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EXAMINER HEARING

SANTA FE , NEW MEXICO

Hearing Date_

AUGUST 6, 1986

Time: 8:15 A.M.

NAME	REPRESENTING	LOCATION
Harvey Yates In	Cibola Energy comp	Albuquesque
STOUE JENSEN	1 10) 1
Juel Causer	Losset Carson PA	Ateria
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T. Lyen	OCD	Santa Fe
ADAVIDSON	INDEPT.	MIDLAND
hegory a phillyis	MESA GRANDE RESOURCES, INC	Tulsa
re a fany	Osborn Heirs Co,	Hobbs
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NAME		RE	PRESENTIN	G		LOCATION
Hearing Date_			AUGUST	6, 1986	Time	8:15 A.M.
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			TA FE ,	NEW MEXICO		
		EXAMIN	ER HEARING	;		
	NEW MEX	XICO OIL CON	SERVATION	COMMISSION		
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	STATE OF NEW MEXICO					
1	ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BUILDING					
2	SANTA FE, NEW MEXICO					
3	6 August 1986					
4						
5	EXAMINER HEARING					
6						
7	THE WARDS OF					
8	IN THE MATTER OF:					
9	Application of Osborn Heirs Company CASE for salt water disposal, Lea County, 8954					
10	New Mexico.					
11						
12						
13						
14	BEFORE: Michael E. Stogner, Examiner					
15						
16						
17	TRANSCRIPT OF HEARING					
18						
19	APPEARANCES					
20	For the Oil Conservation Jeff Taylor					
21	Division: Attorney at Law Legal Counsel to the Division					
22	State Land Office Bldg. Santa Fe, New Mexico 87501					
23	Santa Tey New Mexico 07501					
24	For the Applicant: William F. Carr					
25	Attorney at Law					
	CAMPBELL & BLACK P. A. P. O. Box 2208 Santa Fe, New Mexico 87501					

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1
2
                                MR. STOGNER: Call next Case
3
   8954.
                                MR. TAYLOR: The application of
5
   Osborn Heirs Company for salt water disposal, Lea County,
   New Mexico.
7
                                MR. CARR:
                                            May it please the
8
   Examiner, my name is William F. Carr, with the law firm
   Campbell & Black, P. A., of Santa Fe. We represent Osborn
10
   Heirs Company and I have one witness.
11
                                MR.
                                     STOGNER: Are there any
12
   other appearances?
13
                                There being none, will the wit-
14
   ness please stand and be sworn.
15
16
                         (Witness sworn.)
17
18
                          JOE D. RAMEY,
19
   being called as a witness and being duly sworn upon his
20
   oath, testified as follows, to-wit:
21
22
                        DIRECT EXAMINATION
   BY MR. TAYLOR:
```

Will you state your full name and place

24

0

of residence?

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1
            Α
                      Joe D. Ramey, and I reside in Hobbs, New
2
   Mexico.
3
                       Mr. Ramey, by whom are you employed and
            0
   in what capacity?
5
            Α
                        I'm a consultant to Osborn Heirs in this
6
   case.
7
            Q
                       Have you previously testified before this
8
   Division and had your credentials accepted and made a matter
   of record?
10
            Α
                       Yes, I have.
11
                       And how were you qualified at that time,
             Q
12
   as a petroleum engineer?
13
             Α
                       As a petroleum engineer.
14
             Q
                       Are you familiar with the application
15
   filed in this case and the subject well?
16
             Α
                       Yes, I am.
17
                                 MR.
                                      CARR:
                                              Are the witness'
18
   qualfications acceptable?
19
                                 MR. STOGNER: Yes, they are.
20
             0
                       Mr.
                           Ramey, would you briefly state what
21
   the Osborn Heirs Company seeks with this application?
22
             Α
                        Osborn Heirs Company seeks to convert
23
          Mattie Price No. 6 to a salt water disposal well
    their
24
   handle up to about 4500 barrels of water per day, which
25
   produced from their Mattie Price lease, three wells present-
```

1 ly producing and one temporarily abandoned well, and this 2 well is located in Unit G of Section 6, Township 17 South, 3 range 38 East. And this request is for a well to dispose 5 of water produced from this one lease? 6 Α Yes, it is Devonian -- water produced 7 from the Devonian to be disposed of back into the Devonian 8 producing horizon. 9 Would you identify what -- for the exam-10 iner what has been marked as Osborn Exhibit Number One? 11 Exhibit One is the complete application 12 necessary for this case. 13 0 And this previously was filed with the 14 Oil Conservation Division? 15 Α Yes, it was. 16 0 Would you refer to page two of Exhibit 17 Number One. identify this and review the information con-18 tained thereon? 19 Α Page two is a plat of the area and it has 20 three circles. 21 The first circle is around the injection 22 well. The second circle is the half mile area of review, 23 and the larger circle is the two-mile radius circle around

25 Q And this plat shows the lease ownership

24

the disposal well.

within the area?

2

Yes, it does. Α

3

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Would you now go to page three of Exhibit Number One and identify this?

5

Α This is the injection well data sheet.

mation on the well.

6

It has a schematic of the injection well and all the infor-

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There are some corrections I would like

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to make at this time.

The schematic shows a perforated interval from 10,262 to 10,296, which was to be isolated with pack-The applicant, or the Osborn Heirs Company has advised that they are in the process of squeezing that interval off and so they will squeeze that with an adequate amount of cement and then the upper packer will not be placed in the w∈11.

So if you would, Mr. Examiner, make that correction on your -- your copy.

MR. STOGNER: Please repeat that again, Mr. Ramey.

The perforations that are shown open from 10,262 to 10,296, those are Wolfcamp perforations. The well was tested in the San Andres and Wolfcamp. The San Andres was squeezed off. The Wolcamp was left open and they initially proposed to inject below, you know, the bottom pack-

er, but they were going to isolate the perforated interval 1 with another packer. 2 3 They are now going to squeeze that interval and so the upper packer, the one that is located at around 10,000 feet will not be placed in the well. 5 be a standard disopsal well into the Devonian with 2-7/8ths plastic coated tubing below a packer to be set at 7 8 about 12,800 feet. 9 just scratch the upper packer on the schematic diagram and then make a notation that the open 10 perforations will be squeezed prior to injection. 11 12 MR. STOGNER: Okay, thank you. So the packer which we're talking about now is the one being 13 set at 12,800 foot. 14 15 Α Yes. That packer will remain in the hole. 16 17 MR. STOGNER: Okay, thank you, 18 Mr. Ramey. 19 Please continue, Mr. Carr. 20 Mr. Ramey, you testified that the Now, disposal would be through lined tubing. 21 22 Α Yes. 23 Will the annular space be filled with inert fluid?

The annular space will be filled with an

25

Α

inert fluid and the well will be pressure tested prior to injection and some kind of gauge will be installed at the surface to insure that the packer and tubing are holding.

Q And this will all be done in a fashion in conformance with the Federal Underground Injection Control Program.

A Yes.

Q Would you now refer to page four of Exhibit Number One, identify this, and review it, please?

A Page four are the -- is a listing of the wells within the area of review. There are four wells. They're all Osborn operated wells, and they're all on the Mattie Price lease.

The Wells Nos. 1, 2, and 3 are producing wells. Well No. 4 is temporarily abandoned at this time but they do intend to re-enter this well and install low volume pumping equipment and try to skim some oil off the top of the water.

Q All of the water is being produced from the Devonian?

A Yes, sir.

Q What is presently being done with this water?

A It is being disposed of into a disposal well in Section 32 of 16 South, 38 East. The well is in --

shows on the plat as a dry hole symbol in the southwest of 1 the southwest of 32. 3 What is the current status of this well? That well recently had some mechanical 5 problems and has -- is shut down as a disposal well, and the lease is shut down at this time. 7 Does the Osborn Heirs Company therefore request that an order in this case be expedited to the fullest extent possible? Yes, they would. 10 What is going to be the maximum daily in-11 0 12 jection rate? It will be a maximum of 4500 barrels. 13 Α 14 And will you be -- will the system be an 15 open or a closed system? 16 It will be a closed system. Α 17 Q Do you anticipate injecting under pres-18 sure or by gravity? 19 We think it will go in by gravity; 20 ever, we do request the Division give us the maximum pressure allowed of 2577 psi, which is the 0.2 of a pound per 21 foot from the surface to the top of the perforations, or the open hole. 23 24 Are there fresh water zones in this area? Q 25 Α Yes, the Ogallala is present in this

10 1 area. The depth to the base of the Ogallala is about 300 feet. 3 Q Are there any fresh water wells within the area of review? 5 Α There are no fresh water wells within a 6 mile of the disposal well. 7 Ramey, in preparing for this hearing Q Mr. 8 have you examined the available geologic and engineering da-9 ta on this area? 10 Yes, I have. Α 11 As a result of this examination have you 12 found any evidence of open faults or other hydrologic con-13 nections between the disposal zone and any underground 14 source of drinking water? 15 Α No, there are -- there are none that I 16 could find. 17 Is a log of the proposed injection well 18 on file with the Oil Conservation Division? 19 Yes, it's -- it's in the Hobbs Office. 20 Has notice of this application been pro-21 vided to the other interest owners within the area of review 22 and the surface owner?

24 notified by certified mail and I see you do have the re25 ceipts, Mr. Examiner, of the certified mailings.

1 11 2 Ι did get three of these back from Free-3 port Oil, Avance Oil, and Vernon E Falconer, if you --MR. CARR: Mr. Stogner, we'll 5 leave these with you to include in the file. Those are the only letters that were returned. 7 0 And the surface owner of this property, 8 Mr. Ramey, is that Mattie Price? 9 Α That is Mattie Price, yes. 10 So all interest owners in the area of re-11 view and Mattie Price have been notified in accordance with 12 Division rules. 13 Α Yes, that is correct. 14 In your opinion will granting this appli-Ô 15 cation be in the best interest of conservation, the preven-16 tion of waste, and the protection of correlative rights? 17 Α Yes, it will. 18 Was Exhibit Number One prepared by you or 19 compiled under your direction and supervision? 20 It was prepared by me. Α 21 MR. CARR: At this time, Mr. 22 Stogner, we would offer into evidence Osborn Heirs Company Exhibit Number One. 24 MR. STOGNER: Exhibit Number 25

One will be admitted into evidence.

12 1 MR. CARR: And that concludes 2 my direct examination of Mr. Ramey. 3 CROSS EXAMINATION 5 BY MR. STOGNER: 6 C Mr. Ramey, let's refer to page number 7 three, which is your schematic, again. Let me see, you 8 showed the top of the cement at 12,822, and that was deter-9 mined by a temperature survey? 10 Α Yes, sir. 11 Q And you propose to set the packer 12 12,800 feet? 13 Α Yes. 14 That's 22 foot, approximately 22 foot 15 above the top of the cement on the outside of the casing, is 16 that correct? 17 Α Stogner, we can set that probably Mr. 18 deeper than that, if necessary. 19 I would point out that, you know, 20 to testing the Wolfcamp and the San Andres in this well, 21 that the well was perforated at -- at 10,010 to 10,011 and 22 10,050 to 10, -- 10,550 to 10,551, and then it was block squeezed with 115 sacks, so there is cement above this. 24 Evidently the Devonian took -- took

cement when they attempted to cement the casing,

they

25

really didn't get a whole lot of cement back up on it.

But the casing is set at 12,887 and the top of the cement was at 12,008 to 22, so there was only 55 feet of cement on the primary cementing job, but there was a secondary cementing job which should isolate some of the upper zones.

But we'll be happy to set the packer down clear to the shoe if you would desire.

Q Okay, thank you, I'll keep that in mind.

I'm looking at page four, which is, I assume these are also the source wells of the water, is that
correct?

A Yes, sir, that is correct.

Q And only two of these wells are producing from the same level as your injection, is that correct?

A Three. The Wells Nos. 1, 2, and 3 are presently producing and Well No. 4 is shut in. All of the wells are producing from the Upper Devonian, Mr. Stogner, and the disposal will be into the Upper Devonian.

In looking at the difference between the perforated interval on Well No. 2 and Well No. 3, I show to be about a, what, 200 foot difference. Is this due to topography or is there a different, totally different zone, or is the formation dipping or --

A I know that the formation is dipping.

It's kind of a small dome, sort of a pimple in there, and I wouldn't think the topography would be to that effect, so I 2 assume that it has fallen off. I think -- I think your high 3 is on, you know, the area of the Wells No. 1 and 2 and then it falls off to the south and to the east and to the west and to the north. All the way around. MR. STOGNER: I have no further 7 questions of this witness at this time. Are there any other questions 9 of Mr. Ramey? 10 MR. CARR: Nothing further. 11 MR. STOGNER: If not, he may be 12 excused. 13 Is there anything further 14 Case Number 8954? 15 If not, this case will be taken 16 under advisement. 17 18 (Hearing concluded.) 19 20 21 22 23 24 25

CERTIFICATE

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.

Souly W. Boy & CSR

do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 8954.

The Examiner hearing of Case No. 1986.

The Examiner hearing of Case No. 1986.

The Examiner hearing of Case No. 1986.

Oil Conservation Division