1	STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT		
2	OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO		
3	25 July 1984		
4	EXAMINER HEARING		
5			
6			
7			
8	IN THE MATTER OF:		
9	Application of Phillips Oil Company CASE for salt water disposal, Lea County, 8279		
10	New Mexico.		
11			
12	BEFORE: Michael E. Stogner, Examiner		
13	Barona Tronact 20 Boognot, Bramero		
14	TRANSCRIPT OF HEARING		
15			
16			
17	APPEARANCES		
18			
19	For the Oil Conservation W. Perry Pearce Division: Attorney at Law		
20	Oil Conservation Commission State Land Office Bldg.		
21	Santa Fe, New Mexico 87501		
22	For the Applicant: Karen Aubrey Attorney at Law		
23	KELLAHIN & KELLAHIN P. O. BOX 2265		
24	Santa Fe, New Mexico 87501		
25			

1		2	
2			
3	INDEX		
4			
5	JOHN C. UPCHURCH		
6	Direct Examination by Ms. Aubrey	4	
7	Cross Examination by Mr. Stogner	14	
8			
9			
10			
11	EXHIBITS		
12			
13	Phillips Exhibit One, C-108	5	
14	Phillips Exhibit Two, Well Data	5	
15	Phillips Exhibit Three, Wellbore Sketch	5	
16	Phillips Exhibit Four, Map	6	
	Phillips Exhibit Five, Plat	7	
17	Phillips Exhibit Six, Table	7	
18	Phillips Exhibit Seven, Schematic	8	
19	Phillips Exhibit Eight, Schematic	8	
20	Phillips Exhibit Nine, Schematic	8	
21	Phillips Exhibit Ten, Schematic	8	
22	Phillips Exhibit Eleven, Schematic	8	
23	Phillips Exhibit Twelve, Schematic	8	
24	Phillips Exhibit Thirteen, Schematic	8	
25	Phillips Exhibit Fourteen, Schematic	8	
23	Phillips Exhibit Fifteen, Schematic	8	

Į

1				3	-
2					
3			EXHIBITS		
4					
5	-		Sixteen, Schematic	8	
6			Seventeen, Document	10	
7			Eighteen, Water Analysis	10	
			Nineteen, List	13	
8			Twenty, Receipts	7	
9	Phillips	Exhibit	Twenty-one, Advertisement	7	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

1	4		
2			
3	MR. STOGNER: We will now call		
4	Case Number 8279.		
5	MR. PEARCE: That case is on		
6	the application of Phillips Oil Company for salt water		
7	disposal, Lea County, New Mexico.		
	MS. AUBREY: Karen Aubrey,		
8	Kellahin and Kellahin, representing the applicant.		
9	I have one witness to be sworn.		
10	MR. PEARCE: Are there other		
11	appearances?		
12			
13	(Witness sworn.)		
14	JOHN L. UPCHURCH,		
15	being called as a witness and being duly sworn upon his		
16	oath, testified as follows, to-wit:		
17			
18	DIRECT EXAMINATION		
19	BY MS. AUBREY:		
20	Q Would you state your name and occupation,		
21	please?		
22	A John Upchurch. I'm Associate Reservoir		
	Engineer with Phillips Oil Company in Odessa, Texas.		
23	Q Mr. Upchurch, have you previously testi-		
24	fied before this Commission and had your qualifications made		
25	a matter of record?		

22

24

25

well completion. It shows the approximate setting depth for the injection tubing, the packer, and the injection interval.

that right?

25

1		7
2	A	Yes, that's correct.
3	Q	Can you tell us what formation the well
4	originally produce	d in?
5	А	It was originally a Ranger Lake Penn pro-
	ducer.	
6	Q	Do you know how long it produced?
7	А	No, not exactly.
8	Q	Have you contacted consenting I'm sor-
9	ry, contacted adj	oining operators and received waivers from
10	them for the use o	f this well as a salt water disposal?
11	А	We have notified all the offset operators
12	of the proposed w	ater injection or water disposal project
13	and to this date r	eceived no word from them at all.
	Q	Let me refer you quickly to your Exhibits
14	Twenty and Twenty-	one. Those show your notification of the
15	adjoining operator	S.
16	А	Exhibit Twenty is copies of the certified
17	mail receipts that	we sent to the offset operators and Exhi-
18	bit Number Twent	y-one is a copy of the legal notification
19	that was published	in the <u>Hobbs News Sun</u> .
20	Q	And you testified that you've received no
21	you have not re	ceived any waivers from the adjoining op-
22	erators. Have you	received any objection from them?
	A	No, we have not.
23	Q	Mr. Upchurch, let's look at Exhibit Num-
24	ber Five now I'	m sorry, Number Six now, which is a table
25	of the offset well	s. Do you have that in front of you, sir?

1 A Yes, I do. 2 I understand that there's been a 3 graphical error on this exhibit and that the drilling date 4 on the Ranger D-5 is incorrect. 5 For the Examiner's consideration can you 6 correct that on the record? 7 Α Yes. The drilling date on the Ranger D-5 8 was erroneously listed as June 15th, 1984. The well was actually completed June 4th, 9 1959. 10 Is the other information listed on Exhi-11 bit Number Six correct --12 Α Yes. 13 Q To your knowledge? 14 Α To my knowledge it is correct. 15 Now let me refer you to Exhibits Seven 16 through Twelve -- Seven through Sixteen. Can you tell **17** what those are? Α Yes. Exhibits Seven through Sixteen are 18 wellbore sketches of all the wells in the area of review, 19 the half mile circle, that have been previously plugged and 20 abandoned. 21 0 Are there any producing wells within the 22 area of review? 23 Α No, there are not. 24 Do Exhibits Seven through Twelve show the 25 injection zone, the proposed injection zone in the Ranger

1 No. 6? 2 Yes, they do. Α 3 So that from these schematics 0 you can 4 draw a correlation between the proposed injection zone and 5 the top of the cement in the wells shown on Exhibits 6 through Sixteen. 7 Yes, you can. Α 8 Let me take you quickly through each one O 9 of those, Mr. Upchurch, and have you explain to the Examiner where the top of the cement is in each of these plugged 10 abandoned wells. 11 Okav. Starting with the Ranger No. 3, 12 the correlate Ranger Lake Penn Zone is 10,334 to 10,344. 13 cement outside the 5-1/2 inch production casing as at The 14 feet and inside the casing is at approximately 10,135 855 15 feet. 16 The Ranger D No. 5, the correlative zone 17 is 10,241 to 10,327. Outside of the 5-1/2 inch casing top of cement is --18 MR. STOGNER: Is that listed on 19 Exhibit --20 Yeah, it is. It's inadvertently left off 21 of there. It's at 900 feet. 22 Inside the casing the cement's at 9900 23 feet. 24 On the No. 10, cement outside the pipe is

at 308 feet and inside it's at 9926 -- 9752, excuse me.

25

No. 11, outside the pipe the top of cement is at 3075; inside it's at 9950.

No. 15, the correlative zone was not perforated in this well. It's at approximately 10,200 feet. The top of cement outside the pipe is at 7200 feet. There is cement inside the pipe at 10,410 feet, cast iron bridge plug at 9995, and again cement at 9780.

The Ranger Lake Unit Tract 2 Well W-4, top of cement outside the pipe is at 2810 and inside the pipe is at 10,240.

On the Ranger Lake Unit Tract 2 No. 9, top of cement outside the pipe is at 308 feet and inside the pipe is at approximately 9460.

Q Mr. Upchurch, let me ask you to stay on Exhibit Thirteen for a moment. I note that there's no intermediate plug set in that well. Can you explain that, please?

A At the time that this well was plugged and abandoned the -- this propose abandonment procedure was approved by the Conservation Division. It doesn't quite meet up to what they require today but I believe it's adequately plugged to protect against any damage to the fresh water in the area.

There's sufficient cement inside the casing to prevent water flow coming in from the correlative Ranger Lake Penn zone and top of the cement outside the pipe is sufficient to prevent water to come up outside the 5-1/2

11 1 inch casing. 2 MR. STOGNER: When was this 3 well, the Tract 2 No. 9, when was it plugged and abandoned? 4 That's listed on Exhibit Six and it was Α 5 in '71. 6 MR. STOGNER: Thank you. 7 Α Going on, the next well is Ranger Lake 8 Tract 2 No. 14. The correlative zone is 10,224 It has cement below that at approximately 12,800 9 10,326. and above that at approximately 10,196; cement outside the 10 pipe is at 9395. 11 The State 22 No. 1, the zone is 10,286 to 12 Cement inside the pipe is approximately 10,240 and 10,370. 13 outside the pipe at 5,650. 14 The State "BF" No. 1, the zone is 10,226 15 10,333. There's cement inside the pipe at 10,080 and 16 outside the pipe at 7120. **17** 0 Mr. Upchurch, let me refer you to Exhibit Number Seventeen. Does that indicate what proposed stimula-18 tion program you intend to perform on this well? 19 Yes, it does. Α 20 Going on to Exhibit Eighteen, 0 is that a 21 fresh water analysis of all fresh water wells within a one 22 mile radius?

23

A Yes, it is.

24

25

Q Mr. Upchurch, as an expert can you state that you have examined the available geologic and find no

annular space between the 5-1/2 inch casing and the

25

1	15	
2	Q In your opinion, Mr. Upchurch, will th	ıe
3	granting of this application protect correlative rights	;,
4	prevent waste, and promote conservation?	
5	A Yes, it will.	
	Q Were Exhibits One through Twenty-one pro	– į
6	pared by you or under your supervision and direction?	
7	A Yes, they were.	
8	MS. AUBREY: Mr. Examiner,	I
9	offer Exhibits One through Twenty-one, and that concludes of	ny
10	examination of this witness.	
11	MR. STOGNER: Exhibits On	ne
12	through Twenty-one will be admitted into evidence.	
13	CROSS EXAMINATION	
14	BY MR. STOGNER:	
15		_
16		= ,
17	which is your proposed completion schematic. A Yes, sir.	
		~
18	Q You propose to run 2-3/8ths inch tubing Would that be plastic lined or internally coated?	1•
19		_
20		3
21	is what it's called.	
22	Q Going to Exhibit Eighteen, which is you	
23	fresh water analyses, is this the is this all of the state water wells within that half mile radius?	16
I	i waser wells within that half mile facilis?	

It's all the wells within a one mile rad-

24

25

ius.

Α

1 One mile, excuse me. You presented some 2 testimony today about the source water that will be injected 3 into here. Do you have any analysis run on that or 5 do you have any in your -- in your -- in your office? 6 Α We don't have any recent samples run. If 7 that's required we could get one run and submit it at 8 later date. My thinking on that was that since 9 well, all of the wells come from the Bough C Penn -- Ranger 10 Lake Penn zone it's all commingled. We couldn't get separ-11 ate samples, anyway, so I just considered it all produced 12 water. 13 And this source water is all off of 0 14 Ranger Lake lease? 15 Α Yes, just those three wells that I 16 tioned. 17 MR. STOGNER: I have no further questions of Mr. Upchurch. 18 there any other questions Are 19 of this witness? If not, he may be excused. 20 there anything further in Is 21 Case Number 8270 this morning? 22 MS. AUBREY: I have nothing. 23 MR. STOGNER: Does anybody else 24 have anything further in Case Number 8279? 25 If not, this case will taken

7				
1				17
2	under	advisement.		
3				
4			(Hearing concluded.)	
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16 17				
18				
19				
20				•
21				
22				
23				
24				
25			•	
L				

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 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.

Suly W. Bayd Cor

oil Conservation Division