CASE 5753: A. H. RAINS for amendment of Order No. R-5217, Eddy County, New Mexico

CASE NO.

5 753

APPlication, Transcripts, Small Exhibits,

ETC.



DIRECTOR

JOE D. RAMEY

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FZ 87501

LAND COMMISSIONER PHIL R. LUCERO October 13, 1976



Mr. A. H. Rains	ORDER NO. R-5217-A
Box 927 Carlsbad, New Mexico 88220	
•	Applicant:
	·
	A. H. Rains
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 x	
Aztec OCC	
Other	

Re: CASE NO.__

5753

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C+102 Supersedes C+128 Effective 1-1-65

All distances must be from the outer boundaries of the Section EDOV Dedicated Acreage: 3274 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Yes No If answer is "yes," type of consolidation ____ If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. 08-29-76 1320 1650 1986 2310 2640

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BEFORE THE

NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico September 15, 1976

EXAMINER HEARING

IN THE MATTER OF:

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Application of A. H. Rains for amend-CASE ment of Order No. R-5217, Eddy County, New Mexico.

5753

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

APPEARANCES

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

Santa Fe, New Mexico

Page	?	

		Page	;	
1	TNDEX			
2				Page
3	A. H. RAINS			
4	Direct Examination by Mr. Carr			3
5	Direct Examination by Mr. Stamets			4
6				
7				
8				
9	EXHIBIT INDEX			
10			Offered	Admitted
11	Applicant's Exhibit One, Form C-108		5	8
12	Applicant's Exhibit Two, Form C-102		7	8
13				
14				
15				
16				
17				
18				
19				
20				
21				•
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MR. STAMETS: We will call next Case 5753.

MR. CARR: Case 5753, application of A. H. Rains for amendment of Order No. R-5217.

MR. STAMETS: Mr. Rains, are you here representing yourself today?

MR. RAINS: Yes, sir.

MR. STAMETS: We would like to have you stand and be sworn, please?

(THEREUPON, the witness was duly sworn.)

A. H. RAINS

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

DIRECT EXAMINATION

BY MR. CARR:

Q Would you state your full name for the record, please?

A. A. H. Rains.

O Mr. Rains, you are the applicant in this case?

A. Yes, sir.

Q Would you please explain to the Examiner what you are seeking with this application?

A. I was here in May, you know, and got permission for a water injection well. Now, I would like to get this changed

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to drill a new well out-and-out.

MR. STAMETS: Do you have a copy of the original order with you, Mr. Rains?

A. Yes, I do.

MR. STAMETS: Mr. Rains, this Magruder-Yates is an old pool, is it not?

A. Yes, sir, it is.

MR. STAMETS: And I believe you indicated that you were going to go back into an old hole in attempting to complete that as a salt water disposal well, is that correct?

A. Yes, sir.

MR. STAMETS: Have you done that as yet?

A. No, sir. We did do some bailing on the well in seeing that it did not produce enough oil to be worth keeping.

MR. STAMETS: So instead of using this well for disposal you now seek to use it as a producing well?

A. That's right.

MR. STAMETS: So then you would propose to substitute another well for this disposal well?

A. Wes, sir.

MR. STAMETS: Would this be a new well?

A new well just out-and-out, just drill a new one.

MR. STAMETS: And that is the Well No. 8 which you have shown on Form C-108 which you have handed me here?

Yes.

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MR. STAMETS: I think perhaps we should have this Form 108 marked Exhibit Number One in this case.

Now, Mr. Rains, supposing that you were to drill Well No. 8 and it turned out to be a good oil producer?

A. I would like to produce it and then still drill another. I would like to have it flexible where I could do either one.

MR. STAMETS: So until you have found a well in the area that would be acceptable to salt water disposal, you are not sure which one you are really going to use?

A. That's right.

MR. STAMETS: Now, in your application you seek administrative procedure for the approval of a substitute or additional salt water disposal wells on this Pure State Lease. I presume you would seek to file an application in accordance with the seven hundred series rules on filing applications, filed on Form C-108 with appropriate notice and so on?

A. Yes, sir.

MR. STAMETS: And the well construction then would be in the same manner which you originally proposed in Case 5681 and the construction would follow more or less what was set out for the Pure State No. 1, the original well?

A. Yes, sir, only we are going to instead of setting seven-inch pipe, I want to set eight-inch pipe.

MR. STAMETS: That's the surface pipe?

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That's the surface pipe and then five-and-a-half on the long string.

MR. STAMETS: To your knowledge is there any fresh water in this area?

Well, as far as we know there is not any.

MR. STAMETS: Now, will the water be going back into the producing horizon or below the producing horizon?

Well, that I don't know for sure yet until I get it drilled. I would like to put it below the other formations, the one that we are producing in.

MR. STAMETS: Why is that?

Well, it might wind up where we would just be 13 circulating it, you know. We first planned to put it back in the same formation but after talking to my geologist he said that it would probably be better to put it below if we could find a place to put it, so we might end up putting it both places.

MR. STAMETS: Okay, if the water were to go into a different zone in the Delaware would you be willing to supply a water analysis on this zone?

I sure would.

Another thing I would like to do, I would like to change this Pure State to Exxon State if that's all right.

MR. STAMETS: But it would still be the same lease?

It would be the same lease except it would just be

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Exxon instead of Ture.

MR. STAMETS: Are there any other questions of the witness?

Wr. Rains, you have submitted a Form C-102 along with Form C-108 and this lists the location of this injection well as twelve hundred and sixty-eight feet from the south line and two thousand and thirty-two feet from the east line. Is this a standard unit out there? It appears on your scaled-out drawing here that that is closer than three hundred and thirty feet?

A Yes, sir, that is true but the way I understand as long as it borders the lease on both sides it's permissible but if you were on an outline of some other lease you couldn't do that.

MR. STAMETS: So you have here an unorthodox location. In your administrative procedure would you seek to have autority for additional salt water disposal wells at unorthodox locations in this area?

A. Yes.

MR. STAMETS: But since this is an application only salt water disposal wells that would not apply to producing wells and you should understand that if you get a producing well at an unorthodox location you will have to have a hearing for approval of that location.

A. To produce it, you mean?

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MR. STAMETS: Yes.

A. Yes. But for salt water I could.

MR. STAMETS: Any other questions of the witness?

O. (Mr. Carr continuing.) Is it your intention to offer Exhibits One and Two in this case?

A. Yes, sir.

MR, STAMETS: Exhibits One and Two will be admitted into evidence.

(THEREUPON, Applicant's Exhibits One

and Two were admitted into evidence.)

MR. STAMETS: Any other questions of the witness? He may be excused.

(THEREUPON, the witness was excused.)

MR. STAMETS: Anything further in this case? We will take the case under advisement.

.

I, STDNEY F. MORKISH, 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

do hereby certify that the foregoing is complete record of the proceedings in the Examiner hearing of Case No. 5.753 neard by me on 1976.

New Mexico Oil Conservation Commission

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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. 5753 Order No. R-5217-A

APPLICATION OF A. H. RAINS FOR AMENDMENT OF ORDER NO. R-5217, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came or for hearing at 9 a.m. on September 15, 1976, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this <u>l2th</u> day of October, 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 by Commission Order No. R-5217 dated May 18, 1976, the applicant, A. H. Rains, was granted authority to utilize his Pure State Well No. 1, located in Unit J of Section 15, Township 21 South, Range 27 East, NMPM, Magruder-Yates Pool, Eddy County, New Mexico, as a salt water disposal well for water production from said Pure State Lease.
- (3) That it now appears that said Pure State Well No. 1 may be better utilized as a producing well.
- (4) That the applicant seeks the amendment of Order No. R-5217 to provide an administrative procedure for the approval of substitute or additional salt water disposal wells on said Pure State Lease in Section 15, Township 21 South, Range 27 East, Magruder-Yates Pool, Eddy County, New Mexico.
- (5) That the applicant is the only operator in said Magruder-
- (6) That approval of the application may result in greater recovery of oil from said Pure State Lease, will not cause waste, will not violate correlative rights, and will not endanger fresh waters provided that proper well construction and monitoring procedures are required.

-2-Case No. 5753 Order No. R-5217-A

(7) That the application should be approved.

IT IS THEREFORE ORDERED:

- (1) That Order (1), (2), and (3), of Commission Order No. R-5217 are hereby amended to read in their entirety as follows:
 - "(1) That the applicant, A. H. Rains, is hereby authorized to utilize his Pure State Well No. 1, located in Unit J of Section 15, Township 21 South, Range 27 East, NMPM, Magruder-Yates Pool, Eddy County, New Mexico, to dispose of produced salt water into the Yates formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 535 feet, with injection into the open-hole interval from approximately 540 feet to 551 feet.
 - "(2) The Secretary-Director of the Commission is hereby authorized to approve such additional or substitute injection wells at orthodox and unorthodox locations within the boundaries of applicant's Pure State Lease as may be necessary to handle produced water therefrom, provided said wells are located no closer than 660 feet to the outer boundary of said lease nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary. To obtain such approval, the operator shall file proper application with the Commission, which application shall include the following:
 - (a) A plat showing the location of the proposed well, all wells within the project area, and offset operators, locating wells which offset the project area.
 - (b) A schematic drawing of the proposed disposal well which fully describes the casing, tubing, perforated interval, and depth.
 - (c) A letter stating that all offset operators to the proposed well have been furnished a complete copy of the application and the date of notification.

The Secretary-Director may approve the proposed well if, within 20 days after receiving the application, no objection to the proposal is received. The Secretary-Director may grant immediate approval of the application upon receipt of waivers from offsetting operators.

- "(3) That terms and conditions of approval of any disposal well under provisions of this order shall be as follows:
- (a) 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

-3-Case No. 5753 Order No. R-5217-A

with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

- (b) 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.
- (c) 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.
- (2) 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.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman

MERY J. ARNOLD Member

JOE D. RAMEY, Member & Secretary

SEAL

Form C-108 Revises 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR					ADDACSS			·			
A.H. Rains					Box 92	27 , Ca	rl	sbad, Ne	w Mexi	co, 88220	
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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.

NEW MEXICO OIL CONSERVATION COMMISSION

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

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A.H. Rains		Tweec vo.		927, Car	lsbad, Ne	w Mexi	co, 88220
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Application of A.	H. Rains fo	or amendment o	of Order No.	. R-5217	. Eddy Co	unty.	New Mexico.
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well on applicant	s Pure Sta	are Lease in S	Section 15.	Townshi	p 21 Sout	h, Ran	ige 27 East,
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6:71-	Jan .					9-	15-76
(Signature)	MILYI		(Title)				(Date)

NOTE: Would matter, from the State Engineer, the surface other, 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.

NEW MEXICO OIL CONSERVATION COMMISSION

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

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J.D. Spears, Box	1017, Carl:	sbad,	New Mexi	ico, 88220					
LIST NAMES AND ADDRESSES OF ALL	OPERATORS WITHIN	INE-HA	LI () MILE OF	THIS INJECTION	MELL				
Yates Petroleum (Corporation	, Art	esia, Nev	Mexico,	88210				n i and an angle department of the second of
Perry Bass, Midla	and, Texas								
Application of A		מה יוכ	endment o	of Order N	o. R-5	217	Eddy Co	untv.	New Mexico.
Applicant, in	the above-	style	d cause,	seeks the	amend	ment	of Orde	r No.	R-5217 to provide
an administrativ	e procedure	for	the appro	val of su	bstitu	te	or additi	onal s	R-5217 to provide salt water disposa.
well on applican					, Town	shil	21 Sout	h, Kar	ige 27 East,
Magruder Yates Po	ool, Eddy Co	ounty	, New Me:	kico.					
HAVE COPIES OF THIS APPLICATION SENT TO JACK OF THE FOLLOWING?	STEN SURFACE OF	YNER	نيد _{دوستان} واستان دوستان دو	EACH OPE	BATCH WIT	HIN ON	E-HALF MILE	THE NEW	MEXICO STATE ENGINEER
RE THE FOLLOWING ITEMS ATTACH THIS APPLICATION (SEE RULE 701-E	EO TO FLAT OF AR	EA	···	ELECTRIC	AL LOG			DIAGRAM	MATIC SKETCH OF WELL
								<u> </u>	
	certify that the in	ntormat	ion above is	true and compl	ete to the	e best	of my knowl		
C. 2/-1	airs							9	-15-76

NOIE: Should namers from the State Engineer, the surface owner, and all operators within one-kalf 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,

(Title)

MAGRUDER FIELD

Section 15 Township 21 S Range 27 E N.M.P.M. County Eddy NM

Township No. 54 No. Figure 513-Scale Linch I-Mile -In Stock and For Sale by IRE OFDE PRESE, Inlead Oklahoma

EXXON STATE

Scale 4" = 1 mile R 8055 15-1 Yates 榉 Yates ₩ WEIL # P. Buss 22-1



REPORT OF WATER ANALYSIS

trom A.W.Rains Combsbad, N.A.

Date 9-7-76

Sampling Date 9-1-76

Sample Marked

DISSO MED SOLIDS	mg/L.	meq/L.
Cations Sodium, Na (Calc.)	14700	6110
Calcium, Ca	3000	34
Magnesium, Mg		86
Barium, Ba		
Total	. 16847	780.
Anions	•	
Chloride, Cl.	24300	684.
Sulfate, SO ₄	4390	91.5
Carbonate, CO ₃	0	0
Bicarbonate, HCO ₃	281	4.6
Total	28955	780.
Total Dissolved Solids (Calc.)	45801	,001
Total Issa - Es	14	
Total Iron, Fe	13.2	
OTHER PROPERTIES		
	7.0	
Specific Gravity	1.020	
Turbidity (JTU)	30.	

Bob George

Analyst

NALCO CHEMICAL COMPANY VISCO CHEMICALS

P. U. BOX 87 . SUGAR LAND, TEXAS 77478

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Application of A. H. Bains for an amendment of Commission Order No R 5217.

Applicant seeks an amendment of said order to provide an administrative procedure for the approval of substitute or additional salt water disposal wells on applicants Pare State Lease, SE 14
See 15-T 215-B27 E, Magnader Yetes Pool, Eddy County, New Mexico.

Q.71. Hain 8-19-76
PO BOX 927
Carls bad, N.M.

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RLS/jr

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

W

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

CASE I	NO	57	53
Order	No.	R-	5217-A

APPLICATION OF A.H. RAINS FOR
AMENDMENT OF ORDER NO.
R-5217, EDDY COUNTY, NEWMERICS

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on <u>September 15</u>, 19 76, at Santa Fe, New Mexico, before Examiner <u>Richard L. Stamets</u>,

NOW, on this <u>day of October</u>, 19 76, 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 by Commission Order No. R-5217 dated May 18, 1976, the applicant, A. H. Rains, was granted authority to utilize his Pure State Well No. 1, located in Unit J of Section 15, Township 21 South, Range 27 East, NMPM, Magruder-Yates Pool, EddyCounty, New Mexico, as a salt water disposal well for production from said Pure State Lease.

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-2-Case No. 5753 Order No. R-5217-A

- (3) That it now appears that said Pure State Well No. 1 may be better utilized as a producing well.
- (4) That the applicant seeks the amendment of Order No. R-5217 to provide an administrative procedure for the approval of substitute Said or additional salt water disposal wells on applicant's Pure State Lease in Section 15, Township 21 South, Range 27 East, Magruder-Yates Pool, Eddy County, New Mexico.
- (5) That the applicant is the only operator in said Magruder Yates Pool.
- (6) That approval of the application may result in greater recovery of oil from said Pure State Lease, will not cause waste, will not violate correlative rights, and will not endanger fresh waters provided that proper well construction and monitoring procedures are required.
 - (7) That the application should be approved.

IT IS THEREFORE ORDERED:

- (1) That Order (1), (2), and (3), of Commission Order No.

 7-6-6-8

 R-5217 are hereby amended to read in there entirety as follows:
 - "(1) That the applicant, A. H. Rains, is hereby authorized to utilize the Pure State Well No. 1, located in Unit J of Section 15, Township 21 South, Ran-ge 27 East, NMPM,
 - Magruder-Yates Pool, Eddy County, New Mexico, to dispose of produced salt water into the Yates formation, injection to be accomplished through 2 3/8-inch tubing installed in a paker set at approximately 535 feet, with injection into the open-hole interval from approximately 540 feet to 551 feet."
 - "(2) The Secretary-Director of the Commission is hereby
 authorized to approve such additional or substitute injection
 wells at crthodox and unorthodox locations within the
 boundaries of applicant's Pure State Lease as may be necessary
 to handle produced water therefrom, provided said wells

-3-Case No. 5753 Order No. R-5217-A

are located no closer than 660 feet to the outer boundary of said lease nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary. To obtain such approval, the operator shall file proper application with the Commission, which application shall include the following:

- (a) A plat showing the location of proposed well, all wells within the project area, and offset operators, locating wells which offset the project area.
- (b) A schematic drawing of the proposed disposal well which fully describes the casing, tubing, perforated interval, and depth.
- (c) A letter stating that all offset operators to the proposed well have been furnished a complete copy of the application and the date of notification.

The Secretary-Director may approve the proposed well if, within 20 days after receiving the application, no objection to the proposal is received. The Secretary-Director may grant immediate approval of the application upon receipt of waivers from offsetting operators."

- "(3) That terms and conditions example approval of any disposal well under provisions of this order shall be as follows:
- (a) 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.
- (b) 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.
 - (c) That the operator shall immediately notify the

-4-Case No. 5753 Order No. R-5217-A

> 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.

(2) 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.