation on the production. Cumulative production through 1973 was 719,479,000, and 1974 it produced 23,000,000. This is annual production, 23,481,000; in '75, 18,180,000; 1976, it produced 11,580,000; '77, 16,023,000; in 1978, it produced 3,927,000.

It actually -- in January of 1978 for the last year of production there it only produced 133,000. February it produced 1,175,000; March, 1,000,000; April, 603,000; May, 588,000; June, 276,000; and July would be the last production of 162,000 for the month of July.

Q Was the replacement Well 235R drilled be-

A That is correct.

Q Let me refer you back to the exhibit, Mr. Verquer. Can you tell the Commission when the original well on the unit was plugged and abandoned and when the 235R was

connected to the pipeline?

A Okay. The 235 Well, a rig was moved in on August 11th of 1978 and pulled the tubing.

On the 12th we spotted the plug and on -that's on August the 12th, and August the 15th the monument
was installed.

Then the 235R Well was spudded on June the 21st of '78, but it was turned onto the line on January the 25th, 1979.

Q But the 235 Well was plugged and abandoned prior to the spudding of the --

A It was plugged and abandoned prior to turning the gas --

Q Prior to turning on the new well. Right?

A Right.

Q Okay. Can you tell us what the cost was of replacing the 235 Pictured Cliff with a new well?

The cost of replacing 235 as allocated from the total cost of the new well was \$46,856.90. That was done in our -- that figure came from our office in Denver in accounting.

We do, in other words, we drilled our Chacra Well and completed both the Chacra and the Pictured Cliffs in this well.

Q This is the cost attributable to the Pictured Cliff.

A The cost -- this cost was just for the

32 1 Pictured Cliff, \$46,856. 2 Let me refer you now to Exhibit Twelve. 3 Which well is that for, Mr. Verquer? 4 That's for our Well No. 220R, and it's --Α 5 which is located 1750 from the east and 944 from the north 6 of Section 14, 26, 7, Rio Arriba County, New Mexico. 7 The original Well 220 was located 990 8 from the north and 990 from the east of Section 14, 9 North, 7 West, Rio Arriba County, New Mexico. Can you go through that exhibit and tell 0 10 the Commission what the documents attached there are? 11 Okay. I have the Application to Drill. Α 12 The first thing I have is the Application to Plug and 13 Abandon the 220 Well, which gives a well history and where 14 the pipe is cemented and how. 15 Α 9-section map showing the 16 location. The next page is the Application to Drill 17 the replacement well, the 220R. 18 The next page is the well completion 19 report for the Pictured Cliff zone on the 220R. 20 The next is the -- when we spudded the 21 220R. 22

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well

The next is the C-104 showing the Authorization to Transport.

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The next one is Gas Company of New Mexico's Report of Gas Connection.

1 33 I also have -- I gave that, I'm sorry. 2 And you have production history for the 0 3 220? Yes, I also have -- it is attached, Α 5 should be attached to that, is the plugging information on 6 the 220 on a sundry notice as filed with the BLM and the 7 producton report tabulation of the cumulative production and 8 when the well --9 Was the 220R drilled because the 220 suf-O fered some downhole mechanical failure? 10 220R was drilled actually to the Dakota Α 11 formation and since we did have mechanical problems with 12 220, we opened the Pictured Cliffs zone in the 220R Well to 13 replace it, and plugged the original well. 14 Can you look at Exhibit Twelve and tell Q 15 the Commission when that exhibit shows that the 220R went on 16 line? 17 Α The 220R was turned on the line December the 27th, 1979. 18 0 And does that exhibit show when the 220 19 was plugged and abandoned? 20 Α I have an exhibit that shows that the 220 21 was plugged and abandoned on April the 2nd, 1980. 22 Mr. Verquer, can you explain to the Com-23 mission why that well was not plugged and abandoned within 24 the sixty days required by Order R-5136 for replacement 25 wells?

A At the time of the year the -- at that time of the year in this particular instance the roads were just practically impassable in that area and I had a standing order for a rig to come in just as quick as the roads were -- were to where we could get in and it was April the 2nd when I finally made the connection to get them in there.

Q Mr. Verquer, can you explain for the Commission the topographical location of the 220R -- I'm sorry, the 220 Well?

A All of our roads are considered primitive but the road to the El Paso Camp, which would be the closest all-weather road that you -- is about four miles from this location, and it is a gravel road, and from there on down this little valley to -- and this 220 is located at the end of the road, it's just a trail, if you will, and when it was -- it's on the north side of a canyon wall and above Largo Canyon, it's on a different -- up on a mesa above Largo Canyon and there's only one way to get into it other than flying in there with a helicopter, and that was the extent of it. It's just -- when it's muddy, the roads are just impassable.

Q In your opinion, Mr. Verquer, did Caulkins make a reasonable effort to comply with the 60-day requirement of Order R-5136?

A We feel we did, yes.

Q Let me talk to you for a minute about the connection of the 220R to the pipeline. Was there some

reason why you couldn't wait to connect that well to pipeline until you could get in and plug and abandon the 220?

This Pictured Cliff in Α Yes, there was. that zone is also commingled with the Chacra and Mesaverde. There's three zones commingled and the order for commingling so states they shouldn't be shut in over seven days and we did turn the well on. In fact, we walked in to turn it on.

0 And that's because of the requirements of Order R-5926.

Yes. Also, in all fairness, we were an-Α xious to turn the well on, too, but we did need to get it on.

Mr. Verguer, does your Exhibit Twelve 0 show the cost of replacing the Pictured Cliffs in the 220R?

It shows the cost of replacing the Pic-Α tured Cliff as \$68,289.04.

Q Let me refer you to the production tabulation attached to Exhibit Number Twelve, which is a production tabulation for the 220 Well. I'd like to refer you to 1980 on that tabulation and have you explain to the Commission why that well shows production in 1980.

First, on this exhibit there's another 1980 does have 2,297,000. Then I supposedly had a error. monthly production by month on there but we show it as 1979. That should be a 1980 down below there.

January of 1980 it produced 628,000.

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February it produced 865,000. March it produced 731,000, and April it showed 173,000. The 173,000, Gas Company of New Mexico changes their charts on the 25th of the month, so the 173 would actually be from the 25th of March through April the 2nd when we got down there with the rig and turned -- and shut that well in and plugged it.

Q So Caulkins allowed the original well on the unit to produce even after the replacement well had gone on line, is that right?

A It was. Maybe inadvertently, but it was on.

Q Let me refer you to Exhibit Number Thirteen, Mr. Verquer.

A Okay.

Q Tell the Commission what well that refers to and go through the documents that are attached.

A This is for the Pictured Cliffs zone of our 307M, located 1120 from the south and 1520 from the east of Section 13, 26 North, 7 West, Rio Arriba County, New Mexico, and it's to replace Well No. 310, located 965 from the south and 1125 from the east of said Section 13, 26, 7.

Q This is the third time today we've heard about the 307, is that right?

A That's correct.

Q Can you describe what kind of problems you had on 310, Mr. Verquer, that required you to drill a replacement well?

A The 310 Well, I don't have a real good copy of that. On our well history the 310 was spudded in October of '58, October 16th, and it was drilled to 2475 and cemented with -- 5-1/2 casing was cemented with 200 sacks.

They did not run a temperature survey but the calculated top was 1395.

It was completed, ready to produce through perforations 2356 to 2390 in October 21st of 1953.

The initial potential run showed 1,541,000 Mcf a day.

There was a casing failure detected March the 19th, 1965 and in June of '65 a plug, bridge plug, was set in the 5-1/2 casing at 2287 and found the bad casing from 1160 to 1410. It was cemented, squeezed that, they ran a cement retainer at 1103 and squeezed with 200 sacks, drilled out to 1360, and then the 11th they ran a retainer to 1073 and squeezed with 100 sacks again, and the final pressure was -- after drilling out was 1100 pounds. They drilled out that other retainer set at -- and checked the casing 600 pounds for thirty minutes, and it held okay, so they drilled out the bridge plug at 2287 and cleaned out to 2390, and inch and a quarter tubing was run at 2376 and they started unloading it daily with gas. This is June the 17th of '65.

June the 18th of '65 through July 13th of '65 we just unloaded daily with gas but the formation was still loaded with water.

So July 13, '65 through October, '65, we flowed it intermittently and unloaded with gas.

It was October, '65 before we got it back on the line.

Then in 1980 we detected another leak in it and we ran 2-3/8ths tubing with a packer set at 2200 to shut off the leak in the casing again.

Then we ran 1-inch tubing inside the 2-3/8ths and attempted to flow this well each -- each month to unload the water but it was logged off.

Then I have an annual production from .

1958 through 1982. 1983 there was no production on it and when we set up the 207M Well to be drilled to the Dakota zone, in that same 160, we proposed to plug and abandon the 310 Well, open up the Pictured Cliff in the 307 Well.

Q So the 307 is completed in the Mesaverde, the Basin Dakota, and Pictured Cliff.

A And one more, the Chacra.

Q Is it your testimony, Mr. Verquer, that the 310 suffered from both formation damage and mechanical failure prior to the plugging and abandoning that well?

A That is correct.

Q Let me refer you back to your Exhibit Number Thirteen. Can you look at that and tell the Commission when the 310 was plugged and abandoned?

A I've got it here somewhere. The 310 was plugged on August the 2nd, 1983.

1 And when was the 307M in the Pictured Q 2 Cliffs connected to the pipeline? 3 It was turned on the line November the 4 16th of '83. 5 Mr. Verquer, in connection with all three Q 6 replacement wells about which you've testified today, can 7 you state for the Commission that the replacement wells were 8 drilled to replace wells which had been lost for effective or commercial production because of mechanical failure or 9 formation failure? 10 I can, yes. 11 And that they were drilled for reasons 12 other than avoiding the provisions of the New Mexico Natural 13 Gas Pricing Act? 14 I can. Α 15 MS. AUBREY: Ι have no more 16 questions of the witness. 17 MR. RAMEY: Any questions of Mr. Verquer? 18 MR. NOBLE: I have a few. 19 MR. RAMEY: Mr. Noble. **20** MS. AUBREY: Mr. Chairman, I 21 forgot to move the introduction of my exhibits. I tender 22 Exhibits One through Thirteen. 23 MR. RAMEY: Exhibits One 24 through Thirteen will be admitted. 25

40 1 CROSS EXAMINATION 2 BY MR. NOBLE: 3 Mr. Verquer, who within Caulkins is O 4 of filing and keeping track of what filings were charge 5 necessary before the OCC? 6 Pardon me, but on this Natural Gas 7 Pricing Act, that has been done through Denver, Mr. Arnold 8 Raedher. Could you please define or explain what 9 you think is meant by restricted or restriction of a well in 10 the context of Order 5436? 11 Α By placing a choke or shutting the well 12 in arbitrarily just to cut its flow. 13 With respect to the wells which are being 0 14 considered today, was an original well ever shut in by your 15 field personnel for a purpose other than making required 16 production tests? 17 Α Yes. And what were the reasons for those shut Q 18 ins? 19 Α If a well is logged off it's essentially 20 shut in them, but they would go in and shut it in because it 21 will seep off a little bit. They'll shut the thing in 22 manually and let it pressure up and then unload the well to

get the fluid out of it after that pressure builds up.

So it's essentially shut in by

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pipeline.

A Supposedly, because of pressures.

Now, if you're asking whether we shut it in or they did, we have switchers that go out and check those wells every day. Well, they don't make every well every day, but when they find one logged off, they normally shut that well in and so code the charts the well was shut in by the operator, and we -- for being logged off, they have a code number for being logged off, and we shut that thing in and let it pressure up, sometimes as high as seven days before we open it up again and unload it to the atmosphere to get rid of the fluid.

Q Back in March you testified that Well No.

123 was shut in, which was an original well. It was shut in
by field personnel for a couple months inadvertently.

Has that occurred with any of the wells you're applying for exemptions for today?

A I'm sorry, will you --

Q Back on March you testified that there was one well, it was Well No. 123, which was shut in inadvertently for a couple of months.

Could that have occurred with any of the wells you're seeking exemptions for today, any of the original wells that --

A I don't think so, no. That, I remember making that comment in that hearing in May. I'd have to go back and look at the exhibit, but I think that that well was shut in because the tank was full on 123, the original well.

1		42		
2	Q	Are you familiar with State B Com 233E?		
3	Α	I am.		
4	Q	Can you tell me when that was drilled		
	(inaudible)?			
5	A	In 1983.		
6	Q	And do you know who the buyer from that		
7	well is?			
8	А	Gas Company of New Mexico.		
9	Q And can you tell me what the name of the			
10	original well on that proration unit is?			
11	Α	233.		
12	Q State B Com 233?			
13	A	Yes.		
	Q	Were you responsible for filing an exemp-		
14	tion on that well?			
15	A	Negative. That was done out of our Den-		
16	ver office.			
17		MR. NOBLE: Those are all the		
18	questions I have.			
19		MR. RAMEY: Any other questons		
20	of Mr. Verquer?			
21		MR. ALVIDREZ: I have a few		
22	questions, Mr. Chairman.			
23				
		DIRECT EXAMINATION		
24	BY MR. ALVIDREZ:			
25	Q	Are you familiar with, I believe the name		

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1 43 is Carol Keaton? 2 Yes, I am. 3 And does she have any responsibility for 4 filing these applications for exemption? 5 She is Mr. Raedher's secretary and 6 may be the one that is responsible. I'm not sure, but he is 7 -- he is the Treasurer of our company and he is the one that 8 signs the applications. 9 Now to your knowledge have any applications for exemptions been filed previous to this time for 10 any wells operated by Caulkins? 11 Α The ones that were filed in this long 12 case that we had in May were the first ones we ever filed. 13 Is that May of '84? 14 Α We had the hearing in May. They were 15 filed, I believe, earlier than that. 16 AUBREY: I think he's MS. 17 referring to the March hearing. I think they were filed the end of 1983. 18 You're not aware of any applications hav-Q 19 ing been filed previous to that time? 20 Α Not previous to this group which was 21 filed all in one group. 22 I'd like now to direct your attention to 23 what is Caulkins Exhibit Eight, and basically the production 24 schedule that's included in that exhibit. 25 Q Which -- which -- I'm sorry.

1		44
2	Q I'd li	ke you to turn to the production
3	schedule included in that e	exhibit, basically comparing the
4	old well versus the infill	well production.
5		that sheet, if I'm not mistaken,
6		es are reflected on my left.
7	A That is	
8	Q The infi	Ill wells are on the right. And I
}	enim you deperited earlier	that on the basis of the number
9		e wells has produced you drew the
10		on in the old well had been re-
11		
12	: }	correct, I believe.
13	3	e for you to compare now, not the
14	,	well produced, but rather the vol-
15	ume of production each well	-
16		it indicate that the infill pro- the amount the original well did
17	duced three to rour times	
18		e are you looking at?
		it, I'm looking at the bottom fi-
19	gure.	,
20	A No, I me	eant which well number?
21	1	t, it's 229 and 229M. That's in
22		
23	,	question.
24		stion my question is doesn't

this tabulation indicate the production from the infill is

1		45	
2	much greater than	the production from the original well,	
3	notwithstanding th	ne original well is producing for more	
4	days?		
	A	That's correct.	
5	Q	What accounts for that difference?	
6	А	The new well is is some twenty years	
7	younger than the	other one there. At the time if you	
8	compared production	n for the same time, or the original well	
9	in the first six or	eight months, you would find that that	
10	well's production was that way, also.		
11	Q	All right. Now I direct your attention	
12	to, on the same ex	khibit, figures for the month of November	
13	29, 1983.		
i		As to the old well, I believe the produc-	
14	tion is reflected a	as being 1599 Mcf, is that correct?	
15	A	I'm not on the same sheet with you.	
16	Q	I'm using the same sheet that I've been	
17	referring to all a	long.	
18	A	Basin Dakota.	
19	Q	This is in the Mesaverde.	
20	А	All right.	
21	Q	And it's Exhibit Eight, Well 229.	
22	A	Okay. That is correct.	
23	Q	All right, and during that same time it	
	indicates that the	infill well was shut in, is that correct?	
24	А	That is correct.	
25	Q	And the first month that we had produc-	

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A That -- that will restrict all wells the new wells have more pressure, shut-in pressure than the old wells, so consequently, they would produce into the line at a higher pressure.

So consequently by drilling an infill it has the effect of restricting production from the old well, is that correct?

Very possibly you are correct because the Gas Company is only going to buy so much gas from us, any-

Have you got that exhibit before you? Q

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A

Yes, I have.

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I think we see the same Q phenomena in

48 1 this, that as soon as the infill well was opened up, produc-2 tion in the old well dropped down almost 50 percent, is that 3 correct? 4 Α That is correct. 5 And production, total production through 6 November of '83 to May of '84 was approximately three times 7 as great from the infill well as it was from the original 8 well, is that correct? That is correct. 9 Notwithstanding the fact that the origi-Q 10 hal well was producing more, a greater amount of days, is 11 that correct? 12 That's right. Α 13 Do you have any explanation as to why 0 14 this particular old well producing from the Dakota formation 15 decreased almost by 50 percent as soon as the infill well 16 was opened up? 17 I have no answer to that. I do know that the original well is commingled with the Mesaverde and Dako-18 ta and that is the reason that the percentages are the same 19 on the original well. 20 The same kind of a drop. They're exactly 21 the same kind of a drop. 22 Q Both formations are commingled and not 23 separate in this well. 24 No, they're not. Α 25 Q All right. Just briefly I want to touch

49 1 on your policy, the policy you talked about. 2 I take it that all these wells, the gas 3 from these wells is sold to Gas Company of New Mexico, is 4 that correct? 5 Α Every one of them, yes, sir. 6 And when Gas Company of New Mexico 0 7 has need for gas and they request that a well be shut 8 it correct that you shut in not only the original well but the infill well, also? That is correct. Now, just a second. 10 We, if they only want the infill well shut in, we will shut 11 it in, because we have commingled wells, such as this one we 12 just touched on that shouldn't be shut in over seven days. **13** The infill well can be shut in because it 14 is a dual completed well and it's only one formation. 15 But if they want the original well 16 in and leave the infill well shut in -- I mean leave the in-17 fill well on, we arbitrarily go shut that infill well also, in that zone. 18 And this is Caulkins policy. Q 19 Α That is Caulkins -- that is my policy. 20 That is your policy. Q 21 Α That is correct. Due to -- due to this 22 questioning that you're running right now. 23 How long has this policy been in effect? Q 24 It has been in effect since the first day 25 of July 1984.

1	50		
2	Q So previous to July of 1984, which I		
3	guess is the period for which the Natural Gas Pricing Act		
	was effective, this policy was not in effect.		
4	A No, we never even give it a thought.		
5	Q I see. Is this a written policy?		
6	A Negative.		
7	Q Simply a policy of		
8	A You know, you're looking at the company		
9	right now, so		
10	MR. ALVIDREZ: I have no fur-		
11	ther questions.		
12	MR. RAMEY: Any other questions		
13	of Mr. Verquer?		
	The witness may be excused.		
14	Do you have anything further?		
15	MS. AUBREY: Nothing further,		
16	Mr. Ramey.		
17	MR. NOBLE: Nothing further.		
18	MR. RAMEY: We'll take Case		
19	8267 under advisement and the hearing is adjourned.		
20	MS. AUBREY: Mr. Commissioner,		
21	we do have a proposed order in Case 8267.		
22			
23	(Hearing concluded.)		
24			
25			

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CERTIFICATE

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.

Song W. Bayd Cor

1 2 3	STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO			
4	17 July 1984			
	COMMISSION HEARING			
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6				
7				
8	IN THE MATTER OF			
9	Application of Caulkins Oil Company CASE for exemption from the New Mexico 8267 Natural Gas Pricing Act (NMPA).			
10	,			
11				
12	BEFORE: Commissioner Joe Ramey, Chairman			
13	Commissioner Ed Kelley			
14	TRANSCRIPT OF HEARING			
15	TRANSCRIPT OF HEARING			
16				
17	APPEARANCES			
18				
19				
20	For the Oil Conservation W. Perry Pearce Division: Attorney at Law			
21	Oil Conservation Commission State Land Office Bldg.			
22	Santa Fe, New Mexico 87501			
	For the Applicant:			
23				
24				
25				

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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.

Sleey W. Boyd COR