



## A P P E A R A N C E S

1  
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## I N D E X

JAY H. HARDY

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MR. STOGNER: Call next Case  
Number #926.

MR. TAYLOR: Application of  
Sage Energy Company for salt water disposal, Lea County, New  
Mexico.

MR. STOGNER: Call for  
appearances in this case.

MR. KELLAHIN: If it please the  
Examiner, I am Tom Kellahin of Santa Fe, New Mexico, appear-  
ing on behalf of the applicant and we have one witness.

MR. CARR: May it please the  
Examiner, William F. Carr, with the law firm Campbell &  
Black, P. A., in Santa Fe, appearing on behalf of Yates  
Petroleum.

MR. STOGNER: Do you have any  
witnesses, Mr. Carr?

MR. CARR: We do not expect to  
call a witness.

(Witness sworn.)

MR. STOGNER: You may proceed,  
Mr. Kellahin.

MR. KELLAHIN: Thank you, Mr.  
Stogner.

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JAY H. HARDY,

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

DIRECT EXAMINATION

BY MR. KELLAHIN?

Q Will you state your name, please?

A Jay H. Hardy.

(Reporter's Note: Due to reporter error a portion of the case at this point was not recorded properly.)

Q -- of the Commission Form C-108 and the attachments to that form?

A Yes, I have.

Q What are you seeking from the Oil Commission with regards to this application, Mr. Hardy?

A What I want to do here is dispose of produced water from one well on an 80-acre lease into a temporarily abandoned well on the same lease.

Q In what pool or formation is the disposal well to dispose of water into?

A It's in the Saunders Permo Upper Penn formation.

Q And this will be produced water from the

1 same lease --

2 A That's correct.

3 Q -- that's put back into the same forma-  
4 tion.

5 A That's correct.

6 MR. KELLAHIN: We tender Mr.  
7 Hardy as an expert petroleum engineer, Mr. Stogner.

8 MR. STOGNER: Mr. Hardy is so  
9 qualified.

10 Q Mr. Hardy, let me direct your attention  
11 first of all to Exhibit Number One, which is simply the Form  
12 C-108, is it?

13 A Correct.

14 Q And that's your signature on this exhi-  
15 bit?

16 A Yes, it is.

17 Q All right, let's turn now to Exhibit Num-  
18 ber Two and have you give us some background about the pur-  
19 pose and intent of the Yates Petroleum Corporation letter  
20 that's represented as Exhibit Number Two, insofar as it af-  
21 fects your project.

22 A In notifying the offset operators con-  
23 cerning this project, Yates notified us that they originally  
24 were going to oppose us because of the volume that we  
25 intended to put into the producing formation and once I in-

1 formed them that we were only talking about 40 barrels of  
2 water a day they presented me with this letter agreement  
3 where we would agree to not dispose of any more than 40 bar-  
4 rels a day of produced water and we would not take any water  
5 from any other leases or any other properties and dispose of  
6 in this well.

7 Their concern was that they do have a  
8 direct offset there and they did not want that well to be  
9 watered out, and thus the letter agreement.

10 Q All right, sir. So the Examiner can see  
11 the relationship of the disposal well to the Yates well,  
12 let's turn to Exhibit Number Three, and have you -- is that  
13 Three or Four?

14 All right, Three is simply the second  
15 page of the letter from Yates?

16 A That's correct.

17 Q All right, let's turn to Four and have  
18 you identify for us the spacing unit for the well first of  
19 all. Where is that?

20 A The spacing unit of the Sage wells are  
21 the 80 acres in orange.

22 Q When we look at the disposal well, where  
23 is that well located?

24 A The well is in the number one, the Lowe  
25 State No. 1, which is in the northwest of the southwest.

1           Q           And that's the center of the half mile  
2 radius circle.

3           A           That's correct.

4           Q           And when we look south of that spacing  
5 unit there is a No. 2 Well?

6           A           That's correct. That's the Lowe State  
7 No. 2 Well, which makes 11 barrels a day and approximately  
8 35-to-40 barrels of water.

9           Q           It is that well, the water produced from,  
10 which will be disposed of in the No. 1 Well.

11          A           That's correct.

12          Q           All right. Show us where the Yates well  
13 is that they were concerned about that's completed in the  
14 same pool.

15          A           They were concerned about the Robin "UT",  
16 which is in the southeast of the southwest, which is their  
17 best well.

18                    They also have a direct offset, the  
19 Valentine State No. 1, which is in the northeast of the  
20 southwest, but their main concern was with the diagonal off-  
21 set.

22          Q           Are there other wells completed in this  
23 pool by other operators within the half mile radius?

24          A           Yes, there are.

25          Q           And are the Yates wells the closest well

1 to your disposal well?

2 A That's correct.

3 Q Do you have an opinion as an engineer,  
4 Mr. Hardy, as to whether or not the disposal rate of up to  
5 but not in excess of 40 barrels a day would jeopardize  
6 existing production in this pool from this operator, the  
7 Yates Petroleum Corporation, or any other operator?

8 A I really don't think they'll ever see  
9 that 40 barrels a day, in my opinion.

10 Q Do you have some reasons behind that  
11 opinion?

12 A The depletion nature of the reservoir;  
13 the thickness of the pay; and the minimum rate.

14 Q Will approval of this application allow  
15 your company to continue to produce production that it might  
16 not otherwise produce?

17 A That's correct. We would temporarily  
18 abandon the No. 2 if this -- if this permit is not granted.

19 Q All right, sir, let's turn now to the  
20 tabulation of wellbore information indicated on Exhibit Num-  
21 ber Five.

22 Is this also an exhibit that you pre-  
23 pared?

24 A Yes, I did.

25 Q What is included when we describe in this

1 exhibit wells in the area of review?

2 A The location, the operator, the name of  
3 the well, the location, the type of well, completion date,  
4 the total depth, plugged back depth, the casing program, and  
5 the overall perforated interval is -- is what's included  
6 here.

7 Q And this will include all wells that pro-  
8 duce from or penetrate through the disposal formation?

9 A That's correct.

10 Q In making an examination of the wells in  
11 the area of review, do you find any wells that produce below  
12 the base of this producing formation?

13 A Not below the base of the Permo Penn.

14 Q The wells we've identified on the exhi-  
15 bit, are there any plugged and abandoned wells on that list?

16 A Yes, there are.

17 Q Could you show us on the list which ones  
18 are the plugged and abandoned wells?

19 A The Amerada State "SG" 1, which was plug-  
20 ged in 1958, is one. That's also in Section 10.

21 Then we have the Imperial American Saun-  
22 ders State Y-1, which was plugged in 1971. That's in Sec-  
23 tion 9.

24 Q That's on the second page of our Exhibit  
25 Six?

1           A           Exhibit Six.

2           Q           All right.

3           A           And then the Imperial American State "AC"  
4 1, which was P & A the same date, which is also in Section  
5 9.

6           Q           Okay. Let's save the plugged and aban-  
7 doned wells for a moment and concentrate just on those pro-  
8 ducing wells.

9                        Have you satisfied yourself as an  
10 engineer, Mr. Hardy, that the producing wells within the  
11 area of review are properly completed and cemented in such a  
12 way that any disposal fluid that you introduce into this  
13 formation will remain confined in that formation and not mi-  
14 grate out of the formation to another zone through any of  
15 these offset wellbores?

16          A           Yes, I have.

17          Q           Okay, and what is your conclusion?

18          A           My conclusion is that the formation that  
19 we're talking about here is isolated and water will stay in  
20 that zone.

21          Q           All right, let's turn now to the plugged  
22 and abandoned wells and have you review each of the sche-  
23 matics, commencing with Exhibit Number Seven, by identi-  
24 fying the well, showing us where it is on Exhibit Number  
25 Four.

1           A           The first well is in Section 10, the  
2 Amerada State "SG" 1, which was plugged in 1958 and that is  
3 in the center of the northeast of the southwest.

4                   That well was drilled to a TD, referring  
5 to Exhibit Seven, of 10,069 and plugged back to 9960.

6                   The 5-1/2 was cemented with 500 sacks.  
7 It was pulled at 5792. They put a 30-sack plug at 5660 to  
8 5770 and then on the 8-5/8ths they have a 30-sack plug in-  
9 side and outside 4195 to 4095.

10                   They pulled the 8-5/8ths at 735 feet.  
11 They have a 25-sack plug inside the 13-3/8ths, or inside the  
12 hole across that stub there, 689 to 718, and then on the 13-  
13 3/8ths they have a 25-sack plug inside and outside the base  
14 of that.

15           Q           Where would the corresponding disposal  
16 interval be located on the schematic?

17           A           The corresponding interval would be down  
18 there at 9845 to 9860, which is right at the base of the 5-  
19 1/2.

20           Q           As an engineer, Mr. Hardy, do you have an  
21 opinion as to whether this plugged and abandoned wellbore  
22 would serve as a conduit for allowing fluids in the disposal  
23 formation to migrate to some other formation?

24           A           I don't think it would provide a conduit.  
25 I don't think there would be any migration here at all.

1 Q Let's go then to the next plugged and  
2 abandoned well schematic, Exhibit Number Eight, and have you  
3 give us the same information as to where the well is located  
4 and whether or not in your opinion it is also adequately  
5 plugged and abandoned.

6 A This is the Imperial American Saunders  
7 State No. 1, which is in Section 9, 660 from the south and  
8 east line.

9 It's identified on your map as the 2  
10 "AC". This was originally drilled by Cities Service but Im-  
11 perial American went in and tried to make a well there and  
12 they were the last ones to be in the wellbore and they were  
13 the ones to plug it like we have on this schematic.

14 Q Have you reviewed the plugging methods  
15 and have you satisfied yourself that in your opinion this  
16 well will not serve as conduit to allow fluids disposed of  
17 in the disposal formation to migrate into some other forma-  
18 tion?

19 A Yes, I have.

20 Q Okay, and what is your conclusion?

21 A I don't believe there will be any migra-  
22 tion out of the disposal formation.

23 Q And there was a third plugged and aban-  
24 doned well?

25 A Correct. It's the Saunders State Y-1,

1 which was also drilled by Imperial American. It's 990 from  
2 the south and east lines in Section 9, and that was plugged  
3 in October, 1971.

4 They have 5-1/2 set at 10,020. That was  
5 cemented with 400 sacks, which brings the top of cement, ac-  
6 cording to my calculations, at roughly 7120.

7 They shot the 5-1/2 and pulled it to  
8 5283. They also have a cast iron bridge plug set above the  
9 perforations in the 5-1/2 at 9275.

10 And the 8-5/8ths is set at 4280 with a  
11 30-sack plug inside and outside of that.

12 They have a 30-sack plug in the 8-5/8ths  
13 at 2500 to 2600; a 30-sack plug inside the 8-5/8ths at 1500  
14 to 1600; and they have a 10-sack plug at the surface. They  
15 never were able to pull about 150 feet of that 8-5/8ths, and  
16 you have that plus the 13-3/8ths still in the hole.

17 Q Is the method by which this well has been  
18 plugged and abandoned adequate to isolate out the disposal  
19 foramtion from any other formation?

20 A Yes, it is.

21 Q And all that is depicted on Exhibit Num-  
22 ber Nine?

23 A That's correct.

24 Q All right. Exhibit Ten is your summary  
25 of the proposed operations which you've already reviewed for

1 us. Let me ask you this while we're looking at Exhibit Num-  
2 ber Ten.

3 Do you have any knowledge and have you  
4 made an investigation of any faults or other hydrologic con-  
5 nections by which disposal fluids could migrate into any  
6 sources of drinking water?

7 A Yes, I have, and I don't -- I don't see  
8 any problems there.

9 Q Let's talk about sources of fresh water  
10 in the area.

11 Have you made an examination to determine  
12 whether there are any windmills or other producing water in  
13 the area of review?

14 A Yes, I have. There are no windmills in  
15 the area of the Lowe State No. 1.

16 Q If we use Exhibit Number Four can you  
17 tell us approximately where the two windmills are located?

18 A I'm really not sure of the distance but I  
19 know that there's a windmill just west of the No. 1 and  
20 there's one southeast of the No. 1.

21 Q Are all those windmills completed at such  
22 depths as they are shallow enough to be included within the  
23 interval in the disposal well that has been cased and  
24 cemented from surface to below the producing water sands?

25 A They are.

1           Q           Do you have an opinion as to whether or  
2 not the disposal well serves as any source of contamination  
3 for the produced fresh water in the area that's now being  
4 placed to a beneficial use?

5           A           I believe it's well isolated across any  
6 fresh water interval there.

7           Q           Let's turn to Exhibit Eleven, if you'll  
8 identify that exhibit for us.

9           A           That's just an analysis of the water from  
10 the respective windmill wells and you can see it's pretty  
11 good water.

12          Q           Okay. And you've not submitted an analy-  
13 sis of the produced water because you have the same water  
14 going back into the same formation.

15          A           That's correct.

16          Q           All right. Exhibit Twelve is simply the  
17 surface location survey, the C-102 form?

18          A           That's correct.

19          Q           All right. Now let's get to Exhibit  
20 Thirteen and have you describe for us the mechanics on the  
21 disposal well.

22          A           The Exhibit Thirteen is the way the well  
23 is completed as far as the casing program is concerned and  
24 also depicts where we plan to set our tubing, plastic-coated  
25 tubing and a Baker Model R at 9500 and put the water in the

1 existing perforations from 9565 to 9890.

2 Q Is the well to be completed in a manner  
3 consistent with the Commission rules for injection in dis-  
4 posal wells?

5 A Yes, it is.

6 Q And you'll fill the annular space between  
7 the casing and tubing with an inert fluid?

8 A Uh-huh.

9 Q You'll have a pressure gauge or some de-  
10 vice on the surface to detect leaks?

11 A That's correct.

12 Q All right, sir, and Exhibit Number Four-  
13 teen, then?

14 A Exhibit Fourteen is by certified mail our  
15 letter to notify the surface owner there, who does own the  
16 surface, Jerry Dean.

17 Q All right, sir, Exhibit Fifteen?

18 A Fifteen is a certificate of notice from  
19 the offset operators, being MWJ in Midland, and Charles Gil-  
20 lespie, also in Midland.

21 Q With Mr. Gillespie's notice and MWJ's  
22 notice including the Yates agreement, does that constitute  
23 all the operators within the half mile radius?

24 A Yes, it does.

25 Q And the last exhibit is the newspaper

1 publication?

2 A That's correct, in the Lovington news-  
3 paper.

4 Q Thank you, Mr. Hardy.

5 MR. KELLAHIN: That concludes  
6 our examination of Mr. Hardy.

7 We move the introduction of Ex-  
8 hibits One through Seventeen.

9 MR. STOGNER: Exhibits One  
10 through Seventeen will be admitted into evidence.

11

12 CROSS EXAMINATION

13 BY MR. STOGNER:

14 Q Referring to Exhibit Number Four, so I'll  
15 make sure everybody got notified --

16 A Uh-huh.

17 Q -- I have Yates Petroleum to the west.

18 A Uh-huh.

19 Q And to the northwest, that is MWJ?

20 A That's correct.

21 Q That's over there in Section 9.

22 A That's correct.

23 Q And immediately to the north, that's Mr.  
24 Gillespie's acreage?

25 A That's correct.

1 Q And also to the northeast in Section 10,  
2 the northeast quarter, that's Mr. Gillespie's also?

3 A That is correct.

4 Q Okay. Now I get kind of confused direct-  
5 ly to the east, those little 40-acre plats offsetting your  
6 80 acres.

7 A Uh-huh.

8 Q Whose are those?

9 A Okay, those are Yates.

10 Q Those are both --

11 A Yates Petroleum.

12 Q -- Yates?

13 A Yes, sir.

14 Q Then referring due east of them, I show  
15 that to be Morano or --

16 A That's Maralo.

17 Q Maralo.

18 A Maralo in Midland.

19 Q Okay. Were they notified?

20 A Well, they were; they should have been.

21 Q And while we're at that, too, --

22 A Uh-huh.

23 Q -- I show an Amerada well, the State "SG"  
24 No. 1.

25 A Yes, sir, that's the one that's plugged

1 and that's the one that's in my drilling report there.  
2 Yates now has that lease.

3 Q Yates now has that lease.

4 A That's right, and they drilled the Valen-  
5 tine State No. 1 there.

6 Q And while you're looking for that, let's  
7 go to the south and to the west. Now I show that to be  
8 Gulf, which is Chevron now, is that right?

9 A The south is Yates Petroleum Coquina  
10 State.

11 Q So they control all of Section 16?

12 A They control, let's see, that is Gulf,  
13 I'm sorry. I was looking at -- I was looking at 15. Gulf  
14 may have -- I guess they do have that, the north half of 16.

15 Q Okay, did you notify them?

16 A No, I did not.

17 Q Okay, directly to the south, that shows  
18 -- now that's Yates Petroleum, is that right?

19 A That's correct.

20 Q How about the northeast quarter of  
21 Section 15? I show that to be a D. E. Gonzales?

22 A That's -- that's what I see here, too.  
23 We did not notify him.

24 Q Looks like circle extends over --

25 A Yeah, just kind of a little bit in there.

1           Q           So notice needs to be sent to Mr. Gon-  
2 zales and you have -- you said that you did notify --

3           A           I thought we did. I was just checking.  
4 We did; I'm sure that we did, yeah. I just don't have that  
5 in this packet.

6           Q           All right, would you please submit to me  
7 evidence showing that Maralo, Gulf, and Mr. Gonzales --

8           A           Yes, sir, I will.

9           Q           -- have been notified?  
10                        Also on Exhibit Number Six, now you show  
11 Imperial American.

12          A           Uh-huh.

13          Q           They are no longer in business there and  
14 now --

15          A           That's correct.

16          Q           -- Yates Petroleum, or Yates took their  
17 acreage over, is that right?

18          A           That would be in the -- that's correct.  
19 Yates has that south half there of 9.

20          Q           Okay. Okay, let's go to the Lowe Well  
21 No. 1.

22          A           Okay.

23          Q           Could you give me some production history  
24 on that well?

25          A           The Lowe No. 1, when we shut it in, was

1 making 2 barrels of oil and 60 barrels of water, if that's  
2 sufficient.

3 Q Were those the original perforations you  
4 show on your Exhibit Number Five?

5 A Yes, that's correct.

6 Q Were other exhibits -- I mean were other  
7 zones opened up either below or above it?

8 A Yes, there's a cast iron bridge plug set  
9 there at 10,020 and there were some perforations below that,  
10 but they were wet.

11 Q Water wet with no gas or oil?

12 A That's right, that's correct.

13 Q And how much water was that Lowe No. 1  
14 making? I got 2 barrels of oil per day but how much water?

15 A 60 barrels.

16 Q 60 barrels of water, okay. And that was  
17 shut in when?

18 A That was shut in about six months ago.

19 Q I show there's about, what, 60 to 70 feet  
20 between the -- your completion in your No. 1 and No. 2 Well,  
21 is that right?

22 A Yes, sir.

23 Q Okay, what is between those two?

24 A Just -- there's really nothing productive  
25 between there.

1           Q           Is there an impermeable zone, is there  
2 communication?

3           A           No porosity. It's cemented.

4           Q           How about geologically speaking between  
5 the two, between that 60-foot interval? Is there any per-  
6 meable zones?

7           A           It's nonproductive. It's impermeable,  
8 right.

9           Q           With what?

10          A           Well, it's in the Permo -- in the top  
11 part of the Permo Upper Penn, and it's cemented through  
12 there, so --

13          Q           Mr. Hardy, the 60 foot between 9890 and  
14 9951, geologically, is that -- is there communication or the  
15 reservoirs, are they contiguous between that footage, or is  
16 there an impermeable layer of shale or something that separ-  
17 ates those two?

18          A           Well, there's an impermeable layer that  
19 separates that; below that is what you -- I mean it's not  
20 perforated there.

21          Q           Could you please explain to me what the  
22 impermeable layer is?

23          A           It's just a tight dolomite, dolomite  
24 lime; no porosity.

25          Q           Now, you didn't submit any evidence on

1 the water to be injected. You said it was from the same  
2 zone.

3 A Yes.

4 Q Is this indeed the same water?

5 A Yes, it is.

6 Q Although there is a tight dolomite separ-  
7 ating the two zones?

8 A Uh-huh.

9 Q Would you care to elaborate on that? Why  
10 do you think those two water zones are the same if there's  
11 no communication between them?

12 A Well, it's just Permo Upper Penn water  
13 which is basically -- it's all about the same as far as  
14 characteristics are concerned; chlorides.

15 Q Now, you alluded to the windmills to the  
16 west and southeast. About how far are those windmills,  
17 roughly?

18 A Mr. Examiner, I really don't know the  
19 distance.

20 Q Can you see them?

21 A Yes, sir, you can see there. They're in  
22 there in the same section.

23 Q They're in the same section?

24 A Right.

25 Q So they would be within a quarter of a

1 mile?

2 A Yes, sir, I would say that.

3 Q And I assume Mr. -- those are Mr Dean's  
4 wells, Jerry Dean?

5 A Yes, sir.

6 Q I'm sorry, I probably missed the injec-  
7 tion pressure. What is the maximum injection pressure you  
8 plan to use?

9 A We plan to put this in in a vacuum and if  
10 it won't go on a vacuum we won't -- this won't be a disposal  
11 well.

12 Q How would you -- how do you intend to  
13 limit yourself to 40 barrels a day and what mechanical mech-  
14 anism?

15 A We plan -- well, that's -- we know what  
16 the well makes. It's 35 to 40 barrels a day, and that's  
17 what we're going to put in there and if Yates doesn't feel  
18 that that's right or they want more, they said they'll pay  
19 to have it monitored, which suits us fine.

20 Q Okay.

21 MR. STOGNER: I have no further  
22 questions of Mr. Hardy at this time.

23 Are there any other questions  
24 of this witness?

25 MR. KELLAHIN: No, sir. We'll

1 go ahead and notify those other offset operators and provide  
2 you notification proof.

3 MR. STOGNER: It would maybe  
4 expedite it if they could send a waiver and we could get  
5 this out.

6 MR. KELLAHIN: Okay.

7 MR. STOGNER: Mr. Carr, do you  
8 have anything you wish to add in this case?

9 MR. CARR: No questions.

10 MR. STOGNER: Okay, Mr. Hardy,  
11 you may step down.

12 Is there anything further from  
13 anybody in Case 8926?

14 If not, this case will -- I'm  
15 going to leave the record open pending the information from  
16 or for Mr. Gonzales, Gulf, and Maralo.

17

18 (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. \_\_\_\_\_ heard by me on \_\_\_\_\_ 19\_\_\_\_.

\_\_\_\_\_, Examiner  
Oil Conservation Division