# CASE NO.

6606

APPlication,
Transcripts,
Small Exhibits,

ETC.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION State Land Office Building Santa Fe, New Mexico 25 July 1979

#### EXAMINER HEARING

IN THE MATTER OF: Application of Getty Oil Company for

salt water disposal, Lea County, New Mexico.

CASE 6606

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

#### APPEARANCES

For the Oil Conservation Ernest L. Padilla, Esq. Division:

Legal Counsel for the Division State Land Office Bldg. Santa Fe, New Mexico 87503

For the Applicant:

William F. Carr, Esq. CAMPBELL & BLACK P. A.

Jefferson Place

Santa Fe, New Mexico 87501

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H. W. TERRY

Direct Examination by Mr. Carr

Cross Examination by Mr. Nutter

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F WALTON BOYD

B SHORTHAND REPORTER

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Fe, New Mexico 87361

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MR. NUTTER: We'll call now Case Number

MR. PADILLA: Application of Getty Oil

Company for salt water disposal, Lea County, New Mexico.

MR. CARR: May it please the Examiner, I

am William F. Carr, Campbell and Black, P. A., Santa Fe,

appearing on behalf of the applicant. I have one witness.

#### (Witness sworn.)

#### H. W. TERRY

being called as a witness and having been duly sworn upon his oath, testified as follows, to-wit:

#### DIRECT EXAMINATION

BY MR. CARR:

6606.

Q. Will you state your full name and place of residence?

A. My name is Herman Terry. I reside at 717 Oxford in Odessa, Texas.

Mr. Terry, by whom are you employed and in what capacity?

A I'm employed by Getty Oil Company in Hobbs, New Mexico, and I'm the Area Engineer.

Q. Have you previously testified before this

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Commission and had your credentials accepted and made a matter of record?

A No, I haven't.

Q. Would you briefly summarize for the Examiner your educational background and work experience?

A Yes. I graduated from Texas Technological College in May of 1969 with a BS degree in Electrical Engineering.

I've been with Getty Oil Company for ten years. I've worked in Andrews, Texas, Gretna, Louisiana, New Orleans, Louisiana, Crane, Texas.

I was transferred to the Hobbs area July 1st of this year.

Mr. Terry, are you familiar with the application of Getty in this case?

A. Yes, I am.

MR. CARR: Are the witness' credentials acceptable?

MR. NUTTER: Yes, they are.

Q (Mr. Carr continuing.) Mr. Terry, will you briefly state what Getty seeks with this application?

A. We're seeking approval to dispose of salt water from our Getty State 35 Well No. 1 into the State "AA" Well No. 1.

Q Will you please refer to what has been

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marked for identification as Getty Exhibit Number One and explain to the Examiner what it is and what it shows?

A. This is the application to dispose of salt water by injection into a porous formation, Form C-108, for the State "AA" Well No. 1, and it lists the casing that we propose to run and the various pressures that we propose to use.

Q. Mr. Terry, when was this well originally drilled?

A This well was drilled in -- the well was drilled in 1956 and it was to a depth of 4250. It was plugged and abandoned as a dry hole on November 4th of 1956.

Q Will you now refer to what has been marked Exhibit Number Two and explain what it is?

A. Exhibit Number Two is a plat showing the wells in the area. Also attached is a table listing the wells in the area and the well -- and the zones that they produce from.

Q And this plat also shows the leases in the area?

A Yes, it does.

Q And the table at the end indicates all producing formations, is that correct?

A. Yes, it does.

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<b>Č</b>	Please	refer to	what	has	been	marked	as
Exhibit Number	Three and	d explain	this	to	the E	xaminer.	•

- A. This is a diagrammatic sketch of the present completion of what the well is presently and what we propose to do to the well prior to the injection of water.
  - Q. And what is the injection interval?
- A. The injection interval is from 3810 to 41 -- pardon me. 3810 to 4080 feet.
- Q Mr. Terry, in your opinion, will the proposed completion result in the well being cased and cemented so as to prevent contamination of oil, gas, and water resources?
  - A Yes, it will.
- Q What is the source of the water you propose to inject into the subject well?
- A It would be water, produced water, from our Getty 35 State No. 1.
- Q. And what volumes do you anticipate injecting?
  - A Approximately 265 barrels per day.
- Q Will you be injecting this water under pressure or by gravity?
- A. By pressure. We anticipate approximately 300 pounds.
  - Q In any event, a pressure limitation of

## SALLY WALTON BOYE CERTIFED SHORTHAND REPORTE 1018 FLAM BENCA (818) 471-341 SALILA FA. NOW MOLEGO 13381

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.2 of a pound per foot of depth would be satisfactory for your purposes, is that correct?

A. Be adequate.

Q. Will you now refer to what has been marked as Exhibit Number Four and explain this to the Examiner?

A. This is a water analysis of the produced water from our Getty 35 State No. 1 that we propose to inject into the well.

Q. Mr. Terry, are there any wells within one-half mile of the injection well which penetrate the injection zone?

A. Yes, sir, it's our Getty 36 State Com Well
No. 1 is within a half a mile.

Q And when was that completed?

A It was completed July of this year.

Q Will you refer to what has been marked as Exhibit Number Five and explain what this shows?

A. This is a diagrammatic sketch of the Getty

36 State Com Well No. 1 that is within a half mile of the subject well.

Q Is this the only well to your knowledge within the one-half mile radius of the subject well which penetrates the injection zone?

A Yes, it is.

Q Will you now refer to Exhibit Number Six

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and explain this to the Examiner?

- A. This is the well location and acreage dedication plat, Form C-102, for the Getty 36 State Com Well No. 1.
- Q And now refer to Exhibit Number Seven and explain this to the Examiner.
- A This is a gamma ray neutron log of the State "AA" Well No. 1 that shows the zone that we propose to inject water into.
- Q. Mr. Terry, in your opinion will granting this application prevent waste, protect correlative rights, and be in the interest of conservation?
  - A. Yes, it will.
- Q. Were Exhibits One through Seven prepared by you or have you reviewed them and can you testify as to their accuracy?
  - A. Yes, I can.

MR. CARR: At this time, Mr. Examiner, we would offer into evidence Getty Exhibits One through Seven.

MR. NUTTER: Applicant's Exhibits One through Seven will be admitted in evidence.

MR. CARR: I have no further questions of Mr. Terry on direct.

#### CROSS EXAMINATION

#### BY MR. NUTTER:

Mr. Terry, looking at your plat, Exhibit
Two, I can't tell for sure, but are there any wells within
a half a mile of the subject well which have been plugged
and abandoned?

A To my knowledge there are no wells that have been plugged and abandoned.

Q. And the summary here, which is on Exhibit

Number -- or Table I, are the producing wells within two

miles of the subject well, is that it?

They're not necessarily producing at present. They have produced from the zone.

O. These are wells within two miles, though.

A. Yes, sir, within two miles.

Q. And the nearest well to the subject well would be your Getty 35 - 1.

A The 36 - 1.

On The 36 - 1, the one that you have the Exhibit Number Five on?

A Yes, sir.

And that particular well, there would be two strings of casing opposite the proposed disposal zone, is that correct?

A That's correct.

SALLY WALTON BOYD
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Q Okay. Now, from your analysis of the water, it would appear that the disposal water has approximately 87,000 parts per million of chlorides, and the total of dissolved solids of 143,000.

Do you have any analysis on the water that is in the Yates, the formation that you'll be disposing into?

A No, sir, I don't.

I have a note here from our District office in Hobbs that states that this may involve outside water being disposed of into the Capitan Reef. I don't know how serious it would be but it may be we'll have to check out the water that's in the formation that you're disposing of and if that has any possibility of being in communication with the Capitan Reef, and the water exceeds the -- the water is of worse quality than the Capitan Reef water, it may not be permissible.

But your proposal is to dispose into the zone 3810 to 4080, according to Exhibit Three.

A Yes, sir.

Q I see a note here that the well has cement plug from 4169 to 4250. Now, that 4080, is that based on your interpretation of the --

A. Of the Yates.

Q -- porosity in the Yates?

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A.	Yes,	sir.
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Q But actually, all the way down to 4169 would be a --

- A Yes, sir, that would be open.
- Q -- exposed to the water.
- A. Yes, sir.
- Q. The interval from the casing shoe to the cement plug would be exposed to disposal water.
  - A Yes, sir, that's correct.

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

Do you have anything further in this case,

Mr. Carr?

MR. CARR: Nothing further, Mr. Nutter.

MR. NUTTER: Does anyone have anything they wish to offer in Case Number 6606?

We'll take the case under advisement.

(Hearing concluded.)

#### REPORTER'S CERTIFICATE

I, SALLY WALTON BOYD, a Court Reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, knowledge, and skilî, from my notes taken at the time of the hearing.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. heard by me on

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#### NEW MEXICO OIL CONSERVATION COMMISSION

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

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Getty Oil Company		WELL NO.	PILLO		COUNTY
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ARE THE FOLLOWING ITEMS ATTACHS THIS APPLICATION (SEE RULE 701-8  1 hereby (	1)	nformation above i	s true and comple	te to the best of my k	·

ceived 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.

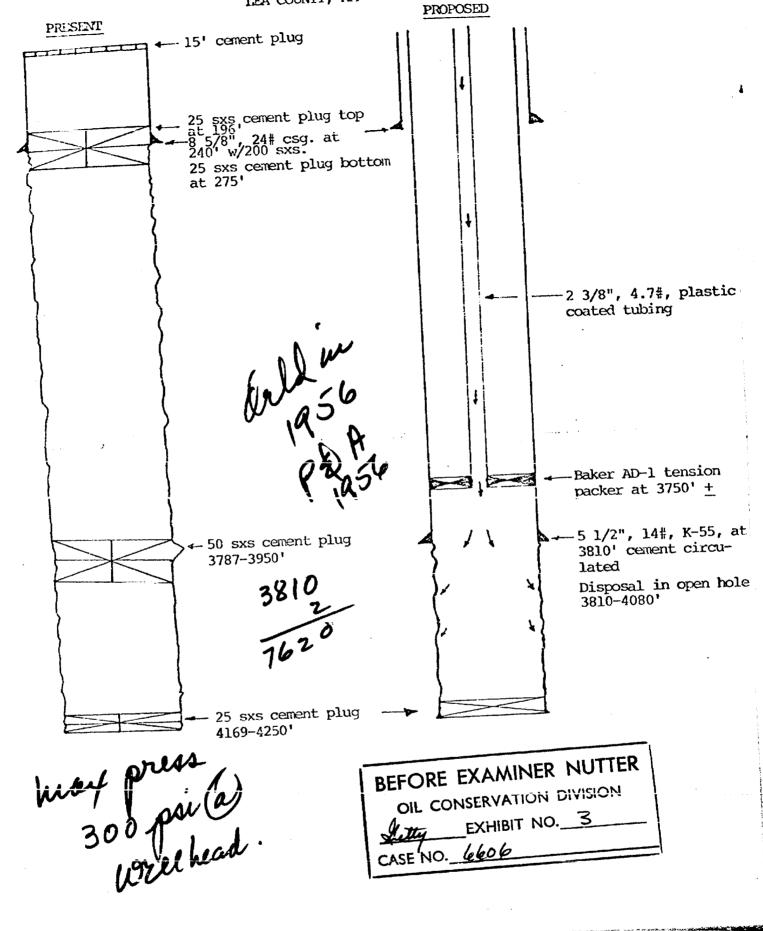
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#### TABLE I

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Morrow

Grama Ridge Morrow Morrow STATE "AA" WELL NO. 1 SEC. 35, T-21-S, R-34E LEA COUNTY, NM





Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

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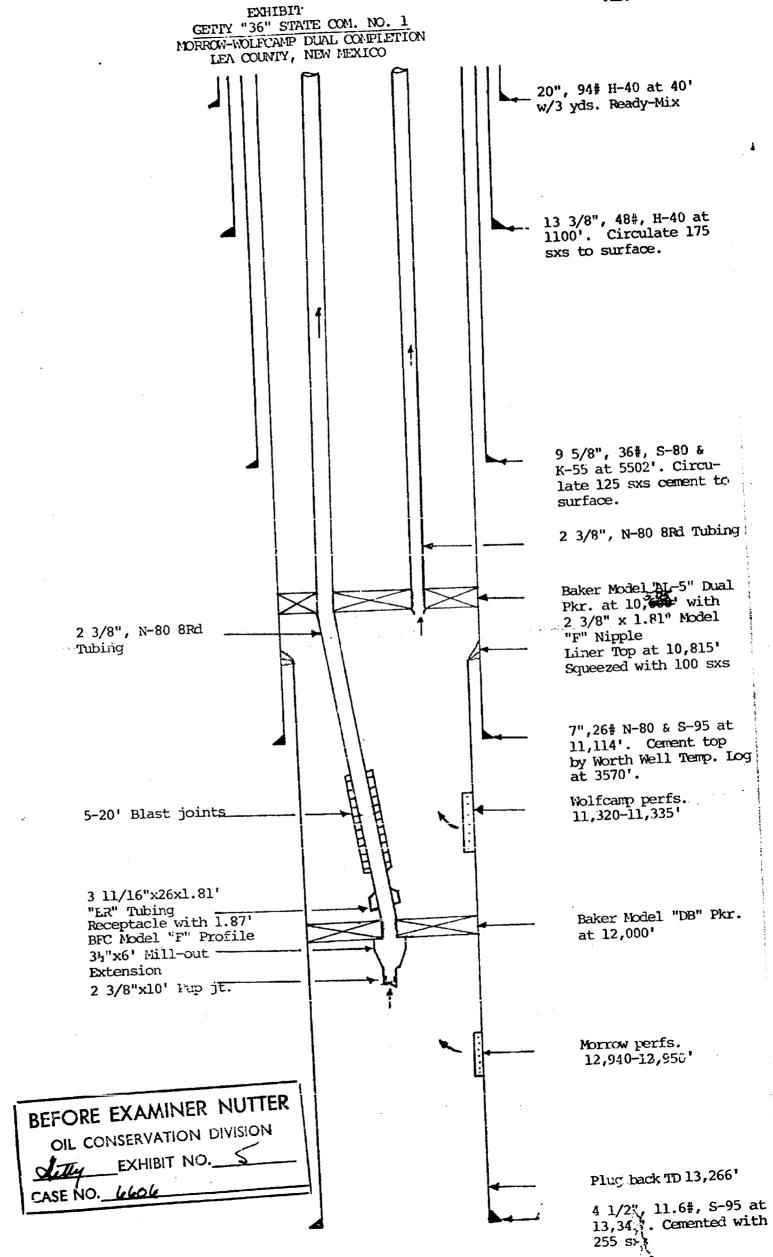
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BEFORE EXAMINER NUTTER

OIL CONSERVATION DIVISION

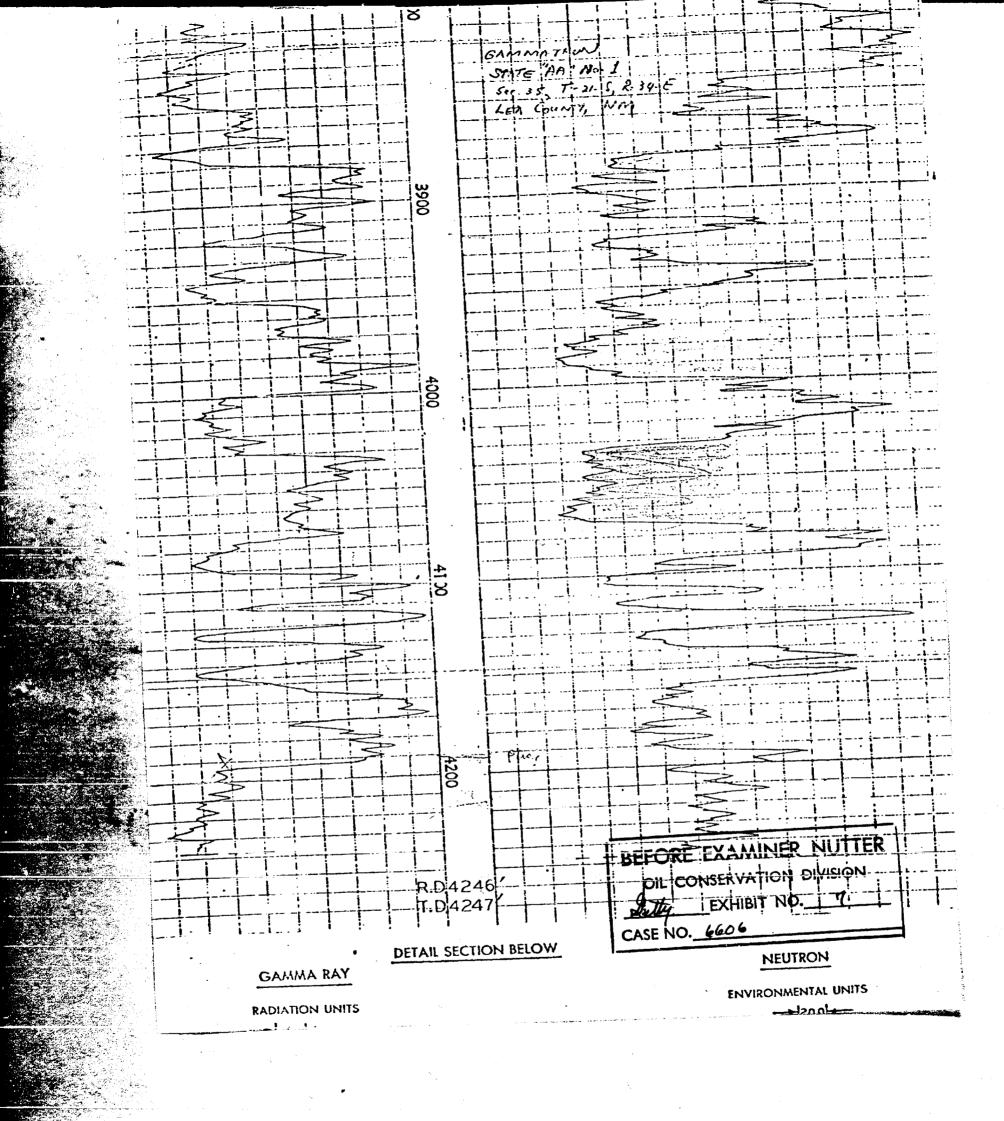
EXHIBIT NO. 4



# MELL LOCATION AND ACREAGE DEDICATION PLAT

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## BRUCE KING GOVERNOR LARRY KEHOE

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

August 17, 1979

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
MORN R27-9434

Mr. William F. Carr Campbell & Black	Re: CASE NO. 6606 ORDER NO. R-6080
Attorneys at Law Post Office Box 2208 Santa Fe, New Mexico	Applicant:
	Getty Oil Company
Dear Sir:	
Enclosed herewith are two Division order recently en	copies of the above-referenced tered in the subject case.
Pours very truly,	
JOE D. RAMEY Director	
Director V	•
JDR/fd	
Copy of order also sent to	) <b>:</b>
Hobbs OCD X Artesia OCD X Aztec OCD	
Other	

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
State Land Office Building
Santa Fe, New Mexico

#### EXAMINER HEARING

25 July 1979

#### IN THE MATTER OF:

Application of Getty Oil Company for salt water disposal, Lea County, New Mexico.

CASE 6606

BEFORE: Daniel S. Nutter

#### TRANSCRIPT OF HEARING

#### APPEARANCES

For	the	Oil	Conservation
D:	ivis	ion:	

n

Ernest L. Padilla, Esq.
Legal Counsel for the Division
State Land Office Bldg.

Santa Fe, New Mexico 87503

For the Applicant:

William F. Carr, Esq. CAMPBELL & BLACK P. A.

Jefferson Place

Santa Fe, New Mexico 87501

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ZENTINED SHORTHAND REPORTS
STREET BENDON (\$64) 471BENEA PO, NOW MARKO 471-

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#### INDEX

3 H. W. TERRY

Direct Examination by Mr. Carr 3

Cross Examination by Mr. Nutter 9

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EXHIBITS

Applicant Exhibit Two, Plat

Applicant Exhibit Two, Plat

Applicant Exhibit Three, Sketch

Applicant Exhibit Four, Water Analysis

Applicant Exhibit Five, Sketch

Applicant Exhibit Six, C-102

Applicant Exhibit Seven, Log

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MR. NUTTER: We'll call now Case Number

6606.

MR. PADILLA: Application of Getty Oil Company for salt water disposal, Lea County, New Mexico. MR. CARR: May it please the Examiner, I am William F. Carr, Campbell and Black, P. A., Santa Fe, appearing on behalf of the applicant. I have one witness.

#### (Witness sworm.)

#### H. W. TERRY

being called as a witness and having been duly sworn upon his oath, testified as follows, to-wit:

#### DIRECT EXAMINATION

BY MR. CARR:

Will you state your full name and place of residence?

My name is Herman Terry. I reside at 717 Cxford in Odessa, Texas.

Mr. Terry, by whom are you employed and in what capacity?

I'm employed by Getty Oil Company in Hobbs, New Mexico, and I'm the Area Engineer.

Have you previously testified before this Q.

# SALLY WALTON BOYD CERTIFIED SHORTHAND REPORTS 31517 A.B. Bande (151) 41346

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Commission and had your credentials accepted and made a matter of record?

- A No, I haven't.

A Yes. I graduated from Texas Technological College in May of 1969 with a BS degree in Electrical Engineering.

I've been with Getty Oil Company for ten years. I've worked in Andrews, Texas, Gretna, Louisiana, New Orleans, Louisiana, Crane, Texas.

I was transferred to the Hobbs area July lst of this year.

Mr. Terry, are you familiar with the application of Getty in this case?

A Yes, I am.

MR. CARR: Are the witness' credentials acceptable?

MR. NUTTER: Yes, they are.

Q (Mr. Carr continuing.) Mr. Terry, will you briefly state what Getty seeks with this application?

We're seeking approval to dispose of salt water from our Getty State 35 Well No. 1 into the State "AA" Well No. 1.

Q Will you please refer to what has been

marked for identification as Getty Exhibit Number One and explain to the Examiner what it is and what it shows?

This is the application to dispose of salt water by injection into a porous formation, Form C-108, for the State "AA" Well No. 1, and it lists the casing that we propose to run and the various pressures that we propose to use.

Mr. Terry, when was this well originally drilled?

This well was drilled in -- the well was drilled in 1956 and it was to a depth of 4250. It was plugged and abandoned as a dry hole on November 4th of 1956.

Exhibit Number Two and explain what it is?

Exhibit Number Two is a plat showing the wells in the area. Also attached is a table listing the wells in the area and the well -- and the zones that they produce from.

Q And this plat also shows the leases in the area?

A. Yes, it does.

And the table at the end indicates all producing formations, is that correct?

A Yes, it does.

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	Q.	Plea	se :	refer	to	what	has	bee	n marked	as
Exhibit	Number	Three	and	expla	iin	this	to	the :	Examiner.	•

A This is a diagrammatic sketch of the present completion of what the well is presently and what we propose to do to the well prior to the injection of water.

- And what is the injection interval?
- The injection interval is from 3810 to 41 -- pardon me. 3810 to 4080 feet.
- Mr. Terry, in your opinion, will the proposed completion result in the well being cased and cemented so as to prevent contamination of oil, gas, and water resources?
  - % Yes, it will.
- Mhat is the source of the water you propose to inject into the subject well?
- A It would be water, produced water, from our Getty 35 State No. 1.
- And what volumes do you anticipate injecting?
  - A Approximately 265 barrels per day.
- Will you be injecting this water under
   pressure or by gravity?
- A By pressure. We anticipate approximately 300 pounds.
  - Q In any event, a pressure limitation of

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. 2	of	a	pound	per	foot	of	depth	would	be	satisfactory	for
you	r į	p <b>ur</b>	poses	, is	that	COI	rrect?				

- A Be adequate.
- Q Will you now refer to what has been marked as Exhibit Number Four and explain this to the Examiner?
- A. This is a water analysis of the produced water from our Getty 35 State No. 1 that we propose to inject into the well.
- Q Mr. Terry, are there any wells within one-half mile of the injection well which penetrate the injection zone?
- A. Yes, sir, it's our Getty 36 State Com Well
  No. 1 is within a half a mile.
  - And when was that completed?
  - A. It was completed July of this year.
- Q Will you refer to what has been marked as Exhibit Number Five and explain what this shows?
- This is a diagrammatic sketch of the Getty

  36 State Com Well No. 1 that is within a half mile of the subject well.
- Q Is this the only well to your knowledge within the one-half mile radius of the subject well which penetrates the injection zone?
  - A Yes, it is.
  - Q Will you now refer to Exhibit Number Six

### SALLY WALTON BOYD ENTINE: BHORTHAND REPORTER 20 Plass Bhosos (865) 471-3445 Sente Pe, New Mexico 57191

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and explain this to the Examiner?

A This is the well location and acreage dedication plat, Form C-102, for the Getty 36 State Com Well No. 1.

Q And now refer to Exhibit Number Seven and explain this to the Examiner.

A This is a gamma ray neutron log of the State "AA" Well No. 1 that shows the zone that we propose to inject water into.

Q. Mr. Terry, in your opinion will granting this application prevent waste, protect correlative rights, and be in the interest of conservation?

A Yes, it will.

Q Were Exhibits One through Seven prepared by you or have you reviewed them and can you testify as to their accuracy?

A Yes, I can.

MR. CARR: At this time, Mr. Examiner, we would offer into evidence Getty Exhibits One through Seven.

MR. NUTTER: Applicant's Exhibits One through Seven will be admitted in evidence.

MR. CARR: I have no further questions of Mr. Terry on direct.

BY MR. NUTTER:

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Mr. Terry, looking at your plat, Exhibit
Two, I can't tell for sure, but are there any wells within
a half a mile of the subject well which have been plugged
and abandoned?

A To my knowledge there are no wells that have been plugged and abandoned.

And the summary here, which is on Exhibit

Number -- or Table I, are the producing wells within two

miles of the subject well, is that it?

A. They're not necessarily producing at present. They have produced from the zone.

These are wells within two miles, though.

A Yes, sir, within two miles.

Q And the nearest well to the subject well would be your Getty 35 - 1.

A The 36 - 1.

Q The 36 - 1, the one that you have the Exhibit Number Five on?

Yes, sir.

And that particular well, there would be two strings of casing opposite the proposed disposal zone, is that correct?

A That's correct.

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•

Q Okay. Now, from your analysis of the water, it would appear that the disposal water has approximately 87,000 parts per million of chlorides, and the total of dissolved solids of 143,000.

Do you have any analysis on the water that is in the Yates, the formation that you'll be disposing into?

- A No, sir, I don't.
- I have a note here from our District office in Hobbs that states that this may involve outside water being disposed of into the Capitan Reef. I don't know how serious it would be but it may be we'll have to check out the water that's in the formation that you're disposing of and if that has any possibility of being in communication with the Capitan Reef, and the water exceeds the the water is of worse quality than the Capitan Reef water, it may not be permissible.

But your proposal is to dispose into the zone 3810 to 4080, according to Exhibit Three.

- A Yes, sir.
- Q I see a note here that the well has cement plug from 4169 to 4250. Now, that 4080, is that based on your interpretation of the --
  - A Of the Yates.
  - Q -- porosity in the Yates?

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λ	Yes,	air.
<b>7</b> .	169'	277

Q But actually, all the way down to 4169 would be a --

A Yes, sir, that would be open.

Q -- exposed to the water.

A. Yes, sir.

Q The interval from the casing shoe to the cement plug would be exposed to disposal water.

A Yes, sir, that's correct.

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

Po you have anything further in this case,

Mr. Carr?

MR. CARR: Nothing further, Mr. Nutter.

MR. NUTTER: Does anyone have anything
they wish to offer in Case Number 6606?

We'll take the case under advisement.

(Hearing concluded.)

#### REPORTER'S CHRTIFICATE

I, SALLY WALTON BOYD, a Court Reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, knowledge, and skill, from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

I do herouy certify that the foregoing is a complete screen of the proceedings in the Examiner hearing of Case No. 666 heard by me on 7/25 1979.

Oil Conservation Division

SALLY WALTON BOYT
CEI MPED SHONTHAND REPORTE
1019 Plant Rings (806) 413-44

#### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 6606 Order No. R-6080

APPLICATION OF GETTY OIL COMPANY FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

### ORDER OF THE DIVISION

#### BY THE DIVISION:

This cause came on for hearing at 9 a.m. on July 25, 1979, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this leth day of August, 1979, the Division Director, 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 Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Getty Oil Company, is the owner and operator of the State "AA" Well No. 1, located in Unit I of Section 35, Township 21 South, Range 34 East, NMPM, East Grama Ridge Field, Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced sait water into the Yates formation, with injection into the open-hole interval from approximately 3810 feet to 4169 feet.
- (4) That the injection should be accomplished through 2 3/8-inch plastic lined tubing installed in a packer set at approximately 3750 feet; that the casing-tubing annulus 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.

-2-Case No. 6606 Order No. R-6080

- (5) That the injection well or system should be equipped with a pressure regulator or other acceptable device which will limit the wellhead pressure on the injection well to no more than 750 psi.
- (6) That the operator should notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment so that the same may be inspected.
- (7) 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.
- (8) 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, Getty Oil Company, is hereby authorized to utilize its State "AA" Well No. 1, located in Unit I of Section 35, Township 21 South, Range 34 East, NMPM, East Grama Ridge Field, Lea 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 3750 feet, with injection into the openhole interval from approximately 3810 feet to 4169 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-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.

- (2) That the injection well or system shall be equipped with a pressure regulator or other acceptable device which will limit the wellhead pressure on the injection well to no more than 750 psi.
- (3) That the operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment so that the same may be inspected.

-3-Case No. 6606 Order No. R-6080

- (4) That the operator shall immediately notify the supervisor of the Division's Hobbs 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.
- (5) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Division Rules and Regulations.
- (6) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAMEY

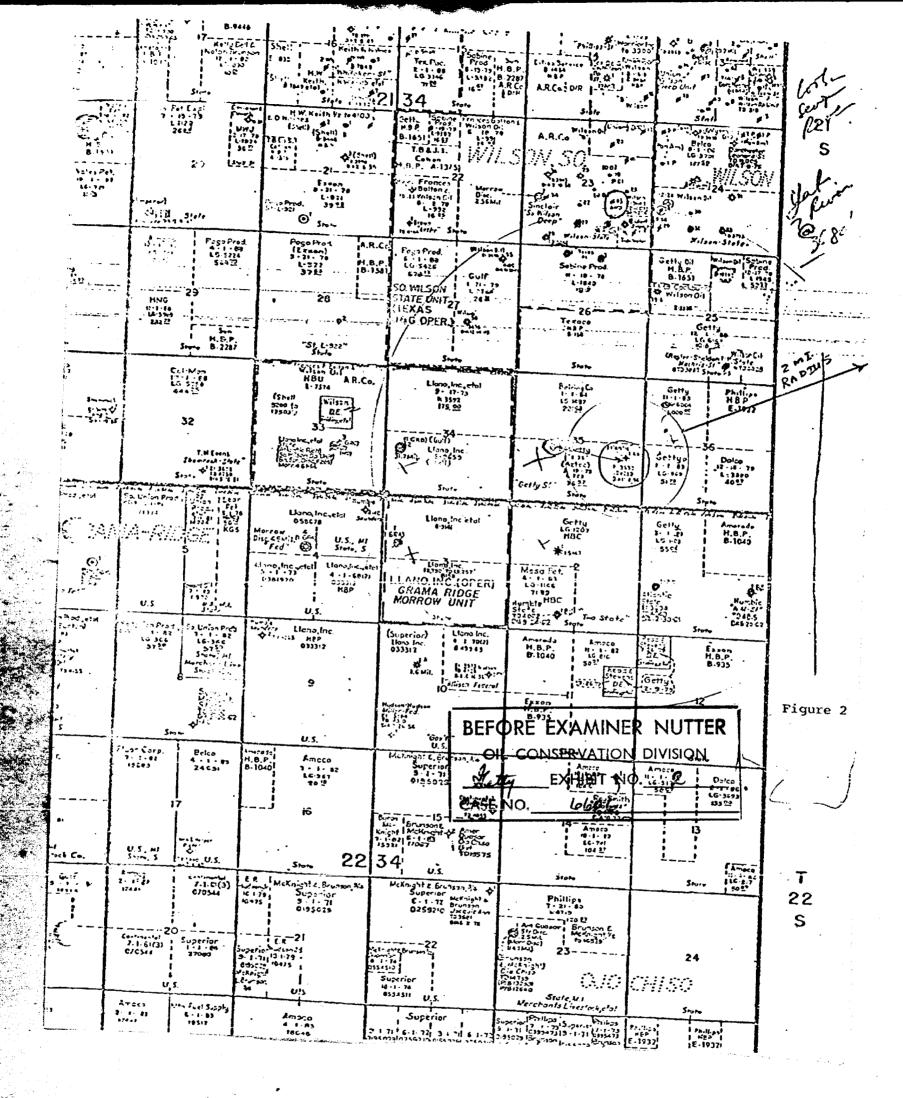
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# NEW MEXICO OIL CONSERVATION COMMISSION

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

TOPERATOR			ADDRESS			<del></del>		<del></del> .
Getty Oil Company				O. Box	<b>730</b> , Hobbs	, NM	88240	
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HAVE COPIES OF THIS APPLICATION BE SENT TO EACH OF THE FOLLOWING?	EEN SURFACE OW	NER	EACH OPERA	TOR WITHIN	ONE-HALF MILE	THE NEW	MEXICO STATE	NGINEER
		No		N/A		1	Yes	
ARE THE FOLLOWING ITEMS ATTACHED THIS APPLICATION (SEE RULE 701-B)	TO PLAT OF ARE		ELECTRICAL			DIAGRAM	MATIC SKETCH O	WELL
<u> </u>	<u>i</u> _	Yes		Yes		!	Yes	
I hereby ce	rtify that the in	formation above is			est of my know			
MYCENT COM	H men	Area S	Superintende			3/14	1/79	-
(Signature)	<del></del>	·	(Title)				(Date)	
NOTE: Should waivers from the not accompany this ap from the date of received by the Santa F	pplication, the ipt by the Com	New Mexico Oil amission's Santa	Conservation Co Fe office. If at	mmission the end o	will hold the of the 15-day w	applica citing pe	tion for a peri riod no protes	od of 15 day thas been to
if the applicant so reque								



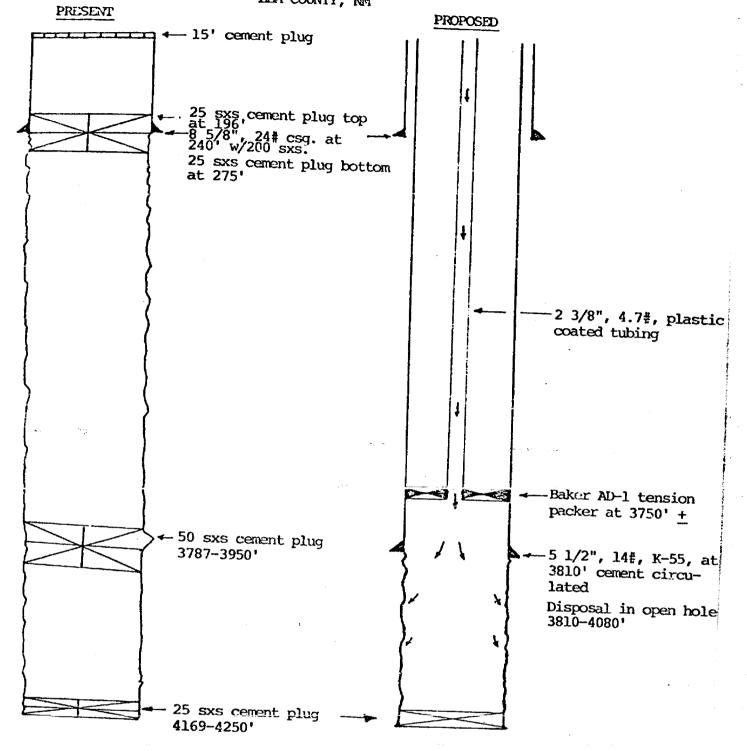
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### TABLE I

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STATE "AA" WELL NO. 1 SEC. 35, T-21-S, R-34E LEA COUNTY, NM



OIL CONSERVATION DIVISION

Atty EXHIBIT NO. 3

CASE NO. 4606



Home Office 707 N. Leech, P. Q. Box 1499 / Hobbs, NM BB240 / Ph. 505/393-7751, YWX 910/986-0010

	Field Wolfcamp Lease Getty 35 State #1	Sampling Date	2-5-79
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CaCO<sub>3</sub> S.I. negative (0.36)

CaSO<sub>4</sub> S.I. negative (1.11)

U-LAB 31 (REV. 6/78)

	<b>BEFORE</b>	<b>EXAMINER</b>	NUTTER
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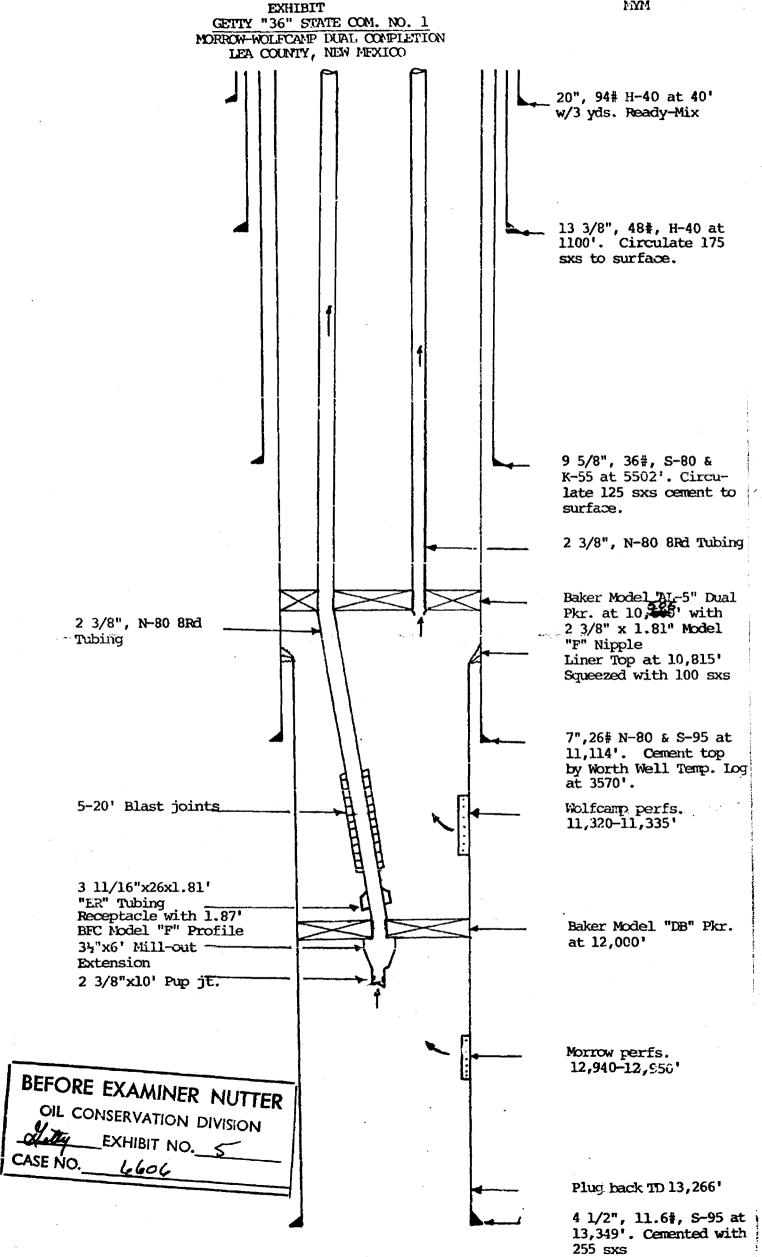
OIL CONSERVATION DIVISION

EXHIBIT NO. 4

CASE NO. LADG

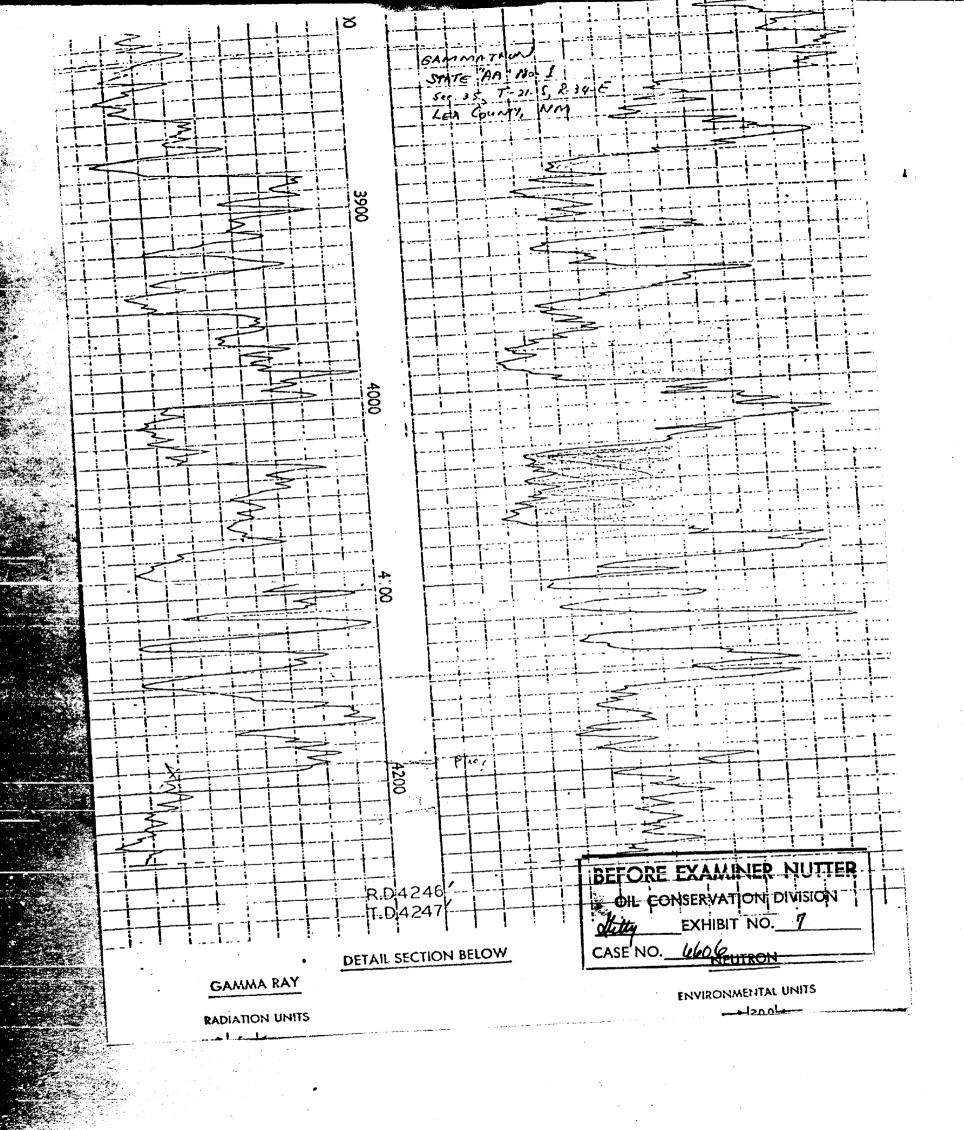
<sup>\*</sup> mg/l=milligroms per Liter

<sup>•</sup> me/l = milliequivalents per Liter



Phra C-502 Supervedes C-128 Effective 1-1-65

1-Foreman 21 South 34 East 3674.1 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 rovalty). I If more than one leave of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? If answer is "yes," type of consolidation \_\_\_\_Communitization If answer is "no," list the owners and tract descriptions which have actually been consulidated. Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated thy communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-CERTIFICATION ! hereby certify that the information con-ORIGINAL SISTED BY BEFORE EXAMINER NUTTER BEIF D CROSSEY OIL CONSERVATION DIVISION Dale R. Crockett EXHIBIT NO. 6 Area Superintendent CASE NO. 4606 Getty Oil Company February 12, 1979 I heraby certify that the well location



Docket No. 27-79

Dockets Nos. 29-79 and 31-79 are tentatively set for hearing on August 8 and 22, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

#### DOCKET: COMMISSION HEARING "TUESDAY - JULY 24, 1979

OIL CONSERVATION COMMISSION - 9 A.M. - ROOM 205 STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

CASE 6596: Application of Harvey E. Yates Company for pool creation and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Upper Pennsylvanian gas pool to be designated as the Southeast Indian Basin-Upper Pennsylvanian Gas Pool for its Southeast Indian Basin Well No. 1 located in Unit A of Section 23, Township 22 South, Range 23 East, and special pool rules therefor including 320-acre gas well spacing.

CASE 6597: Application of Harvey E. Yates Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Southeast Indian Basin Well No. 2, an Upper Pennsylvanian well to be drilled 660 feet from the North and West lines of Section 24, Township 22 South, Range 23 East, with the N/2 or all of said Section 24 to be dedicated to the well, depending on the outcome of Case No. 6596.

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Docket No. 28-79

#### DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 25, 1979

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

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

CASE 6545: (Continued from June 27, 1979, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Corinne Grace, Travelers Indemnity Company, and all other interested parties to appear and show cause why the Kuklah Baby Well No. 1 located in Unit G of Section 24, Township 22 South, Range 26 East, Eddy County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.

Application of Gulf Oil Corporation for downhole commingling, Rio Arriba County, New Mexico.

Applicant, in the above-styled cause, seeks approval for the downhole commingling of Otero-Gallup and Basin-Dakota production in the wellbores of its Apache Federal Wells No. 8 located in Unit C of Section 8 and No. 9 located in Unit D of Section 17, both in Township 24 North, Range 5 West.

CASE 6599: Application of Gulf Oil Corporation for downhole commingling, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks approval for the downhole commingling of Fusselman and Montoya production, North Justis Field, in the wellbore of its W. A. Ramsay Well No. 4 located in Unit M of Section 36, Township 24 South, Range 37 East.

CASE 6600: Application of Mesa Petroleum Company for compulsory pooling, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the E/2 of Section 10, Township 16 South, Range 27 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6601: Application of Harvey E. Yates Company for compulsory pooling, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp through Mississippian formations underlying the E/2 of Section 8, Township 14 South, Range 36 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

Application of Tenneco Oil Company for an unorthodox well location, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal 33

C No. 2 Well 1010 feet from the North line and 1710 feet from the West line of Section 33, Township 17 South, Range 29 East, South Empire-Wolfcamp Pool, the E/2 NW/4 of said Section 33 to be dedicated to the well.

CASE 6603: (This case will be continued to the August 8 hearing.)

Application of Conoco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Penrose Skelly and Eumont production in the wellbore of its Hawk B-1 Well No. 12 located in Unit O of Section 8, Township 21 South, Range 37 East.

- CASE 6604:

  Application of Cities Service Company for rescission of Division Order No. R-5921, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the rescission of Order No. R-5921 which order provided for the compulsory pooling of all of the mineral interests in the Pennsylvanian formation underlying the S/2 of Section 8, Township 23 South, Range 28 East.
- CASE 6605: Application of Estoril Producing Corporation for compulsory pooling and an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the W/2 of Section 15, Township 20 South, Range 34 East, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the North and West lines of said Section 15. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 6564: (Continued and Readvertised)

Application of Hernden Oil & Gas Co. for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its O. A. Woody Well No. 1 to be drilled 2310 feet from the North line and 330 feet from the West line of Section 35, Township 16 South, Range 38 East, Knowles-Devonian Pool.

- CASE 6606: Application of Getty Oil Company for salt water disposal, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Tates formation in the open-hole interval from 3810 feet to 4169 feet in its State "AA" Well No. I located in Unit I of Section 35, Township 21 South, Range 34 East.
- CASE 6607:
  Application of Getty Oil Company for a dual completion, Lea County, New Mexico.
  Applicant, in the above-styled cause, seeks approval for the dual completion of its Getty 36 State
  Well No. 1 located in Unit F of Section 36, Township 21 South, Range 34 East, to produce oil from
  the Wolfcamp formation and gas from the Morrow formation through parallel strings of tubing.
- Application of Getty Oil Company for pool creation and special pool rules, Los County, New Merico, Applicant, in the above-styled cause, seeks the creation of a new Wolfcamp oil pool for its Getty 36 State Well No. 1 located in Unit F of Section 36, Township 21 South, Range 34 East, and special rules therefor, including 160-acre oil well spacing.
- CASE 6609: Application of Napeco Inc. for pool creation and special pool rules, Eddy County, New Mexico.

  Applicant, in the above-styled cause, seeks the creation of a new Strawn oil pool for its Benson

  Deep Unit Well No. 1 located in Unit 0 of Section 33, Township 18 South, Range 30 East, and

  special rules therefor, including 160-acre spacing and standard well locations.
- CASE 6610: Application of Koch Industries, Inc. for salt water disposal, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Rustler formation through the perforated interval from 1190 feet to 1210 feet in its Wills "A" Well No. 7 located in Unit E of Section 35, Township 26 South, Range 37 East, Rhodes Field.
- Application of Cabot Corp. for salt water disposal, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the disposal of produced salt water in the Devonian formation through the perforated interval from 12,156 feet to 12,574 feet in its Reed Well No. 1 located in Unit H of Section 35, Township 13 South, Range 37 East, King Field.
- CASE 6487: (Continued from May 23, 1979, Examiner Hearing)

Application of El Paso Natural Gas Company for approval of infill drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirements and a finding that the drilling of its Shell E State Com Well No. 2 located in Unit N of Section 6, Town-ship 21 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.

CASE 6471: (Continued from May 23, 1979, Examiner Hearing)

Application of Consolidated Oil & Gas, Inc. for approval of infill drilling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirements and a finding that the drilling of its Freeman Well No. 1-A to be located in Unit C of Section 11, Township 31 North, Range 13 West, Basin-Dakota Pool, San Juan County, New Mexico, is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.

CASE 6472: (Continued from May 23, 1979, Examiner Hearing)

Application of Consolidated Oil & Gas, Inc. for approval of infill drilling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirements and a finding that the drilling of its Jenny Well No. 1-A to be located in Unit P of Section 13, Township 26 North, Range 4 West, Basin-Dakota Pool, Rio Arriba County, New Mexico, is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.

CASE 6473: (Continued from May 23, 1979, Examiner Hearing)

Application of Consolidated Oil & Gas, Inc. for approval of infill drilling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirement and a finding that the drilling of its McIntyre Well No. 1-A to be located in Unit K of Section 11, Township 26 North, Range 4 West, Basin-Dakota Fool, Rio Arriba County, New Mexico, is necessary to affectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.

CASE 6474: (Continued from May 23, 1979, Examiner Hearing)

Application of Consolidated Oil & Gas, Inc. for approval of infill drilling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirements and a finding that the drilling of its Williams Well No. 1-A to be located in Unit C of Section 24, Township 31 North, Range 13 West, Basin-Dakota Pool, San Juan County, New Mexico, is necessary to effectively and efficiently drain that portion of the provation unit which cannot be so drained by the existing well.

CASE 6475: (Continued from May 23, 1979, Examiner Hearing)

Application of Consolidated Oil & Gas, Inc. for approval of infill drilling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirements and a finding that the drilling of its Montoya Well No. 1-A to be located in Unit I of Section 35, Township 32 North, Range 13 West, Basin-Dakota Pool, San Juan County, New Mexico, is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.

CASE 6535: (Continued from June 13, 1979, Examiner Hearing)

Application of Torreon Oil Company for a waterflood project, Sandoval County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the San Luis-Mesaverde Pool by the injection of water into the Menefee formation through two wells located in Section 21, Township 18 North, Range 3 West, Sandoval County, New Mexico.

CASE 6579: (Continued from June 27, 1979, Examiner Hearing)

Application of R. N. Hillin for an unorthodox well location and approval of infill drilling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well spacing requirements and a finding that the drilling of a Morrow gas well at an unorthodox location 500 feet from the South line and 2000 feet from the East line of Section 34, Township 19 South, Range 28 East, is necessary to effectively and efficiently drain that portion of the E/2 of said Section 34 which cannot be so drained by the existing well.

CASE 6580: (Continued from June 27, 1979, Examiner Hearing) (This case will be continued to the August 22 hearing.)

Application of Continental Oil Company for a carbon dioxide injection project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to initiate a pilot carbon dioxide injection project in the Grayburg-San Andres formation in Units H and I of Section 20, Township 17 South, Range 32 East, Maljamar Pool, for tertiary recovery purposes.

CASE 6270: (Continued from July 11, 1979, Examiner Hearing)

In the matter of Case 6270 being reopened pursuant to the provisions of Order No. R-5771 which order created the South Peterson-Fusselman Pool, Roosevelt County, New Mexico, and provided for 80-acre spacing. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing units.

CASE 6590: (Continued from July 11, 1979, Examiner Hearing)

Application of Grace Patroleum Corporation for compulsory pooling and an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Lots 9, 10, 15, and 16 and the SE/4 of Section 6, Township 21 South, Range 32 East, to be dedicated to a well to be drilled at an unorthodox location 4650 feet from the South line and 660 feet from the Fast line of said Section 6. Also to be considered will be the cost of drilling and completing said well and the allocation of the costs thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

# OIL CONSERVATION COMMISSION Hobbs DISTRICT

BOX 2088 SANTA FE,	NEW MEXICO	RE: Proposed MC
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		Proposed WFX
		Proposed PMX
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for the	Getty Oil Company (A	RCO P/A) State AA No. 1-I 35-21-34
	Operator	Lease and Well No. Unit, S-T-R
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(Note Ap	plication Attached)	
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(Note Ap	plication Attached)	NTSIDE WATER FUNG DISPOSED
(Note Ap	plication Attached)	Yours very truly,
(Note Ap	plication Attached)	
(Note App	plication Attached)	

# NEW MEXICO OIL CONSERVATION COMMISSION

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

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(Signature)			(Title)				(Date)
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NOTE: Should waivers from the State Engineer, the surface cuher, 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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# **Getty**

**Getty Oil Company** 

Central Exploration and Production Division P. O. Box 730
Hobbs, NM 88240

June 25, 1979

Case 6606

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, NM 87501

Attn: Mr. Joe Ramey

Subject: Application for Administrative Approval Conversion of State "AA" Well No. 1 to SWD Sec. 35, T-21-S, R-34-E Lea County, New Mexico

Getty Oil Company respectfully requests an administrative approval for injection of produced water in the Yates formation at the subject well as shown on attached NMOCC Form C-108 and Figure 1.

The subject well was drilled in 1956. Surface casing was set at 275 feet. It was drilled to a total depth of 4250' and plugged and abandoned (Figure 1) as a "dry hole" on November 4, 1956.

The subject well is offset by Getty operated Getty "35" State Well No. 1 as shown in Figure 2. Getty "35" State is a dual Morrow-Bone springs completion producing an average of 3000 MCFGPD, 400 BOPD, and 400 BWPD. It is Getty's intent to utilize the State "AA" Well No. 1 for disposal of produced water from Getty "35" State Well No. 1 and other Getty operated wells in Sections 2 and 36. It is proposed to drill out all cement plugs except the bottom one, run and cement 5 1/2" casing to 3810', and dispose of produced water under a packer in the open hole interval, 3810-4080' as shown in Figure 1.

A similar water disposal application was approved by the NMOCC through Order No. R-3657 (Case No. 4015).

Attached is NMOCC Form C-108 in triplicate, a plat showing the subject well and location of all other wells within a radius of two miles, and the formation from which said wells are producing or have produced (Table I).

ECEIVED
JUN2 S 1979

OIL CONSERVATION DIVISION SANTA FE

Prod From I wothing & mi

Page 2 New Mexico Oil Conservation Commission June 25, 1979

Also attached is a copy of a portion of Gamma Ray Neutron Log and a water analysis for the produced water to be disposed in the proposed disposal well.

A copy of this letter and attachments has been furnished to the offset operators as shown on the attached sheet.

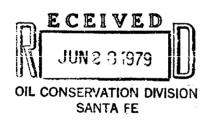
Sincerely,

Dale R. Crockett

**/** MYM∕de

Attachments

cc Mr. A. B. Cary-Midland

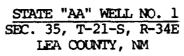


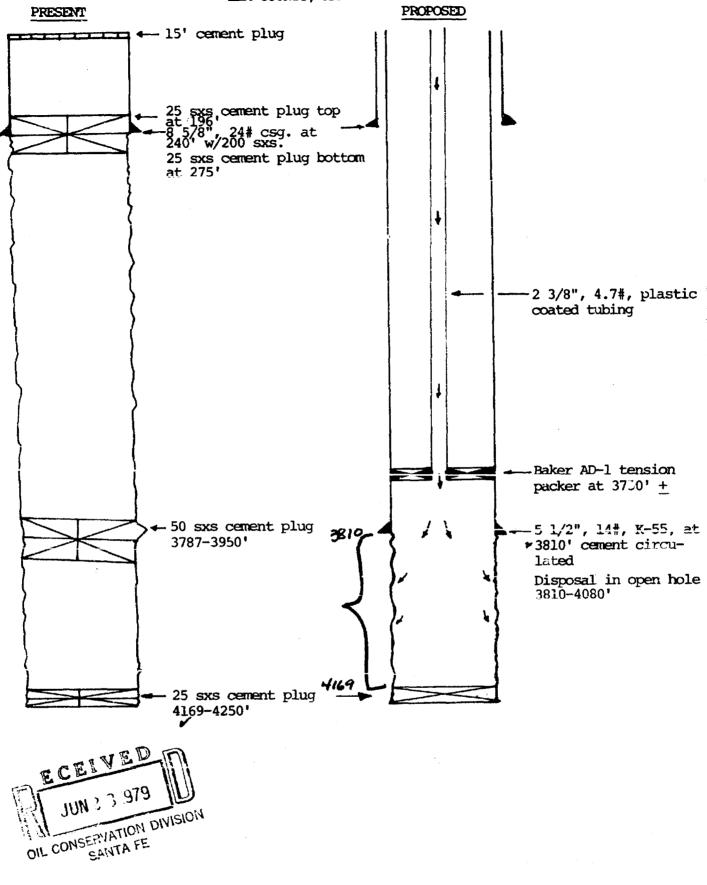
	N	EW MEXICO OIL	CONSERVATION	COMMISSION	Nev:	Cate 6606
APPLICAT	ION TO DISP	OSE OF SALT W		TION INTO A PORC	OUS FORM	ATION
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Getty Oil Company		WELL NO.		Box 730, Hob	bs, NM	
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	20/05/0	M				
OIL CONSERVA	TA FE					
SAIN I MAYE COPIES OF THIS APPLICATION BE SENT TO EACH OF THE FOLLOWING?				OR WITHIN ONE-HALF MILI	THE NEW	MEXICO STATE ENGINEER
ENT TO BACK OF THE FOLLOWING?		No	J OF THIS WEL	N/A	i	Yes
HE THE FOLLOWING ITEMS ATTACHED	TO PLAT OF AR		ELECTRICAL		DEAGRAM	IMATIC SKETCH OF WELL
THE APPLICATION (SEE BULE 701-B)		Yes	r !	Yes		Yes
		nformation above is		<del></del>	<del></del>	

Stall & a May (Signature) Area Superintendent 3/14/79 (Title) (Date)

NOTE: Should waivers from the State Engineer, the surface owner, 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 application received to the santa fee of the processed. if the applicant so requests. SEE RULE 701.



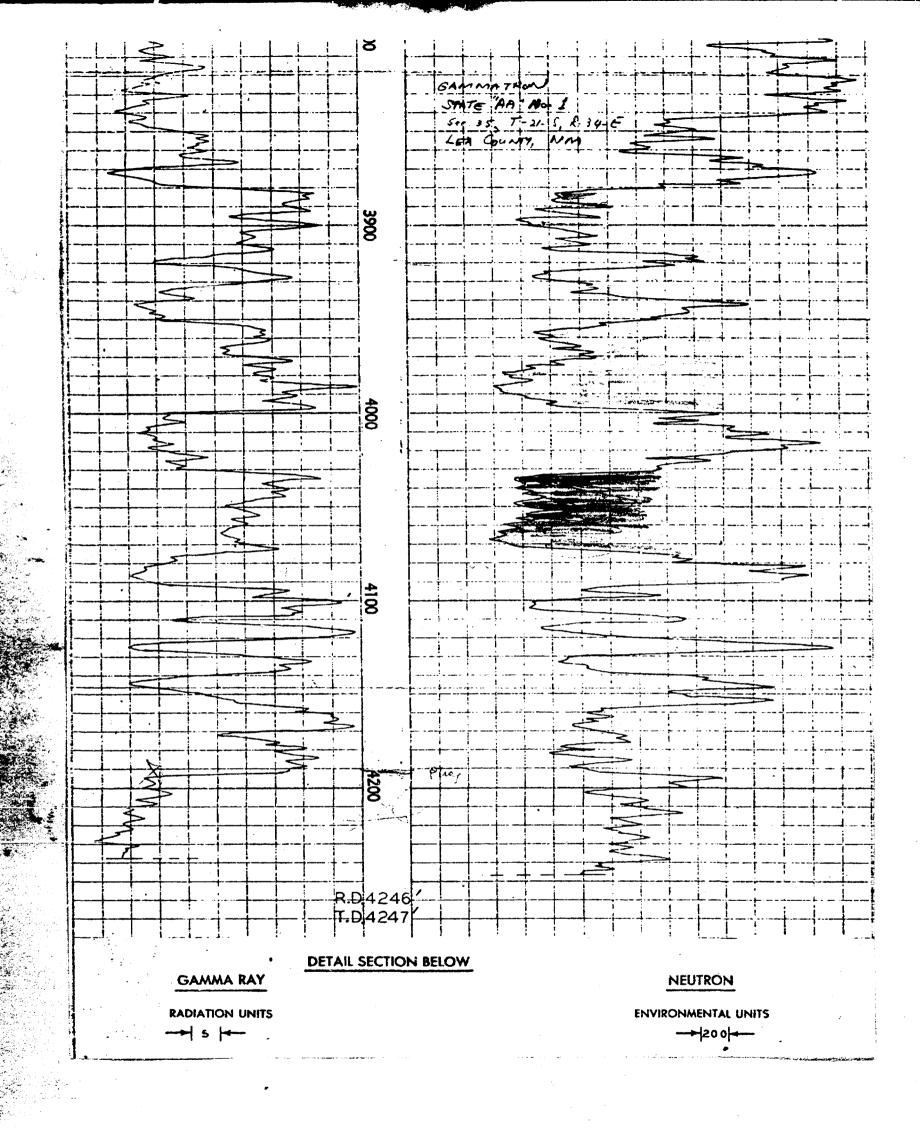


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# TABLE I

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Wilson State #28	Yates - 7 Rivers
Wilson State #32	Yates - 7 Rivers
Wilson State #33	Yates - 7 Rivers
Wilson State #35	Yates - 7 Rivers
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Wilson State L #1	Yates - 7 Rivers
Texas Co. State AC #1	Yates - 7 Rivers
Texas Co. State AC #2	Yates - 7 Rivers
Humble State "BV" #1	Yates - 7 Rivers
Humble State "BS" #1	Yates - 7 Rivers
Atlantic Rfg. Co. State "AR" #1	Yates - 7 Rivers
Getty 35 State #1	Bone Springs, Morro
Getty Two State #1	Morrow
Llano 3 State #1	Grama Ridge Morrow
Llano 34 State #2	Morrow





1499 / Hebbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

Company

Getty Oil Company

Field

Wolfcamp

Getty 35 State #1

Sampling Date

Type of Sample Wellhead

WATER ANALYSIS

IONIC FORM		me/l *	mg/l *
Calcium (Ca++)		230,00	4,600
Magnesium (Mg++)		250.00	3,000
Sodium (Na+)	(CALCULATED)	2020.10	46,442
Iron (Total)			3.8
Bicarbonate (HCO, )		6.00	366
Carbonate (CO 3 -)		Not	Found
Hydroxide (OH-)		Not	Found
Sulphate (SO)		40.70	1,955
Chloride (C1 -)		2453.40	87,000
Total Dissoived Solids			143,363
6.0 ph c 68 °F			
Dissolved Solids on Evap. at 103° - 105° C Hardness as Ca CO <sub>3</sub>		480.00	24,000
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Alkalinity as CaCO,		6.00	300
Specific Gravity c 68° F 1.100			

<sup>\*</sup> mg/l= milligrams per Liter

CaCO<sub>3</sub> S.I. negative (0.36)

 $CaSO_4$  S.I. negative (1.11)

U-LAB 31 (REV. 6/78)

<sup>\*</sup> me/!= milliequivalents per Liter

ROUGH

## STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 6606

Order No. R- 6080

APPLICATION OF GETTY OIL COMPANY FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

This cause came on for hearing at 9 a.m. on July 25

GOP JOP

BY	THE	DIVISION:		

NOW, on this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 19 79 \_, the Division Director, 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 Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Getty Oil Company
  is the owner and operator of the State "AA" Well No. 1
  located in Unit I of Section 35, Township 21 South
  Range 34 East , NMPM, Saf Krama Ridge Field,
  Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Yates formation, with injection into the open-hole interval from approximately 3810 feet to 4169 feet.
- -inch plastic lined tubing installed in a packer set at approximately 3750 feet; that the casing-tubing annulus 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 injection well or system should be equipped Actice with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 750 psi.
- (6) That the operator should notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment so that the same may be inspected.
- (7) 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.
- (8) 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, Getty Oil Company
is hereby authorized to utilize its State "AA" Well No. 1
located in Unit I of Section 35 , Township 21 South
Range 34 East, NMPM, East Chama Ridge Field,
Lea County, New Maxico, to dispose of produced salt water
into the Yates formation, injection to be
accomplished through
packer set at approximately 3750 feet, with injection into
the open-hole interval from approximately 3810 feet to

PROVIDED HOWEVER, that the tubing shall be plastic-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.

- (2) That the injection well or system shall be equipped from part of the 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 150 psi.
- (3) That the operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment so that the same may be inspected.
- visor of the Division's Hobbs 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.
- (5) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Division Rules and Regulations.
- (6) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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