1	STATE OF NEW MEXICO
2	ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION
3	STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO
4	28 November 1984
5	EXAMINER HEARING
6	
7	
8	IN THE MATTER OF:
9	Application of Braden-Deem, Inc. for salt water disposal, Roosevelt CASE
10	County, New Mexico. 8423
11	
12	
13	
14	BEFORE: Michael E. Stogner, Examiner
15	
16	TRANSCRIPT OF HEARING
17	
18	AFPEARANCES
19	
20	For the Oil Conservation Jeff Taylor
21	Division: Attorney at Law Legal Counsel to the Division State Land Office Bldg.
22	Santa Fe, New Mexico 87501
23	For the Applicant:
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.

Sieg W. Boyd Core

a complete record of the proceedings in the Examiner hearing of Case No. 8423 heard by me on Agreember 28 19 84 -

what the grave, Examiner

Oll Conservation Division

	
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3	OIL CONSERVATION DIVISION STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO
4	28 November 1984
5	EXAMINER HEARING
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8	IN THE MATTER OF:
9	Application of Inexco Oil Company for a unit agreement, Chaves CASE
10	County, New Mexico. 8410
11	
12	
13	BEFORE: Michael E. Stogner, Examiner
14	
15	TRANSCRIPT OF HEARING
16	
17	APPEARANCES
18	
19	For the Oil Conservation Jeff Taylor Division: Attorney at Law
20	Legal Counsel to the Division State Land Office Bldg.
21	Santa Fe, New Mexico 87501
22	For the Applicant:
23	
24	
25	

-	
1	2
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3	MR. STOGNER: Call next Case
4	Number 8410.
5	MR. TAYLOR: Application of
6	Inexco Oil Company for a unit agreement, Chaves County, New
7	Mexico.
8	This case has also been
	requested to be continued.
9	MR. STOGNER: Case Number 8410
10	will also be continued to the Examiner Hearing scheduled for
11	December 19th, 1984.
12	
13	(Hearing concluded.)
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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.

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1	STATE OF NEW MEXICO		
2	ENERGY AND MINERALS DEPARTMENT		
	OIL CONSERVATION DIVISION STATE LAND OFFICE BUILDING		
3	SANTA FE, NEW MEXICO		
4	19 December 1984		
5	EXAMINER HEARING		
6			
7			
8	IN THE MATTER OF:		
9	Application of Braden-Deem, Inc. CASE for a waterflood project, Roosevelt 8423		
10	for a waterflood project, Roosevelt 8423 County, New Mexico.		
11			
12			
13			
14			
15	BEFORE: Gilbert P. Quintana, Examiner		
16	TRANSCRIPT OF HEARING		
17			
18	APPEARANCES		
19			
20	For the Oil Conservation Jeff Taylor Division: Attorney at Law		
21	Legal Counsel to the Commission State Land Office Bldg.		
	State Land Office Ridg. Santa Fe, New Mexico 87501		
22			
23	For the Applicant: W. Perry Pearce Attorney At Law		
24	MONGOMERY & ANDREWS P. O. Box 2307		
25	Santa Fe, New Mexico 87501		

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2		
3	MR. QUINTANA: We'll call next	
4	Case 8423.	
5	MR. TAYLOR: The application of	
6	Braden-Deem, Inc. for a waterflood project, Roosevelt	
7	County, New Mexico.	
	MR. PEARCE: May it please the	
8	Examiner, I am W. Perry Pearce, appearing in this matter on	
9	behalf of the Applicant.	
10	I have one witness who needs to	
11	be sworn.	
12	MR. QUINTANA: Are there other	
13	appearances in this case?	
14	If not, will the witness stand	
15	and be sworn at this time?	
16	/Mithoda arram	
17	(Witness sworn.)	
18	JOE D. RAMEY, being called as a witness and being duly sworn upon his	
19	oath, testified as follows, to-wit:	
20	outh, testified as forlows, to wit.	
21	DIRECT EXAMINATION	
22	BY MR. PEARCE:	
23	Q All right, sir, for the record would you	
24	please state your name and by whom you're employed in this	
25	matter?	

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1
                                                     5
   a red circle, approximately a half mile from the injection
2
   well, which is the only water well, fresh water well, in the
3
   area.
4
                      All right, sir. Could you tell the Exa-
5
          for the record the amount of fluid that Braden-Deem
   miner
6
   proposes to inject into this well and under what pressures?
7
            Α
                        This will be approximately 300 barrels
8
   per day of San Andres produced water from the -- from their
9
   leases and from other leases in the area, and we are re-
10
   questing an injection pressure not to exceed the .2 of a
   pound, which with the top perforations at 4189 would figure
11
   out to be 837.8 psi.
12
                       All right, sir. Would you please turn to
13
    what's been marked as Exhibit Number Two and discuss that
14
   for the Examiner, please?
15
                        Exhibit Number Two, the first sheet
             Α
                                                              is
16
    just the -- well, Exhibit Two is Commission Form C-108.
17
                       The first sheet has an error under
18
    where it says is this -- no, I guess --
                       Yeah.
19
             0
                        Is there substantial existing product --
20
    project? Mine says "no".
21
             Q
                       Okay.
22
                                 MR. QUINTANA: Mine says "yes".
23
                       All right.
             Q
24
                       All right, it should say "no", Mr. Exam-
             Α
25
    iner.
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And, Mr. Ramey, under that Item No. 4 on the first page of Form C-108 there is mention of a Marathon Oil Company Well, the State No. 1. That is another disposal well, is that correct?

A Yes. That's a disposal well which is approximately 3/4 of a mile south and east of the --

Q Thank you.

A -- Braden-Deem No. 6 Well.

Sheet No. 2 is the information for the injection well in this case, the State "DB" No. 6. This well was -- has surface pipe at 448 feet, circulated with cement, and has 4-1/2 at 4430, cemented with 800 sacks. 800 sacks should have circulated cement, it didn't, but it should be tied back at least to the top of the salt.

The perforated interval is perforations 4189 to 4327, and injection would be down plastic-coated tubing below a packer to be set within 100 feet of perforations and the annular space will be filled with an inert fluid and the casing-tubing annulus will be monitored for any leaks of the tubing or packer.

Q All right, sir, let's move to Exhibit Number Three, if you would, please.

A Exhibit Number Three is a copy of the well log for this particular well.

The first sheet is the information sheet.

It's labeled PanAmerican Petroleum Corporation, State of New

Mexico "DB" No. 6, but it is the Braden-Deem "DB" No. 6.

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Q All right, sir.

should have 14-1500 feet of cement over -- above the

tion zone in any of these wells within a half mile.

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PEARCE: Just for clarifi-MR. cation of the record, Mr. Examiner, the top of cement column Exhibit Number Four is in each case marked "surface". Ramey has done a sample calculation on one of those wells for actual cement outside the 4-1/2 inch.

That cement to surface was only on the surface casing in each instance.

Α I might point out, Mr. Examiner, that the first well on the second sheet is the Braden-Deem, Inc. State "DB" Well No. 4 and that well is plugged and abandoned.

While we're addressing that, Mr. Ramey, would you go to what has been marked as Exhibit Number Five and discuss the plugged well?

Α That is a schematic diagram of the State "DB" Well No. 4.

This well had 4-1/2 inch casing. first, 8-5/8ths inch casing set at 450 feet and cemented with 250 sacks and cement circulated.

Had 4-1/2 inch casing at 4410, cemented with 800 sacks.

plugging the well a 50 sack cement plug was placed over the perforated interval from 4208 to 4263. The hole was then loaded and the plug was tested with no leakage.

Pipe, 4-1/2 casng was shot off at 1074 and 50 sack plug was placed at that point and then a 50

25

sack plug was -- was placed in and out of the shoe of the 8-5/8ths inch casing and a 10 sack plug at the surface, which certainly should give us adequate protection from injection. This well would be no hazard to injection in offsetting wells. Okay. Mr. Ramey, earlier in your testimony you mentioned a water well to the southeast of the proposed injection well. Has the applicant caused a sample of that water to be taken? Α Yes. That well has been sampled and the sample sent off to a laboratory and unfortunately it did not get here in time for the hearing, but we will submit that as soon as it's available. Q All right, sir. And, finally, if you would address Exhibit Number Six. Before I do that, Mr. Pearce --Α Yes, sir. Q -- I would like to say that fresh water in the area is either from a remnant of the Ogallala or from -- from the Redbeds, from sand members in the Redbeds, it's found no deeper than 150 feet in this area; very sparse 0 Thank you, sir. And now the next exhibit is just notifications that the company has made to -- to offset operators. Q All right, sir.

Finally, Mr. Ramey, pursuant to statute the Division is charged with regulating the disposition of produced water in a manner to afford reasonable protection against contamination of fresh water supplies designated by the State Engineer.

In your expert opinion, sir, does the proposed injection operations of the applicant in this case afford such reasonable protection?

A Yes, I think that the well, the way all wells are cased and cemented in this area, there is no danger of injected fluids leaving the injection zone, and certainly the casings do and will protect the fresh waters in the area.

Q Thank you, sir. Do you have anything further at this time?

A No, I do not.

MR. PEARCE: Mr. Examiner, I would move the admission of Exhibits One through Six and we have nothing further on direct.

MR. QUINTANA: Exhibits One through Six will be accepted in evidence.

CROSS EXAMINATION

BY MR. QUINTANA:

Q Mr. Ramey, I have a question for you.

Noticing the plats, the well plats showing the location of the wells, directly to the west of Well

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and on my map it shows it to be plugged and abandoned.

6, the proposed injection well, there is a Well No. 8

you have a schematic of that plugged and abandoned well or what is the status of that well?

Examiner, I checked the well file on Mr. that well and there is no -- no indication that the well is plugged and abandoned in the well file.

shows it to be temporarily abandoned; not -- at least the paperwork has not been submitted showing it to be plugged and abandoned.

Mr. Examiner, one thing I did not cover, these wells are certainly, all the wells on the lease, there are seven producing wells and in September they produced 174 barrels of oil, so the wells are in an advanced stripper stage and cumulative production through 1983 is -- was 699,371 barrels.

is the potential on a There one-to-one ratio of primary versus secondary of a lot of oil being recovered off this lease.

MR. TAYLOR: Was it your testimony that you did -- that notice went to all the operators? Α Yes, all offset operators.

The lease in the south half of Section 26 the west is operated by Stringer Oil and Gas. The plat shows, I think, Clinton Oil or Tenneco, or both.

All offset operators plus the Land Office, Commissioner of Public Lands, were notified of this

Ιf

not, there is one

further

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   thing.
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                      One last thing, Mr. Ramey.
             Q
3
                       Would you please have your client, or
4
   would it be too much trouble to have your client pressure
5
    test the casing before injection is commenced in this well?
6
                       No, I think that --
7
                       For mechanical integrity.
8
             Α
                        Do you have any -- any range that you
    would like to see?
9
                       Well, you can consult with our District
             0
10
    office, whatever they find out, if we could test the casing,
11
    it would be fine with me.
12
             Α
                       All right.
13
                                 MR.
                                      QUINTANA: If there is no-
14
    thing further in this case the witness may be excused.
15
                                 Case 8423 will be taken under
16
    advisement.
17
                        (Hearing concluded.)
18
19
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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.

Surry W. Boyd COR

I do hereby certify that the foregoing is a complete record of the proceedings in the Evantirar meaning of Case No. 8423 heard by reon <u>Dec. 19</u> 19.84.

Oil Conservation Division