

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY)
THE OIL CONSERVATION DIVISION FOR THE)
PURPOSE OF CONSIDERING:)

CASE NO. 12,432

APPLICATION OF AMERADA HESS CORPORATION)
FOR APPROVAL TO CONVERT THE NMGS AU WELL)
NOS. 215 AND 503 TO INJECTION IN THE)
NORTH MONUMENT-GRAYBURG-SAN ANDRES UNIT,)
LEA COUNTY, NEW MEXICO)

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: MARK ASHLEY, Hearing Examiner

October 5th, 2000

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, MARK ASHLEY, Hearing Examiner on Thursday, October 5th, 2000, at the New Mexico Energy, Minerals and Natural Resources Department, Porter Hall, 2040 South Pacheco, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

* * *

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October 5th, 2000
Examiner Hearing
CASE NO. 12,432

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A P P E A R A N C E S

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* * *

1 WHEREUPON, the following proceedings were had at
2 9:20 a.m.:

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7 EXAMINER ASHLEY: This hearing will now come back
8 to order, and the Division calls Case 12,432, Application
9 of Amerada Hess Corporation for approval to convert the
10 NMGSAU Well Nos. 215 and 503 to injection in the North
11 Monument-Grayburg-San Andres Unit, Lea County, New Mexico.

12 Call for appearances.

13 MR. CARR: May it please the Examiner, my name is
14 William F. Carr with the Santa Fe law firm Campbell, Carr,
15 Berge and Sheridan. We represent Amerada Hess Corporation
16 in this matter.

17 Appearing with me today is Dennis Smith, general
18 attorney for Amerada Hess Corporation in Houston. We have
19 one witness.

20 EXAMINER ASHLEY: Call for additional
21 appearances.

22 Will the witness please rise to be sworn in?

23 (Thereupon, the witness was sworn.)

24 EXAMINER ASHLEY: Mr. Carr?

25 MR. CARR: Thank you, Mr. Ashley.

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CHAD L. McGEHEE,

the witness herein, after having been first duly sworn upon
his oath, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. CARR:

Q. Would you state your full name for the record,
please?

A. Yes, it's Chad Lee McGehee, and that is spelled
M-c-G-e-h-e-e.

Q. Where do you reside?

A. In Seminole, Texas.

Q. By whom are you employed?

A. Amerada Hess Corporation.

Q. And what is your position with Amerada Hess
Corporation?

A. Production engineer.

Q. Mr. McGehee, have you previously testified before
the Oil Conservation Division?

A. No, sir.

Q. Could you summarize your educational background
for Mr. Ashley?

A. Yes, I have a bachelor of science degree in
petroleum engineering from Texas Tech University in May,
1993.

Q. And since graduation in 1993, for whom have you

1 worked?

2 A. Yes, I've worked for Anadarko Petroleum
3 Corporation in 1993 and 1994, I've been employed by Amerada
4 Hess since April of 1997, both positions as a production
5 engineer, and my current responsibilities are production
6 engineer for the NMGSAU.

7 Q. Are you familiar with the Application filed in
8 this case on behalf of Amerada Hess Corporation?

9 A. Yes, sir.

10 MR. CARR: Mr. Examiner, we tender Mr. McGehee as
11 an expert witness in petroleum engineering.

12 EXAMINER ASHLEY: Mr. McGehee is so qualified.

13 Q. (By Mr. Carr) Mr. McGehee, would you refer to
14 Amerada Hess Exhibit Number 1 in the presentation booklet,
15 the second page in that booklet, and review for Mr. Ashley
16 what it is that Amerada Hess seeks in this Application or
17 in this case?

18 A. Yes, sir. This is a summary of the intent of the
19 C-108 filed with the OCD on November 22nd of 1999. We seek
20 to amend Division Order Number R-9596, approving injection
21 at NMGSAU. We seek approval to convert wells 215 and 503
22 to injection, both of them completed within the unitized
23 interval of the Grayburg-San Andres.

24 These conversions are intended to improve our
25 recovery efficiency and our waterflood by further

1 developing fivespot patterns within the interior of our
2 unit, as indicated by the inset maps.

3 Q. Are both these wells currently active producers
4 in the unit area?

5 A. Yes, sir.

6 Q. When did Amerada Hess file its Application for
7 authorization to convert these wells to injection?

8 A. It was filed November 22nd, 1999.

9 Q. And what response was received to this
10 Application?

11 A. Our only response was from Doyle Hartman, who
12 listed several criteria to be examined on, which we'll
13 address further in the presentation.

14 Q. Initially, could you review for us the history of
15 the North Monument-Grayburg-San Andres Unit?

16 A. Yes. Our unitization plan was approved on May
17 1st of 1991 by Order Number R-9494. The C-108 water
18 injection plan was approved October 15th of 1991 by Order
19 R-9596. Our unitization became effective on January 31st
20 of 1992.

21 Q. And we have generally developed this area on an
22 80-acre fivespot pattern; is that correct?

23 A. Yes, sir.

24 Q. Let's go to the second exhibit in the
25 presentation material. Would you identify and just explain

1 what that's intended to show?

2 A. Yes. Exhibit 2 is just an orientation map
3 showing our NMGSAU boundary, which is outlined with the
4 blue-dashed line. Our proposed conversions are located in
5 the north central portion of the NMGSAU, and they will be
6 detailed later, their exact locations.

7 Q. There's a block in Section 18 in the northern
8 portion of the unit that corresponds to the plat on the
9 previous page in the material; is that right?

10 A. Yes, sir.

11 Q. Let's go to Exhibits 3 and 4. I'd ask you to
12 review these together and generally give us an overview of
13 Amerada Hess's operations in the North Monument-Grayburg-
14 San Andres Unit area.

15 A. Okay, I'll summarize the information on Exhibit 3
16 and then discuss the production plot on Exhibit 4.

17 Our unitization was effective January 1st of
18 1992, as previously stated. The original plan was to have
19 149 producers with 108 injectors on 80-acre fivespot
20 patterns.

21 If you'll turn to Exhibit 4, I give a graphical
22 representation of our production and injection since
23 unitization. On this plot the oil production is on the
24 left scale, oil and gas and production are on the left
25 scale. On the right hand we have water production and

1 water injection.

2 Our current production is approximately 3100
3 barrels of oil a day, 4.2 million cubic foot of gas a day
4 and 18,000 barrels of water a day. Current injection is
5 50,000 barrels of water a day.

6 Q. Let's now go to Exhibits 5 and 6, and I would ask
7 you to review and compare your original plan for the unit
8 with the actual development.

9 A. Okay. Exhibit 5 is a depiction of our original
10 waterflood plan, which included 62 complete fivespot
11 patterns, which are indicated by the yellow shading on the
12 plat.

13 If you'll turn to Exhibit 6, we have the same
14 plat on the left, compared to our actual development on the
15 right. If you will notice, we have 31 complete fivespot
16 patterns over approximately 7000 acres, with 75 injectors,
17 compared to the original 108.

18 Shaded in red at the northern portion of the unit
19 are planned conversions of NMGSAU 215 and 503. And --

20 Q. Basically, what you're doing is just a
21 continuation of your development plan and actually stepping
22 in toward the interior of the unit area?

23 A. Yes, just based on the results of our waterflood
24 to date.

25 Q. Could you identify and review Amerada Hess

1 Exhibit Number 7?

2 A. Yes, Exhibit 7 shows our injection development
3 over time. The legend indicates the time of conversion for
4 different stages in our waterflood development. Of
5 interest here is the green shading, which indicates
6 development in 1996 and 1997, and the blue shading, which
7 is the expansion program we had in 1998. Our two planned
8 conversions are identified by the red inverted triangles.

9 And this just shows that we're continuing to
10 develop patterns within the interior of our unit based on
11 data that we obtain, performance data.

12 Q. Let's go to Exhibit Number 8. Would you identify
13 and review this?

14 A. Yes, Exhibit 8 is an area-of-review map. The
15 circles surrounding our two proposed wells identify offset
16 wells and leases within one half mile, which is defined as
17 the area of review.

18 Q. Let's go to Exhibit Number 9. What is this?

19 A. Exhibit 9 is the Application for permit to
20 inject, our C-108, filed in November of 1999, and it
21 includes all attachments.

22 Q. And what well are we addressing with this
23 particular C-108?

24 A. NMGSAU 215 and 503.

25 Q. And that is because this is an expansion of a

1 previously approved waterflood project, correct?

2 A. Yes, sir.

3 Q. Let's go to this exhibit, and I direct your
4 attention to pages 8 and 9 in the C-108. Would you
5 identify and review those?

6 A. Yes, pages 8 and 9 show lease ownership and
7 wells.

8 MR. CARR: Just a minute. The numbers haven't
9 shown up on all -- 8 and 9, they're the two plats with the
10 area of review shown.

11 EXAMINER ASHLEY: In Exhibit 9?

12 MR. CARR: In Exhibit Number 9, the C-108.

13 THE WITNESS: The numbers are on the bottom of
14 the page.

15 EXAMINER ASHLEY: Pages 8 and 9?

16 THE WITNESS: Yes.

17 EXAMINER ASHLEY: Okay.

18 Q. (By Mr. Carr) All right, go ahead.

19 A. Okay. This is just a midland map showing lease
20 ownership and wells within two miles of the proposed
21 injectors, the circles indicating the area of review for
22 each well.

23 Q. Well, what information did Amerada Hess file with
24 the original application for approval of the waterflood
25 project in August of 1991?

1 A. We filed that on all wells penetrating injection
2 zone within the area of review as required by Section 6 of
3 the C-108. We filed geologic data on the injection zone
4 and the fresh water, as required by Section 8 of the C-108,
5 and we filed water analysis, as required by Section 11.

6 Q. Would you identify what has been -- Well, does
7 Exhibit 9, the C-108 --

8 A. Yes, sir.

9 Q. -- contain all data required on the new injection
10 wells, as required by Section 6 of Division Form C-108?

11 A. Yes.

12 Q. And would you identify what we have marked and
13 included in the exhibit packet as Amerada Hess Exhibit
14 Number 10?

15 A. Okay. Exhibit 10 is data that supplements the
16 Form C-108 filed in November of 1999. What this is is the
17 table that includes information on wells penetrating the
18 injection interval that were not included in the original
19 C-108.

20 Q. This information addresses each well within each
21 of the areas of review that has been drilled into the
22 injection interval --

23 A. Yes, sir.

24 Q. -- since the original approval in 1991, correct?

25 A. Yes, sir, it includes all wells within both

1 wells' area of review.

2 Q. And if we look at this exhibit, what we have is,
3 we have five wells that have been drilled and completed in
4 the Eumont; is that right?

5 A. Yes, sir.

6 Q. And two that are unit wells drilled into the
7 Eunice-Monument?

8 A. In the North Monument-Grayburg-San Andres Unit,
9 yes, sir.

10 Q. And the Eumont wells, were those wells -- when
11 you looked at those originally, did they appear to
12 penetrate the injection interval?

13 A. Yes, the Eumont wells just -- They're completed
14 in the Eumont, but they're drilled down into the top of the
15 Grayburg, not really penetrating through our injection
16 interval but they touch into the Grayburg, and that's why
17 we listed them here.

18 Q. And you have now provided with Exhibit Number 10
19 all information required by Form C-108 on any of the wells
20 within the two subject areas of review?

21 A. Yes, sir, on page 2 of this Exhibit 10, we also
22 included cement casing and top-of-cement calculation detail
23 for each of those wells. And I also included an example, a
24 calculation of the top of cement just below the table on
25 page 2, using one cubic foot per sack cement yield as given

1 to me by Paul Kautz as an acceptable method of calculating
2 top of cement.

3 Q. And so the sample calculation is what Amerada
4 Hess used, as based on your conversations with the OCD?

5 A. Yes, sir.

6 Q. Are there any plugged and abandoned wells within
7 the areas of review for either of the injection wells which
8 are the subject of this hearing?

9 A. Yes, there's one plugged and abandoned well, and
10 it was drilled and abandoned in 1960, and it was covered in
11 the original C-108.

12 Q. Now, into what formations or formation are you
13 planning to inject?

14 A. Both wells we plan on injecting into the Grayburg
15 formation. NMGSAU Number 215 will be initially completed
16 from approximately 3810 foot to 3917, and NMGSAU 503 will
17 be completed from approximately 3766 to 3864.

18 Q. Are there any other hydrocarbon-productive zones
19 in the immediate area?

20 A. Yes, the Eumont formation, which is a gas-
21 productive zone immediately above the Grayburg.

22 Q. What is the source of the water you propose to
23 inject in the subject wells?

24 A. Just as covered in the original C-108, we want to
25 inject produced water from the Grayburg-San Andres

1 interval, as well as San Andres supply water.

2 Q. And this is exactly what you've been doing in
3 this unit since it was originally approved in 1991?

4 A. Yes, sir.

5 Q. And what volumes are you proposing to inject?

6 A. We estimate that we will inject between 750 and
7 1000 barrels of water a day.

8 Q. And that's per well?

9 A. Yes, per well.

10 Q. And will the system be open or closed?

11 A. Closed.

12 Q. Will you be injecting under pressure or by
13 gravity?

14 A. Pressure.

15 Q. And what pressure limitation applies to the North
16 Monument-Grayburg-San Andres Unit?

17 A. Order R-9596 states that we're approved to a
18 pressure limitation of .2 p.s.i. per foot to the depth of
19 the top of the completion, unless we allow the OCD to
20 witness a step-rate test showing that we can go to higher
21 pressure without fracturing the formation.

22 Q. Would that pressure limitation and the procedures
23 set forth in that order that allow an increase after a
24 step-rate separate test, would those provisions be
25 satisfactory to Amerada Hess for the two injection wells

1 which are the subject of this hearing?

2 A. Yes. The .2 would initially be okay with us.
3 However, we would want to keep in there the statement that
4 we can go to higher pressure if we have a step-rate test
5 showing that we will not hurt the formation.

6 Q. Mr. McGehee, how does Amerada-Hess monitor the
7 pressure in these injection wells?

8 A. We've got several ways. On each of our injectors
9 we have pressure gauges. We also have transmitters into a
10 SCADA system that send information into the field office,
11 the central plant and my office in Seminole.

12 The other thing is, we have pressure-limit
13 controllers on our injection pumps at the central plant,
14 which they're set at approximately 700 pounds, to keep us
15 from exceeding that pressure.

16 So that really controls the pressure at the
17 wellheads, when our central pressure will not exceed the
18 set pressure at the central plant.

19 Q. And how often is the pressure on each of these
20 wells actually monitored?

21 A. The pressure is monitored continuously, however
22 the SCADA system does field scans probably within 15
23 minutes where it pulls data from each of the wells within
24 the field. But I would say approximately 15 minutes on a
25 scan.

1 Q. And was the original water analysis of the
2 injection fluid presented to the Division in the original
3 hearing on this waterflood project?

4 A. Yes.

5 Q. Is the injection fluid compatible with the
6 natural waters and fluids in the injection zone?

7 A. Yes.

8 Q. Are there freshwater zones and/or wells in the
9 areas of review that are the subject of this hearing?

10 A. Yes, sir.

11 Q. And were all of those covered in the original
12 hearing?

13 A. Yes.

14 Q. And there have been no changes since that time?

15 A. No changes that I'm aware of.

16 Q. Mr. McGehee, have you reviewed the available
17 geologic and engineering data on this reservoir?

18 A. Yes.

19 Q. And as a result of that review, have you found
20 any evidence of open faults or other hydrologic connections
21 between the injection interval and any underground source
22 of drinking water?

23 A. No.

24 Q. Let's go to the C-108, Exhibit Number 9, and I'd
25 ask you to refer to page 11 and identify what is shown on

1 that page.

2 A. Okay. Page 11 just identifies the owners to whom
3 notice of our C-108 was provided. Page 12 is a copy of the
4 legal advertisement published in the *Hobbs News-Sun*.

5 Q. Was notice also provided to the owner of the
6 surface of the land upon which each of the injection wells
7 were located?

8 A. Yes.

9 Q. And are copies of these notice letters attached
10 to this Application?

11 A. Yes.

12 Q. And return receipts are also included, are they
13 not?

14 A. Yes, sir.

15 Q. Let's go back to the presentation material now,
16 and I would ask you to refer to what is marked Amerada Hess
17 Exhibit Number 11. Would you identify that, please?

18 A. Yes, Exhibit 11 is the objection letter we
19 received from Doyle Hartman dated November 24th of 1999.
20 It sets forth a number of what he refers to as industry-
21 accepted injection practices and standards.

22 Q. Let's go to the next page, Exhibit Number 12.
23 The first concern expressed by Mr. Hartman was that Amerada
24 -- he requested that Amerada Hess be required to continue
25 to comply with Order Number R-9596, which approved this

1 waterflood and provided that Amerada Hess should, quote,
2 take all steps necessary to ensure that the injected water
3 enters only the proposed injection interval and is not
4 permitted to escape to other formations or onto the surface
5 from injection, production or plugged and abandoned wells.

6 What is Amerada Hess's response to that concern?

7 A. Yes, we have and will continue to comply with
8 that.

9 Q. The second point raised by Mr. Hartman was that
10 the proposed new North Monument-Grayburg-San Andres Unit
11 injection wells -- that it be shown that they had been
12 properly cemented with adequate volumes of API sulfate-
13 resistant cement and each individual injection well cement
14 job demonstrate satisfactory bonding and pipe
15 characteristics, using state-of-the-art 360-degree bond-
16 pipe evaluation such as Schlumberger's USI-GR-CCL log.

17 What is Amerada Hess's response to that concern?

18 A. Yes, the OCD does not require specific logging on
19 our part. However, if we don't have a cement-bond log or
20 temperature survey, we use the approved method by the NMOCD
21 to calculate cement tops.

22 Q. Mr. Hartman's third concern was that well
23 injection pressures for the proposed injection wells will
24 always be kept at or below the NMOCD's maximum surface
25 injection pressure limit of .2 pound per foot. What is

1 your response to that?

2 A. I previously addressed what we would like to have
3 in the Division order, stating that we have the option to
4 increase pressure, based on approved step-rate test by the
5 OCD.

6 Q. And will Amerada Hess order not only the current
7 limitation but the provisions for increasing pressure if
8 that is required?

9 A. Yes, sir.

10 Q. The fourth matter raised by Mr. Hartman was that
11 the primary cement job for the proposed injection wells
12 should not have been compromised by nitroglycerine
13 stimulation or excessive acid treatments. What is Amerada
14 Hess's response to that concern?

15 A. This is not required by the OCD, however on both
16 of these wells there have been no nitro treatments, nor
17 excessive acid, in my opinion.

18 Q. And you will be presenting information on each of
19 the wells concerning the extent to which there has been an
20 acid treatment or any kind of a nitroglycerine stimulation;
21 is that correct?

22 A. Yes, it's included in the well histories, later
23 in the presentation.

24 Q. Mr. Hartman's fifth concern was that each
25 individual well, as well as the overall project, the

1 injection to withdrawal ratio be kept at one or less,
2 minimizing the likelihood that out-of-zone non-oil-recovery
3 injection will occur. What is Amerada Hess's response to
4 this concern?

5 A. Our response is that it's not required by the
6 Division, nor in a waterflood can you pressure up the
7 formation without putting in more water than is created by
8 the production. You've got to have an injection-withdrawal
9 ratio greater than one to pressure up the formation.

10 Q. In your opinion, is an injection-to-withdrawal
11 ratio of one an industry-accepted injection practice or
12 standard?

13 A. No, sir.

14 Q. Mr. Hartman's final concern was that the proposed
15 new injection wells not exhibit injection profiles that
16 indicate a large volume or percentage of injection water is
17 exiting the wellbore at the upper part of the injection
18 interval. What is your response to that?

19 A. Our approval from the original C-108 is that
20 we're approved to inject anywhere within the unitized
21 formation the Grayburg and San Andres.

22 Q. Mr. McGehee, are you aware of any out-of-zone
23 water resulting from the operations of Amerada Hess
24 Corporation in the North Grayburg-San Andres Unit?

25 A. No, sir.

1 Q. Let's go to Exhibit Number 13 in the presentation
2 material. Would you identify that for Mr. Ashley?

3 A. Exhibit 13 is a well history for NMGSAU Number
4 215. Basically, it shows the activity on the well since
5 drilling it in 1936. Of interest here is that there has
6 been no nitro treatment. The acid that's been put on the
7 formation over the entire life is approximately 15,000
8 gallons.

9 Q. And when we look at the entire life of this well,
10 it goes back to April of 1936, does it not?

11 A. Yes, sir.

12 Q. And is 15,000 gallons of acid during that period
13 of time excessive?

14 A. Not in my opinion.

15 Q. Let's go to Exhibit Number 14. Would you review
16 that, please?

17 A. Exhibit 14 is the current and proposed wellbore
18 schematic for NMGSAU 215. This indicates our cement and
19 cement tops, as well as cement volumes, for each of the
20 wells. If you refer to the diagram on the right, it's the
21 proposed schematic indicating that we will have lined
22 tubing and a packer set approximately 50 foot above our
23 completion interval.

24 Q. Will the annular space be filled with an inert
25 fluid?

1 A. Yes, sir.

2 Q. Will there be a pressure gauge at the surface?

3 A. Yes.

4 Q. Will Amerada Hess otherwise comply with the
5 provisions and requirements of federal underground
6 injection?

7 A. Yes.

8 Q. Would you identify for Mr. Ashley what is marked
9 Amerada Hess Exhibit 15?

10 A. Exhibit 15 is just our proposed conversion
11 procedure for NMGSAU Number 215. It indicates that we will
12 go in, we will attempt a small cement plugback within the
13 wellbore, acidize the formation, install the injection
14 equipment and put the well on injection after passing the
15 casing integrity test.

16 Q. You'll establish the casing integrity --

17 A. Yes, sir.

18 Q. -- you'll acidize the well, you're going to then
19 swab it and install this equipment; is that how you plan to
20 go about --

21 A. Yes, and we will fill the annulus with an inert
22 fluid.

23 Q. And you will obtain an injection profile once we
24 have a stabilized injection rate; is that correct?

25 A. Yes, sir.

1 Q. If we look at the rest of this exhibit, Mr.
2 McGehee, Exhibits 16, 17 and 18, what we have is a well
3 history of a wellbore schematics and the proposed
4 conversion procedure for the Well Number 503; is that
5 correct?

6 A. Yes, sir.

7 Q. These exhibits show basically the same
8 information that you've just reviewed for the Well Number
9 215; is that right?

10 A. Yes.

11 Q. Is Exhibit Number 19 an affidavit confirming that
12 notice of this hearing and the Application was provided to
13 each owner by certified mail, as required by the rules of
14 the Oil Conservation Division?

15 A. Yes.

16 Q. This actual mailing includes two additional
17 owners in addition to those that a year ago received a copy
18 of the C-108; is that correct?

19 A. Yes.

20 Q. At this time, have all owners affected by this
21 Application received notice of the Application as required
22 by Division rules?

23 A. Yes.

24 Q. In your opinion, will granting this Application
25 and the conversion of these two wells to injection be in

1 the best interest of conservation, the prevention of waste
2 and the protection of correlative rights?

3 A. Yes.

4 Q. Were Amerada Hess Exhibits 1 through 19 either
5 prepared by you or compiled under your direction and
6 supervision?

7 A. Yes.

8 MR. CARR: At this time, Mr. Ashley, we would
9 move the admission into evidence of Amerada Hess
10 Corporation Exhibits 1 through 19.

11 EXAMINER ASHLEY: Exhibits 1 through 19 will be
12 admitted as evidence.

13 MR. CARR: And that concludes our direct
14 presentation in this case.

15 EXAMINATION

16 BY EXAMINER ASHLEY:

17 Q. Mr. McGehee, on Exhibit 10, this tabulation of
18 wells penetrating the proposed injection zone --

19 A. Yes.

20 Q. -- did I understand that these are all the wells
21 within those two half-mile areas of review, or these are
22 just new wells since 1991?

23 A. They're new wells that were not in the original
24 C-108.

25 Q. Okay.

1 A. And they are within the half-mile area of review
2 for both wells.

3 Q. Okay. And the one P-and-A'd well is the one that
4 was covered under the original C-108?

5 A. Yes.

6 Q. And there haven't been any other P-and-A'd --

7 A. No.

8 Q. -- wells in the two AORs? Okay.

9 On page 11 of Exhibit 9, the C-108 -- it's a list
10 of the surface and leasehold operators within a half mile
11 of the proposed injection well -- is Mr. Hartman a
12 leasehold operator within a half a mile of the proposed
13 injection wells?

14 A. Yes, he has lease rights --

15 Q. Within that half-mile?

16 A. -- within that half mile. He has no production
17 within the half mile.

18 Q. Okay. And then on Exhibit 17, it shows the
19 wellbore schematics for the Number 503. Under the current
20 schematic it shows that there was a casing leak in 1993?

21 A. Yes.

22 Q. And that was squeezed, and then it -- Does that
23 say "passed integrity test"?

24 A. Excuse me, the casing leak was in 1986.

25 Q. 1986.

1 A. Yes.

2 Q. Okay, I see what you're saying then.

3 A. And the most recent integrity test was in 1993.

4 EXAMINER ASHLEY: Okay. I have nothing further.

5 Thank you.

6 MR. CARR: Thank you, Mr. Ashley, that concludes
7 our presentation in this case.

8 EXAMINER ASHLEY: There being nothing further in
9 this case, Case 12,342 will be taken under advisement.

10 (Thereupon, these proceedings were concluded at
11 9:55 a.m.)

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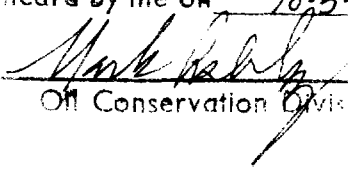
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I hereby certify that the foregoing is
a complete record of the proceedings at
the Examiner hearing of Case No. 12342
heard by me on 10-5-00
 Examiner
Oil Conservation Division

CERTIFICATE OF REPORTER

STATE OF NEW MEXICO)
) ss.
COUNTY OF SANTA FE)

I, Steven T. Brenner, Certified Court Reporter and Notary Public, HEREBY CERTIFY that the foregoing transcript of proceedings before the Oil Conservation Division was reported by me; that I transcribed my notes; and that the foregoing is a true and accurate record of the proceedings.

I FURTHER CERTIFY that I am not a relative or employee of any of the parties or attorneys involved in this matter and that I have no personal interest in the final disposition of this matter.

WITNESS MY HAND AND SEAL October 11th, 2000.



STEVEN T. BRENNER
CCR No. 7

My commission expires: October 14, 2002