CASE 5708: ROGER C. HANKS FOR SALT WATER DISPOSAL, EDDY COUNTY, NEW MEXICO

CASE NO.

5708

APPlication, Transcripts, Small Exhibits,

ETC.

OIL CONSERVATION COMMISSION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

September 30, 1977

Roger C. Hanks Box 3148 Midland, Texas 79702

> Re: Case No. 5708 Order No. R-5250

Dear Mr. Hanks:

By authority granted me in Order No. R-5250, you are hereby authorized to increase the surface injection pressure on your King Disposal Well No. 1, located in Unit C of Section 9, Township 20 South, Range 25 East, Eddy County, New Mexico, to 1000 psi.

No further pressure increases will be granted until the injection tubing is set at or near the injection interval.

Yours very truly,

JOE D. RAMEY Director

JDR/fd

Memo

From

R. L. STAMETS TECHNICAL SUPPORT CHIEF

R5250 gove Roger

Hanks a 360 # injection

pressure on his King Not disposal well.

20-3 months ago he asked for a higher

pressure. Did we

give him any?

The well now has an 875#

His request is in the file.

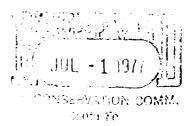
I see no approval.

OIL CONSERVATION COMMISSION-SANTA FE

ROGER C. HANKS

P. O. BOX 3148
MIDLAND, TEXAS 79702

June 28, 1977



Mr. Joe Ramey State of New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: OCC Order #R-5250 Case No. 5708 King Disposal Well #1 9 - 20S - 25E, Eddy County, New Mexico

Dear Mr. Ramey:

Per our telephone conversation this date, please accept this letter as our request for an increase to 800 psi wellhead pressure for the above injection well.

Thank you for your prompt attention to this matter. If we may be of further assistance please advise.

Respectfully yours,

Roger A Hanks

RCH:jw



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE

LAND COMMISSIONER PHIL R. LUCERO



STATE GEOLOGIST EMERY C. ARNOLD

5708

DIRECTOR JOE D. RAMEY

Mr. Clarence Hinkle Hinkle, Bondurant, Cox & Eaton	ORDER NO. R-5250			
Attorneys at Law Post Office Box 10 Roswell, New Mexico 88201	Applicant:			
	Roger C. Hanks			
Dear Sir:				
Enclosed herewith are two con Commission order recently en				
Yours very truly, JOE D. RAMEY Director				
JDR/fd ·				
Copy of order also sent to:				
Hobbs OCC x	· •			
Artesia OCC				
Aztec OCC				
Other				

Re: CASE NO.

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 5708 Order No. R-5250

APPLICATION OF ROGER C. HANKS FOR SALT WATER DISPOSAL, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 7, 1976, at Santa Fe, New Mexico, before Examiner, Daniel S. Nutter.

NOW, on this 3rd day of August, 1976, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Roger C. Hanks, is the owner and operator of the King Disposal Well No. 1, located in Unit C of Section 9, Township 20 South, Range 25 East, NMPM, Eddy County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Devonian formation, with injection into the open-hole interval from approximately 10,300 feet to 10,550 feet.
- (4) That the injection should be accomplished through 3 1/2-inch tubing installed in a packer set at a minimum depth of 1800 feet; that the casing-tubing annulas should be filled with an inert fluid; and that a pressure gauge or approved leak detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.
- (5) That the water disposed of in said well should be chemically treated to prevent corrosion and scale build-up, and that coupon tests should be continuously conducted and the results thereof filed semi-annually with the Commission.

-2-Case No. 5708 Order No. R-5250

- (6) That the injection well or system should be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than three hundred-sixty (360) psi, provided however, the Secretary-Director of the Commission should have authority to increase the aforesaid pressure limit if, in his judgement, conditions so warrant.
- (7) That the operator should notify the supervisor of the Artesia District Office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.
- (8) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.
- (9) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Roger C. Hanks, is hereby authorized to utilize its King Disposal Well No. 1, located in Unit C of Section 9, Township 20 South, Range 25 East, NMPM, Eddy County, New Mexico, to dispose of produced salt water into the Devonian formation, injection to be accomplished through 3 1/2-inch tubing installed in a packer set at a minimum depth of 1800 feet, with injection into the open-hole interval from approximately 10,300 feet to 10,550 feet:

PROVIDED HOWEVER, that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

- (2) That the water disposed of into said well shall be chemically treated to prevent corrosion and scale build-up, and coupon corrosion tests shall be continuously conducted and the results thereof filed semi-annually with the Artesia District Office of the Commission.
- (3) That the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than three hundred-sixty (360) psi, provided however, the Secretary-Director of the Commission shall have the authority to increase the aforesaid pressure limit upon satisfactory showing that such pressure limit increase is warranted.

-3-Case No. 5708 Order No. R-5250

- (4) That the operator shall notify the supervisor of the Artesia District Office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.
- (5) That the operator shall immediately notify the supervisor of the Commission's Artesia District Office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.
- (6) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (7) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION
PHIL R. LUCERO, Chairman

EMERY C. ARNOLD, Member

JOE D. RAMEY, Member & Secretary

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico July 7, 1976

EXAMINER HEARING

IN THE MATTER OF: Application of Roger C. Hanks for salt) CASE water disposal, Eddy County, New Mexico.) 5708

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

APPEARANCES

For the New Mexico Oil William F. Carr, Esq. Conservation Commission: Legal Counsel for the Commission State Land Office Building Santa Fe, New Mexico

Clarence E. Hinkle, Esq. HINKLE, BONDURANT, COX & EATON Attorneys at Law Hinkle Building

Roswell, New Mexico

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General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

For the Applicant:

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MR. NUTTER: The hearing will come to order, please.

The next case will be Case Number 5708.

MR. CARR: Case 5708, application of Roger C. Hanks for salt water disposal, Eddy County, New Mexico.

MR. HINKLE: Clarence Hinkle, Hinkle, Bondurant,

Cox and Eaton appearing on behalf of Roger C. Hanks. I would

like to have Mr. Hanks sworn.

(THEREUPON, the witness was duly sworn.)

ROGER C. HANKS

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. HINKLE:

- Q. State your name and residence?
- A. Roger C. Hanks, Midland, Texas.
- Q. You are the applicant in this case?
- A. Yes, sir.
- Q. And the owner of the properties involved?
- A. Yes, sir.
- Q. And you are a petroleum geologist?
- A. Yes, sir.
- Q And have previously testified before the Commission

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many times?

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A. Yes, sir.

Q And your qualifications as a petroleum geologist are a matter of record with the Commission?

A. Yes, sir.

MR. HINKLE: Are his qualifications acceptable?
MR. NUTTER: Yes, they are.

Q (Mr. Hinkle continuing.) First let me ask you what you are seeking to accomplish by this application?

A. I'm seeking permission from the Commission to dispose of produced Cisco Canyon water in the Devonian formation in the previously owned King Resources well in the northeast of the northwest of Section 9, 20, 25, Eddy County, New Mexico.

Q. Have you prepared or has there been prepared under your supervision certain exhibits in this case?

A Yes, sir.

Q Refer to Exhibit Number One and explain what this is and what it shows?

A. This is merely an ownership plat with a large square around the proposed disposal well.

Q. Where is this area located generally with respect to any towns?

A. It is twelve south and eight west of Artesia.

Q Does Exhibit One show all of the ownership within

the area approximately two miles from the well?

A. Yes.

Q. What is the history of this well that you propose to use as a disposal well?

A. This well was drilled, as I recall, in 1965. I believe it says there on the log there to a depth of ninety-six hundred by King Resources. At a later date the J. M. Huber Corporation purchased the better lease there and I made an arrangment with J. M. Huber --

- Q It was abandoned as a dry hole?
- A. Oh, yes. It was drilled to ninety-six hundred and abandoned as a dry hole. They tested some gas in the Morrow, as I recall, about a hundred and fifty or a hundred and ninety thousand with low pressures. They drilled the well and abandoned it to ninety-six hundred. I made an arrangement with the J. M. Huber Corporation and bought the well with the agreement that I would deepen it and I ran a condemning drill stem test in the Devonian formation or if I encountered any other shows between ninety-six hundred and the top of the Devonian, which was ten, two, eighty-eight, I believe. At such time as I condemned the well to J. M. Huber's satisfaction they would then sell me the well tor four thousand dollars and/or if I made a well they would take it over and reimburse me my expenses.
 - Q. Now, this is on Federal land?

A. Yes.

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Q. And you have obtained permission from the USGS to use this as a disposal well?

A. Well, I have to get a surface users permit which I have applied for but I can't apply for that until I receive permission, unless the Commission grants me permission to dispose.

- Q. All right, refer to what has been marked as Exhibit
 Two and explain what this is and what it shows?
 - A. Exhibits Two and Three are the logs, aren't they?
 - Q Yes, Exhibit Two and Three are the logs.
 - A. This would be -- you don't have a copy of it?
- Q. No. Now, you might explain the condition of the logs being in two parts there.
- A. In my agreement with Huber I would deepen the hole and then run a log back to at least the old total depth to condemn that lower portion of the zone as well as running a drill stem test to condemn the potential zone that I planned to use for salt water disposal. The reason for the two logs is I pulled it back through. Two hundred and fifty feet of it is open hole and the rest of it is being cased.

MR. CARR: And they are both marked Exhibit Two?

- A. Yes, it is in two parts.
- Q. (Mr. Hinkle continuing.) Now, refer to Exhibit Number

25 Three.

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A. Exhibit Number Three is a small one, yes. This is a diagrammatic sketch of the well as it exists at this moment and I drilled a well from the Devonian from ninety-six hundred, I re-entered it and deepened it from ninety-six hundred to a depth of ten, five, fifty-five but I ran a drill stem test in the top fifty feet of the Devonian. The drill stem test is over on the right side. On June 13th the drill stem test was run from ten, two, eighty-eight or I believe ten, two, ninety to ten, three, thirty-eight and there is a lithological description of the Devonian. The drill stem test was open two hours and recovered seventy-five feet of drilling mud with nebulous pressures, two hundred and sixty-six pounds of shut-in pressure. The Devonian does not produce in this area and if it had been productive then I would have turned the well over to Huber.

back to drilling and I lost circulation about the last fifteen or twenty feet of the hole, around ten, four, around ten, five, thirty-five, right around in there and the description that you see on the fourteenth prior to the lost circulation, was tan to brown, mostly dense cherty dolomite with erratic drilling breaks and then I lost returns and at that time I just came out of the hole, laying pipe down and then I picked up ten thousand, three hundred feet of five-and-a-half inch, twenty-pound casing and with one primary state and two DV tools.

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they referred to my -- well, it is actually a three-stage job -- we circulated cement all the way back to the surface through the means of a primary and two secondary cement jobs. And after I moved the rig off I moved a workover unit in and a reverse circulator and drilled out the two DV tools, one at sixty-one hundred and one at eighty-nine. Correction, at fifty-three hundred, the first stage was. Then I drilled out the shoe at ten thousand, three hundred and then swabbed the hole to condemn it, again for Huber. We swabbed nothing but salt water and then I washed the hole on down to my old TD of ten, five, fifty-five and I put two thousand gallons of twenty percent acid and at a hundred pounds we were getting an injection rate of six barrels per minute.

I shut down at that time and the well was closed in waiting on Commission approval.

I'm satisfied beyond any reasonable doubt that the Devonian does not produce.

Q. What about, do you have any tubing or comparable casing tubing in --

A. Yeah, right. What this sketch here depicts is that I'm using four-and-a-half inch internal flush as tubing, that is the IU with the collars turned down and a Guiberson permanent-type packer and set that below at about two hundred and fifty feet below the closest known water. Around seven, thirty fluo, I believe, is where, seven-forty. Between seven

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hundred and seven, fifty is the artesian water.

Then we will set that on a packer and put an inert fluid on the back side and run a monthly metal disintegration test on it.

I, incidentally, have a Commission approved well about a mile and an eighth northwest of it. We are doing exactly the same thing there.

- Q Which is a disposal well?
- A. Yes, sir.
- Q You are using it at the present time?
- A. Yes, sir, I'm disposing in this same interval.
- Q In your opinion will this effectively keep the water in the Devonian formation that you dispose of in?
- A. Yes, there are no perforations in this well and I have effectively circulated the cement through all from top to bottom and we did get returns at the surface between our intermediate and long string.
- Q Do you contemplate that you will have to put the water in under pressure or will it take it?
- A. Well, the volume that it is going to require it will take -- I'm designing a design for less than a thousand pounds
- Q Do you have any idea of how much water you will dispose of?
- A. Around fourteen thousand barrels a day is what this well will take. Now, at less than a thousand pounds it

becomes totally unecomonical and it would be better to get another hole.

- Q. Now, refer to your Exhibit Number Four?
- A. This is another diagrammatic sketch of the surface installation as it is at the present time to conform to USGS surface users permit. I have erected a four-foot barrier all the way around this thing in the event of breakage or leakage or something like that you've got to have a protection. Each of these sketches show the gate detail and the typical driving ramp section and the fence.
- Q. All of this has actually been constructed at the present time?
- A. Yes, it has been constructed exactly as it is. The four acres which I purchased from Huber is shown here and then, of course, I will have to seek Federal approval on the surface users permit.

This exhibit is really more for the USGS than anybody.

- Q. In your opinion will the approval of this application be in the interest of conservation and prevention of waste?
 - A. Yes, sir.
 - Q Do you have anything further you would like to add?
 - A. No. sir, I don't have anything more.
- MR. HINKLE: We would like to offer Exhibits One through Four.

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MR. NUTTER: Hanks' Exhibits One through Four will be admitted into evidence.

(THEREUPON, Hanks' Exhibits One through Four were admitted into evidence.)

MR. HINKLE: We do have Exhibit Five, several letters of offset owners. They have all agreed to this disposal.

MR. NUTTER: And you are offering those also?

MR. HINKLE: Yes. You might give who they are from.

MR. HANKS: I have approval from J. M. Huber, of course, Getty and Yates, I believe. Monsanto which is not there due to an error. It is in my office, I will forward that to the Jommission on my return.

MR. HINKLE: This covers all of the offset owners?

MR. HANKS: Yes, sir, within two miles. David

Fasken and Coquina and Mark Production also.

MR. NUTTER: Exhibit Number Five-A through E, being the waivers of objection from the offset operators will also be admitted into evidence.

(THEREUPON, Hanks' Exhibit Number Five was admitted into evidence.)

MR. HINKLE: That's all we have.

CROSS EXAMINATION

BY MR. NUTTER:

Q. Mr. Hanks, the disposal zone would be this section of

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the Devonian where you --

- A. The open hole, yes, sir.
- Q. The open-hole section in the Devonian where you lost circulation apparently is quite porous and has a great deal of porosity?
 - A. Yes, sir.
- Q Now, that open-hole interval would be from ten, three hundred to total depth of ten, fifty-five, is that correct?
 - A. Yes, sir.
- Q And you do have five-and-a-half-inch pipe from the surface down to that setting depth of ten, three hundred, is that right?
 - A. Yes, sir, and I did circulate cement on that string.
- Q. And that pipe was cemented with three stages, the top of the cement on the first stage was at nine thousand feet:
 - A. Yes, that's calculated, yes, sir.
- Q. And the DV tool above that was at eighty-nine hundred, so there is a possibility of about a hundred-foot window in the cement?
- A. There very easily could be. These are calculated tops because there is no way to run a temperature survey when that's closed off, you see, and that's a Halliburton top is what that is.
 - Q. And then the third stage was cemented at fifty-three

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hundred and the calculated top is sixty-one hundred so there is the possibility of about a eight hundred-foot window in the cement there?

- A. There very easily could be but there again I'm using calculation tops and we had a hole diameter test and that is the reason for the calculation of the number of sacks per unit.
- Q. Was there a caliper log available on the portion of the hole that was drilled by King Resources?
- A. Oh, yeah, that is what we used to calculate the amount. That's how we got cement to the surface.
- Q Okay, now, you propose to set your four-and-a-half inch tubing in a packer at about nine hundred and ten feet, is that correct?
- A. Yes, sir, that's what we plan to. To get below, even though we still have two other strings that are wrapped up, it will cut down on the restriction and I will be able to get more water in that hole and it is still below the artesian zone.
- Q. Now, my note here says that you mentioned that the artesian water was from about seven hundred to seven hundred and fifty?
- A. Yes, sir, it varies but generally speaking that is where we usually -- I've drilled fourteen wells over there and that is a fairly good average -- no deeper than seven,

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fifty I don't believe I have found any of it.

Q. So if it were seven, fifty, you would have about a hundred and sixty feet from seven, fifty down to the packer at nine, ten?

A. Right, with the eight-and-five-eighths, the four-and a-half, the five-and-a-half and the eight-and-five-eighths protecting them.

There would be two strings of casing and one string
 of tubing?

A. Yes, sir, with cement circulated up behind the fiveand-a-half and the eight-and-five-eighths.

Q How would you treat the tubing-casing annulus there, would that be loaded with an inert fluid or how would --

A. Yes, sir, it would be loaded with an inert fluid and of course, a pressure gauge on it and either monthly or bi-monthly -- well, it's really a continuous metal disintegration test.

- Q. That would be a coupon test?
- A. Yeah, a coupon test, right.
- Q To determine whether corrosion has occurred?
- A. Yes. We treat the water that we dispose of in there to eliminate this buildup of scale.
 - Q The disposal water is treated?
 - A. Yes, sir.
 - Q. Now, Mr. Hanks, Uncle Sam is proposing some under-

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ground injection standards which the State shall use as guidelines for the approval of underground injections, in their words.

- A. Yes, sir.
- Q. We believe that their proposed guidelines which they have offered the states or will offer the states to help us administer our programs will require that tubing and packer be set immediately above the disposal zone so in the event that this well should be approved by the Commission at this time and in this manner, the proposed guidelines also call for the states to reissue permits at a later time after the plan has been adopted and it may be that the Commission upon approval of the disposal zone at a later date would require the amendment of your program here.
- A. Yes, sir. That being the case, of course, I am knowledgeable that we will have to change our other well also which I've got it set at eleven hundred or twenty-three hundred, I've forgotten which. In other words, I'm aware that I couldn't run that four inch.
- Q Now, this Guiberson permanent packer that you are installing here, in the event you did have to run your tubing further down you would have to drill that out, wouldn't you?
- A. We could knock it out. Usually with a sinker bar you can knock it out. I wouldn't run the risk of running any ten thousand three hundred feet of four-and-a-half internal

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flush pipe. I would pull that four-and-a-half and run threeand-a-half tubing.

- Q. You might not have the tensile strength there in the joints?
- A. Well, I would be afraid of it and there is so little clearance. In other words, I can effectively control the disintegration of that tubing by monitoring it at this particular depth but it is just not worth the risk, there is too little clearance if there is a burr inside that casing or anything we could stick that four-and-a-half and never get it that deep so I would have to go to a smaller size tubing.
- Q Now, is it possible to run the four-and-a-half a little further down in there since you only had one hundred and sixty feet from the bottom of the water to the packer here?
- A. I could probably go to -- it's anybody's guess -- eleven or twelve hundred feet would be, I'm just afraid to run it any deever than that because it would just strictly collapse and tension also because when you turn down collars on four-and-a-half pipe really you are losing all of the tension. So I'm using eleven-sixty grade casing for tubing, you see.
 - Q. I see.
- A. And, of course, the obvious reason for that is to cut down friction on us so you can get as much water in it at the lowest pressure.

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Q. I think you stated you would probably be disposing of about fourteen thousand barrels a day?

M. Well, I imagine that is about what it will take. It will be less than a thousand pounds to fairly well standardizeit takes too much pumping capacity, it's more economical to
go find another hole than it is to buy horsepower to put water
away at a greater pressure than the thousand pounds. My
pressure is averaging about three, fifty on the other well up
to the north and we are getting around thirteen thousand
barrels a day in it.

Q. Three, fifty at the surface?

A. Yes, sir. I've got a Gaso triplex on there that
I'm going to put two quadraplexes probably on this one so if
one goes down we can at least run half-time. And on this one
sketch, Mr. Nutter, I don't show the tanks on there because
I don't know at this time exactly how we're going to surface
construct that thing, either one or two tanks, one for sure
but if I can get a proper overflow from my other system I may
can get by with one tank.

Q. Where is the other well, Mr. Hanks?

A. In the northwest-northwest of 9, the old Monsanto-Foster. Correction, 5, the northwest-northwest of 5.

Q About a mile-and-a-half northwest of here?

A. Yes, sir. I've been disposing in that well for

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Phone (505) 982-9212

five years.

Q And after five years of disposal three hundred and fifty pounds surface pressure puts thirteen thousand barrels away?

A. Yes, it's a rough estimate.

MR. NUTTER: Are there any further questions of Mr. Hanks? He may be excused.

(THEREUPON, the witness was excused.)

MR. NUTTER: Do you have anything further, Mr.

Hinkle?

MR. HINKLE: That's all.

MR. NUTTER: Does anyone have anything they wish to offer in Case 5708? We will take the case under advisement.

REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

Sidney F. Morrish, C.S.R.

sid morrish reporting service

General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

I do hereby certify that the foregoing I a complete per the the proceedings in the Exatines harring of case to 5708, heard by me on 7/2 1976 New Mexico Oil Conservation Commission Cucu Examiner

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NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

Roger C. Hanks		29779	P. O. E	ox 314	18, Midl	and, TX	
King Disposal	19983113	1976	Cemet	ary			Eddy
UNIT LETTER	11	NSERVEROZOS CASING SETTING DEPTH	60	N THE	North_u	ME AND	80 FEET FROM TH
West LINE, SECTION 9	GRI GRI	wanger 205	RANGE 25		M		· · · · · · · · · · · · · · · · · · ·
NAME OF STRING		CASING	AND TUBING DAT	-~	OP OF CEME		AD BESSEL
***XXXXXX	SIZE	JETTING DEPTH	SACKS CEMEN	` '	OF OF CEME!	<u> </u>	OP DETERMINED BY
Conductor	20"	30'	35 sx				
JHTERMEOJATE	8-5/8"	1193'	300 sx				
LONG STRING	5-1/2"	10,334'	Multi-stage 1630 sx		Circ		·
TUBING	45" IF	910'	NAME, MODEL AND DE		otis @ 9	10'	-
NAME OF PROPOSED INJECTION FORMA		, J. O	TOP OF FORM			BOTTOM OF F	OR MATION
Devonian			10,300			10,5	555
Tubing	GOR ANNULUST	PERFORATION	S OR OPEN HOLEP PRO		33 - 10,		
I GIDEITS IS THIS A NEW WELL DRILLED FOR DISPOSAL?	IF ANSWER IS	1		-	•		ER BEEN PERFORATED IN AM
Deepened for disp).					ZONE OTHER T	NO NO
*See attached DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA	· · · · · · · · · · · · · · · · · · ·	DEPTH OF BOTTOM OF	F NEXT HIGHER THIS AREA		DEPTH OF TOP	OF NEXT LOW	ER ICA
	715'		9,3	300	None in	area	
ANTICIPATED DAILY MINIMUM INJECTION VOLUME (MAXIMUM	i	SED TYPE SYSTEM	IS INJECTIO PRESSURE?	N TO BE BY GRAV	_	PROX. PRESSURE (PSI)
: 12.000	18,	000 close	TO BE DISPOSED OF	NATURAL W		SSUTE-	
ANSWER YES OR NO WHETHER THE FOL ERALIZED TO SUCH A DEGREE AS TO B STOCK, IRRIGATION, OR OTHER GENER.	E UNFIT FOR DOMES AL USE	TIC, 1	Yes	Yes			Yes
NAME AND ADDRESS OF SURFACE OWN	ER (OR LESSEE, IF S	STATE OR FEDERAL LA					
USGS	OPFRATORS WITH	OMF-MALE (1) MILE OF	F THIS INIFCTION WELL	•	·		
David Fasken,		•			3. ጥሄ 7	9701	
paviu rasken,	OUO IST N	actonat ba	IIX BIQG., F	TULAIN	4, 1A /	5701	
J. M. Huber Co	orporation	, 1900 Wil	co Building	, Mid	land, TX	7970	L
Mark Production	on Company	, 330 Citi	zens Bank I	Buildi	ng, Tyle	r, TX	75701
Getty Oil Comp	oany, P. O	. Box 1231	, Midland,	TX 7	9 <u>701</u>		
0		200 5-23	A:		hriost 1		my 70701
Coquina Oil Co	orporation EER SURFACE OW	, ZUU BUll	EACH OPERATE	R WITHIN OF			, TX 79701
SENT TO EACH OF THE FOLLOWING?	!	Yes	I OF THIS WELL		e s .	Yes	
ARE THE FOLLOWING ITEMS ATTACHED THIS APPLICATION (SEE RULE 701-8)	TO PLAT OF ARE		ELECTRICAL L			DIAGRAMMAT	C SKETCH OF WELL
	110	Yes		Yes		l 1	Yes
1 therefor de	erify that the inf	formation above is	true and complete	to the bes	t of my knowl	edge and be	lief.
Loash C. V	Jank,	Owne	r-Operator			July	6, 1976
(Signature)	1 , ~		(Title)				(Date)

NOTE: Should waivers from the State Engineer, the surface owher, and all operators within one-half mile of the proposed injection well.

not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days
from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing,
if the applicant so requests. SEE RULE 701.

KING DISPOSAL WELL #1
660' FNL & 1980' FWL, 9-20-25,
Eddy County, NM

- 5-29-76 RU Moran Bros.
- 5-30-76 WO engine change out.
- 5-31-76 WO engine change out.
- 6-1-76 WO engine change out.
- 6-2-76 WO engine change out.
- 6-3-76 Drlg cmt @ 3350'. First plug 1125-1235'.
- 6-4-76 Drlg @ 7640'. 2nd plug @ 3350', 3rd plug @ 5000', 4th plug @ 6525'.

 OART: Mixing mud.
- 6-5-76 Drlg @ 8420' (bit stuck @ 7641'; worked free). 5th plug @ 7700'.
 OART: SD to mud up.
- 6-6-76 9600'. 6th plug @ 9350'. OART: Circ to condition hole.
- 6-7-76 Drlg @ 9647', sdy lm & sh.
 LD 10 5-3/4" DC's, PU 18 6-1/2" DC's, ran Reed FP63
 bit, wash & ream to btm.
 OART: drlg.
- 6-8-76 Drlg @ 9760', sh, lm & sand.
- 6-9-76 Drlg @ 9866', lm & sh
- 6-10-76 Drlg @ 9972', lm & sh
- 6-11-76 Drlg @ 10,179', lm
- 6-12-76 Drlg @ 10,270', lm & sh
- Circ for DST #1 @ 10,338. Top of Devonian @ 10,288.

 Description of Dev as follows: white to tan romb. dolo

 w/some milky chert, poor fluoresence, slight cut w/some
 dead oil stain.

 DST #1. 10,290 10,338'. Temp 165°. Tool open w/very

 weak blow. 30 min preflow, ISI 1 hr, Test 2 hr, FSI 3 hr.

 IMP 5049, FMP 5049, IFF 488, FFP 266, ISIP 399, FSIP 266.

 2nd re-open, no blow. Rec 75' drlg mud. Closed in tool

 for SI. Started out of hole.
- 6-14-76 Drld 10,338 to 10,555'. Loss circ w/no returns.
 Description of Dev prior to loss circ as follows: tan to brown, mostly dense cherty dolo w/erratic drlg breaks.
 No show.
- 6-15-76 Circ @ 10,300'.
- 6-16-76 Ran 5½" 17# N-80 csg, set @ 10,333.72'. Cmt as follows: Primary stage Halliburton pkr shoe @ 10,300', 275 sx Class C w/.006% Halad-22 + 6# salt/sk. First plug down @ 12:00 Noon, 6-15-76.

Second Stage - 485 sx Halliburton Lite w/6# salt/sk. Second plug down @ 6:45 PM, 6-15-76. DV tool set @ 8900'.

Third Stage - 870 sx Halliburton Lite w/6# salt/sk. Plug down @ 2:45 AM, 6-16-76. DV tool set @ 5300'.

Cmt. circ to surface. WOC.

6	18-76	RD Mora	in Bros.
.,	* ** / **	1117 11171 (

- 6-21-76 RU reverse unit to drl DV tools
- 6-22-76 Drly top DV tool @ 5400'.
- 6-23-76 Drig cmt # 10,260'. 2nd DV tool @ 8900'.
- 6-24-76 10,555', awabbing. FL 400' from surface.
- 6-25-76 toyging 10,555' to 9,400'.
- (%-26-76 RD Unit
 - 6-27-76 81, WOO
 - 6-28-76 SI, WOO
 - 6-29-76 SI, WOO
 - 6-30-76 SI, WOO

HALLIBURTON DIVISION LABORATORY

MALLIBURTON COMPANY
MIDLAND DIVISION

No. W2-050-71 LABORATORY WATER ANALYSIS Date 1/22/71 To Roger C. Hanks This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval 2100 Wilco Eldg or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company. Midland, Texas 79701 Date Rec. 1/19/71 Submitted by_____ Well No. Monsanto Foster # 1 Depth 10,524 Formation Devonian County Eddy _Field___ South Artesia _Source_ DST # 1 TOOL TOP MIDDLE RECOVERY TOP RECOVERY 2.04 8 73 F Resistivity222 @ 73 F .238 **⊕ 7**3 F 6.7 pH Calcium (Ca) 1,200 Chlorides (CI) 14,000 12,500 3,000 Bicarbonates (HCO₃) 610 MUD PIT Resistivity 664 @ 73 F Calorides (Cl) 4,000 Remarks: *Milligrams per liter Respectfully submitted, Analyst: Robert Lansford HALLIBURTON COMPANY CC:

NOTICE

DIVISION CHEMIST

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

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ROGER C. HANKS

Corety to:
P. O. BOX 3148
MIDI AND, TOXAS 79701

May 14, 1976

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMEN. 1

OAX EXHIBIT NO. 5-CL CASE NO. 5768

Coquina Oil Corporation 200 Bldg. of the Southwest Midland, 1X 79701

Attention: Production Dept.

Gentlemen:

Re: Salt Water Disposal Approval Request

The undersigned respectfully requests your approval for his disposing of produced formation water into the Devonian formation at approximately 10,200' and below.

I have recently purchased the dry hole proviously nomed the King Resources, Pibco Com located in the NE/4 of the NE/4 of Section 9, 20-25, Eddy County, New Mexico. I am seeking Countission approval to move a rig on and deepen the old well to the Devenian formation and if not found to be commercial will then run a 5½" string of casing with a primary and two secondary stage coment jobs to return cement back to the intermediate pipe, approximately 1,100°. The primary and secondary cement jobs should adequately protect any and all beds above the zone; disposed into.

A formal hearing will be requested before the Oil Conservation Commission and no water will be injected until their approval is received. Thereafter, strict adherance to all governmental regulations will be followed.

I have previous correspondence agreeing to hold the J. M. Huber Corporation hamaless from any litigation whatsoever, as well as that of those not objecting to this request.

I have full Commission approval for my Monsanto Foster disposal well located in the NW/4 of the NW/4 of Section 5, 20-25, Eddy County, New Mexico, which is approximately one and one-quarter miles northwest of this proposed additional disposal facility. This is a fully Commission approved and operated disposal facility disposing into the Devonian formation at a rate of approximately 13,000 BPD.

Coquina Oil Corporation Page 2 May 14, 1976

Your prompt attention to the above will be greatly appreciated as the need for an additional disposal facility is urgent.

RCH:1p/ag

No Objection

Objection

COQUINA OIL CORPORATION

By: 18 Teceplos 5-18-76

ROGER C. HANKS

ASSESSMENT AND A STREET P. O. ASK 3148 MEDIAND, TEXAS 79701

BELLI CHE COMPANY

Tankiele Carlon

May 14, 1976

SHOUTH A TAKE

SDS

Proprietty Catty Oil Company P. O. Box 1231 Midland, fX 79/01

Attention: Production Dept.

Gentlemen:

BEFORE PXAMINER MUTTER OIL COPTE VATION COMMISSION _ CXHIST NO. <u>5-B.</u> CASE NO. 5708

Salt Water Disposal Approval Request

The undersigned respectfully requests your approval for his disposing of produced formation water into the Devonian formation at approximately 10,200' and below.

I have recently purchased the dry hole previously named the King Resources, Pubco Com located in the BE/4 of the NM/4 of Section 9, 20-25, Eddy County, New Mexico. I am seeking Commission approval to move a rig on and deepen the old well to the Devonian formation and if not found to be commercial will them rum a 5½" string of casing with a primary and two secondary stage cement jebs to return cement back to the intermediate pipe, approximately 1,100'. The primary and secondary coment jobs should adequately protect any and all beds above the zones disposed into.

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Cetty Oil Company Page 2 May 14, 1976

Your prompt attention to the above will be greatly appreciated as the need for an additional disposal facility is urgent.

Yery truly yours

Roder C. Hanks

RCH:1p/ag

No Objection

Objection

GETTY OIL COMPANY

By: Kind of Will

ROCER C. HANKS

May 14, 1976

Mark Production Company 330 Citizens Bank Bldg. Tyler, TX 75701

Attention: Production Dept.

Gentlemen:

Re: Salt Water Disposal Approval Request

The undersigned respectfully requests your approval for his disposing of produced formation water into the Devonian formation at approximately 10,200' and below.

I have recently purchased the dry hole previously named the King Resources, Pubco Com located in the NE/4 of the NM/4 of Section 9, 20-25, Eddy County, New Mexico. I am seeking Commission approval to move a rig on and deepen the old well to the Devonian formation and if not found to be commercial will then run a 5½" string of casing with a primary and two secondary stage coment jobs to return coment back to the intermediate pipe, approximately 1,100'. The primary and secondary coment jobs should adequately protect any and all beds above the zenes disposed into.

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I have previous correspondence agreeing to hold the J. M. Huber Corporation harmless from any litigation whatseever, as well as that of those not objecting to this request.

I have full Commission approval for my Monsanto Foster disposal well located in the NW/4 of the NW/4 of Section 5, 20-25, Eddy County, New Mexico, which is approximately one and one-quarter miles northwest of this proposed additional disposal facility. This is a fully Commission approved and operated disposal facility disposing into the Devonian formation at a rate of approximately 13,000 BPD.

Mark Production Company Page 2 May 14, 1976

Your prompt attention to the above will be greatly appreciated as the need for an additional disposal facility is urgent.

Roger C. Hanks

RCH:1p/ag

No Objection

Objection COMPANY

ROGER C. HANKS

Wint monway court COLVEDI P. O. BOX 3148 MIDLAND, TEXAS 79701

May 14, 1976

J. M. Huber Corporation 1900 Wilco Bldg. Midland, TX 79701

Attention: Production Dept.

Centlemen:

Re: Salt Water Disposal Approval Request

CASE No.

BEFORE EXAMINER NUTTER

5708

AVAITON CLAWLLION

IXAISIT NO. <u>5- D.</u>

The undersigned respectfully requests your approval for his disposing of produced formation water into the Devonian formation at approximately 10,200' and below.

I have recently purchased the dry hole previously named the King Resources, Pubco Com located in the NE/4 of the NM/4 of Section 9, 20-25, Eddy County, New Mexico. I am seeking Commission approval to move a rig on and deepen the old well to the Devonian formation and if not found to be commercial will then run a $5\frac{1}{2}$ " string of casing with a primary and two secondary stage cement jobs to return coment back to the intermediate pipe, approximately 1,100'. The primary and secondary coment jobs should adequately protect any and all beds above the zones disposed into.

A formal hearing will be requested before the Oil Conservation Commission and no water will be injected until their approval is received. Thereafter, strict adherance to all governmental requlations will be followed.

I have previous correspondence agreeing to hold the J. M. Huber Corporation harmless from any litigation whatsoever, as well as that of those not objecting to this request.

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ER N

J. M. Huber Corporation Page 2 Hay 14, 1976

Your prompt attention to the above will be greatly appreciated as the need for an additional disposal facility is urgent.

RCH:1p/ag

No Objection x Objection

supplied that he was the second

ROGER C. HANKS

WEST HOPEWAY EIGHTY
THEFTLY TO:
P. O. BOX 3148
MIDI AND, TEXAS 79701

May 14, 1976

BEFORE EXAMINER NUTTER

OIL C. ISERVATION OF THE CASE NO. \$7.08

Mr. David Fasken 608 1st Mational Bank Bldg. Midland, FX 79701

Dear Mr. Fasken:

Re: Salt Water Disposal Approval Request

The undersigned respectfully requests your approval for his disposing of produced formation water into the Devonian formation at approximately 10,200' and below.

I have recently purchased the dry hole previously named the King Resources, Pubco Com located in the NE/4 of the NM/4 of Section 9, 20-25, Eddy County, New Mexico. I am seeking Commission approval to move a rig on and deepen the old well to the Devonian formation and if not found to be commercial will then run a 5½" string of casing with a primary and two secondary stage cement jobs to return cement back to the intermediate pipe, approximately 1,100'. The primary and secondary cement jobs should adequately protect any and all beds above the zones disposed into.

A formal hearing will be requested before the Oil Conservation Commission and no water will be injected until their approval is received. Thereafter, strict adherance to all governmental regulations will be followed.

I have previous correspondence agreeing to hold the J. M. Huber Corporation harmless from any litigation whatsoever, as well as that of those not objecting to this request.

I have full Commission approval for my Monsanto Foster disposal well located in the NW/4 of the NW/4 of Section 5, 20-25, Eddy County, New Mexico, which is approximately one and one-quarter miles northwest of this proposed approved additional disposal facility. This is a fully Commission approved and operated disposal facility disposing into the Devonian formation at a rate of approximately 13,000 BPD.

Mr. David Fasken Page 2 May 14, 1976

Your prompt attention to the above will be greatly appreciated as the need for an additional disposal facility is urgent.

Sincerely yours,

RCH:1p/ag

No Objection Prograd NAOCC & USGS commend are chlorised.

Objection ____

DAVID FASKEN.

By: Rilling Mark Control

Mar

Deskets Nos. 21-76 and 22-76 are tentatively set for hearing on August 4 and August 18, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINE MEARING - WEDNESDAY - JULY 7, 1976
9 A.M. - OIL UNCLEARING COMMODIA CONFERENCE BACK
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before kaniel S. Mutter, Examiner, or Richard L. Stamets, Alternate Examiner:

- CASE 5704: Application of Gulf Oil Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Drinkard and Blinebry production in the Wellbore of its H. T. Mattern (MCT-B) Well No. 16 located in Unit D of Section 31, Township 21 South, Range 37 East, Lea County, New Mexico. Applicant further seeks an administrative procedure for approval of additional commingling authority on this lease.
- Application of Gulf Oil Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Drinkard and Blinebry production in the wellbore of its H. T. Mattern (NCT-C) Wells Nos. 5 and 8, located, respectively, in Units I and A of Section 18, Township 21 South, Range 37 East, Lea County, New Mexico. Applicant further seeks an administrative procedure for approval of additional commingling authority on this lease.
- CASE 5706. Application of Gulf Oil Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Drinkard and Blinebry production in the wellbore of its William A. Pamsay (NCT-B) Well No. 6 in Unit N of Section 25, Township 21 South, Range 36 East, Lea County, New Mexico. Applicant further seeks an administrative procedure for approval of additional commingling authority on this lease.
- Application of Harrington Transportation Inc. for an uncerthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox gas well location of its Llano Inc. Terry Well No. 1, to be drilled at a point 1650 feet from the North line and 1980 feet from the East line of Section 14, Township 18 South, Range 26 East, Atoka-Pennsylvanian Gas Pool, Eddy County, New Mexico.
- CASE 5708: Application of Roger C. Hanks for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Devonian formation through the approximate interval from 10,300 feet to 10,550 feet in his King Disposal Well No. 1 located in Unit C of Section 9, Township 20 South, Range 25 East, Eddy County, New Mexico.
- CASE 5709: Application of Tahoe Oil and Cattle Company for an exception to the provisions of Crder No. R-3221, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks, as an exception to the provisions of Commission Order No. R-3221, permission to construct and operate an earthen salt water disposal pit in the NW/4 SW/4 of Section 2, Township 20 South, Range 30 East, Eddy County, New Mexico.
- CASE 5710: Application of Benson-Montin-Greer Drilling Corporation for two non-standard gas proration units, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the two following described non-standard gas proration units in Township 32 North, Rarge 13 West, Ute Dome-Dakota Gas Pool, San Juan County, New Mexico:

a 250.64-acre unit comprising the N/2 of Section 30 to be dedicated to applicant's La Plata F-30 Well No. 2, located 900 feet from the North line and 827 feet from the West line of said Section 30;

a 250.80-acre unit comprising the S/2 of Section 30 to be dedicated to applicant's La Plata K-30 Well No. 1 located 1503 feet from the South line and 825 feet from the West line of said Section 30.

CASE 5691: (Readvertised and Reopened)

Application of Hanson Oil Corporation for an unorthodox oil well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be drilled 990 feet from the North line and 2600 feet from the West line of Section 25, Township 26 South, Range 31 East, North Mason-Delaware Pool, Eddy County, New Mexico.

CASE 5702: Application of Cities Service Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Tubb Gas Pool and Drinkard Oil Pool production in the wellbore of its Brunson "B" Well No. 7 located in Unit N of Section 3, Township 22 South, Range 37 East, Tea County, New Mexico.

LAW OFFICES

HINKLE, BONDURANT, COX & EATON

W.E.BONDURANT, JR. 1914 1973 LEWIS C. COX,JR. PAUL W. EATON, JR. CONRAD E.COFFIELD HAROLD L. HENSLEY, JR.

STUART D. SHANOR PAUL J. KELLY, JR.

CLARENCE E.HINKLE

JAMES H. BOZARTH RONALD G. HARRIS JAMES H. ISBELL

DOUGLAS L. LUNSFORD

600 HINKLE BUILDING POST OFFICE BOX 10

ROSWELL, NEW MEXICO 88201

June 24, 1976

TELEPHONE '505) 622-6510

MR. ISBELL LICENSED

MIDLAND, TEXAS OFFICE 521 MIDLAND TOWER (915) 683-4691

Oil Conservation Commission Box 2000 Santa Fe, New Mexico 87501

Gentlemen:

We enclose in triplicate application of Roger C. Hanks for salt water disposal in the King-Disposal well in Section 9, Township 20 South, Range 25 East, Eddy County in the Devonian formation. I discussed this matter over the phone with Bill Carr and it is my understanding that it will be included on the examiner's docket for July 7.

The log which is being filed with the application is apparently a driller's log, but if an electrical log was run I will request that it be available to be introduced at the hearing.

The application states that we are attaching as Exhibit "B" a diagrammatic sketch of the proposed disposal well. This has not yet been completed, but as soon as it is available I will send it to you to be filed with the application.

Yours sincerely,

BONDURANT, COX & EATON

CEH:cs

Enc.

cc: Roger C. Hanks

Since dictating the above, I have received the diagrammatic P.S. sketch, copy of which is enclosed.

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

APPLICATION OF ROGER C. HANKS FOR SALT WATER DISPOSAL IN THE KING-DISPOSAL WELL LOCATED 660 FEET FROM THE NORTH LINE AND 1980 FEET FROM THE WEST LINE OF SECTION 9, TOWNSHIP 20 SOUTH, RANGE 25 EAST, EDDY COUNTY, NEW MEXICO, IN THE DEVONIAN FORMATION IN THE INTERVAL BETWEEN 10,300 FEET AND 10550 FEET.

Oil Conservation Commission Box 2088 Santa Fe, New Mexico 87501

COMES Roger C. Hanks of Midland, Texas, acting by and through the undersigned attorneys, and hereby makes application for disposal of salt water in the King-Disposal well located 660 feet from the north line and 1980 feet from the west line of Section 9, Township 20 South, Range 25 East, Eddy County, New Mexico, in the Devonian formation in the interval between 10,300 feet and 10,550 feet, and in support thereof respectfully shows:

- l. There is attached hereto as Exhibit "A" a plat showing the location of the proposed disposal well and the location of all other wells within a radius of 2 miles from said well and the formations from which said wells are producing or have produced. Said plat also indicates the owners of the oil and gas leases within said 2 mile radius.
- 2. There is also filed herewith a log of the proposed disposal well.
- 3. There is attached hereto as Exhibit "B" a diagrammatic sketch of the proposed disposal well showing the casing strings, including diameters and setting depths, quantities used and tops of cement, perforated or open hole intervals, tubing strings, including diameters and setting depths, and the type and location of packer to be used.

- 4. It is proposed to dispose of produced salt water in the Devonian formation in the interval from 10,300 feet to 10,550 feet. The volume of produced water to be disposed of will vary from time to time.
- 5. The disposal of produced salt water in said well will be in the interest of conservation, the prevention of waste and will tend to protect correlative rights.
- 6. Applicant requests that this matter be included on the examiner's docket for July 7, 1976.

Respectfully submitted,

ROGER C. HANKS

HINKLE, BONDURANT, COX & EATON

Box 10

Roswell, New Mexico 88201 Attorneys for Applicant

Roger Hanks (Approved Dev SWD Well Monsanto Foster #1 Monsanto roster #1 660' FWL & 660' FNL, 5-20S-25E e da Sagi Copungsi Roger C. Hanks King Disposal Well #1 660' FNL & 1980' FWL, 9-20S-25E 301F 1-31-28 0 F 35471 N 3 871 N 3 871 N 3 871 € 10033 41. 7/4 (A) 16 Guif 10 14 18 10 1 1 18 Gulf 10 14 18 2 2 4 5 - 11 F Gulf 0554950 . 3. 5 1974 5 1974 2 194321 5 1375 5 1375 Exxon 91 | 75 1536265 1975 | 1875 | 1875 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 1876 | 18 Sala of house 24 Free 5.360 23 P∰D.Focken a a Gariaana 3 - 1 - 7# 055#285 (3) 30 25 DiFasken tein 83 3418 Residentes Second Secon 514 Cure Vike Fee 16:11-74 13:456 0554550 Fester Godet To 452 53 E. i 35----51518

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

APPLICATION OF ROGER C. HANKS FOR
SALT WATER DISPOSAL IN THE KINGDISPOSAL WELL LOCATED 660 FEET FROM
THE NORTH LINE AND 1980 FEET FROM
THE WEST LINE OF SECTION 9, TOWNSHIP
20 SOUTH, RANGE 25 EAST, EDDY COUNTY,
NEW MEXICO, IN THE DEVONIAN FORMATION
IN THE INTERVAL BETWEEN 10,300 FEET
AND 10550 FEET.

Oil Conservation Commission Box 2088 Santa Fe, New Mexico 87501

COMES Roger C. Hanks of Midland, Texas, acting by and through the undersigned attorneys, and hereby makes application for disposal of salt water in the King-Disposal well located 660 feet from the north line and 1980 feet from the west line of Section 9, Township 20 South, Range 25 East, Eddy County, New Mexico, in the Devonian formation in the interval between 10,300 feet and 10,550 feet, and in support thereof respectfully shows:

- 1. There is attached hereto as Exhibit "A" a plat showing the location of the proposed disposal well and the location of all other wells within a radius of 2 miles from said well and the formations from which said wells are producing or have produced. Said plat also indicates the owners of the oil and gas leases within said 2 mile radius.
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- 5. The disposal of produced salt water in said well will be in the interest of conservation, the prevention of waste and will tend to protect correlative rights.
- 6. Applicant requests that this matter be included on the examiner's docket for July 7, 1976.

Respectfully submitted,

ROGER C. HANKS

HINKLE, BONDURANT, COX & EATON

Box 10

Roswell, New Mexico 88201 Attorneys for Applicant

Roger Hanks (Approved Dev SWD Wel Monsanto Foster #1 660' FWL & 660' FNL, 5-20S-25E .∵, **∤**∵ r se žira 1 245 1 245 2 245 1 245 1 245 1 245 F - 12 d mally h Fall d - 12 fed Ch 6 5 th 2 2 2 5 6 4 ias Pocific 1-11-61 5 5 2 - 8 1 1 82 1475**8** 235 Roger C. Hanks King Disposal Well #1 660' FNL & 1980' FWL, 9-20S-25E TV STORY FROM STORY ST 2 23 수 (10년) 수 (40년) 11년(1년) 17 16 595 598 555450 25.4 F }} Exxon 13-1-74 244-851 8 - 7-44 Exxon 9: 1 % 3550285 A Hay Take 23 24 F er 5. 55 or Votas Pel. Novo 18 1862 ...5 In Parken Elekan (d. 1-24 6558273 9 * FER-FOS" 30 Howard | How 25 Footbastruers
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BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

APPLICATION OF ROGER C. HANKS FOR SALT WATER DISPOSAL IN THE KING-DISPOSAL WELL LOCATED 660 FEET FROM THE NORTH LINE AND 1980 FEET FROM THE WEST LINE OF SECTION 9, TOWNSHIP 20 SOUTH, RANGE 25 EAST, EDDY COUNTY, NEW MEXICO, IN THE DEVONIAN FORMATION IN THE INTERVAL BETWEEN 10,300 FEET AND 10550 FEET.

Oil Conservation Commission Box 2088 Santa Fe, New Mexico 87501

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Roswell, New Mexico 88201 Attorneys for Applicant

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KING DISPOSAL WELL #1 660' FNL & 1980' FWL, 9-20-25, Eddy County, NM

- 5-29-76 RU Moran Bros.
- 5-30-76 WO engine change out.
- 5-31-76 WO engine change out.
- 6-1-76 WO engine change out.
- 6-2-76 WO engine change out.
- 6-3-76 Drlg cmt @ 3350'. First plug 1125-1235'.
- 6-4-76 Drlg @ 7640'. 2nd plug @ 3350', 3rd plug @ 5000', 4th plug @ 6525'. OART: Mixing mud.
- 6-5-76 Drlg @ 8420' (bit stuck @ 7641'; worked free). 5th plug @ 7700'.
 OART: SD to mud up.
- 6-6-76 9600'. 6th plug @ 9350'. OART: Circ to condition hole.
- 6-7-76

 Drlg @ 9647', sdy lm & sh.

 LD 10 5-3/4" D\$'s, PU 18 6-1/2" DC's, ran Reed FP63
 bit, wash & ream to btm.

 OART: drlg.
- 6-8-76 Drlg @ 9760', sh, lm & sand.
- 6-9-76 Drlg @ 9866', lm & sh
- 6-10-76 Drlg @ 9972', lm & sh
- 6-11-76 Drlg @ 10,179', lm
- 6-12-76 Drlg @ 10,270', lm & sh
- Circ for DST #1 @ 10,338. Top of Devonian @ 10,288.

 Description of Dev as follows: white to tan romb. dolo
 w/some milky chert, poor fluoresence, slight cut w/some
 dead oil stain.

 DST #1. 10,290 10,338'. Temp 165°. Tool open w/very
 weak blow. 30 min preflow, ISI l hr, Test 2 hr, FSI 3 hr.

 IMP 5049, FMP 5049, IFP 400, FFP 266, ISIP 399, FSIP 266.
 2nd re-open, no blow. Rec 75' drlg mud. Closed in tool
 for SI. Started out of hole.
- 6-14-76 Drld 10,338 to 10,555'. Loss circ w/no returns.

 Description of Dev prior to loss circ as follows: tan to brewn, mostly dense cherty dolo w/erratic drlg breaks.

 No show.
- 6-15-76 Circ @ 10,300'.
- 6-16-76 Ran 5%" 17# N-80 csg, set 0 10,333.72'. Cmt as follows: Primary stage Halliburton pkr shoe 0 10,300', 275 sx Class C w/.006% Halad-22 + 6# salt/sk. First plug down 0 12:00 Noon, 6-15-76.

Second Stage - 485 sx Halliburton Lite w/6# salt/sk. Second plug down @ 6:45 PM, 6-15-76. DV tool set @ 8900'.

Third Stage - 870 sx Hallibucton Lite w/6# salt/sk. Plug down @ 2:45 AM, 6-16-76. DV tool set @ 5300.

Cat. circ to surface. WOC.

This is the own place have Skill but

prop to dried to depth forfreight blest Dev. put 5/2 10,200 cere to intermediate dr/

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

. 1	CASE NO. 5708
don se	Order No. R 5250
APPLICATION OF ROGER C. HANKS FOR SALT WATER DISPOSAL, EDDY COUNTY, NEW MEXICO.	
ORDER OF THE COMM	ISSION
BY THE COMMISSION:	
This cause came on for hearing at Santa Fe, New Mexico, before Endowment Now, on this day of a quorum being present, having correcord, and the recommendations of advised in the premises,	nsidered the testimony, the
FINDS:	
	having been given as required by ion of this cause and the subject
(2) That the applicant, R	oger C. Hanks
is the owner and operator of the	King Disposal Well No. 1
located in Unit C of Section 9	, Township 20 South,
Range 25 East, NMPM,	,
Eddy County, New Mexico.	
(3) That the applicant prop	oses to utilize said well to
dispose of produced salt water in	to theDevonian
formation, with injection into the	e open-hore interval
formation, with injection into the from approximately 10,300 feet	to 10,550 feet.
(4) That the injection shou	ld be accomplished through
at a minimum de sth of	d tubing installed in a packer
V	et; that the casing-tubing annulus
should be filled with an inert fla	uid; and that a pressure gauge

or approved leak detection device should be attached to the

annulus in order to determine leakage in the casing, tubing,

or packer.

That the water disposed of in said well should be equipped the injection will or system should be equipped the character for prevent larrasion and scale with pop off walve or advantable existing which will will limit the walthout pressure on the injection will to make a fel perminance of the semi-

pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than three hundred-sixty (360) psi, provided however, the Secretary-Director of the Commission should have authority to increase the aforesaid pressure limit if, in his judgement, conditions so warrant.

Serber

IT IS THEREFORE ORDERED:

(1) That the applicant, Roger C. 1	Hanks,
is hereby authorized to utilize its King	Disposal Well No. 1 ,
located in Unit C of Section 9	Township 20 South
Range 25 East , NMPM,	
Eddy County, New Mexico, to disp	oose of produced salt
water into the Devonian	formation, injec-
tion to be accomplished through	32 -inch
tion to be accomplished through tubing installed in a packer set at approximately appr	wimmum depth of feet,
with injection into the open-law inter	
10,300 feet to 10,550 feet;	

PROVIDED HOWEVER. that the tubing shall be plustic lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

water disposed of into said ned shad be all the enipped demically tracked to present corresion and said with a pop-off value with a pop-off value with a pop-off value with a pop-off value with the deliberation on the injection will be less shall like the deliberation on the injection will be less than the conducted and the results there were than 700 psi. I filed seni-annually with the less than the less

SCALE

That the operator shall notify the supervisor of the Artesia district of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

visor of the Commission's Artesia Bistrict Office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

- That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (b) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

^(3) That the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than three hundred-sixty (360) psi, provided however, the Secretary-Director of the Commission shall have the authority to increase the aforesaid pressure limit upon satisfactory showing that such pressure limit increase is warranted.