

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO

23 July 1986

EXAMINER HEARING

IN THE MATTER OF:

Application of Yates Petroleum Cor-      CASE  
poration for hardship gas well      8947  
classification, Eddy County, New  
Mexico.

BEFORE: Michael E. Stogner, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation Division:	Jeff Taylor Attorney at Law Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501
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For the Applicant:	Scott Hall Attorney at Law CAMPBELL & BLACK P.A. P. O. Box 2208 Santa Fe, New Mexico 87501
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## I N D E X

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DAVID BONEAU

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Direct Examination by Mr. Hall

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Cross Examination by Mr. Stogner

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STATEMENT BY PAUL BURCHELL

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## E X H I B I T S

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Yates Exhibit One, Application

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Yates Exhibit Two, Daily Report

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Yates Exhibit Three, Curve

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Yates Exhibit Four, Plat

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MR. STOGNER: Call next Case  
Number 8947.

MR. TAYLOR: Application of  
Yates Petroleum Corporation for hardship gas well  
classification in Eddy County, New Mexico.

MR. STOGNER: Call for  
appearances.

MR. HALL: Mr. Examiner, my  
name is Scott Hall from the Campbell & Black law firm in  
Santa Fe, on behalf of the applicant, Yates Petroleum.

MR. STOGNER: Are there any  
other appearances?

MR. BURCHELL: Yes, Mr. Exam-  
iner. I'm Paul Burchell with El Paso Natural Gas Company.  
I'm in their Production Control Department in El Paso,  
Texas.

We'd like to make an appearance  
in this case.

MR. STOGNER: Are there any  
other appearances?

MR. HALL: Mr. Examiner, we  
have one witness to be sworn this morning.

MR. STOGNER: Will the witness  
please stand and raise your right hand and be sworn at this

1 time?

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(Witness sworn.)

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MR. STOGNER: Mr. Hall.

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DAVID BONEAU,

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being called as a witness and being duly sworn upon his

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oath, testified as follows, to-wit:

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DIRECT EXAMINATION

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BY MR. HALL:

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Q For the record please state your name and

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place of residence.

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A My name is David Boneau. I live in

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Artesia, New Mexico.

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Q Mr. Boneau, by whom are you employed and

18

in what capacity?

19

A I'm employed as Engineering Manager at

20

Yates Petroleum Corporation.

21

Q And, Mr. Boneau, have you previously tes-

22

tified before this examiner and had your qualifications ac-

23

cepted?

24

A Yes, sir.

25

Q Are you familiar with the application

1 filed in this case and the subject well?

2 A Yes, sir.

3 MR. HALL: Mr. Examiner, are  
4 the witness' qualifications acceptable?

5 MR. STOGNER: Yes, they are.

6 Q All right. Mr. Boneau, I'd like for you  
7 to first refer to Exhibit Number One and explain what it is  
8 Yates Petroleum has applied for and what this exhibit is in-  
9 tended to reflect.

10 A Exhibit One is the application for hard-  
11 ship gas well classification in this case. What Yates seeks  
12 is hardship gas classification for a well called Box Canyon  
13 Unit No. 2 in Section 13, 21 South, 21 East, of Eddy County,  
14 New Mexico.

15 Q All right, is there a plat contained  
16 within Exhibit One, showing the location of the well?

17 A Yes, sir, there is a such a plat. It is  
18 page five of Exhibit Number One.

19 Q All right, when was this application  
20 filed?

21 A This application was filed on June 20th,  
22 1986.

23 Q Was the application made to both the Dis-  
24 trict and Santa Fe offices?

25 A Yes, sir.

1           Q           Was an emergency hardship classification  
2 sought for the well?

3           A           No, sir. Yates did not seek an emergency  
4 hardship classification for this well.

5                       El Paso Natural Gas told us that it would  
6 take the gas from the well while the hardship application  
7 was processed and Yates -- and El Paso has been kind enough  
8 to have done this during an interim period.

9                       Yates feels there is an emergency in the  
10 sense that the well acts as if it cannot be killed and re-  
11 started many more times.

12          Q           All right. Were copies of this applica-  
13 tion sent by certified mail to all offset operators and the  
14 transporter or purchaser?

15          A           Yes, sir. Page six of Exhibit One is a  
16 list of those six offset operators. The application was al-  
17 so sent to Ray McClure at El Paso.

18          Q           All right, Mr. Boneau, in what pool is  
19 this particular well completed?

20          A           This well produces from the Little Box  
21 Canyon Morrow Gas Pool.

22          Q           All right, is this a prorated pool?

23          A           No, this is not a prorated pool.

24          Q           What acreage is dedicated to the well?

25          A           As shown on page five of Exhibit One,

1 that plat, the acreage dedicated to the well is the 320 ac-  
2 res that covers the west half of Section 13, and it's  
3 colored in orange on that plat.

4 Q And that's a standard proration unit, is  
5 it not?

6 A Yes, sir.

7 Q Does that plat also show the offsetting  
8 operators?

9 A It shows the offsetting operators. The  
10 plat is not quite as up to date as the list on page six. If  
11 you try to correlate them one for one, you need to know that  
12 what's listed as King Resources on the plat is now Vintage  
13 plus Twin Eagle on the up to date list, and you also need to  
14 know that Union of Texas covers what's listed on the plat as  
15 Allied and Union.

16 Q Okay.

17 A They are the same list; it's just  
18 companies keep changing faster than the plat can keep up.

19 Q Did the notice you sent out to these  
20 offset operators also contain the minimum sustainable  
21 producing rate which you are seeking in this case?

22 A The notice we sent out said that we would  
23 seek 200 MCF per day as the minimum sustainable producing  
24 rate.

25 Q What's the actual rate you are seeking?

1           A           The actual rate that we want to talk  
2 about this morning is a minimum sustainable rate no less  
3 than 125 MCF per day. I think that's more supported by the  
4 facts that we'll see in this case.

5           Q           Okay. How did you derive that particular  
6 rate?

7           A           It will take a minute for me to get there  
8 but let's look at a little history and we'll get to the  
9 answer to that question.

10                    The Morrow, this Morrow reservoir has a  
11 water drive. The Box Canyon No. 2 has produced significant  
12 quantities of water since 1980.

13                    In July of 1980 Yates installed a  
14 compressor to keep the gas flowing in the presence of this  
15 water.

16                    By the end of 1985 the well had produced  
17 900-million cubic feet of gas. After water breakthrough  
18 production capacity was down to about 400 MCF a day and 100  
19 barrels of water a day, and that's what I mean by  
20 significant amounts of water. The well produces 100 barrels  
21 of water a day.

22                    So in 1986 market conditions have  
23 restricted production to one day a month and that's put a  
24 severe strain on the well's ability to unload and produce  
25 after those long shut-in periods.

1           In June El Paso agreed to produce the  
2 well continuously until the hardship application could be  
3 heard.

4           Okay, with that introduction I think I  
5 can answer the question.

6           On April 25th, 1986, the well produced 85  
7 MCF but could not sustain production.

8           On April 26th the well produced 91 MCF  
9 but could not sustain production.

10          On June 12th the well produced 77 MCF but  
11 could not sustain production.

12          So this recent data shows numbers like  
13 77, 85, 91, are lower than the minimum sustainable rate.

14          Since the time when El Paso allowed con-  
15 tinuous production, the well has stayed on line at rates of  
16 114 MCF a day on June 23rd; 115 MCF a day on June 14th and  
17 16th; 120 MCF a day on June 21st; 131 MCF a day on June  
18 29th; 138 MCF per day on July 12th.

19          The average rate during June and July has  
20 been 149 MCF a day.

21          So numbers like 115 to 135 are equal to  
22 or greater than this minimal sustainable rate, so we've got  
23 it bracketed to a pretty narrow range between 91 and 115 or  
24 91 and 135, and my conclusion is that the data pin it down  
25 to a minimum sustainable rate as being about 125 MCF per

1 day.

2 Q All right, why don't we refer to Exhibit  
3 Two now and why don't you identify that and indicate to the  
4 examiner what this is intended to show?

5 A Okay. Exhibit Two is a daily report for  
6 the well for 1986. It has six columns and is what, four  
7 pages long. The columns show a date, a tubing pressured, a  
8 choke size in 64ths of an inch, barrels of water produced to  
9 the stock tank, MCF produced and sold, and at the far right  
10 there's a place for remarks.

11 So Exhibit Two is simply a listing of  
12 those -- that data for each day of 1986. It's purpose is to  
13 show some of the things we've already talked about.

14 First of all, it details the minimum sus-  
15 tainable rate argument that I just made and it also shows  
16 how difficult it's become to restart the well after a long  
17 shut-in.

18 And it details -- well, I guess --

19 Q Well, let me ask you a question about Ex-  
20 hibit Two. It appears to indicate that the longer the well  
21 is shut in each successive time you are required to blow the  
22 well to the atmosphere, it takes a longer period to blow the  
23 well in order to put it back on stream, is that correct?

24 A Yeah, that's the -- that's correct.  
25 That's the second point I think we need to make with Exhibit

1 Two. I think there's no choice but to look at a few of the  
2 numbers on Exhibit Two to get the point across to the  
3 examiner.

4 Q Okay, go ahead.

5 A In March, which is at the top of page  
6 two, the well was unloaded on March 10th, 3/10/86 to  
7 3/12/86, in order to get 207 MCF production on March 18th.  
8 So in March there was a two or three days unloading the well  
9 after a 22 day shut-in in order to get some production.

10 In April, which is at the bottom of page  
11 two, the well was unloaded four days and I guess the days  
12 are actually 4/25/86 to 4/28/86. A little production was  
13 obtained but the well never really did stay on line after  
14 this 37 day shut-in.

15 Then in late May and early June, which is  
16 on page three of this exhibit, the well was unloaded  
17 continually from May 26th through June 8th. This fourteen  
18 days and after some compressor problems continuous  
19 production was finally established on June 13th.

20 So the last time the well was restarted  
21 it took continuous unloading of the well for fourteen days  
22 with blowing to the atmosphere of over 100 MCF a day of gas  
23 during that period to get the well to unload the water that  
24 had built up in it.

25 The other point with Exhibit Two is that

1 it shows the details that I went through to explain how we  
2 got that minimum sustainable rate of 125 MCF a day and all  
3 those numbers I quoted are listed in here and it would  
4 probably serve no purpose to go back other those again.

5 Q All right, Mr. Boneau, in your opinion  
6 will underground waste occur if production from the well is  
7 curtailed below the recommended producing rate?

8 A Yes, sir.

9 Q Could you describe how the waste will oc-  
10 cur?

11 A Well, if the well is shut in many more  
12 times, I'm not saying that the next time it will not come  
13 back, but if it's shut in many more times, it will not be  
14 able to be restarted and the significant reserves that it  
15 has will be lost due to premature abandonment as the well  
16 loads up.

17 Because of the extreme difficulty in get-  
18 ting the well restarted in June, I just feel that it can no  
19 longer stand prolonged shut-in injection periods. The well  
20 is produced with water for six years and more or less mira-  
21 culously has maintained itself this long and simply has got-  
22 ten to a point where it cannot unload itself without a more  
23 -- any more, and it has significant reserves which could be  
24 produced if the well remained on line.

25 Q All right. I assume that Yates is incur-

1 ring certain costs in conjunction with the disposal of the  
2 produced water.

3 A Yes. Box Canyon is quite a remote area  
4 and the water disposal costs are approximately \$1.40 a bar-  
5 rel to have the water trucked out of there.

6 Q And of course while the well is not pro-  
7 ducing there is no revenue being generated in order to meet  
8 those particular costs, among others.

9 A That's correct.

10 Q All right. What steps has Yates under-  
11 taken to try to remedy the water problem?

12 A Yates installed a compressor in 1980  
13 which has enabled the well to produce all this long.

14 In the recent times Yates has used simple  
15 things, soap sticks and blowing the well, to unload it to  
16 get it back on line.

17 Our feeling is that this kind of proved  
18 procedure is more efficient than swabbing the well. It ac-  
19 tually brings more water than you could swab out of the  
20 well, so we look at it as equivalent to swabbing the well.

21 Installation of a pumping unit is simply  
22 not economic and I could over those figures if it were  
23 necessary, but it's to the point where you can't justify in-  
24 stalling a pumping unit. I think that installation of  
25 smaller tubing simply would not work with this much water.

1 You simply couldn't get this much water up one inch tubing  
2 to keep the well together.

3 So I think that we have done or  
4 considered what reasonable things could be done and the only  
5 answer I know is to keep it on line at some low rate.

6 Q All right, why don't we refer to Exhibit  
7 Three now and I'd have you identify that and explain to the  
8 examiner what it's intended to show?

9 A Okay. Exhibit Three is simply a monthly  
10 history of the gas and water production for the well. The  
11 well produced essentially water free from 1977 to near the  
12 end of 1979. Then water broke through.

13 After the compressor was installed the  
14 well produced around a million cubic feet per day and 100  
15 barrels of water and there are monthly totals listed here  
16 but that's what they are in daily rates, and by the end of  
17 1985 the rate was down to about 400 MCF per day and still  
18 about 100 barrels of water.

19 The production history for 1986 is basic-  
20 ally off the bottom of this graph and is shown much better  
21 on the -- on Exhibit Two where we looked at it day by day.

22 So Exhibit Three just gives a historic  
23 production -- projection of the well's production.

24 Q All right, does the information on Exhi-  
25 bit Three in connection with the information on Exhibit Two

1 show the loss of productivity after the shut-in?

2 A Yes, sir. That's probably shown most  
3 clearly on Exhibit Two. On February 15th the well was making  
4 350 MCF a day when it was shut in.

5 After that, on March 8th it made 207; on  
6 April 25th, 85; on April 26th, 91; on April 17th, 48; on  
7 June 12, 77; all much smaller numbers than the 350 MCF  
8 that it had been making.

9 I think one point we might make is that  
10 we're not saying that there's formation damage in this well.  
11 This well has been seeing water for at least six years and  
12 we're not swelling clays in the Morrow formation. It simply  
13 is the pressure is down to the point where it can't lift  
14 this much water any more after prolonged shut-ins.

15 Q Let me ask you, what are the volumes of  
16 gas you are blowing to the atmosphere in order to unload the  
17 well?

18 A Well, when we blow the well it produces  
19 about like it produces when -- when you get it going. We're  
20 blowing, like, 125 MCF and 100 barrels of water to a pit to  
21 the atmosphere during these times that I consider swabbing  
22 times.

23 So like in that period in June, we're  
24 blowing 100 barrels of water, which costs \$150 to haul away,  
25 and 125 MCF of gas that is worth about \$250, so we're

1 spending \$400 a day, so that fourteen day period was \$5600  
2 to get the well back on line and of course the great fear is  
3 that the next time it will take longer or simply be impos-  
4 sible.

5 Q And at some point it would become unec-  
6 onomic to continue the operation at all.

7 A Yes, some very nearby point.

8 Q Okay. All right, let's refer to Exhibit  
9 Four and why don't you explain what that exhibit is intended  
10 to show?

11 A Okay. Exhibit Four is a small plat of  
12 the wells in the Box Canyon Unit. It is simply to show that  
13 there is water in the area and this is a water drive, water  
14 drive area.

15 The Box Canyon No. 2 Well is in Section  
16 13 and we talked about that.

17 The Box Canyon Unit No. 3 Well in Section  
18 14 made 440-million before watering out in 1980.

19 The Box Canyon Unit 4-A is in Section 23  
20 and it's made 1.8 BCF and now produces 83 barrels of water  
21 per day and 320 MCF.

22 There's another well that's very close in  
23 Section 13, not shown on this figure, called Box Canyon GJ  
24 No. 1, and it produced from the same Morrow interval that  
25 the subject well produces from. It produced 161-million

1 cubic feet and watered out in 1977.

2 So it simply shows that there is water  
3 production along with the gas in this area.

4 Q All right, Mr. Boneau, in your opinion if  
5 a hardship classification is not granted for this well,  
6 could it likely result in the premature abandonment of the  
7 well and reserves?

8 A Yes, sir. That's true.

9 Q How much production would be lost if the  
10 classification is not granted?

11 A The reserves on this well are about 250-  
12 million cubic feet. This was a number obtained at the first  
13 of the year basically from decline curves. The well's de-  
14 clining about 20, 25 percent per year; with the economic  
15 limit about 3000 MCF per month, that's -- those are the re-  
16 serves. If you use pressure data you get much higher  
17 reserves because of the -- of the pressure maintenance by  
18 the water.

19 The well has produced 900-million cubic  
20 feet since the water hit in 1979 and I believe that there's  
21 250-million more there to get.

22 Q Okay. In your view has Yates acted  
23 responsibly and prudently in its attempts to eliminate the  
24 problems which will result from curtailing the production?

25 A Yes, sir.

1           Q           In your opinion will granting this appli-  
2 cation prevent underground waste of natural gas?

3           A           Yes, sir.

4           Q           And would it also be in the best interest  
5 of the conservation of the gas?

6           A           Yes, sir.

7           Q           Mr. Boneau, have all offsetting operators  
8 been notified of this application and production rates  
9 sought?

10          A           Yes, sir, they've been notified and they  
11 were actually told 200 would be the rate we would seek.

12          Q           All right.

13                           MR. HALL: Mr. Stogner, for  
14 your information, all the offset operators were notified by  
15 certified mail. We have copies of the notification letters  
16 and green cards available and we'll be pleased to supplement  
17 the records if you deem it necessary.

18                           MR. STOGNER: Let's supplement  
19 the record with that information for clarification of the  
20 notification, Mr. Hall.

21                           MR. HALL: All right.

22          Q           Mr. Boneau, were Exhibits One through  
23 Four prepared by you or at your direction?

24          A           Yes, sir.

25                           MR. HALL: At this time we'd

1 offer Exhibits One through Four and that concludes our  
2 direct.

3 MR. STOGNER: Exhibits One  
4 through Four will be admitted into evidence.

5

6

CROSS EXAMINATION

7 BY MR. STOGNER:

8 Q Mr. Boneau, what are the perforations --  
9 what is the -- what is the perforated interval in this well?

10 A I think that's best shown, Mike, by the  
11 little schematic which is on one of those pages.

12 Q From 8110 to --

13 A Yeah, there's two intervals. From 8110  
14 to 8126 and 8229 to 8238.

15 Q Has it been determined or can it be  
16 determined where the water is actually coming from?

17 A It's not been determined. The -- the  
18 well that I said produced from these same Morrow reservoirs  
19 that watered out produced from the lower of those two and it  
20 did water out, so I think that it's pretty clear that there  
21 is water in the lower zone.

22 The other wells on Exhibit Four that I  
23 talked about actually do not produce from this same zone, so  
24 there is water throughout the area in different zones. My  
25 belief is that it's in all the zones but that has not been

1 proven.

2                   You know, given enough money and courage,  
3 it could be, I guess, but an awful sick patient to go doing  
4 things like that on now.

5                   Q               Does Yates feel it would be uneconomical  
6 then to determine if the water is in the lower zone and then  
7 if it was to go in and squeeze that interval?

8                   A               We feel that the better course is to pro-  
9 duce the well as it is. If the well dies or we're not gran-  
10 ted this, or whatever, and the well is gone before abandon-  
11 ing it, I think that I would suggest doing just what you  
12 said, putting a bridge plug over the bottom zone and try to  
13 swab the top in one more time.

14                  Q               You mentioned earlier that smaller tubing  
15 had not been tried, stating that you felt that smaller tub-  
16 ing would just not handle the liquids that are coming up.

17                  A               That's my opinion that is worth what you  
18 paid for it.

19                  Q               How much water could maximum -- or how  
20 much water could be handled, say, through 2-3/8ths --

21                  A               Well, it has 2-7/8ths inch tubing in it.  
22 I think that 2-3/8ths would help a little. I think that one  
23 inch could not handle it.

24                               I think that what we're really getting in  
25 is speculating on it, but I think that 2-3/8ths wouldn't

1 help enough to be worth doing but that is my unsupported  
2 opinion.

3 Q What other economic attempts to eliminate  
4 or correct the problem has Yates done on this well?

5 A I've told you all that we've done; none  
6 others.

7 Q Well, that was just to curtail the prod-  
8 uction and find the minimum flow rate, is that correct?

9 A Well, the active things we've done are  
10 install a compressor and "swab the well back in". What we  
11 have to do is use soap stickes and blow it to the atmosphere  
12 to get the well back when it has been shut in.

13 Q The compressor was put on in 1980.

14 A Yes, sir, that's correct.

15 Q Is that correct? Do you have any  
16 evidence which shows me that if this well was shut in for an  
17 extensive period of time that there would be a -- that  
18 underground waste would occur, that this production would be  
19 lost?

20 A Well, on Exhibit Two we showed that the  
21 well had bee shut in 22 days, 37 days, oh, somewhere around  
22 40 or 50 days, and that the last time it took 14 days of  
23 continual swabbing floats to get the well back on line.

24 Earlier it had taken far less time, like  
25 one day, two days, and I think that -- that is evidence to

1 me that the well has reached a critical point where it's not  
2 going to come back the next time or the time after that.

3 Q How does the choke size, does that have  
4 any effect?

5 A What particularly do you want to ask in  
6 the effect on?

7 Q Well, earlier in the year, in January you  
8 had a size 32 choke.

9 A Okay. The well -- the well will produce  
10 more gas if you open up the choke to a point, and we have  
11 the well choked back since El Paso's been nice enough to  
12 have it on. We've been trying to produce it at a low rate,  
13 you know. It will produce at 1/2 inch choke and probably  
14 make 350 MCF a day.

15 We've had it at 16/64ths and in July we  
16 cut it back -- July 10th, I guess, we cut it back to  
17 14/64ths, which is kind of a start of a logoff test. I made  
18 the mistake of going on vacation and they didn't cut it back  
19 to 12 like they were supposed to.

20 But surely the smaller choke restricts  
21 the production and if continue that logff test, you know,  
22 I could tell you exactly what the minimum sustainable rate  
23 is. You know, instead I've resorted to this kind of convo-  
24 luted argument which pins it down pretty closely.

25 MR. STOGNER: Is there any

1 other questions of Mr. Boneau -- Dr. Boneau at this time?

2 MR. HALL: We have nothing fur-  
3 ther.

4 MR. STOGNER: Is there any -- I  
5 have no further questions. He may be excused.

6 Is there anything further in  
7 Case Number 8947?

8 The case will be taken under  
9 advisement.

10 MR. HALL: You have Mr. Bur-  
11 chell.

12 MR. BURCHELL: May I make a  
13 statement?

14 MR. STOGNER: I'm sorry, let's  
15 go back on the record again.

16 Mr. Burchell, I'm sorry.

17 MR. BURCHELL: Again let me re-  
18 introduce myself.

19 I'm Paul Burchell with El Paso  
20 Natural Gas Company in the Production Control Department,  
21 and just for the record, if the Commission finds that this  
22 well -- or grants this well hardship status, that El Paso  
23 will, although we don't want the gas at this time, we would  
24 be -- to prevent underground waste we certainly will con-  
25 tinue to produce that well at whatever -- at whatever rate

1 you decide and we hope you do decide to keep it as low as  
2 possible.

3 That's all I have to say.

4 Thank you.

5 MR. STOGNER: Thank you, Mr.  
6 Burchell.

7 Anything further in this call?

8 We'll -- I need that  
9 information on notification, Mr. Hall.

10 If there is nothing further in  
11 Case Number 8947 I will now close -- take this under  
12 advisement.

13

14 (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 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. 8947 heard by me on 23 July 1986.

[Signature], Examiner  
Oil Conservation Division